

KTS | Catalogue 2012/2013



# Cable support systems

THINK CONNECTED.

## Welcome to Customer Service

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**Service telephone: +49 (0)2373 89-1500**

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**Telefax for enquiries: +49 (0)2373 89-7777**

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**Fax for orders: +49 (0)2373 89-7755**

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**E-mail: [info@obo.de](mailto:info@obo.de)**

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- Knowledgeable advice on special application topics
- Quick, direct access to all the technical data of the OBO products – we also want to provide the best in customer relations!

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#### **OBO KTS seminars: First-hand knowledge**

With a comprehensive range of training courses and seminars on cable support systems, OBO is able to provide users with first-hand support. Alongside the basic theoretical principles, the programme also deals with practical implementation in everyday applications. Special calculation and application examples round off the comprehensive programme of knowledge transfer.

#### **Invitations to tender, product information and datasheets**

We can make life easier for you, with our comprehensive selection of materials designed for practical applications, which provide you with effective support with the planning and calculation of a project. These include:

- Invitations to tender
- Product information
- Information sheets
- Datasheets

These documents are continually updated and can be downloaded at no charge at any time from the Internet download area at [www.obo.de](http://www.obo.de).

#### **Invitations to tender on the Internet at [www.ausschreiben.de](http://www.ausschreiben.de)**

More than 10,000 entries from the KTS, BSS, TBS, LFS, EGS and UFS ranges can be called up free of charge. Regular updates and extensions mean that you always have a comprehensive overview of the OBO products. All the current file formats – PDF, DOC, GAEB, HTML, TEXT, XML, ÖNORM – are available.

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## The new generation is there: OBO Construct Professional and OBO Construct Web



We have reinvented our Construct planning software: we have bundled all the electronic planning aids under the name OBO Construct.

### Two versions

There are now two versions of OBO Construct: Construct Web and Construct Professional. They are now aligned to the different requirements of our customers and offer the following scope of service:

### OBO Construct Professional

The completely new tool for professional users. The new multilingual AutoCAD plug-in is available in various languages and offers the user a wealth of benefits:

- Redesigned user dialogues.
- Simplified operation.
- Improved component depiction.
- Individual adjustment of object display.
- Completely new system (runs on 64-bit systems).
- Mass determination with additional materials.
- Output of the mass determination in various formats (Excel, PDF, Text)
- Simple updates
- Importable and editable invitations to tender

### OBO Construct Web

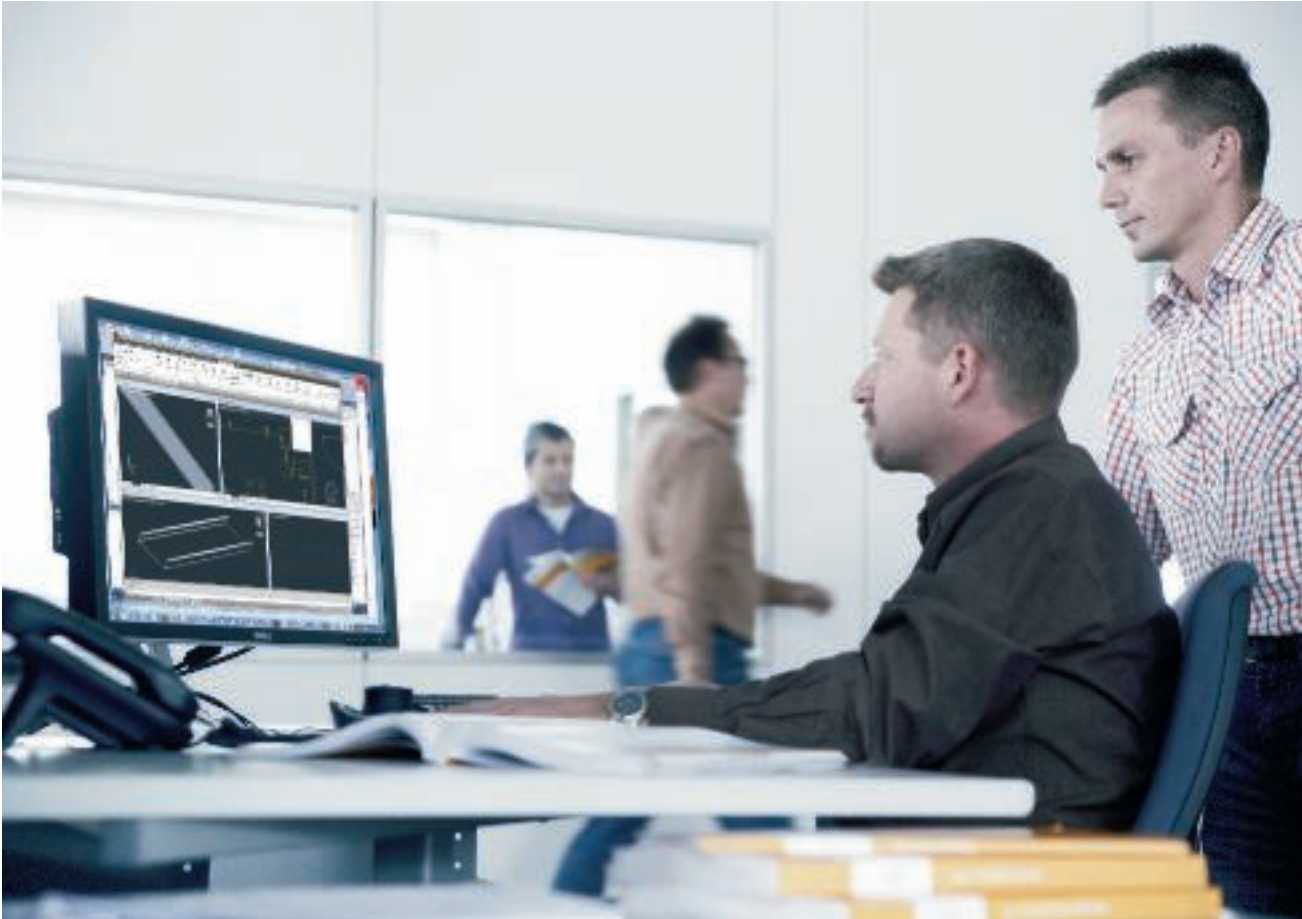
The Internet version for rapid help now no longer needs a CAD system and offers the following benefits:

- Simple operation
- For quick and easy application
- Platform-independent
- No installation required
- Access possible from anywhere
- Option of saving project data
- Plans can be printed out as PDFs
- Exact mass determination in an Excel file
- Additional material bookable





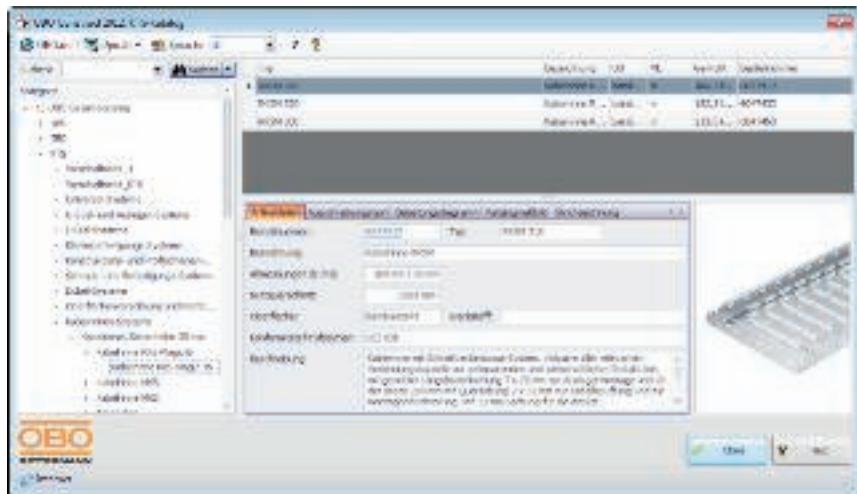
## OBO Construct KTS: Project planning, drawing, generation



### Find out now

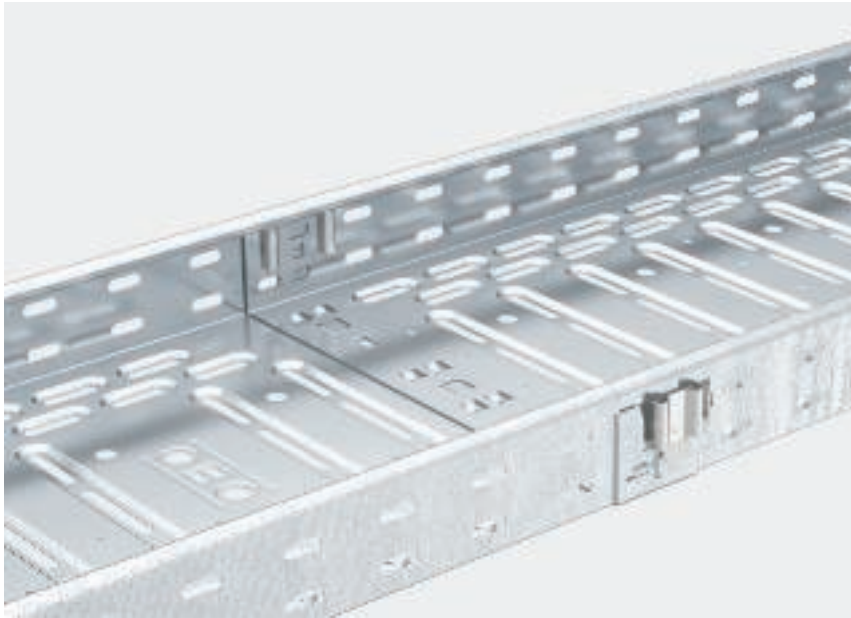
Convince yourself about the new OBO Construct: a new support and training concept makes it easier than ever for you to take your first steps. You can find additional information on the Internet or from our Customer Service.

**AutoCAD is a registered trademark of Autodesk Corporation, USA.**





## Standards, regulations and tests



### Standardised work offers protection

OBO offers cable support systems made by professionals for professionals: The technical properties are guaranteed by DIN EN 61537 (follow-up to DIN VDE 0639). It describes all the relevant parameters – from the area of application, through test conditions, up to corrosion resistance and temperature classification. As a competent manufacturer of cable support systems, OBO subjects itself to these requirements on a daily basis. The tests described below guarantee the use of systems which fulfil the requirements of the systems.

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**Suitable protective clothing is required for safe handling during transport and processing.**

### CE-conformant

All products in this catalogue are CE-compliant in accordance with the appropriate EC directives. This also applies to standard parts such as bolts, washers and nuts that are components of various product systems. The appropriate EC declaration of conformity certifies agreement with the named directives or standards, but does not guarantee properties. The safety instructions in the supplied product information and the general safety regulations must be complied with during installation and use.

### Testing, equipotential bonding/protective conductor

Cable support systems must possess sufficient conductivity. Only this can ensure that the equipotential bonding and the connection to the earth potential is sufficient. A reduction in conductivity is often the result of contact resistances at joints.

To keep these contact resistances to a minimum on the OBO cable support systems, during the development process we placed great emphasis on a stable connection, which is free of contact resistance. Of course, the developed systems were tested in the BET laboratory. In this catalogue, the tested articles are marked with the test marks shown below. You can request the appropriate test reports at any time via our hotline.





## Inclusion of the protective measures



### Load tests for cable support systems

All the OBO articles and systems are subjected to practical load testing. The basic principles for the tests of OBO cable support systems are included in DIN EN 61537 and DIN VDE 0639. After the load test, the maximum load capacity can be determined for each component, depending on the support distances and specific article parameters, such as component dimensions. This is all shown in a chart, included with each component.

You can find additional information on the load tests for cable trays, brackets and suspended supports in this catalogue. The values given do not take resistance against environmental forces such as snow, wind and other outside influences into account.



## Definition of electromagnetic compatibility (EMC)



**In recent years, the use of electronic circuits has increased continually. Whether in industrial systems, medicine, households, in telecommunications systems or electrical building installations – everywhere, we see powerful electric equipment and systems, which switch ever greater currents, achieve greater radio ranges and transport ever more energy in smaller spaces.**

However, the use of state-of-the-art technology means that the com-

plexity of applications also increases. The consequence of this is that ever more opposing influences (electromagnetic interference) can occur from system parts and cables, causing damage and economic losses.

### **Here, we talk of electromagnetic compatibility.**

Electromagnetic compatibility (EMC) is the ability of an electrical unit to function satisfactorily in its electromagnetic environment, without inappropriately influencing this environment, to which other units also belong (VDE 0870-1). In

terms of standardisation, electromagnetic compatibility is dealt with by the EMC directive 2004/108/EC. This means that electrical resources emit electromagnetic interferences (emission), which are picked up by other devices or units (immision) which act as receivers (interference sink). This means that the function of an interference sink can be severely reduced, meaning, in the worst case, total failure and economic losses. The interferences can spread along cables or in the form of electromagnetic waves.

### **Path of faults**

<b>Fault source (transmitting emissions)</b>	<b>Coupling of interference variables (spreading of interference)</b>	<b>Fault sink (receiving emissions)</b>
For example - Mobile telephones - Switching components - Ignition systems - Frequency converters - Lighting strike - Welding devices	- Galvanic - Inductive - Capacitive - Electromagnetic	- Process computer - Radio receiver systems - Controllers - Converters - Measuring units



## Guarantee of EMC



### Guarantee of EMC

A systematic planning process is necessary to guarantee EMC. The interference sources must be identified and quantified. The coupling describes the spread of the interference from the interference source up to the influenced device, the interference sink. The task of EMC planning is to ensure the compatibility at the source, coupling path and sink using suitable measures. During their daily work, planners and installation engineers are confronted with this subject on an increasingly regular basis. This means that EMC is a basic factor to be taken into consideration during the planning of installations and cabling systems. Due to the high complexity of electromagnetic compatibility, the problems of EMC must be analysed and solved using simplifying hypotheses and models as well as experiments and measurements.

### Cable support systems and their contribution to EMC

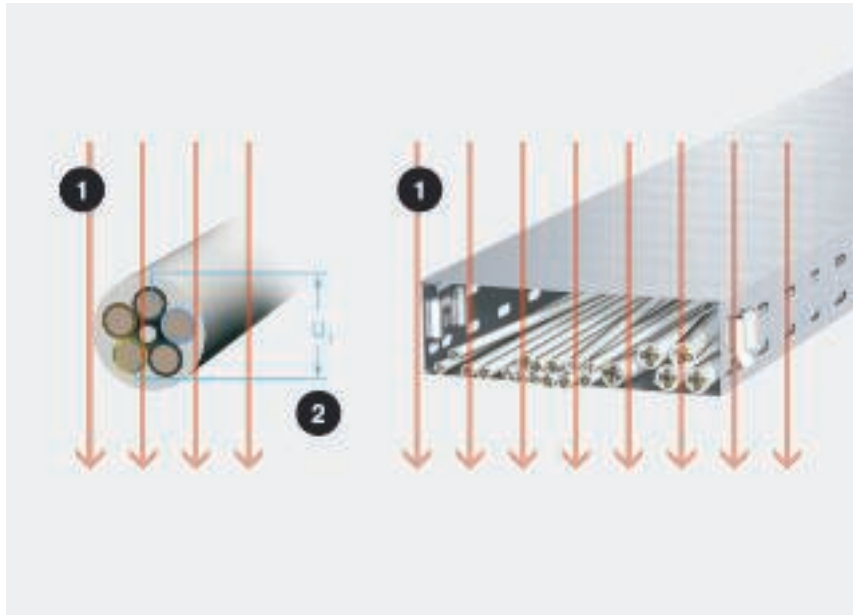
Cable support systems can make an important contribution to the improvement of EMC. They are passive and can thus make a safe, long-lasting contribution to EMC through the fact that cables are run within cable support systems or are shielded by them. Routing cables inside cable support systems greatly reduces the galvanic decoupling and coupling due to electrical and magnetic fields in the cables. Thus cable support systems can make a contribution to the reduction of coupling from the source to the sink. The shielding action of cable support systems can be quantified by the coupling resistance and the shield attenuation. This gives the planner important engineering parameters for cable support systems for the EMC engineering.

### Lightning discharge

From the analysis of the effectiveness of EMC in buildings (EN 62305-4), we know that lightning discharge is one of the greatest sources of interference to be expected. This causes a direct current feed into the entire equipotential bonding system in the building and/or to magnetic decoupling of interference currents in electrical cables. With regard to these couplings, cable support systems can offer an effective contribution to the reduction of interference voltages.



## Magnetic shield insulation of cable support systems



The magnetic field (H) of strength 3 kA/m in a defined experimental setup: without cable support system on the left, with cable support system on the right. 1 = Field H, 2 =  $V_{1, L2, PE}$

The magnetic shield insulation of cable support systems is the ratio in decibels (dB) of an induced voltage into an unprotected cable to the induced voltage into the same cable, when this is in a cable support system.

### Experimental structure to determine the magnetic shield insulation of cable support systems:

An unshielded cable (NYM-J 5x6 mm<sup>2</sup>) is subjected to an 8/20 magnetic field with a strength of 3 kA/m. Here, the induced voltage

V1 is measured in the unshielded cable. The same cable is then positioned in the centre of a cable support system (once with a cover, once without) and subjected to the same magnetic field of 3 kA/m. Here, the induced voltage V2 is measured in the unshielded cable. The magnetic shield insulation is calculated from the measured values according to the formula:

$$\alpha_s = 20 \log (V1/V2) \text{ dB}$$



### Experiment result:

The magnetic shield effect  $\alpha_s$  of a cable support system could be clearly proved by the experiments and the simulation with an FEM program. The best result of around 50 dB was achieved with cable support systems (cable trays) with covers.

Note:

The shield insulation against electrical fields is almost perfect, like a Faraday cage.

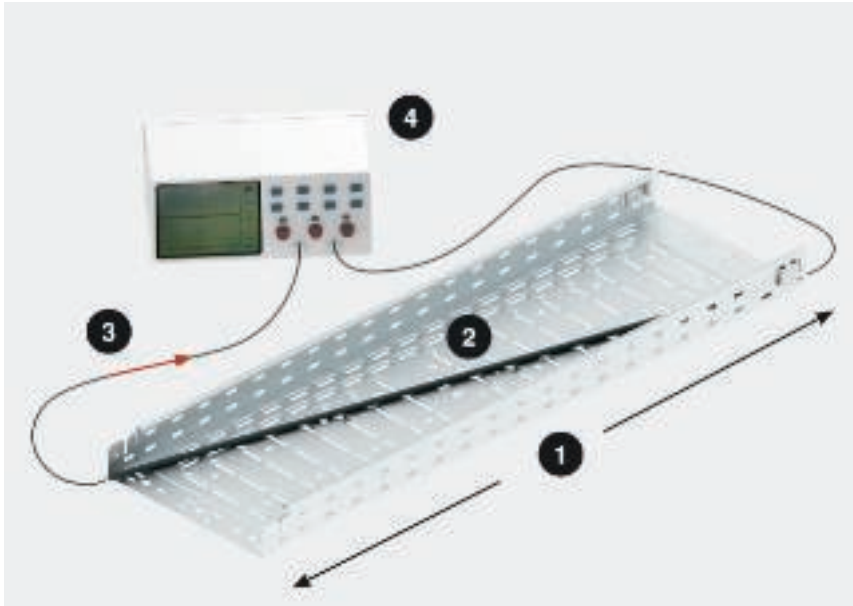
### Magnetic shield insulation 8/20 dB

Type, cable tray / cable ladder	Without cover	With cover
RKSM 630 FS	20	50
MKS 630 FS	20	50
MKS 630 FT	20	50
MKSU 630 FS	20	50
MKSU 630 FT	20	50
MKSU 630 VA	20	50
GRM 55/300 FS	15	25
LG 630 NS FT	10	15

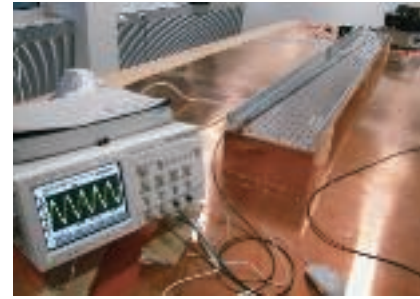




# Transfer impedance of cable support systems



Experimental structure for transfer impedance: 1 = Length  $l$ , 2 =  $U$ , 3 =  $I$ , 4 = Pulse source 8/20



$$Z'_T = \frac{U_{\text{Stör}}}{I_{\text{Stör}} \cdot L}$$

$V_{\text{Interference}}$ : Interference voltage measured in cable

$I_{\text{Interference}}$ : Interference current, fed into the shield from outside (KTS)

$L$ : Length of the cable support system

## Transfer impedance (coupling resistance) of cable support systems

The transfer impedance of a cable support system is the ratio of the measured voltage  $V_{\text{Interference}}$ , measured in the lengthwise direction within the cable support system, to the coupled current  $I_{\text{Interference}}$ .

The transfer impedance is determined in the same way as with the measurement of the electrical conductivity properties in Chapter 11.1. (DIN EN 61537).

If there is a lightning strike in a building, partial currents will flow through the entire equipotential bonding system.

Installed cables are best run within

a cable support system. Installed cable support systems are always included in the equipotential bonding system. In so doing, the partial current flows via the cable support system. A very small component can therefore still flow along the cables laid within the cable support system. This component is determined by the transfer impedance of the cable support system. The following applies for the transfer impedance:  $Z_T = V_{\text{Interference}} / (I_{\text{Interference}} \times L)$  [mΩ/m]

The values given are based on measurements, in which a pulse current of the wave shape 8/20 was passed through a defined length of a cable support system.

## Experiment result:

The effect of the cable support against galvanic coupling was clearly proved by the experiments! The best result was achieved with cable support systems (cable trays) with covers.

## Transfer impedance 8/20 mΩ/m

Type, cable tray / cable ladder	Without cover	With cover
MKS 630 FS	1.14	0.71
MKS 630 FT	1.14	0.71
MKSU 630 FS	0.44	0.09
MKSU 630 FT	0.44	0.09
GRM 55/300 FS	6.17	5.5



## Contact corrosion



**Contact corrosion between two different metals poses a considerable risk to the load capacity and lifespan of cable support systems.**

### Height of the potential difference

The level of contact corrosion is primarily determined by the level of the potential difference between the contact partners. Contact corrosion occurs at potential differences of 100 mV or greater and the anodic (electrically negative) partner is at risk of corrosion. Therefore, strongly non-precious metals should never be brought into contact with precious metals.

### Addition contact corrosion criteria

- Level of electrical resistance between the contact partners. The higher the resistance, the lower the contact corrosion. Positive on Al and Ti.
- Occurrence of an electrolyte. An electrolyte, such as perspiration or condensate attacks the protective layers, increasing conductivity. Dirt increases this effect through released ions.
- Length of the impact of the electrolyte. The longer the electrolyte is at work, the greater the corrosion will be.
- Surface ratio of the contact partners. These influence the flow density. The best thing to have is a small surface ratio of the "precious" to the "less precious" contact partner.

### Potential difference

Standard potential		Practical voltage series, water pH 6		Practical voltage series, artificial sea water pH 7.5	
<b>Metal</b>	mV	Metal	mV	Metal	mV
<b>Copper</b>	+340	Titanium	136	Nickel	1
<b>Lead</b>	-126	Brass MS 63	100	Brass MS 63	32
<b>Tin</b>	-140	Copper	94	Copper	-35
<b>Nickel</b>	-230	Nickel	73	RF steel 1.4301	-90
<b>Iron</b>	-440	RF steel	-129	Titanium	-156
<b>Zinc</b>	-763	Aluminium	-214	Lead	-304
<b>Titanium</b>	-1630	Hard chromium	-294	Hard chromium	-336
<b>Aluminium</b>	-1660	Tin 98	-320	Steel	-380
<b>Magnesium</b>	-2370	Lead 99.9	-328	Aluminium	-712
<b>Steel</b>	-395				
<b>Zinc</b>	-852				





## Contact corrosion



### Land climate

Material component (large)		Material construction element (small)					
<b>OBO designation</b>	Composite material Coating	FT	VA	AL	CU	MS	Zamak
<b>Steel, galvanised (FT, FS, DD, G)</b>	DD11/Zn, S234(St37)/Zn, ST4-2/Zn, St500-2/Zn, StW22/Zn, DX51D/Zn	0	0	0	2	1	0
<b>Stainless steel V2A, V4A, V5A</b>	1.4301, 1.4310, 1.4401, 1.4404, 1.4571, 1.4529	0	0	1	1	1	0
<b>Aluminium Al</b>	AlMg3, AlMgSi0.5	0	0	0	2	1	0
<b>Copper Cu</b>	E-Cu S7, F24, Se-Cu(2.0070), SF-Cu F24, St50-2	1	1	1	0	1	2
<b>Brass Ms1</b>	CuZn39Pb3, CuZn40Pb2	0	1	1	1	0	2
<b>Brass MS2</b>	CuZn37	0	2	1	1	0	2
<b>Die-cast zinc Zamak ZnAlCu1</b>	Z410(GD-ZnAl4Cu1)	1	1	0	3	1	0

#### Legend

0 No risk for contact corrosion

1 Low risk

2 Risk in case of small area ration (area of non-precious metal / area of precious metal)

3 High risk



## Contact corrosion



### Industrial atmosphere

Material component (large)		Material construction element (small)						
<b>OBO designation</b>	Composite material Coating	FT	VA	AL	CU	MS	Zamak	
<b>Steel, galvanised (FT, FS, DD, G)</b>	DD11/Zn, S234(St37)/Zn, ST4-2/Zn, St500-2/Zn, StW22/Zn, DX51D/Zn	0	0	1	3	2	0	
<b>Stainless steel V2A, V4A, V5A</b>	1.4301, 1.4310, 1.4401, 1.4404, 1.4571, 1.4529	0	0	1	1	1	0	
<b>Aluminium Al</b>	AlMg3, AlMgSi0.5	1	1	0	2	2	0	
<b>Copper Cu</b>	E-Cu S7, F24, Se-Cu(2.0070), SF-Cu F24, St50-2	2	2	3	0	1	2	
<b>Brass Ms1</b>	CuZn39Pb3, CuZn40Pb2	1	1	2	1	0	1	
<b>Brass MS2</b>	CuZn37	1	1	3	1	0	1	
<b>Die-cast zinc Zamak ZnAlCu1</b>	Z410(GD-ZnAl4Cu1)	0	0	0	3	2	0	

**Legend**

0 No risk for contact corrosion

1 Low risk

2 Risk in case of small area ration (area of non-precious metal / area of precious metal)

3 High risk



## Contact corrosion



### Sea climate

Material component (large)		Material construction element (small)					
<b>OBO designation</b>	Composite material Coating	FT	VA	AL	CU	MS	Zamak
<b>Steel, galvanised (FT, FS, DD, G)</b>	DD11/Zn, S234(St37)/Zn, ST4-2/Zn, St500-2/Zn, StW22/Zn, DX51D/Zn	0	1	3	3	2	1
<b>Stainless steel V2A, V4A, V5A</b>	1.4301, 1.4310, 1.4401, 1.4404, 1.4571, 1.4529	1	0	3	1	1	0
<b>Aluminium Al</b>	AlMg3, AlMgSi0.5	3	1	0	2	2	0
<b>Copper Cu</b>	E-Cu S7, F24, Se-Cu(2.0070), SF-Cu F24, St50-2	2	2	3	0	1	2
<b>Brass Ms1</b>	CuZn39Pb3, CuZn40Pb2	1	1	3	1	0	1
<b>Brass MS2</b>	CuZn37	1	1	3	1	0	1
<b>Die-cast zinc Zamak ZnAlCu1</b>	Z410(GD-ZnAl4Cu1)	0	0	0	3	2	2

#### Legend

0 No risk for contact corrosion

1 Low risk

2 Risk in case of small area ration (area of non-precious metal / area of precious metal)

3 High risk



## Surface testing and corrosion categories



### Surface testing/salt spray mist test

All the system components must show sufficient resistance against corrosion in agreement with the KTS standard, DIN EN 61537. The minimum zinc layer thicknesses are determined through a measurement. The grouping into the appropriate class is located at the right of the table. The top of the table shows the area of application and the zinc loss to be expected according to DIN EN ISO 12944.





## Surface testing and corrosion categories

### Corrosion categories to DIN EN ISO 12944

Corrosion category	Typical environment, inside	Typical environment, outside	Corrosion load	Average zinc loss
C 1	Heating buildings with neutral atmospheres, e.g. offices, shops, schools, hotels	-	Insignificant	<0.1 µm/a
C 2	Unheated buildings in which condensation can occur, e.g. warehouse, sports' halls	Atmosphere with low level of impurities. Often rural areas.	Low	0.1 to 0.7 µm/a
C 3	Production facilities with a high level of humidity and some air impurities, e.g. plants for food production, laundries, breweries, dairies	City and industrial atmosphere, considerable impurities through sulphur dioxide, coastal areas with low salt load	Medium	0.7 to 2.1 µm/a
C 4	Chemical plants, swimming pools, boatsheds over seawater	Industrial areas and coastal areas with low salt load	Strong	2.1 to 4.2 µm/a
C 5-I	Buildings or areas with almost constant condensation and with high levels of impurities.	Industrial areas with high levels of humidity and aggressive atmosphere.	Very strong (industry)	4.2 to 8.4 µm/a
C 5-M	Buildings or areas with almost continuous condensation and with high levels of impurities.	Coastal or offshore areas with salt load.	Very strong (sea)	> 4.2 to 8.4 µm/a

### Classification of corrosion resistance (from the draft of DIN EN 61537)

Class	Reference material and surface treatment
0*	None
1	Electroplated to a minimum thickness of 5 µm
2	Electroplated to a minimum thickness of 12 µm
3	Pre-galvanised to 275 degrees according to EN 10327 and EN 10326
4	Pre-galvanised to 350 degrees according to EN 10327 and EN 10326
5	Galvanised to a zinc coating thickness of (minimum) 45 µm according to ISO 1461
6	Galvanised to a zinc coating thickness of (minimum) 55 µm according to ISO 1461
7	Galvanised to a zinc coating thickness of (minimum) 70 µm according to ISO 1461
8	Galvanised to a zinc coating thickness of (minimum) 85 µm according to ISO 1461 (usually high-alloy silicon steel)
9A	Rustproof steel, manufactured according to ASTM: A 240/A 240M - 95 a designation S30403 or EN 10088 degree 1-4301 without finishing **
9B	Rustproof steel, manufactured according to ASTM: A 240/A 240M - 95 a designation S31603 or EN 10088 degree 1-4301 without finishing
9C	Rustproof steel, manufactured according to ASTM: A 240/A 240M - 95 a designation S30403 or EN 10088 degree 1-4301 with finishing **
9D	Rustproof steel, manufactured according to ASTM: A 240/A 240M - 95 a designation S31603 or EN 10088 degree 1-4404 with finishing **

\* For materials which do not have a declared corrosion resistance classification

\*\* The end treatment process is used to improve the protection against crack corrosion and the contamination of other steels



## Surfaces for use in internal areas



Whether indoors or outdoors, in aggressive atmospheres or under special hygienic conditions: OBO can offer the perfect surface and materials for your cable support system, no matter what the requirements may be. OBO cable support systems are machined from high-quality sheet steel or steel wire and are available with various surfaces. Different hardening and coating methods ensure tailor-made corrosion protection, specially tailored to the appropriate application. In addition, OBO cable support systems are available in stainless steel and with coloured coatings.

### Indoor use

For applications in indoor areas, OBO can offer cable support systems with galvanisation or strip galvanisation. They are particularly suited to dry atmospheres without any impact from aggressive pollutants.

### Electro-galvanisation

- Electrolytic galvanisation in accordance with DIN EN 12329
- Average coating thickness approx. 2.5–10 µm
- According to RoHS guideline

Components: Mesh cable trays and small parts such as bolts, washers and nuts

### Strip galvanisation

- Hot-dip galvanised according to the strip-galvanising method in accordance with DIN EN 10346 (formerly DIN EN 10327)
- Average coating thickness approx. 20 µm
- Joints in the metal are protected by cathodic corrosion protection up to a thickness of 2.0 mm

Components: Metal products such as cable trays, fittings and separating retainers.





## Surfaces for use in external areas



### Outdoor use

OBO can offer versions with hot dip galvanisation and double-dip galvanisation for outdoor and wet room use.

### Hot-dip galvanisation

- Hot galvanisation using the dipping method according to DIN EN ISO 1461
- Coating thickness to DIN EN ISO 1461 approx. 40–60 µm
- Any interfaces added at a later date must also be galvanised to protect against corrosion

Components: Sheet steel products such as cable trays and welded components such as supports and brackets

### Double-dip galvanisation

- Hot dipping with zinc-aluminum coating in accordance with DIN EN 10346
- Average coating thickness approx. 23 µm
- Joints in the metal are protected by cathodic corrosion protection up to a thickness of 2.0 mm

Components: Metal products such as covers, separating retainers and punched parts.



## Surfaces for use in tunnels, food or chemical industries



### Applications: Tunnel construction, food or chemical industries

There are also OBO stainless steel systems for special hygiene and quality requirements for special visual criteria for open wiring.

### SS304 stainless steel

- OBO Code: V2A
- European material number: 1.4301
- American material designation: 304
- Welded components are additionally passivated
- Unwelded components are rinsed and degreased

Components: V2A selection programme with the title "V2A stainless steel systems"

### SS316 stainless steel

- OBO Code: V4A
- European material number: 1.4571
- American material designation: 316 / 316 Ti
- Welded components are additionally passivated
- Unwelded components are rinsed and degreased

Components: V4A selection programme with the title "V4A stainless steel systems"



## Surfaces for special visual requirements or special environmental loads



### Applications with specific optical requirements or special environmental conditions

Colour-coated cable support systems are becoming ever more popular. The coating may be required for optical reasons or for reasons of corrosion protection:

### Colour coatings for reasons of corrosion protection

- Cable support system in FT (hot-dip galvanised version)
- All RAL colours available
- Coating of the visible surfaces and/or the complete system
- Suitable for the colour of the structure when routed openly
- Separation of different voltages/functions (e.g. blue 230/400 V power supply; red weak current such as telephone line and IT)



Colour-coated systems are not indicated specially in this catalogue. You can obtain details for these systems by contacting our telephone hotline on +49 (0)2373 89-1500.





## Which cabling method is used?



Not all cables are the same. To select the perfect cable support system, you need to know which type of cables are to be laid: Are they sensitive data cables, which must be laid at a certain distance from each other on account of the necessary shielding? Or power cables, for which a not inconsiderable heat build-up must be allowed for? For all these applications OBO can offer tailor-made system solutions.



### Universal cable trays

Areas of application: From low voltage cabling to power supply.



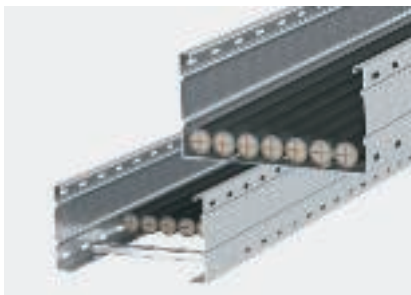
### Mesh cable trays for the installation of light cables

Areas of application: IT cabling, telephone cabling and control cables. Also suitable for use in false ceilings and cavity floors.



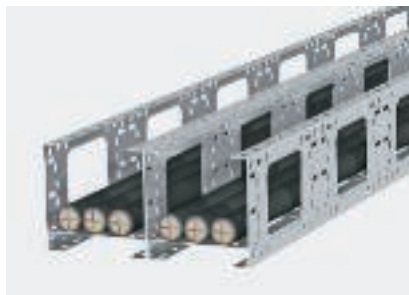
### Cable ladders for power cables with a large cross-section

Areas of application: Cables and power conductors with large cross-sections. These can be fastened to the rungs using clamp clips. The high load capacity and good ventilation ensure perfect cable laying.



### Wide span cable trays and ladders for large support distances

Areas of application: For installations in which the support distances are more than three metres, on account of the construction conditions.



### Modular system for special tasks

The product range that knows no bounds. The range of individually combinable products is particularly suited to complex installation tasks.

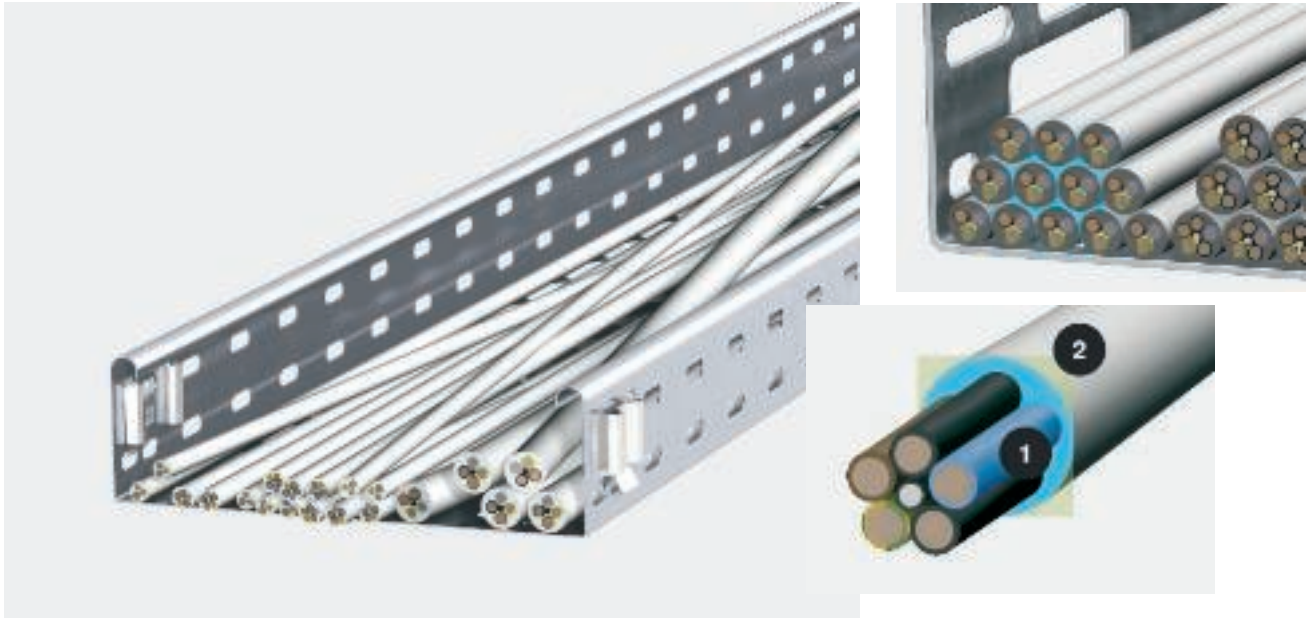


### AZ small duct for universal use

Areas of application: for luminaire support systems through to low-voltage cabling and power supply.



## How can I work out the volume of cables?



The usable cross-section of the cable simulates the cavity in real laying.

Cable diameter (1) and space required (2)

An important criterion for the selection of the correct cable support system is the cable volume, for which there must be sufficient space in the cable tray. As the cables are never packed tightly together or are absolutely parallel, it is not enough to base the volume calculation solely on the cable diameter. A realistic calculation is provided by the formula  $(2r)^2$ . To save you work, we have listed the diameter and usable cross-section of the most important cable types below.

Important: These values are average values, which may vary from manufacturer to manufacturer. Please refer to the manufacturer's specifications for the exact values.

### Calculation with the formula $(2r)^2$

The diameter says little about the actual space required by a cable. Calculate:  $(2r)^2$ . This value reflects the realistic space requirements, including the compartments.





## How can I work out the volume of cables?



### Insulated power cables

Type	Diameter mm	Usable cross-section cm <sup>2</sup>
1 x 4	6.5	0.42
1 x 6	7	0.49
1 x 10	8	0.64
1 x 16	9.5	0.9
1 x 25	12.5	1.56
3 x 1.5	8.5	0.72
3 x 2.5	9.5	0.9
3 x 4	11	1.21
4 x 1.5	9	0.81
4 x 2.5	10.5	1.1
4 x 4	12.5	1.56
4 x 6	13.5	1.82
4 x 10	16.5	2.72
4 x 16	19	3.61
4 x 25	23.5	5.52
4 x 35	26	6.76
5 x 1.5	9.5	0.9
5 x 2.5	11	1.21
5 x 4	13.5	1.82
5 x 6	14.5	2.1
5 x 10	18	3.24
5 x 16	21.5	4.62
5 x 25	26	6.76
7 x 1.5	10.5	1.1
7 x 2.5	13	1.69



### Insulated power cables

Type	Diameter mm	Usable cross-section cm <sup>2</sup>
1 x 10	10.5	1.1
1 x 16	11.5	1.32
1 x 25	12.5	1.56
1 x 35	13.5	1.82
1 x 50	15.5	2.4
1 x 70	16.5	2.72
1 x 95	18.5	3.42
1 x 120	20.5	4.2
1 x 150	22.5	5.06
1 x 185	25	6.25
1 x 240	28	7.84
1 x 300	30	9
3 x 1.5	11.5	1.32
3 x 2.5	12.5	1.56
3 x 10	17.5	3.06
3 x 16	19.5	3.8
3 x 50	26	6.76
3 x 70	30	9
3 x 120	36	12.96
4 x 1.5	12.5	1.56
4 x 2.5	13.5	1.82
4 x 6	16.5	2.72
4 x 10	18.5	3.42
4 x 16	21.5	4.62
4 x 25	25.5	6.5
4 x 35	28	7.84
4 x 50	30	9
4 x 70	34	11.56
4 x 95	39	15.21
4 x 120	42	17.64
4 x 150	47	22
4 x 185	52	27
4 x 240	58	33.6
5 x 1.5	13.5	1.82
5 x 2.5	14.5	2.1
5 x 6	18.5	3.42
5 x 10	20.5	4.2
5 x 16	22.5	5.06
5 x 25	27.5	7.56
5 x 35	34	11.56
5 x 50	40	16



### Telecommunications cables

Type	Diameter mm	Usable cross-section cm <sup>2</sup>
2 x 2 x 0.6	5	0.25
4 x 2 x 0.6	5.5	0.3
6 x 2 x 0.6	6.5	0.42
10 x 2 x 0.6	7.5	0.56
20 x 2 x 0.6	9	0.81
40 x 2 x 0.6	11	1.12
60 x 2 x 0.6	13	1.69
100 x 2 x 0.6	17	2.89
200 x 2 x 0.6	23	5.29
2 x 2 x 0.8	6	0.36
4 x 2 x 0.8	7	0.49
6 x 2 x 0.8	8.5	0.72
10 x 2 x 0.8	9.5	0.9
20 x 2 x 0.8	13	1.69
40 x 2 x 0.8	16.5	2.72
60 x 2 x 0.8	20	4
100 x 2 x 0.8	25.5	6.5
200 x 2 x 0.8	32	10.24



### IT cables Type Cat...

Type	Diameter mm	Usable cross-section cm <sup>2</sup>
Cat. 5	8	0.64
Cat. 6	8	0.64



### Coax cable (Standard)

Type	Diameter mm	Usable cross-section cm <sup>2</sup>
SAT/BK cable	6.8	0.48



## How can I find a system of the appropriate volume?



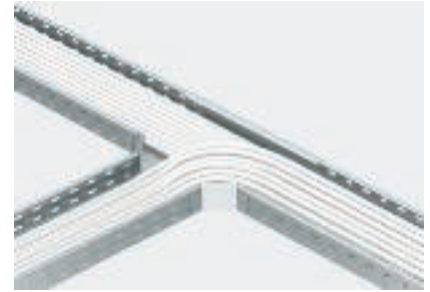
### Cable height

The cable height may not exceed the edge height of the cable tray.



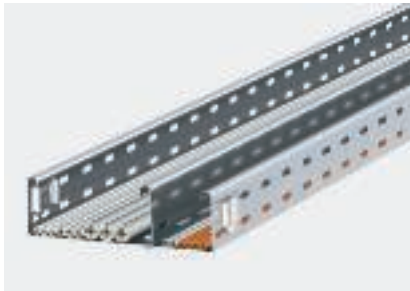
### Volume reserve

When selecting the system, a volume reserve of at least 30% should be planned for possible later installations.



### Branches

When dimensioning branches, the bending radii of the cables must be taken into account.



### Separation of system levels

When selecting the volume, pay attention to the different conductors. To separate different voltage levels, you must take the required spacings into account.



### Same usable cross-section, different requirements

The following table will help you to choose a cable support system of the right volume. It underlines the interplay of tray or ladder width, slant height and usable cross-section. The difference when laying the same volume of data and power cables should be taken into account: while it is possible to select a narrow, high tray for data cables, a wide, flat tray is necessary for power cables.



### Examples

Flat, wide variant:

- e.g. for power cables
- Cable tray width: 300 mm
- Side rail height: 35 mm
- Usable cross-section: 103 cm<sup>2</sup>

Narrow, high variant:

- e.g. for data cables
- Cable tray width: 100 mm
- Side height: 110 mm
- Usable cross-section: 108 cm<sup>2</sup>



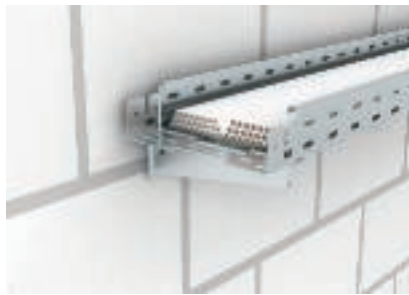
## Reference laying types



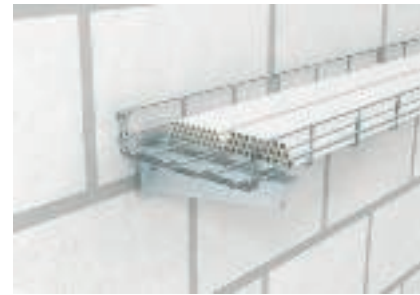
When selecting the correct system, also observe the current DIN/VDE standards (0298 T1 to T4). They provide information on the heating of conductors, depending on the amassment and the ambient temperature.



**Reference laying type: C**  
Cable on unperforated cable tray, e.g. type MKSMU



**Reference laying type: E or F**  
Cable on perforated cable tray, horizontal/vertical, e.g. type RKSM/MKSM



**Reference laying type: E, F or G**  
Cable or installation cable on mesh cable trays, e. g. type GR-Magic



## How do I calculate the cable weight?



100 mm = 15 kg/m.



200 mm = 30 kg/m



300 mm = 45 kg/m



400 mm = 60 kg/m



500 mm = 75 kg/m



600 mm = 90 kg/m

Of equal significance for the selection of the cable support system most suited to the application is the load capacity of the system. This must be matched with the expected cable weight (including the reserve for later installation). There are three variants for determining the cable weight:

### Variant 1: Orientation to experience values

The average load capacity of a cable tray can be calculated roughly using experience values. For a system with a strut height of 60 mm, a value of 15 kg per 100 mm width is valid for each metre of cable tray or cable ladder. However, more accurate than orientation to experience values is to calculate the cable load using the formula from DIN VDE 0639 Part 1 (Variant 2) or the manufacturer's specifications (Variant 3).

The graphics show the load capacities, based on experience values, of cable trays with a rail height of 60 mm, relative to cable tray widths of 100 to 600 mm.

### Variant 2: Calculation formula according to VDE 0639 T1

To calculate a maximum approved cable load, DIN VDE 0639 Part 1 (cable support systems) can offer a formula.

In the example calculation, the maximum approved cable load for a cable tray is worked out using the dimension 60 mm x 300 mm and a usable cross-section of 178 cm<sup>2</sup>.

### Variant 3: Exact calculation according to manufacturer's specifications

Most cable manufacturers offer a very accurate method of calculating cable weights, and appropriate lists or tables can be obtained from them. Important: The tables only provide a rough overview. They are average values, which may vary from manufacturer to manufacturer. Please refer to the manufacturer's specifications for the exact values.

	<b>0.028 N</b>	
<b>Cable load (F) =</b>	_____	<b>x Usable cross-section</b>
	m x mm <sup>2</sup>	

	<b>0.028 N</b>	
<b>1. Cable load (F) =</b>	_____	<b>x 17,800 mm<sup>2</sup> = 500 N/m</b>
	m x mm <sup>2</sup>	

<b>2. Conversion from Newtons (N) to kilogrammes (kg)</b>
<b>10 N ~ 1 kg – in our example, this means: 500 N/m = 50 kg/m</b>

<b>3. Maximum occurring load = 50 kg/m</b>
--



## Actual cable weights of different cable types



### Insulated power cables

Type	Cable load kg/m
1 x 4	0.08
1 x 6	0.105
1 x 10	0.155
1 x 16	0.23
1 x 25	0.33
3 x 1.5	0.135
3 x 2.5	0.19
3 x 4	0.265
4 x 1.5	0.16
4 x 2.5	0.23
4 x 4	0.33
4 x 6	0.46
4 x 10	0.69
4 x 16	1.09
4 x 25	1.64
4 x 35	2.09
5 x 1.5	0.19
5 x 2.5	0.27
5 x 4	0.41
5 x 6	0.54
5 x 10	0.85
5 x 16	1.35
5 x 25	1.99
7 x 1.5	0.235
7 x 2.5	0.35



### Insulated power cables

Type	Cable load kg/m
1 x 10	0.18
1 x 16	0.24
1 x 25	0.35
1 x 35	0.46
1 x 50	0.6
1 x 70	0.8
1 x 95	1.1
1 x 120	1.35
1 x 150	1.65
1 x 185	2
1 x 240	2.6
1 x 300	3.2
3 x 1.5	0.19
3 x 2.5	0.24
3 x 10	0.58
3 x 16	0.81
3 x 50	1.8
3 x 70	2.4
3 x 120	4
4 x 1.5	0.22
4 x 2.5	0.29
4 x 6	0.4
4 x 16	1.05
4 x 25	1.6
4 x 35	1.75
4 x 50	2.3
4 x 70	3.1
4 x 95	4.2
4 x 120	5.2
4 x 150	6.4
4 x 185	8.05
4 x 240	11
5 x 1.5	0.27
5 x 2.5	0.35
5 x 6	0.61
5 x 10	0.88
5 x 16	1.25
5 x 25	1.95
5 x 35	2.4
5 x 50	3.5



### Telecommunications cables

Type	Cable load kg/m
2 x 2 x 0.6	0.03
4 x 2 x 0.6	0.035
6 x 2 x 0.6	0.05
10 x 2 x 0.6	0.065
20 x 2 x 0.6	0.11
40 x 2 x 0.6	0.2
60 x 2 x 0.6	0.275
100 x 2 x 0.6	0.445
200 x 2 x 0.6	0.87
2 x 2 x 0.8	0.04
4 x 2 x 0.8	0.055
6 x 2 x 0.8	0.08
10 x 2 x 0.8	0.115
20 x 2 x 0.8	0.205
40 x 2 x 0.8	0.38
60 x 2 x 0.8	0.54
100 x 2 x 0.8	0.875
200 x 2 x 0.8	1.79



### IT cables Type Cat...

Type	Cable load kg/m
Cat. 5	0.06
Cat.6	0.06

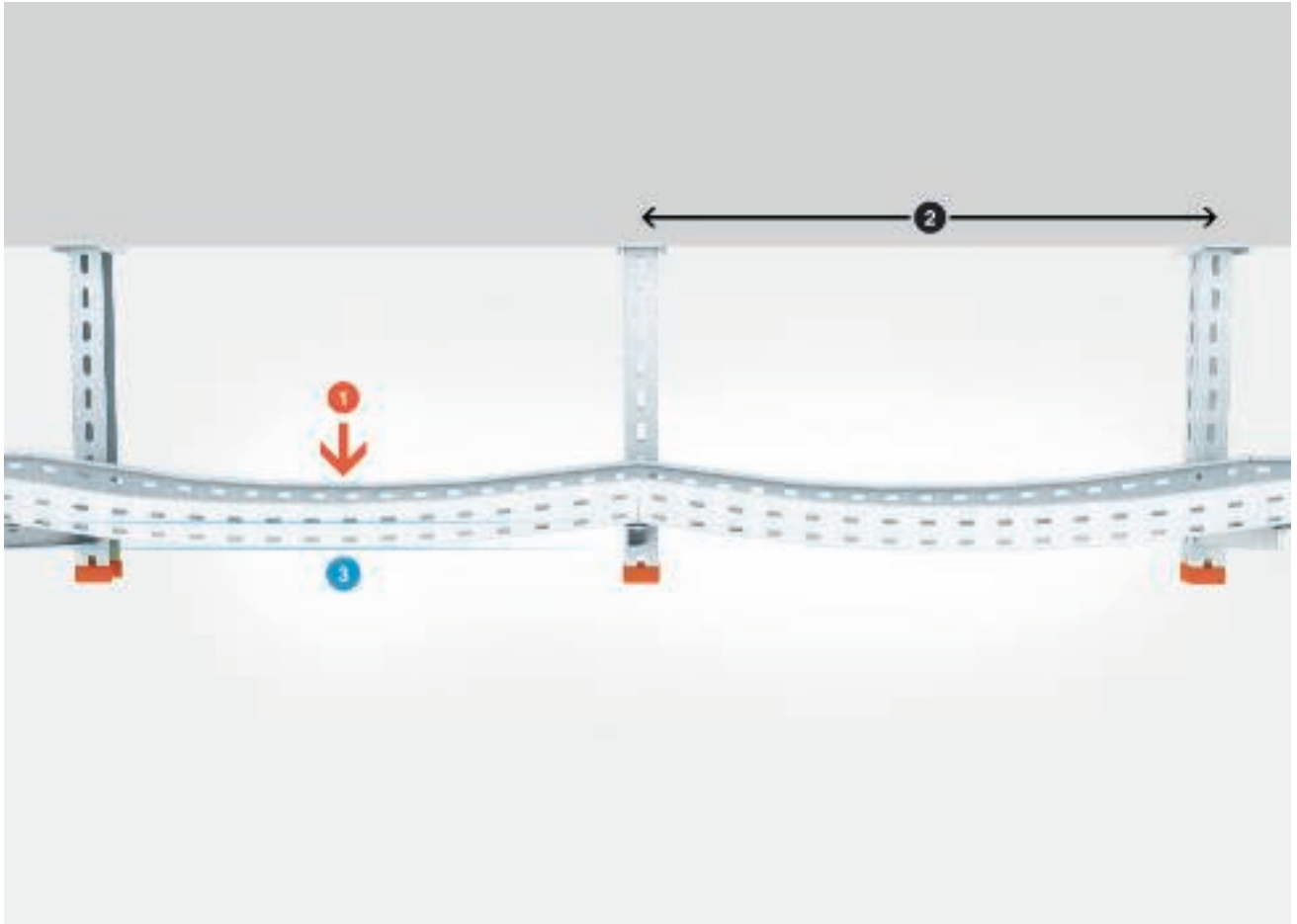


### Coax cable (Standard)

Type	Cable load kg/m
SAT/BK cable	0.06



## Which trays and ladders can support which cable load?



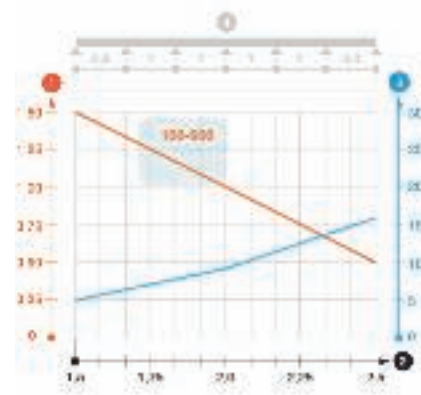
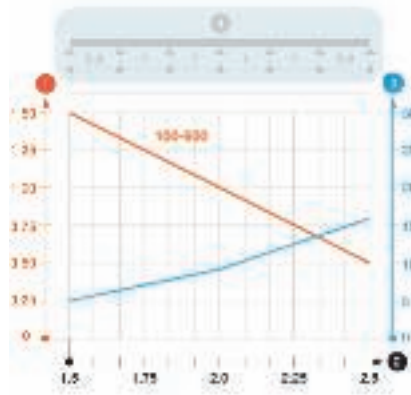
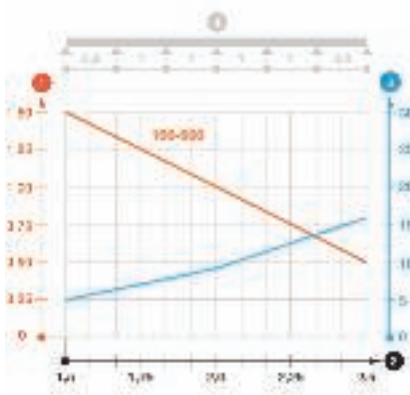
Explanation of the pictograms: 1 = load in kN without man load, 2 = support width in m, 3 = strut bend in mm

### Load tests for cable support systems

All the OBO articles and systems are subjected to practical load testing. The basic principles for the tests of OBO cable support systems are included in DIN EN 61537 and DIN VDE 0639. After the load test, the maximum load capacity can be determined for each component, depending on the support distances and specific article parameters, such as component dimensions. This is shown in a diagram, included with each component.

You can find additional information on the load tests for cable trays, brackets and suspended supports in this catalogue. The values given do not take resistance against environmental forces such as snow, wind and other outside influences into account.





### Load diagram, legend

- 1 = Load in kN/m without man load
- 2 = Support width in m
- 3 = Strut bending in mm
- 4 = Schematic diagram of the support widths for testing method
- = Approved load for the different tray widths depending on the support spacing
- = Rail bend according to the support width

### Information 1: The testing process

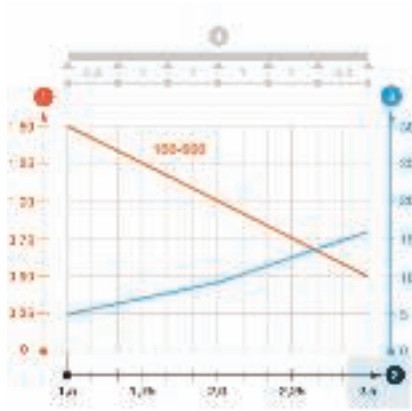
The basic principles of the tests of OBO cable support systems is VDE 0639 Part 1 and DIN EN 61537. The purpose of the tests is to determine the maximum load capacities for each component, depending on parameters such as component width, support spacing, etc. and to present this in a diagram to be included with each component. The area highlighted in blue in the above example schematises the experiment setup with a variable support spacing ( $L$ ) in the central area and a factor of  $0.8 \times L$  at the front and rear ends of the cable tray.

### Information 2: Load curves for selected cable tray or cable ladder widths

The load capacity of the cable trays according to the support width can be read off in the diagram using the load curves – this is an example for a cable tray for the tray widths 100 to 600 mm. It may occur that, in the load curves, width differences must be made, allowing multiple curves to be visible simultaneously in the diagram. A key factor for the load capacity of the cable trays is, beside the support spacing and side height, the material thickness, which varies according to type.

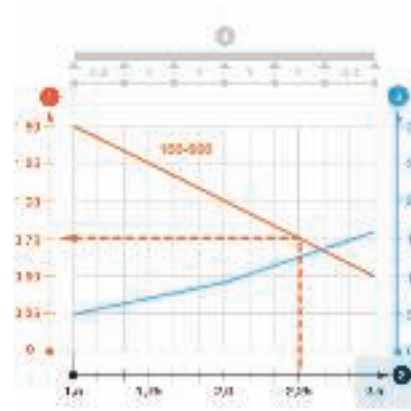


## Which trays and ladders can support which cable load?



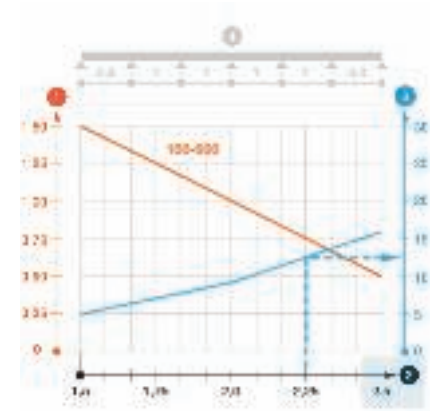
### Information 3: Possible support spacings

The theoretically possible spans for the cable tray can be read off on the axis at the foot of the table. Using the load curves, it is easy to read off to what extent the load capacity of the system falls as the support spacing grows. On all OBO cable support systems (with the exception of the wide span trays), we recommend not exceeding a support spacing of 1.5 m, if possible.



### Information 4: Ratio: load/span

Which load is possible at which support spacing? With the diagram, you can find the appropriate information at a glance. In our example (with the blue background) a span of 2.25 m for the tray produces a maximum load capacity of 0.75 kN for each running metre of cable tray. Please note that, in this example, the volume of the cable tray may exceed the permitted load. Therefore, if at all possible, do not exceed the support spacing of 1.5 m, as recommended by OBO.



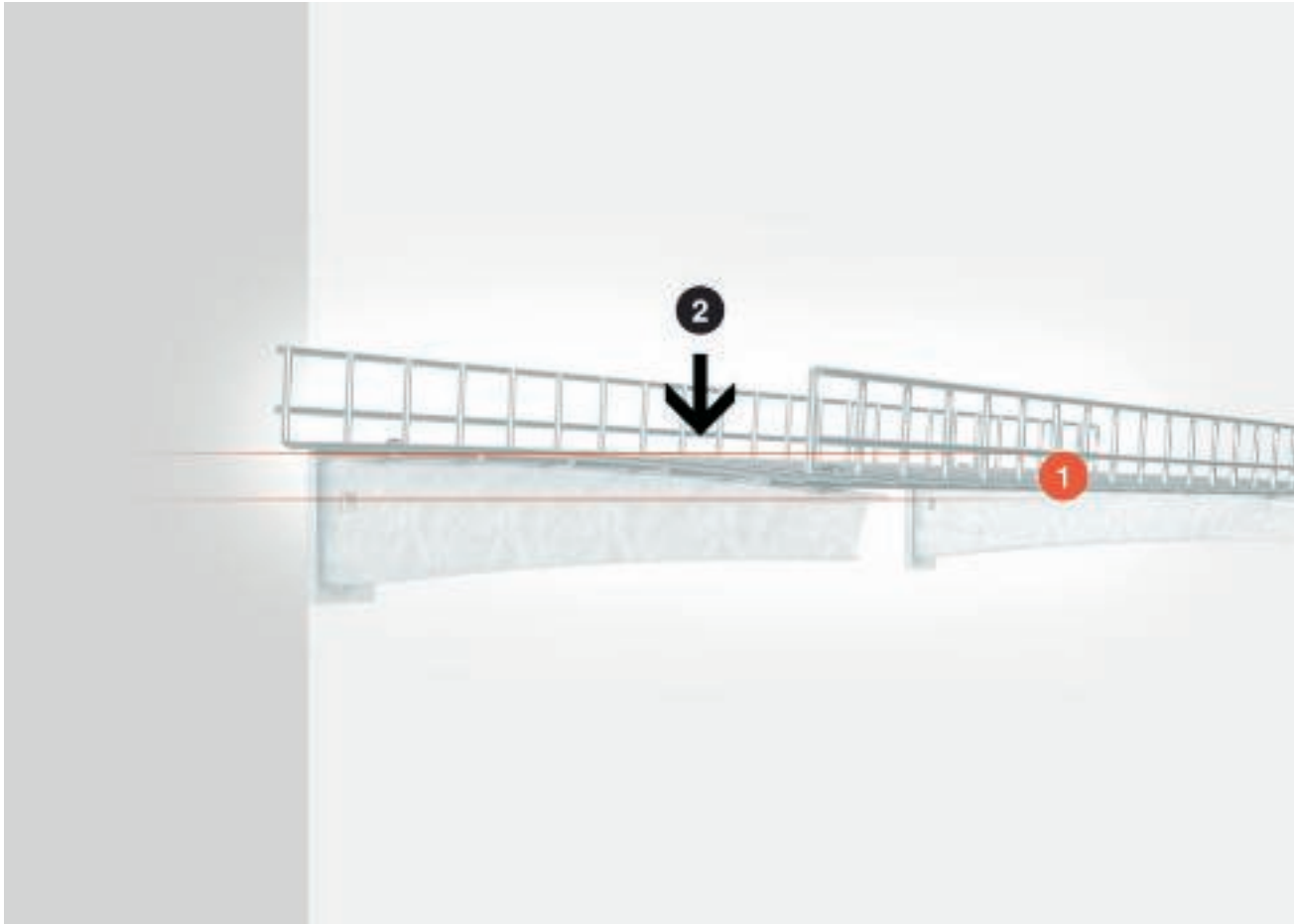
### Information 5: $W =$ Strut sag

To what extent does the load on a cable tray cause the strut to bend? This information is supplied by the blue curve ( $w$ ) in millimetres (orientation values on the axis on the right-hand side of the diagram).

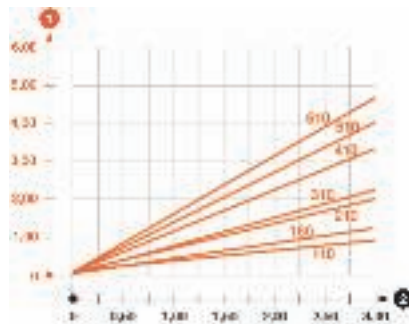
The course of the blue curve clearly shows how quickly the cable tray will sag as the support spacing increases. In our example, the bend at a support spacing of 2.25 m is shown, here approximately 12 mm.



## Which bracket can support which cable load?



Key components of the OBO cable support systems are the installation components, in particular the brackets and suspended supports. They connect the cable trays and ladders to the wall and to the ceiling, and are thus an important construction element of the overall system. When calculating the load capacity of a cable support system, the brackets and suspended supports must not be forgotten. The test diagram is also useful in selecting the right products.

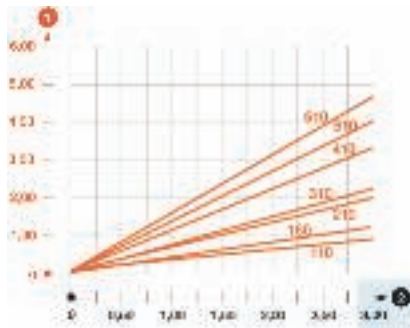


### Load diagram, legend

- 1 = Bend in mm at the bracket tip
- 2 = Load in kN/m without man load
- = Load curves for the various bracket lengths

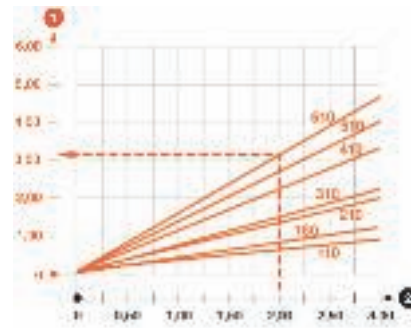


## Which bracket can support which cable load?



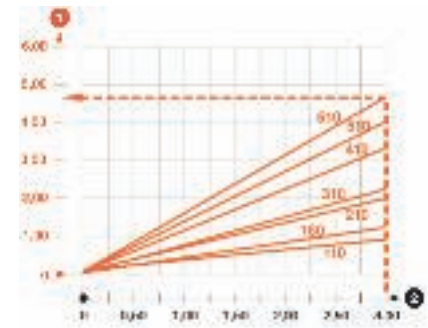
### Information 1: Recommended maximum load of the brackets

The bracket is the part of the installation system upon which the cable tray or mesh cable tray is located. It is either directly connected to the wall or is connected to the ceiling using supports. The grey bar on the right edge of the diagram provides information on the maximum load capacity of the bracket.



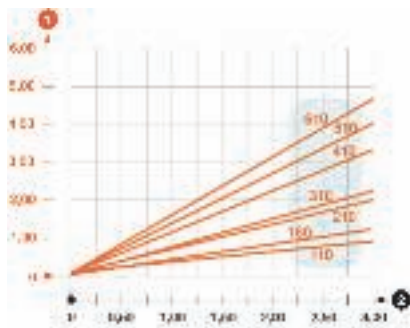
### Information 3: Bending of the bracket tip at a specific load

The load curve in the diagram provides information on the bending of the boom tip at a specific load. In our example (dotted orange line), a 610 mm wide bracket with a load of 2 kN bends by approx. 3.1 mm. A basic rule of thumb is: The shorter the bracket, the less the bend will be.



### Information 4: Bending of the bracket tip at maximum load

The bending factor of the bracket at maximum load can also be seen in the diagram. In our example (shown in orange), the bend value for a 610 mm wide bracket at a maximum load of approx. 3.0 kN is approximately 4.5 mm. To minimise the bend, the centre of gravity of the cable load should be as close as possible to the wall or the support fastening.



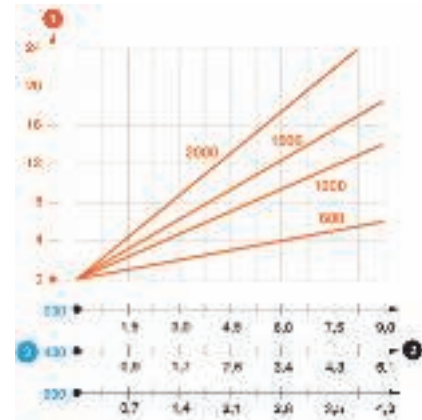
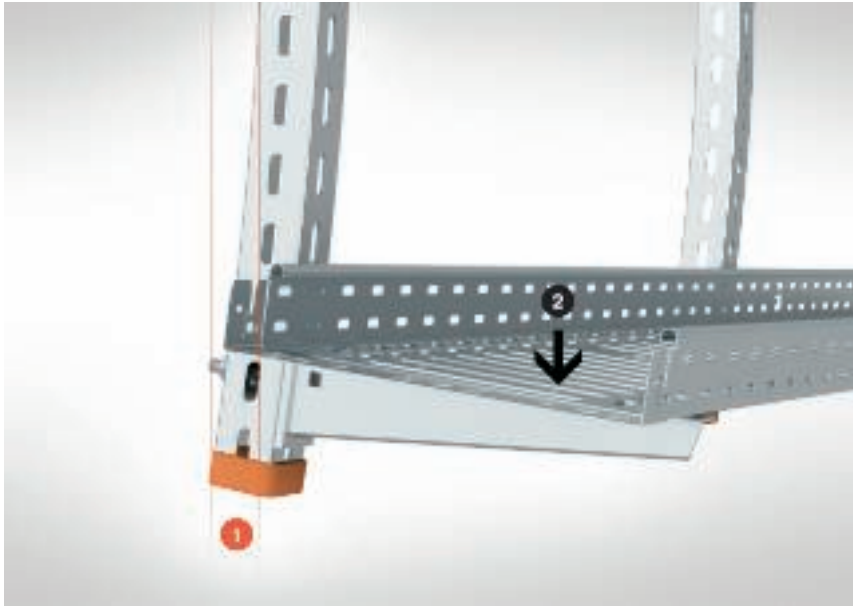
### Information 2: Load curves for all bracket widths

The bending of the bracket is dependent on its width, which, in our example, can range from 110 mm to 610 mm. The load curves are assigned to the appropriate bracket type.



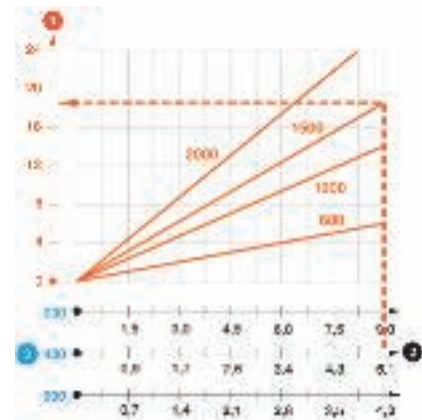
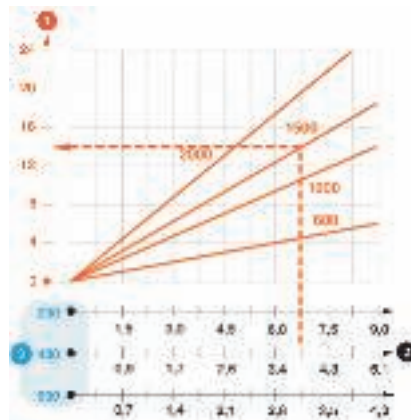
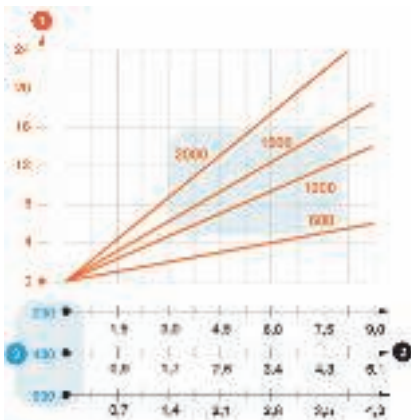


## Which support can support which cable load?



### Load diagram, legend

- 1 = Bend in mm at the bracket tip
- 2 = Load in kN/m without man load
- = Load curves for the various bracket lengths



### Information 1: Various support lengths and bracket widths

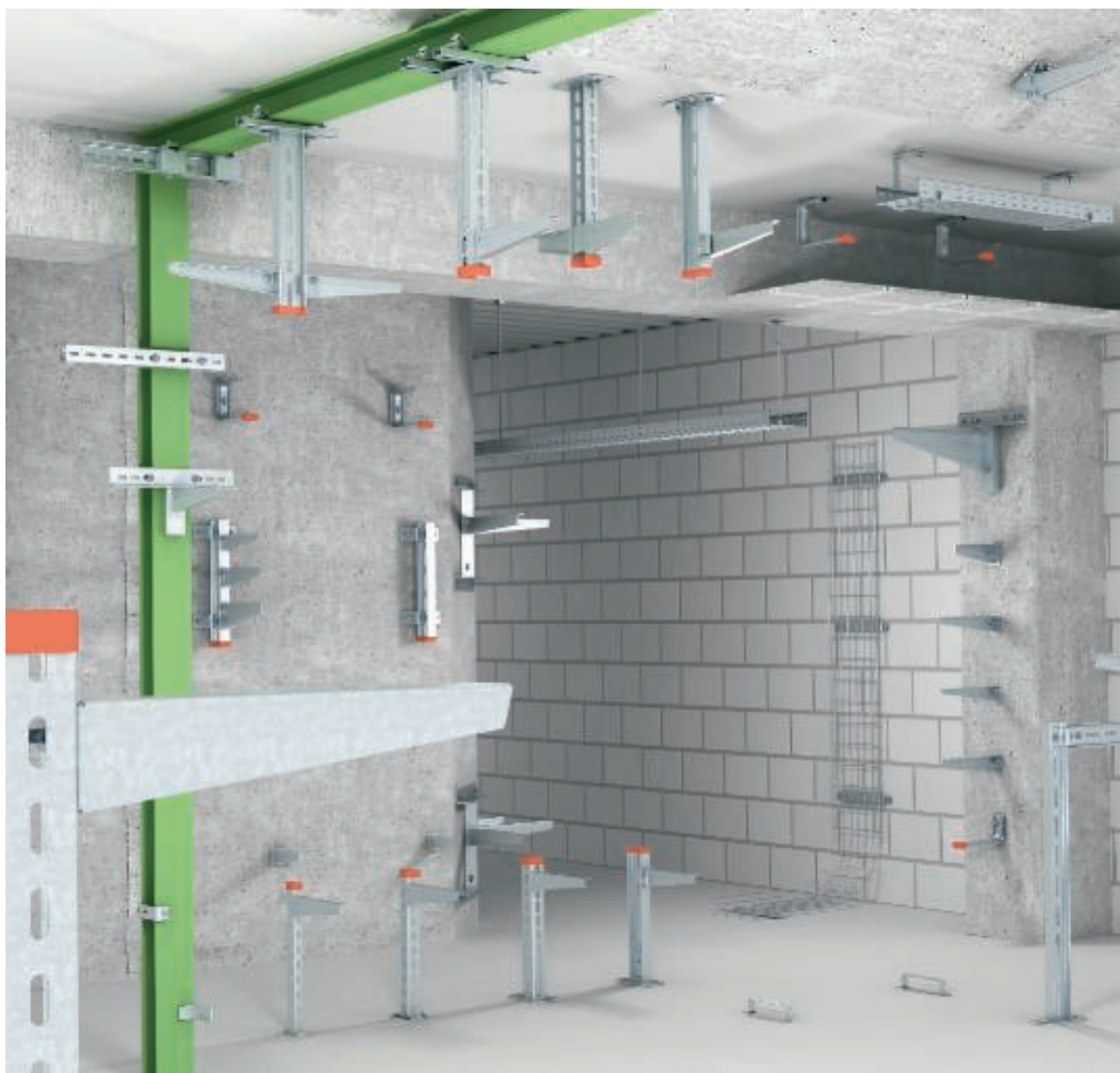
The load capacity of a cable support system is not just dependent on the width of a bracket, but also on the length of a suspended support. The load curves in the diagram provide information on the load capacity of a suspended support of length 600, 1,000, 1,500 or 2,000 mm, taking the bracket width into account.

### Information 2: Calculation of the deflection for the example

The weight of the total suspended support/bracket/cable tray system causes an excursion of the suspended support from the vertical. The excursion value can be read off from the axis on the left edge of the diagram. In our example (blue background), a 1,500 mm long suspended support, together with a 400 mm wide bracket and a weight load of 4 kN at the end of the support will produce an excursion of approximately 14 mm.

### Information 3: Calculation of the excursion at maximum load for the example

The excursion of the suspended support at a maximum load can also be read off on the diagram. Our blue example shows an excursion of roughly 18 mm at the end of the support for a 1,500 mm long suspended support, in combination with a 400 mm wide bracket at a maximum cable load of approximately 5 kN.



## Planning aids, mounting systems



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## Installation principle, universal systems

### System components

1	Ceiling bracket
2	Trapezoidal fastening
3	Threaded rod
4	Central suspension
5	Suspension clamp
6	Spacer clamp
7	Spacer clamp





## Installation principle, TP systems

### System components

1	TP suspended support
2	TP support / wall and support bracket
3	Spacer
4	Protective cap



## System description, universal systems



The universal systems are used for small loads. Whether the installation is to be a ceiling fastening, wall fastening or as a floor stand-off: in the Universal systems, you can find functional fittings with matching system accessories for any application.

These suspension systems, which can be called basic installations, include centrally loaded ceiling clamps or trapezoidal fastenings, which are used with threaded rods and centre suspensions. When using central suspensions, the load should be even on both sides of the system. If an even load cannot be guaranteed, then other systems should be used.

The TP system is a range of light supports and brackets. This product range, which consists of TP suspended supports and brackets, can be used universally as ceiling and wall mounting.

On the following pages, you can select your preferred mounting variant from the installation diagrams shown and combine the corresponding articles in the order section.

## Mounting aid, universal systems



**Application on the ceiling**  
Ceiling fastening for low loads on straight and sloping ceilings.



**Installation of centre suspension**  
Installation of the central suspension MAH 60 on the ceiling using threaded rod 2078/M10 and ceiling bracket 12050. Maximum cable tray width 300 mm.



**Universal mounting on the ceiling**  
The variable ceiling bracket, type DBV, allows threaded rod suspensions on straight and sloping ceilings.



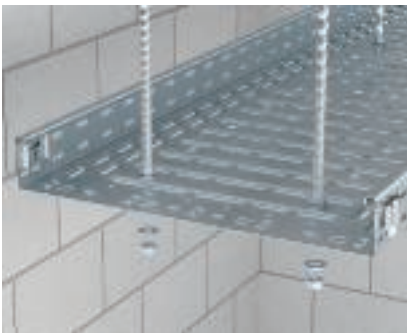
**Centre suspension with threaded rod**  
Direct centre suspension at low loads of a cable tray with threaded rod 2078/M10.



**Installation of central hanger MAH 35**  
Insertion and alignment of the central hanger, MAH 35, in the cable tray.



**Installation of central suspension MAH 60**  
Insertion and alignment of the central suspension, MAH 60, in the cable tray.



**Threaded rod suspension RKS > 400 mm**  
The threaded rod suspension of RKS cable trays > 400 mm can take place using two threaded rods.



**Cable ladder centre suspension with threaded rod**  
Installation of a cable ladder with central suspension MAHU and a threaded rod.



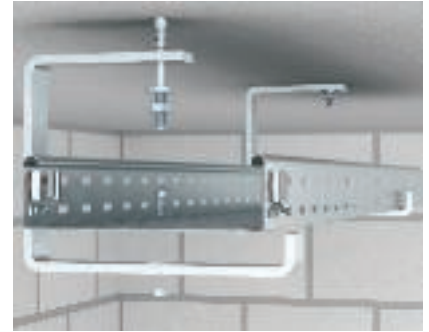
**Trapezoidal plate application**  
Simple, quick fastening of a cable support system to trapezoidal metal roofs.



**Installation of trapeze suspension**  
Installation of a cable tray on a trapezoidal ceiling using a ceiling bracket, type TPB 100 and central suspension, type MAH 60. Maximum cable tray width 300 mm. The trapezoidal fastening is mounted using the lock, type TPB R.



**Threaded rod suspension with ceiling bracket**  
Ceiling mounting of a cable tray with AHB ceiling bracket and threaded rod 2078/M10. Maximum cable tray width 400 mm.



**Direct fastening of the ceiling bracket**  
Direct mounting of the AHB ceiling bracket with anchor bolt on the ceiling. Maximum cable tray width 400 mm.



**Ceiling mounting of TP wall and ceiling bracket**  
Universal mounting of the TPD wall and ceiling bracket on the ceiling (with DS 4 spacer). Maximum tray width 300 mm.



**Installation of TP support with single-sided bracket fixing**  
Ceiling mounting of a TP support with spacer DS 4 and one-sided bracket mounting. Maximum tray width 300 mm.



**Complete mounting of a TP system**  
Installation of the TP support with head reinforcement and double-sided bracket mounting and mounting directly on the wall.



**Floor fastening at a distance**  
Installation of a cable tray at a distance using the stand-off bracket DBL. Maximum cable tray width 600 mm.



**Stand-off of mesh cable trays**  
Floor stand-off of mesh cable trays with the stand-off bracket, type DBLG 20/... Screwless fastening of the mesh cable tray on the stand-off bracket using clamping lugs.



## Installation principle, U support US 3

### System components

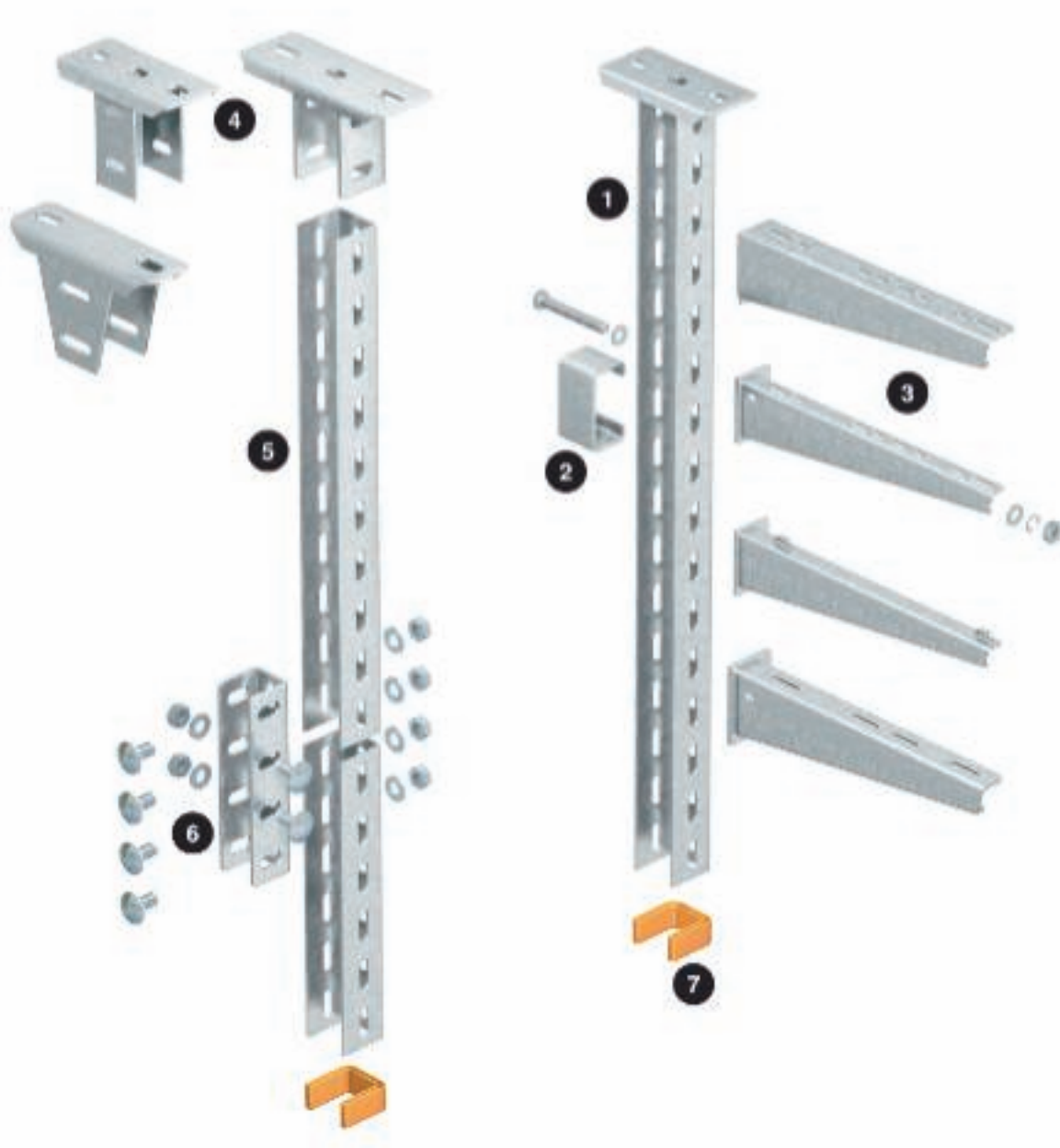
1	US 3 suspended support
2	Spacer
3	Wall and support brackets
4	Head plate
5	US 3 support
6	U support connector
7	Protective cap



## Installation principle, U support US 5

### System components

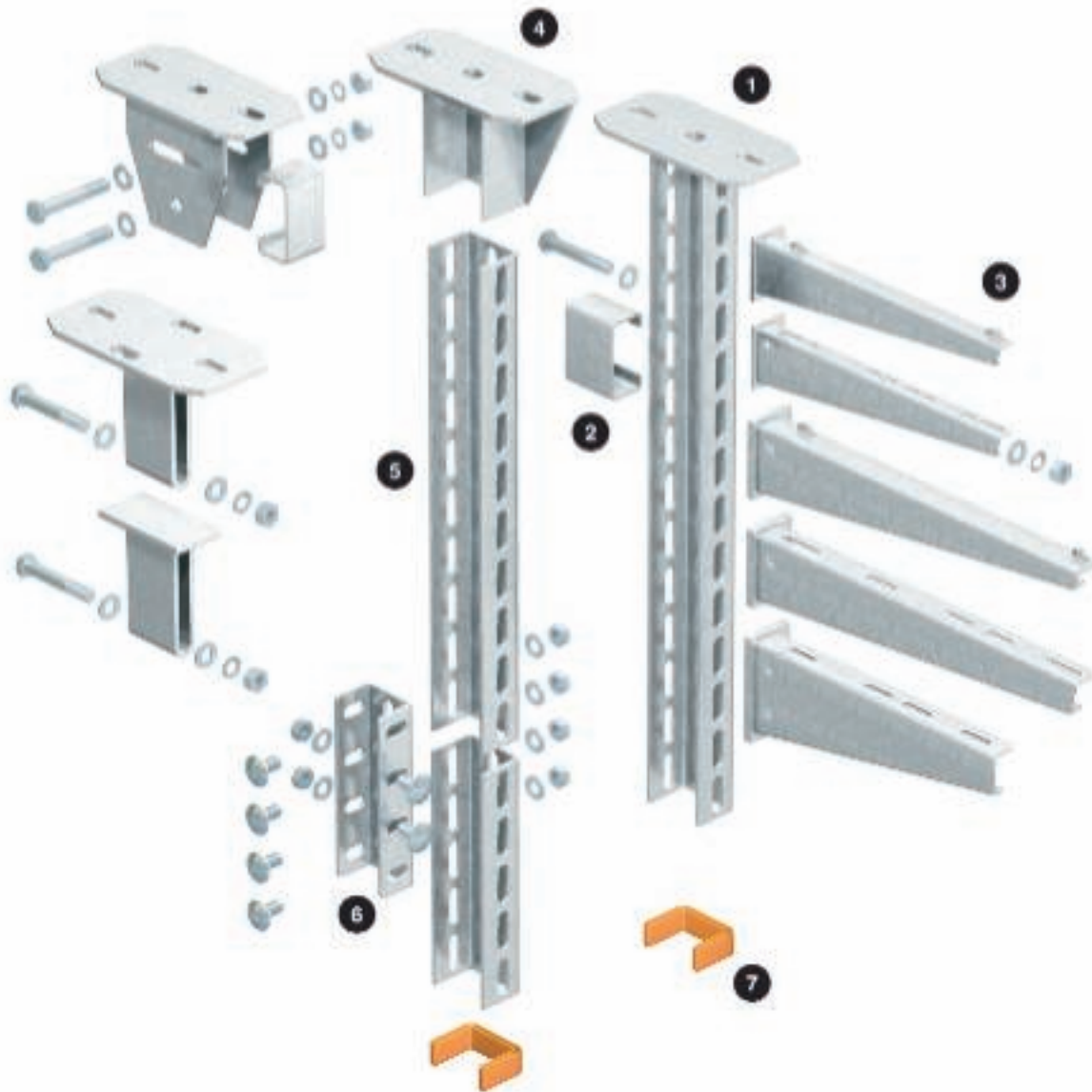
1	US 5 suspended support
2	Spacer
3	Wall and support brackets
4	Head plate
5	US 5 support
6	U support connector
7	Protective cap



## Installation principle, U support US 7

### System components

1	US 7 suspended support
2	Spacer
3	Wall and support brackets
4	Heavy-duty head plate
5	US 7 support
6	U support connector
7	Protective cap



## System description, U support and bracket systems



The perfectly matched U support family consists of US 3 (light-duty system), US 5 (medium-duty system) and US 7 (heavy-duty system). The U support range is particularly noted for its versatility. The U supports can be used as ceiling suspension, floor stand-off or as construction profiles.

Besides the U support family with comprehensive accessories, you can also find the wall and support brackets in this chapter. These can be fastened directly on the wall or on U supports. Classification takes place according to load capacity. The appropriate maximum load can be easily derived from the type of the different wall and support brackets MWA 12 (max. load 1.2 kN), AW 15 (max. load 1.5 kN), AW 30 (max. load 3.0 kN) and AW 55 (max. load 5.5 kN).

On the following pages, you can select your preferred mounting variant from the installation diagrams shown and combine the corresponding articles in the order section. You can find a comprehensive article description and additional information for the articles, such as load and anchor diagrams, which can help you when selecting the system.



## Mounting aid, U support and bracket systems



**Wall mounting**  
Direct fastening of wall and support brackets of type AW... on the wall.



**Quick fastening of cable tray on bracket**  
Positioning the cable tray on the bracket.



**Quick fastening of tray on bracket**  
Fixing of the cable tray on the bracket using quick connector.



**Wall bracket, variable**  
Fastening of the variable wall bracket, type AWW, with anchor bolt, type FAZ II, to vaulted or sloping walls/ceilings.



**Standard mounting of support with wall bracket, single-sided without spacer**  
Ceiling fastening of a support with single-sided bracket fastening. No spacer is required for widths up to and including 300 mm.



**Standard mounting of support with wall and support bracket, single-sided with spacer**  
Ceiling fastening of a support with single-sided bracket fastening. For widths of over 400 mm, we recommend using a spacer.



**Standard mounting of support with wall and support bracket, double-sided**  
Ceiling fastening of a support with double-sided bracket mounting.



**Ceiling mounting**  
Standard mounting of U supports US 3 K, US 5 K and US 7 K on the ceiling with fastening of the wall and support brackets.



**Head plate mounting**  
Installation of the standard head plate on support and ceiling. Use with spacer DSK 25 (US 3), DSK 45 (US 5) or DSK 61 (US 7).



**Adapter head plate, asymmetrical**  
Asymmetrical head plate KA-ASY to increase the load capacity for the combination with supports, type US 7 K and IS 8 K.

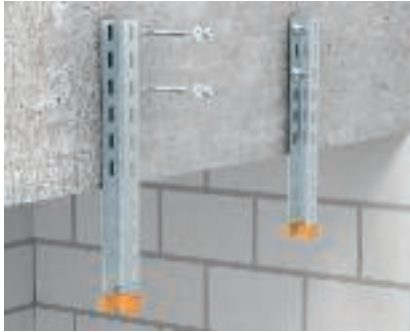


**Adapter head plate, symmetrical**  
Symmetrical head plate KA-SY to increase the load capacity for the conjunction with supports, types US 7 K and IS 8 K.



**Traverse**  
Installation of U supports US 3 K, US 5 K and US 7 K under the ceiling using anchor bolts, FAZ II, and use of a trapeze, consisting of U profile US 3, US 5 or US 7.





**U support wall mounting**

U supports are installed on walls or girders using FAZ II anchor bolts, directly through the system perforation in the U support.



**U support connection**

To connect U supports, use the appropriate U support connectors, types VUS 3, VUS 5 and VUS 7.



**Installation of spacer**

Installation of the spacer DSK 47 with US 5 supports or DSK 45 with US 7 supports in conjunction with a variable head plate KU 5 V or KU 7 VQP.



**Variable head plate with US 3 support**

Installation of the variable head plate, type KU 3 V on US 3 support.



**Variable head plate**

Fastening of the variable head plate KU 5 V to sloping concrete ceilings using anchor bolts, type FAZ II, and spacer DSK 47.



**Variable head plate**

Fastening of the variable head plate KU 7 VQP to sloping concrete ceilings using anchor bolts, type FAZ II, and spacer DSK 45.



**45° adapter plate, concrete mounting**

Installation of the 45° adapter plate, type KA-E, on a concrete wall. For additional support and implementation of trays at room corners.



**45° adapter plate, steel clamping**

Installation of the 45° adapter plate, type KA-E 45, on the steel girder using clamping angles or chuck jaws. For additional support of trays at room corners.



**Direct girder clamping**

Direct girder clamping of an U support using KWS clamping angle. Route in longitudinal direction of steel girder.



**Steel clamping with C profile, tray in longitudinal direction**

U suspended support mounting, clamped to steel girder with C profile CPS 4 G and TKH-L-25 light-duty chuck jaw. Tray route along steel girder.



**Steel clamping with C profile, tray in transverse direction**

U suspended support mounting, clamped to steel girder with C profile, type CPS, and TKH-L-25 light-duty chuck jaw. Tray route transverse to steel girder.



**Head plate mounting**

Installation of the head plate using the example KU 7 AOX for direct welding on steel girders.



**Cantilever beam on steel**

U supports can be used as cantilever beams on steel girders with chuck jaws of type TKS-L-25. Use DSK spacers for safe functioning.



**Clamp fastening of heavy-duty bracket**

Clamp fastening of a heavy-duty bracket with clamping angles or clamping lugs on a vertical steel girder.



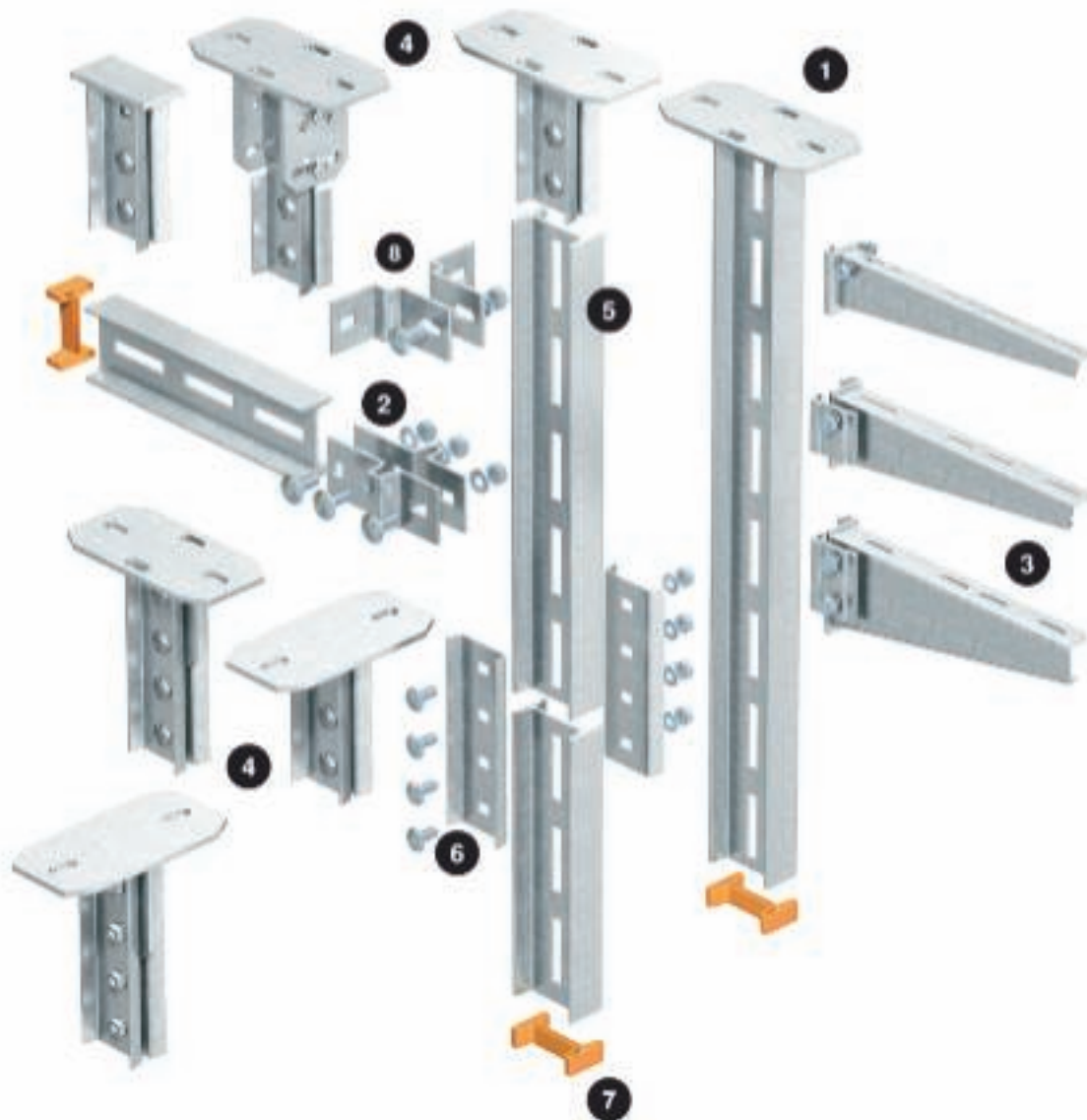
**Complete mounting of a ceiling fastening**

Illustration of complete ceiling mounting with cable trays.

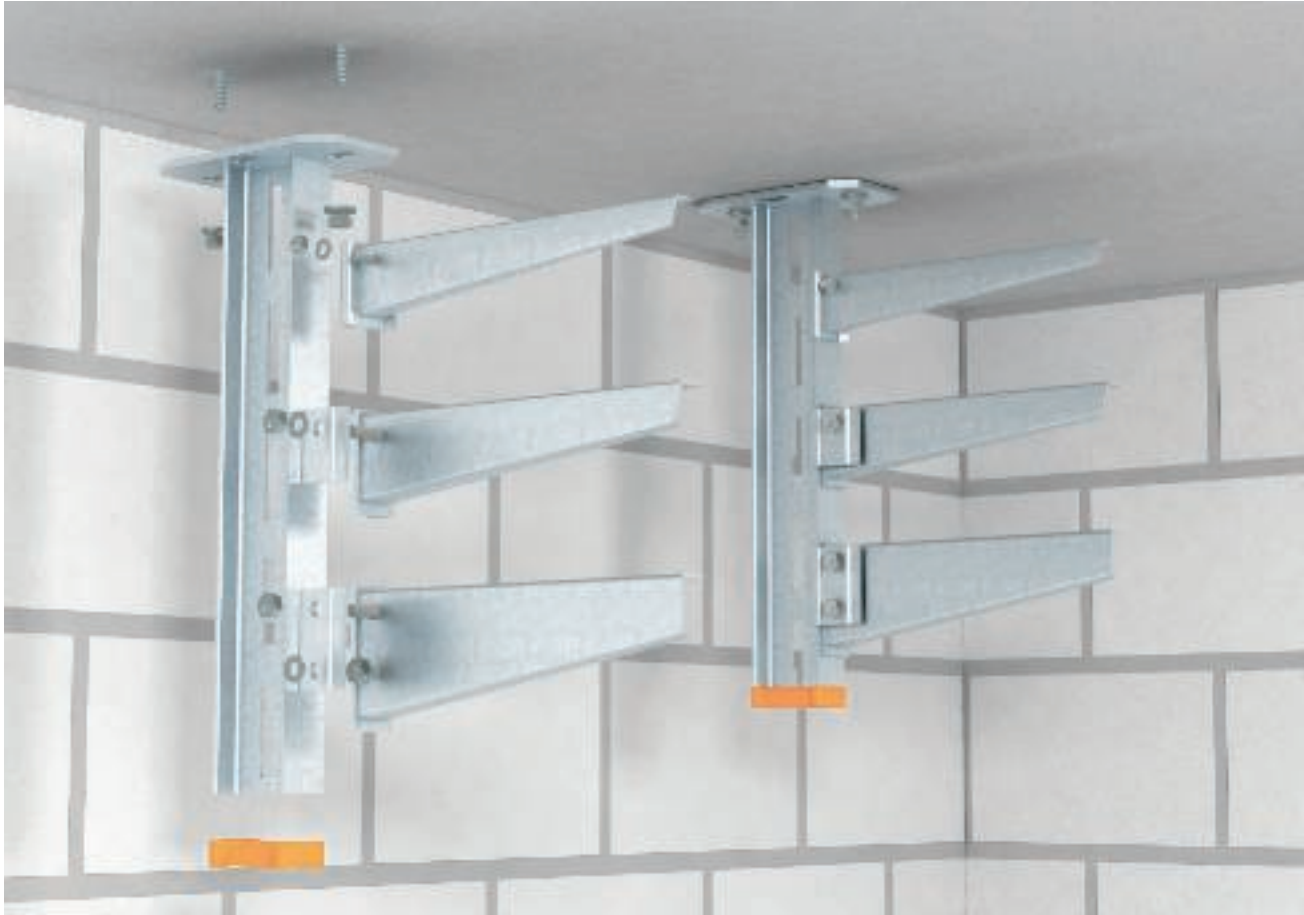
## Installation principle, I support and bracket systems

### System components

1	I suspended support
2	Support strap
3	Support bracket
4	Head plate
5	I support
6	I support connector
7	Protective cap
8	Mounting angle



## System description, I support and bracket systems



The I support system from OBO Bettermann really comes into its own in situations where high loads must be carried, large distances must be bridged and difficult routes must be implemented. The I support system fulfils all the requirements of a heavy-duty cable mounting system. The high load capacities of all the system components permit the mounting of complex structures. The comprehensive range of head plates allows the implementation of all conceivable solutions. This heavy-duty system is used with large support spacings of wide span systems or for multi-layer set ups of standard cable trays and cable ladder systems. The combination of I supports and support brackets of type AS 15, AS 30 and AS 55 form a perfectly matched product range, the height of which can be infinitely adjusted.

On the following pages, you can select your preferred mounting variant from the installation diagrams shown and combine the corresponding articles in the order section. You can find a comprehensive article description and additional information for the articles, such as load and anchor diagrams, which can help you when selecting the system.



## Mounting aid, I support and bracket systems



**Application on the ceiling**  
Standard mounting of supports to concrete ceilings using anchor bolt, type FAZ II.



**Head plate mounting**  
Fastening of the standard head plate, KI 8, for I support to concrete ceilings using anchor bolts, type FAZ II.



**Head plate, variable (rotated through 90°)**  
Installation of the variable head plate, rotated through 90°, KI 8 VLK to sloping concrete ceilings using anchor bolts, type FAZ II.



**Variable head plate**  
Installation of the variable head plate KI 8 VQP to sloping concrete ceilings using anchor bolts, type FAZ II.



**I support connection**  
Installation of the I support connector VIS 8 to connect IS 8 supports.



**Bracket mounting**  
Installation of a three-layer cable support system on the concrete ceiling using support bracket mounting, AS 15, AS 30 and AS 55.



**Adapter head plate, asymmetrical**  
Asymmetrical head plate KA-ASY to increase the load capacity for the combination with supports, type US 7 K and IS 8 K.



**Adapter head plate, symmetrical**  
Symmetrical adapter head plate KA-SY to increase the load capacity for the conjunction with supports, types US 7 K and IS 8 K.



**Wall mounting, I support**  
Installation of an I support on the wall using mounting angle, type BW 80/55, and anchor bolts, type FAZ II, to accept multiple support brackets, type AS.





**Special structure**

Example of installing a special structure, consisting of I supports (ceiling/wall mounting) with transverse profile and various support brackets, type AS.



**Application on steel girder**

Clamp fastening of supports on steel girders using various chuck jaws, lengthwise or transverse to the steel girder.



**Direct girder clamping**

Direct girder clamping an I support using heavy-duty chuck jaw, type TKS-S-30. Route in longitudinal direction of steel girder.



**Steel clamping with C profile, tray in longitudinal direction**

I support with welded head plate mounting, clamped to steel girder with C profile and TKH-L-25 chuck jaw. Tray route along steel girder.



**Steel clamping with C profile, tray in transverse direction**

I support with welded head plate mounting, clamped to steel girder with C profile and TKH-L-25 chuck jaw. Tray route transverse to steel girder.



**Head plate, variable (transverse)**

Installation of the variable, transversely adjustable head plate, type KI 8 VLP, on rising or falling steel structures with profile rail, type CPS 5 G and clamping angles, type KWH.

## Installation principle, clamp fastening systems

### System components

1	Chuck jaw, heavy-duty
2	Chuck jaw, light-duty
3	Profile rails
4	Clamping lug/clamping profile
5	Fastening clamp, horizontal
6	Fastening clamp, vertical



## System description, clamp fastening systems

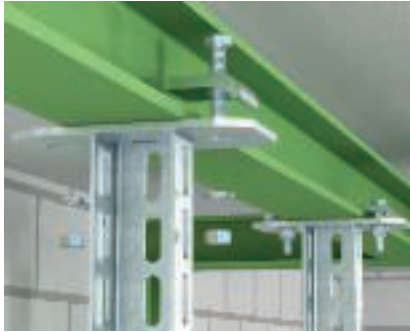


The clamp fastening systems with reduced installation times and work are a clear argument for the use of this system in all areas of professional electrical installations. Clamp fastening can be attached without difficult, often unpermitted drilling. The load range runs from light-duty clamping angles to heavy-duty chuck jaws.

The clamping lugs / clamping angles, type KL, KWH and KWS and the chuck jaws, type TKH and TKS, permit excellent connections without drilling or welding, on account of the perfect matching to additional system articles.

On the following pages, you can select your preferred mounting variant from the installation diagrams shown and combine the corresponding articles in the order section.

## Mounting aid, clamp fastening systems



**Application on horizontal steel girder**  
Clamp fastenings using clamping angles and chuck jaws on horizontal steel girders.



**Application on sloping steel girder**  
Clamp fastenings using clamping angles and chuck jaws on sloping steel girders.



**Steel clamping, C profile rail**  
Fastening of a C profile, type CPS 4 G or CPS 5 G, to steel girder using clamping angles, type KWS.



**Direct girder clamping**  
Direct girder clamping an I support using chuck jaw (heavy duty), type TKS-S-30. Route along steel girder.



**Clamp fastening with addition C profile**  
Use of an additional C profile rail, type CPS, for wider steel girders. Route along steel girder.



**Clamping transverse to steel girder**  
Use with two C profile rails for tray mounting transverse to the steel girder.



**Cantilever beam on steel**  
Installation of U support as cantilever beam on steel girder. Fastening with clamping angles or chuck jaws depending on load. Fastening with spacers, type DSK.



**Cantilever beam with support**  
Cantilever beams made of U support construction clamped to steel girder for installing supports.



**Clamp fastening on vertical steel girder**  
Installation of the adapter plate, type KA-AW, on the vertical steel girder using clamping angle or chuck jaws. Wall brackets of type AW are fixed to the adapter plate, using the hexagonal bolt SKS 12 x 40 GF.



**45° adapter plate, steel clamping**

Installation of the 45° adapter plate, type KA-E 45, on the steel girder using clamping angles or chuck jaws. For additional support of trays at room corners.



**Vertical clamp fastening**

Clamp fastening of a heavy-duty bracket with clamping angles or clamping lugs on a vertical steel girder.



**Vertical clamp fastening**

Installation of a mesh cable tray vertically on a steel girder, mounting with a beam clamp BFK and clamp GKS 50.



**Horizontal clamp fastening**

Installation of AZ channel using BFK beam clamp in a longitudinal direction on the steel girder. Maximum cable tray width 100 mm.





## Test marks

	Verband der Elektrotechnik, Elektronik, Informationstechnik e.V., Germany
	FIMKO, Finland
	KEMA-KEUR, Netherlands
	Österreichischer Verband für Elektrotechnik, Austria
	Eidgenössisches Starkstrominspektorat, Switzerland
	NEMKO, Norway
	SEMKO An Inchcape Testing Services Company, Sweden
	Indication of metric products
	DEMKO, Danmarks Elektriske Materielkontrol, Denmark
	Sähkötarvikeskus Elinspektionscentralen Electrical Inspectorate, Finland
	Underwriters Laboratories Inc., USA
	Underwriters Laboratories Inc., USA
	Canadian Standards Association, Canada
	CEBEC, Belgium
	STOWARZYSZENIE ELEKTRYKÓW POLSKICH, Poland
	Forschungs- und Materialprüfungsanstalt, Germany
	Shock-tested, Bundesamt für Zivilschutz, Germany
	MAGYAR ELEKTROTECHNIKAI ELLENŐRZŐ INTÉZET Budapest, Hungary
<b>DIBt</b>	Deutsches Institut für Bautechnik Berlin, Germany
	ELEKTROTECHNICKÝ ZKUŠEBNÍ ÚSTAV, Czech Republic
	Test marks for technical resources, VDE Prüf- und Zertifizierungsinstitut Offenbach, Germany






# Pictogram explanation












## Fire protection

	Resistance time in minutes of the installation system during a fire
	Resistance time in minutes of the installation system during a fire









## Materials

	Flat steel
	Angular steel
	U steel




## Materials

	Aluminium
	Stainless steel, grade 434
	Stainless steel, grade 304
	Stainless steel, grade 305
	Stainless steel, grade 301
	Stainless steel, grade 316
	Stainless steel, grade 316 L
	Stainless steel, grade 316 L
	Stainless steel, grade 354/1
	Stainless steel, grade 316 Ti
	Steel




## Surfaces

	Hot-dip galvanised
	electro-galvanised, yellow-chromated
	Zinc-aluminium coated, double-dip
	Strip-galvanised
	Electro-galvanised
	Primed
	Hot-dip galvanised
	Zinc-aluminium coated, Galfan

## Miscellaneous

	BET-tested to DIN EN 61537
	Halogen-free; without chlorine, fluorine and bromine
	Magnetic shield insulation

## Miscellaneous

	Easy mounting component
	CO2-reduced
	Suitable for sprinkler systems



## Metal materials

### Alu — Aluminium

**VA (1.4113) — Stainless steel, grade 434**

Material no. 1.4113

**VA (1.4301) — Stainless steel, grade 304**

**VA (1.4303) — Stainless steel, grade 305**

Material no. 1.4303

**VA (1.4310) — Stainless steel, grade 301**

**VA (1.4401) — Stainless steel, grade 316**

**VA (1.4404) — Stainless steel, grade 316 L**

**VA (1.4435) — Stainless steel, grade 316 L**

**VA (1.4529) — Stainless steel, grade 354/1**

**VA (1.4571) — Stainless steel, grade 316 Ti**

**St — Steel**

**Zn — Die-cast zinc**



# Plastic materials

## CR — Chloroprene rubber

Temperature resistance:  
permanently up to 120 °C, briefly up to approx. 150 °C and to approx. minus 30 °C\*.

### Resistant to

Oils and acids.

### Unstable with

Fuels.

## FA — Fibre-proof material DIN 28091

To DIN 28091, asbestos-free

Temperature resistance:  
up to 300 °C.

## GFK — Fibre-glass-reinforced plastic

Temperature resistance:

-50 to 130 °C.

### Resistant to

High chemical resistance

Corrosion resistance

UV light resistance

## NR — Natural rubber

Temperature resistance:  
permanently up to 80 °C, briefly up to approx. 120 °C and to approx. minus 40 °C\*.

### Resistant to

Most acids.

### Unstable with

Fuels, solvents, oils.

## PA — Polyamide

Temperature resistance:  
permanently up to approx. 90 °C, briefly up to about 130 °C and to about minus 40 °C\*.

Chem. resistance generally as for polyethylene.

### Resistant to

Petrol, benzene, diesel oil, acetone, solvents for paints and lacquers, oils and greases.

### Unstable with

Bleach, most acids, chlorine.

### Risk of tension cracking

Low in air-humid conditions; only with some aqueous salt solutions. Highly desiccated parts (high temperature and extremely low air humidity) are highly sensitive to fuels and various solvents.

## PA/GF — Polyamide, fibreglass reinforced

Temperature resistance:  
permanently up to 100–110 °C, briefly up to 160 °C and to about minus 40 °C\*.

### Resistant to

Petrol, benzene, diesel oil, acetone, solvents for paints and lacquers, oils and greases.

Slightly susceptible to stress-cracking.

### Unstable with

Bleach, most acids, chlorine.

### Risk of tension cracking

Low in air-humid conditions; only with some aqueous salt solutions. Highly desiccated parts (high temperature and extremely low air humidity) are highly sensitive to fuels and various solvents.

## PC — Polycarbonate

Temperature resistance:  
permanently up to approx. 110 °C (in water 60 °C), briefly up to 125 °C, and to below minus 35 °C.

### Resistant to

Petrol, turpentine, most weak acids.

### Unstable with

Acetone, benzene, chlorine, methylene chloride, most concentrated acids.

### Risk of tension cracking

Relatively low.

Media which can cause tension cracking include benzene, aromatic hydrocarbons, methanol, butanol, acetone, turpentine.

## POM — Polyacetal (polyoxymethylene, polyformaldehyde)

Temperature resistance:  
permanently up to approx. 100 °C, briefly up to approx. 130 °C and to approx. minus 40 °C.

### Resistant to

Acetone, ether, petrol, weak acetic acid, benzene, heating oil, oils and greases, toluene.

### Unstable with

Methylene chloride, trichloroethylene, hydrochloric acid, nitric acid, sulphuric acid.

### Risk of tension cracking

Low

## PE — Polyethylene

Temperature resistance:

hard types permanently up to about 90 °C, briefly up to about 105 °C, soft types permanently up to about 80 °C, briefly up to about 100 °C and to about minus 40 °C\*.

### Resistant to

Alkalis and inorganic acids.

### Conditionally resistant to

Acetone, organic acids, petrol, benzene, diesel oil, most oils.

### Unstable with

Chlorine, hydrocarbons, oxidising acids.

### Risk of tension cracking

Relatively high.

Stress cracks can be caused by, among other things, acetone, various alcohols, formic acid, ethanol, petrol, benzene, butyric acid, acetic acid, formaldehyde, various oils, petroleum, propanol, nitric acid, hydrochloric acid, sulphuric acid, soap solutions, turpentine, trichloroethylene, citric acid.

## PBPT — Polybutylene terephthalate

Thermoplastic polyester

Temperature resistance:  
permanently up to 120 °C, briefly up to 140 °C and to approx. minus 40 °C.

### Resistant to

Petrol, diesel oil, most weak acids, oils and greases.

### Conditionally resistant to

Acetone, ammonia, benzene.

### Unstable with

Strong acids, chlorine, fluorine, bromine vapour, bleach, trichloroethylene, methylene chloride.

### Risk of tension cracking

Low.

## PS — Polystyrene

Temperature resistance:

Because of its relatively high sensitivity to the effects of chemicals, its use is not recommended at temperatures above normal room temperature, about 25 °C.

Resistance to cold: to about minus 40 °C\*.

### Resistant to

Alkalis, most acids, alcohol.

### Conditionally resistant to

Oils and greases.

### Unstable with

Butyric acid, concentrated nitric acid, concentrated acetic acid, acetone, ether, petrol and benzene, solvents for paints and lacquers, chlorine, diesel fuel.

### Risk of tension cracking

Relatively high.

Stress cracks can be caused by, amongst other things, acetone, ether, petrol, cyclohexane, heptane, methanol, propanol and the softeners used in some PVC cable mixes.

## PVC — Polyvinylchloride

Temperature resistance:

permanently up to 65 °C, briefly up to 75 °C and to about minus 30 °C.

### Resistant to

Weak acids, alkalis, oils and greases, petrol.

### Unstable with

Strong acids, benzene, acetone, iodine, toluene, trichloroethylene.

### Risk of tension cracking

Low, only with some solvents such as benzene and acetone.



## Plastic materials

### **SBR — Styrene-butadiene rubber**

Temperature resistance:  
permanently up to 80 °C, briefly up to approx.120 °C and to  
approx.minus 30 °C\*.

**Resistant to**

Most acids.

**Unstable with**

Fuels, solvents, oils.

\*The minus values apply only for parts in the quiescent condition with no severe impact stress.

There is no plastic that is resistant to every chemical. The agents listed are only a small selection. Plastic parts are especially at risk in the presence of chemicals and high temperatures. Stress cracks may occur. If in doubt, please consult us and/or ask for a detailed chemical resistance table.

Stress crack formation: stress cracks may occur if plastic parts under tension are exposed to chemicals at the same time. Parts made of polystyrene and polyethylene are particularly susceptible. Stress cracks may even be caused by agents to which the plastic in question is resistant in the absence of stress. Typical examples of parts under constant stress when used as intended: grip clips, intermediate supports of cable glands, ribbon clips.



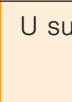


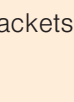

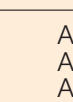
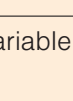
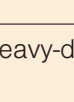
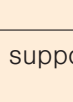

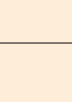
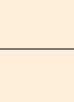








## Mounting systems

	Universal systems	Ceiling bracket Threaded rod Centre suspension	158
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		US 7 suspended support	174
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	Construction and profile rail systems	Profile rails Construction and suspension profile	197

# Universal systems

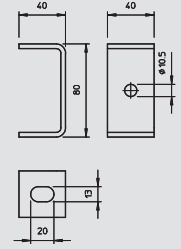
Mounting systems



## Ceiling bracket

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>DB FT</b>	50	16.000	<b>6356 10 9</b>

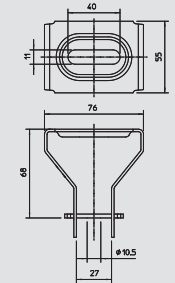
**St** Steel **FT** Hot-dip galvanised /pc.  
Ceiling bracket for threaded rod suspension.



## Ceiling bracket, variable

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>DBV FS</b>	20	18.200	<b>6356 05 5</b>

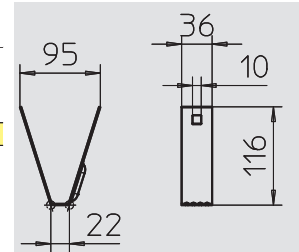
**St** Steel **FS** Strip-galvanised /pc.  
Ceiling bracket for suspension with threaded rods. The variable adjustment permits universal use. The locked threaded rod seat offers the option of infinite angle adjustment.



## Trapezoidal fastening

Type	Material thickness	Support load	Pack.	Weight	Item No.
	mm	kN	pcs	kg/100 pcs.	
<b>TPB 100 FS</b>	1.5	0.8	50	9.900	<b>6357 50 6</b>

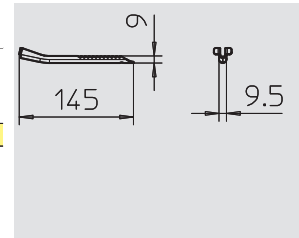
**St** Steel **FS** Strip-galvanised /pc.  
Ceiling bracket for fastening to standard trapezoidal ceilings. Important: observe the statics of the trapezoidal metal ceiling.



## Bolt for trapezoidal fastening

Type	Material thickness	Breaking load	Pack.	Weight	Item No.
	mm	kN	pcs	kg/100 pcs.	
<b>TPB R FS</b>	1.5	0.8	50	3.700	<b>6357 53 6</b>

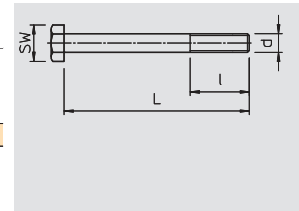
**St** Steel **FS** Strip-galvanised /pc.  
Bolt for fastening and securing the trapezoidal suspension to trapezoidal ceilings. Important: Observe the statics of the trapezoidal metal ceiling.



## Hexagonal bolt

Type	Dimension	Dimension L	Dimension L1	Dimension d	SW	Pack.	Weight	Item No.
	mm	mm	mm	mm	mm	pcs	kg/100 pcs.	
<b>SKS 10X110 G</b>	M10 x 110	110	30	10	17	25	9.500	<b>6418 24 4</b>

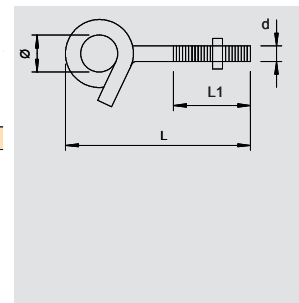
**St** Steel **G** Electrogalvanised /100 pc.  
Hexagonal bolt with washers and hexagonal nut.



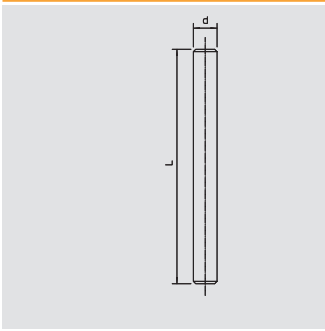
## Ceiling hook

Type	Thread	Dimension d	Dimension L	Dimension L1	Dimension d Ø	Breaking load	Pack.	Weight	Item No.
		mm	mm	mm	mm	kN	pcs	kg/100 pcs.	
<b>948 TG6</b>	M6	6	70	46	13	1	25	5.000	<b>3453 82 0</b>

**St** Steel **G** Electrogalvanised /100 pc.  
Tightly wound ceiling hook. Including two large washers and nuts.



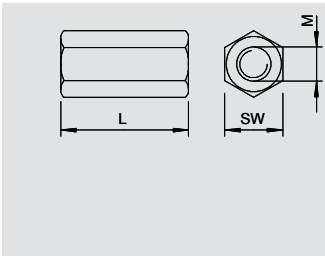
04\_KTS\_Masterkatalog\_Länder\_2012 / en / 03/04/2012 (LLEExport\_01439) / 05/04/2012



## Threaded rod

Type	Thread	Dimension d mm	Dimension L mm	Pack.	Weight	Item No.
				pcs	kg/100 pcs.	
<b>2078 M8 1M G</b>	M8	8	1000	50	30.000	<b>3141 12 8</b>
<b>2078 M10 1M G</b>	M10	10	1000	25	49.000	<b>3141 20 9</b>
<b>2078 M12 1M G</b>	M12	12	1000	20	100.000	<b>3141 30 6</b>
<b>2078 M8 2M G</b>	M8	8	2000	25	60.000	<b>3141 13 6</b>
<b>2078 M10 2M G</b>	M10	10	2000	25	98.000	<b>3141 14 0</b>
<b>2078 M12 2M G</b>	M12	12	2000	20	140.000	<b>3141 14 4</b>

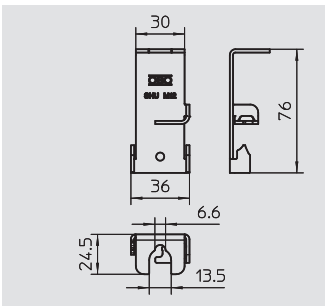
**St** Steel      **G** Electrogalvanised      /100 pc.  
Threaded rod to DIN 976.



## Connection sleeve

Type	Thread	Dimension M mm	Dimension L mm	SW mm	Pack.	Weight	Item No.
					pcs	kg/100 pcs.	
<b>12005 M8 G</b>	M8	8	30	13	50	2.000	<b>6410 08 1</b>
<b>12005 M10 G</b>	M10	M10	40	17	50	6.000	<b>6410 10 3</b>
<b>12005 M12 G</b>	M12	M12	40	19	25	7.000	<b>6410 11 1</b>

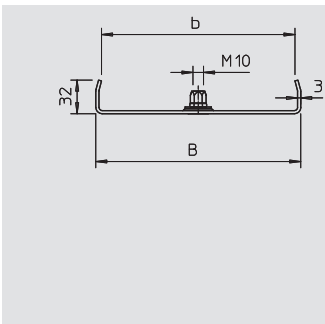
**St** Steel      **G** Electrogalvanised      /100 pc.  
Connection sleeve with continuous internal thread.



## Side holder, universal

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>SHU M12 FS</b>	60	5.100	<b>6015 32 2</b>
<b>SHU M12 DD</b>	60	5.100	<b>6015 32 4</b>

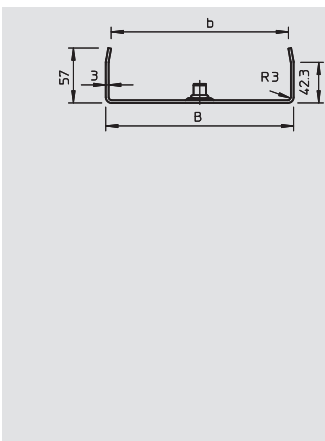
**St** Steel      **FS** Strip-galvanised      **DD** Zinc-aluminium coated, double-dip      /pc.  
Side holder to fasten cable trays, mesh cable trays and cable ladders to walls or ceilings using a threaded rod.



## Central suspension for cable tray MAH 35

Type	for width mm	For threaded rod	Dimension B mm	Dimension b mm	Pack.	Weight	Item No.
					pcs	kg/100 pcs.	
<b>MAH 35 100 FS</b>	100	M10	95	84	20	9.400	<b>6358 69 0</b>
<b>MAH 35 200 FS</b>	200	M10	195	184	20	18.600	<b>6358 69 2</b>
<b>MAH 35 300 FS</b>	300	M10	295	284	20	27.700	<b>6358 69 4</b>

**St** Steel      **FS** Strip-galvanised      /pc.  
Central suspension for cable trays with rolled side rail of side height 35 mm.  
The central suspension possesses a rotatable M10 threaded sleeve. When filling, ensure an even distribution of the load (avoid one-sided filling).



## Central suspension for cable tray MAH 60

Type	for width mm	For threaded rod	Dimension B mm	Dimension b mm	Pack.	Weight	Item No.
					pcs	kg/100 pcs.	
<b>MAH 60 100 FS</b>	100	M10	94	84	20	18.500	<b>6358 70 5</b>
<b>MAH 60 150 FS</b>	150	M10	144	134	20	23.000	<b>6358 70 9</b>
<b>MAH 60 200 FS</b>	200	M10	195	184	20	27.600	<b>6358 71 3</b>
<b>MAH 60 300 FS</b>	300	M10	295	284	20	36.700	<b>6358 71 7</b>
<b>MAH 60 100 FT</b>	100	M10	94	84	20	18.500	<b>6358 75 2</b>
<b>MAH 60 150 FT</b>	150	M10	144	134	20	23.000	<b>6358 75 6</b>
<b>MAH 60 200 FT</b>	200	M10	195	184	20	27.600	<b>6358 76 0</b>
<b>MAH 60 300 FT</b>	300	M10	295	284	20	36.700	<b>6358 76 4</b>

**St** Steel      **FS** Strip-galvanised      **FT** Hot-dip galvanised      /pc.  
Central suspension for cable trays with rolled side rail of side height 60 mm.  
The central suspension possesses a rotatable M10 threaded sleeve. When filling, ensure an even distribution of the load (avoid one-sided filling).





# Universal systems

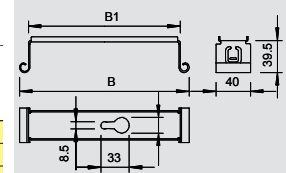


## Central suspension for cable tray MAH

Type	for width	Dimension B	Dimension B1	Pack.	Weight	Item No.
	mm	mm	mm	pcs	kg/100 pcs.	
<b>MAH 050 FS</b>	50	47	26	50	5.000	<b>6358 50 0</b>
<b>MAH 075 FS</b>	75	72	51	50	6.500	<b>6358 51 0</b>
<b>MAH 100 FS</b>	100	97	76	50	7.500	<b>6358 52 7</b>
<b>MAH 150 FS</b>	150	147	126	50	8.000	<b>6358 53 5</b>
<b>MAH 200 FS</b>	200	197	176	50	12.500	<b>6358 54 3</b>

**St** Steel **FS** Strip-galvanised /pc.

Central suspension for cable trays for attachment from the side rail of the cable tray.



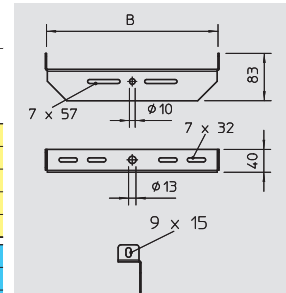
## Central suspension, universal

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
<b>MAHU 200 FS</b>	200	20	27.500	<b>6358 85 3</b>
<b>MAHU 300 FS</b>	300	20	39.300	<b>6358 85 6</b>
<b>MAHU 400 FS</b>	400	20	68.800	<b>6358 86 0</b>
<b>MAHU 500 FS</b>	500	20	85.800	<b>6358 86 4</b>
<b>MAHU 600 FS</b>	600	15	103.300	<b>6358 86 8</b>
<b>MAHU 200 FT</b>	200	20	28.700	<b>6358 88 4</b>
<b>MAHU 300 FT</b>	300	20	43.300	<b>6358 88 8</b>
<b>MAHU 400 FT</b>	400	20	71.300	<b>6358 89 2</b>
<b>MAHU 500 FT</b>	500	20	89.100	<b>6358 89 6</b>
<b>MAHU 600 FT</b>	600	15	107.000	<b>6358 90 0</b>

**St** Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Universal central suspension for fastening to threaded rods and supports.

Preferred use of this central suspension in combination with cable ladders and mesh cable trays.

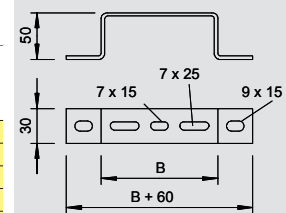


## Stand off bracket

Type	Dimension B	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
<b>DBL 50 100 FS</b>	100	20	15.800	<b>6015 50 6</b>
<b>DBL 50 150 FS</b>	150	20	19.300	<b>6015 51 4</b>
<b>DBL 50 200 FS</b>	200	20	22.800	<b>6015 52 2</b>
<b>DBL 50 300 FS</b>	300	20	38.000	<b>6015 53 0</b>
<b>DBL 50 400 FS</b>	400	20	47.400	<b>6015 54 9</b>
<b>DBL 50 500 FS</b>	500	25	59.100	<b>6015 55 2</b>
<b>DBL 50 600 FS</b>	600	20	69.000	<b>6015 55 5</b>
<b>DBL 50 100 FT</b>	100	20	16.000	<b>6015 56 5</b>
<b>DBL 50 150 FT</b>	150	20	19.500	<b>6015 57 3</b>
<b>DBL 50 200 FT</b>	200	20	23.000	<b>6015 58 1</b>
<b>DBL 50 300 FT</b>	300	20	38.250	<b>6015 60 3</b>
<b>DBL 50 400 FT</b>	400	20	47.700	<b>6015 61 1</b>
<b>DBL 50 500 FT</b>	500	25	62.600	<b>6015 61 4</b>
<b>DBL 50 600 FT</b>	600	20	73.100	<b>6015 61 7</b>

**St** Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Stand-off bracket for cable trays and mesh cable trays.

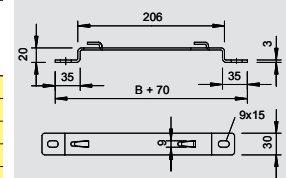


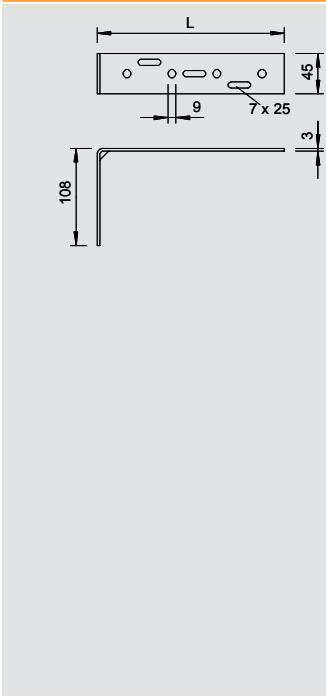
Type	Dimension B	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
<b>DBLG 20 050 FS</b>	50	20	10.300	<b>6015 64 6</b>
<b>DBLG 20 100 FS</b>	100	20	13.800	<b>6015 65 4</b>
<b>DBLG 20 150 FS</b>	150	20	17.400	<b>6015 65 8</b>
<b>DBLG 20 200 FS</b>	200	20	20.900	<b>6015 66 2</b>
<b>DBLG 20 300 FS</b>	300	20	37.300	<b>6015 67 0</b>
<b>DBLG 20 400 FS</b>	400	20	46.700	<b>6015 68 9</b>
<b>DBLG 20 500 FS</b>	500	25	56.900	<b>6015 69 3</b>
<b>DBLG 20 600 FS</b>	600	25	66.400	<b>6015 69 7</b>
<b>DBLG 20 050 FT</b>	50	20	10.700	<b>6015 64 8</b>
<b>DBLG 20 100 FT</b>	100	20	14.300	<b>6015 65 6</b>
<b>DBLG 20 150 FT</b>	150	20	18.100	<b>6015 66 0</b>
<b>DBLG 20 200 FT</b>	200	20	21.700	<b>6015 66 4</b>
<b>DBLG 20 300 FT</b>	300	20	38.800	<b>6015 67 2</b>
<b>DBLG 20 400 FT</b>	400	20	48.600	<b>6015 69 1</b>
<b>DBLG 20 500 FT</b>	500	25	59.200	<b>6015 69 5</b>
<b>DBLG 20 600 FT</b>	600	25	69.100	<b>6015 69 9</b>

**St** Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

Stand-off bracket for stand-off of mesh cable trays on the floor or on the wall.

Screwless fastening of the mesh cable tray on the stand-off bracket.





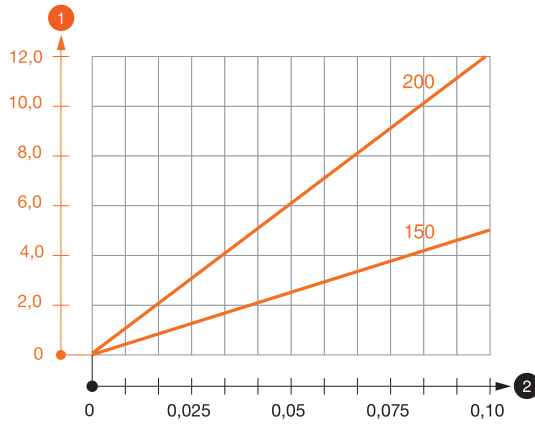
## Wall profile

Type	F in kN	Dimension L	Pack.	Weight	Item No.
	kN	mm	pcs	kg/100 pcs.	
<b>WW 100 15 FS</b>	0.1	158	50	25.000	<b>6015 36 0</b>
<b>WW 100 20 FS</b>	0.1	208	50	30.000	<b>6015 37 9</b>

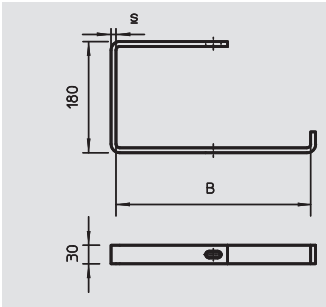
**St** Steel      **FS** Strip-galvanised      /pc.

Wall angle bracket for fastening to masonry and concrete to accept low loads.

### Load diagram, wall angle bracket WW 100



- 1** Bending of the bracket point at approved bracket load
- 2** Approved bracket load in kN without man load
- Load curve with bracket lengths in mm



## Suspension clamp

Type	Width	Dimension s	Hole- Ø	F in ceiling	Pack.	Weight	Item No.
	mm	mm	mm	kN	pcs	kg/100 pcs.	
<b>AHB 100 FT</b>	100	6	11	0.6	10	54.000	<b>6363 90 3</b>
<b>AHB 150 FT</b>	150	8	11	0.6	10	87.000	<b>6363 90 7</b>
<b>AHB 200 FT</b>	200	8	11	0.6	10	101.000	<b>6363 91 1</b>
<b>AHB 300 FT</b>	300	8	11	0.35	10	130.000	<b>6363 93 8</b>
<b>AHB 400 FT</b>	400	8	11	0.2	10	157.000	<b>6363 94 6</b>

**St** Steel      **FT** Hot-dip galvanised      /pc.

Ceiling bracket for cable support systems.





## TP wall and ceiling clamp

Type	Width mm	for width mm	F in kN Wall kN	F in ceiling kN	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>TPD 145 FS</b>	145	100	1.4	1.3	6	48.000	<b>6363 80 6</b>
<b>TPD 245 FS</b>	245	200	0.87	0.8	5	66.000	<b>6363 81 4</b>
<b>TPD 345 FS</b>	345	300	0.55	0.5	5	78.000	<b>6363 82 2</b>
<b>TPD 445 FS</b>	445	400	0.55	0.5	5	94.000	<b>6363 82 6</b>
<b>TPD 545 FS</b>	545	500	0.55	0.5	5	108.000	<b>6363 82 9</b>
<b>TPD 145 FT</b>	145	100	1.4	1.3	6	54.000	<b>6363 86 1</b>
<b>TPD 245 FT</b>	245	200	0.87	0.8	5	69.000	<b>6363 86 5</b>
<b>TPD 345 FT</b>	345	300	0.55	0.5	5	83.000	<b>6363 86 9</b>

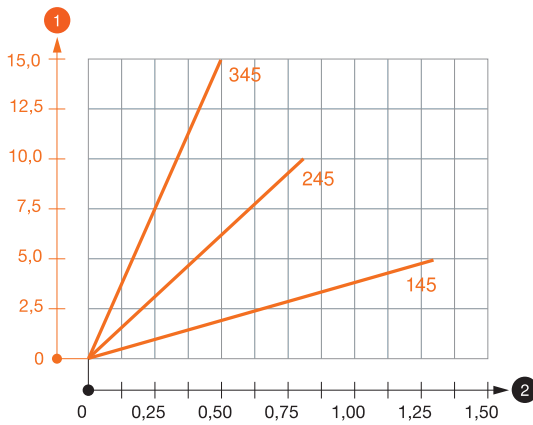
**St** Steel      **FS** Strip-galvanised      **FT** Hot-dip galvanised      /pc.

TP wall and ceiling bracket for universal use.

Important! If the bracket is fixed directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4.

Max. side height of the cable support system: 60 mm.

### Load diagram, ceiling bracket TPD

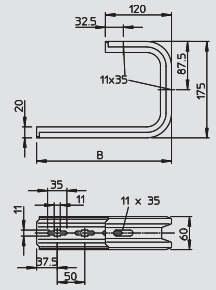


- 1 Bending of the bracket point at approved bracket load
- 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

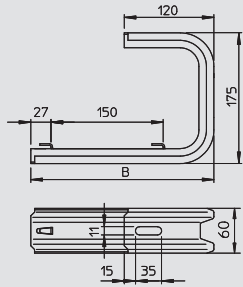
### Characteristic anchor load values for TPD wall and ceiling bracket

Anchor s	Max. total load F in kN		
	Bracket length in mm		
Appr.	145	245	345
F kN	1.50	0.90	0.55
2.4	1.50	1.20	0.80
4.3			

Max. total load F = cable weight + cable tray + ceiling bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.



TP wall and ceiling clamp

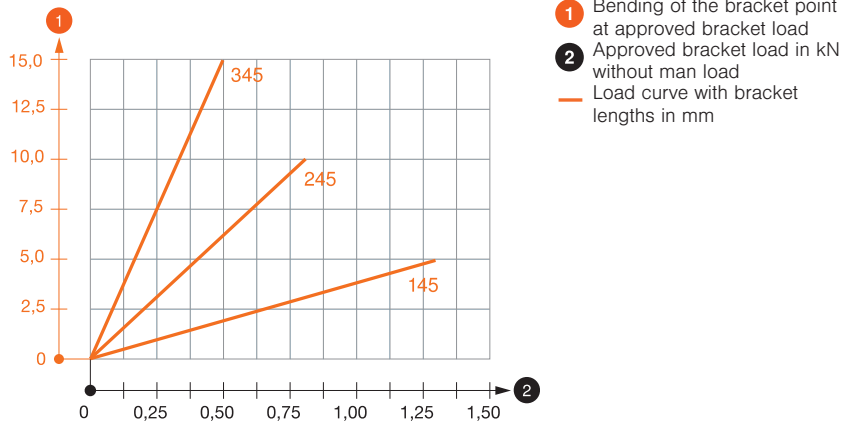


Type	Width mm	for width mm	F in kN Wall kN	F in ceiling kN	Pack. pcs	Weight kg/100 pcs.	Item No.
TPDG 145 FS	145	100	1.4	1.3	6	53.000	6365 90 6
TPDG 195 FS	195	150	1.05	0.95	6	59.000	6365 91 4
TPDG 245 FS	245	200	0.87	0.8	5	68.000	6365 92 2
TPDG 345 FS	345	300	0.55	0.5	5	81.000	6365 94 9
TPDG 145 FT	145	100	1.4	1.3	6	56.000	6365 97 7
TPDG 245 FT	245	200	0.87	0.8	5	71.000	6365 98 1
TPDG 345 FT	345	300	0.55	0.5	5	86.000	6365 98 5

St Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

TP wall and ceiling bracket with clamping lugs for screwless mesh cable tray fastening. Important! If the ceiling bracket is fastened directly to the wall or ceiling, then, for reasons of stability, always use the spacer, type DS 4. Max. side height of the cable support system 60 mm.

Load diagram, ceiling bracket TPDG



Characteristic anchor load values for TPDG wall and ceiling bracket

Single-sided bracket load			
Anchor s	Max. total load F in kN		
	Bracket length in mm		
Appr.	145	245	345
F kN	1.50	0.90	0.55
2.4	1.50	1.20	0.80
4.3			

Max. total load F = cable weight + cable tray + ceiling bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25.





## TP suspended support

Type	Length F in kN		Pack.	Weight	Item No.
	mm	kN			
<b>TPS 445 FS</b>	445	1.05	15	73.000	<b>6364 32 2</b>
<b>TPS 545 FS</b>	545	0.8	15	80.000	<b>6364 34 9</b>
<b>TPS 645 FS</b>	645	0.61	15	99.000	<b>6364 36 5</b>
<b>TPS 445 FT</b>	445	1.05	15	63.000	<b>6364 40 3</b>
<b>TPS 545 FT</b>	545	0.8	15	75.500	<b>6364 50 0</b>
<b>TPS 645 FT</b>	645	0.61	15	88.000	<b>6364 60 8</b>

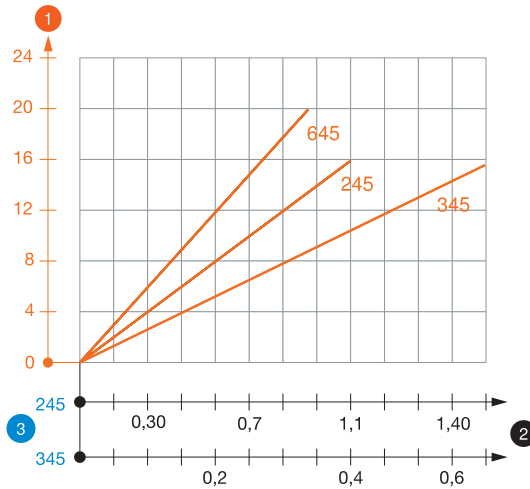
**St** Steel      **FS** Strip-galvanised      **FT** Hot-dip galvanised      /pc.

TP support for fastening to horizontal concrete ceilings.

If the support is fastened directly to the ceiling or the support is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.

Important: only use brackets of length 345 mm or less.

### Load diagram, TP supports, type TPS

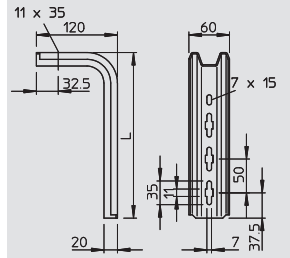


- 1 Bending of the end of the suspended support at approved bracket load
  - 2 Approved bracket load in kN without man load
  - 3 Bracket length in mm
- Load curves with support lengths in mm

### Characteristic anchor load values for TP support

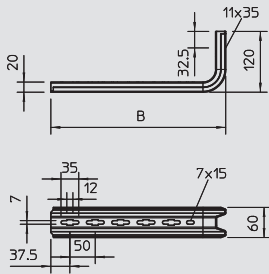
Single-sided bracket load				Double-sided bracket load			
Anchor s	Max. total load F in kN			Anchor s	Max. total load F in kN		
	Bracket length in mm				Bracket length in mm		
Appr.	145	245	345	Appr.	145	245	345
F kN	1.50	0.94	0.67	F kN	2.50	1.88	1.34
2.4	1.50	1.05	0.85	2.4	2.50	2.50	1.70
4.3				4.3			

Max. total load F = cable weight + cable tray + bracket + support. The tabular values for double-sided loads take the available axis spacing  $a_i = 17$  cm into account. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).





TP support / wall and support bracket



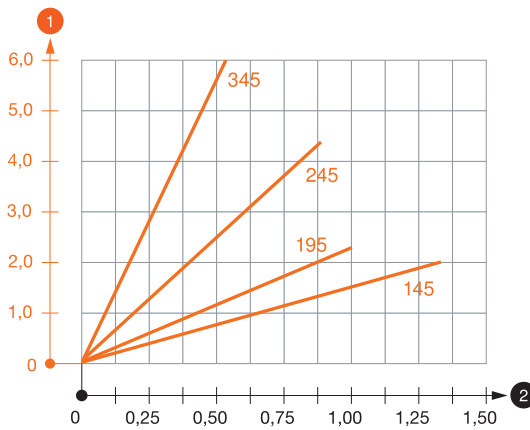
Type	Width	for	F in kN	Pack.	Weight	Item No.
TPSA 145 FS	145	100	1.5	50	32.000	6364 10 1
TPSA 195 FS	195	150	1	20	38.000	6364 15 2
TPSA 245 FS	245	200	0.9	20	45.000	6364 20 9
TPSA 345 FS	345	300	0.55	20	59.000	6364 30 6
TPSA 145 FT	145	100	1.5	50	33.000	6364 65 9
TPSA 195 FT	195	150	1	20	43.000	6364 68 3
TPSA 245 FT	245	200	0.9	20	38.000	6364 66 7
TPSA 345 FT	345	300	0.55	20	51.000	6364 67 5

St Steel FS Strip-galvanised FT Hot-dip galvanised /pc.

TP support/bracket for fixing to horizontal concrete ceilings and walls.

If the bracket is fastened directly to the ceiling or the bracket is screwed together as head reinforcement, then, for reasons of stability, always use the spacer, type DS 4.

Load diagram, bracket TPSA



Characteristic anchor load values for TP bracket

Bracket load			
Anchor	Max. total load F in kN		
	Bracket length in mm		
Appr.	145	245	345
F kN	1.50	0.90	0.55
2.4	1.50	1.20	0.80
4.3			

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).



# Universal systems



## TP support / wall and support bracket

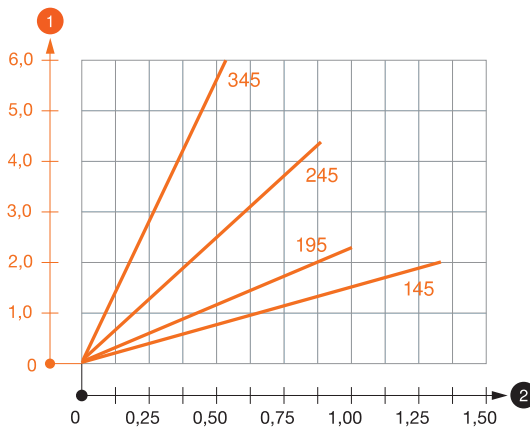
Type	Width for		F in kN	Pack.	Weight	Item No.
	mm	mm				
TPSAG 145 FS	145	100	1.5	50	33.000	6366 01 5
TPSAG 195 FS	195	150	1	20	41.000	6366 02 3
TPSAG 245 FS	245	200	0.9	20	48.000	6366 03 1
TPSAG 345 FS	345	300	0.55	20	61.000	6366 06 6
TPSAG 145 FT	145	100	1.5	50	33.000	6366 13 1
TPSAG 195 FT	195	150	1	20	42.000	6366 13 5
TPSAG 245 FT	245	200	0.9	20	49.000	6366 13 9
TPSAG 345 FT	345	300	0.55	20	65.000	6366 14 3

**St** Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

TP bracket with clamping lugs for screwless mesh cable tray fastening.

If the bracket is fastened directly to the wall or the profiles are screwed together, then, for reasons of stability, always use the spacer, type DS 4.

### Load diagram, bracket TPSAG

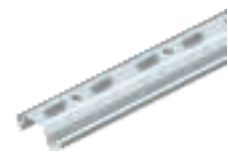
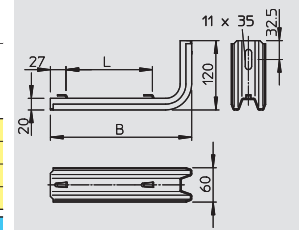


- 1 Bending of the bracket point at approved bracket load
- 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

### Characteristic anchor load values for TP bracket

		Bracket load		
Anchor s	Appr.	Max. total load F in kN		
		Bracket length in mm		
F kN		145	245	345
2.4		1.50	0.90	0.55
4.3		1.50	1.20	0.80

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).



## TP support

Type	Length	Pack.	Weight	Item No.
TPSG 3000 FS	3000	1	401.700	6366 09 0
TPSG 3000 FT	3000	1	461.000	6366 09 3

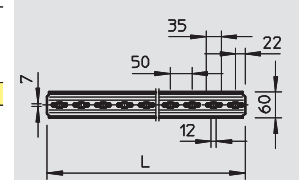
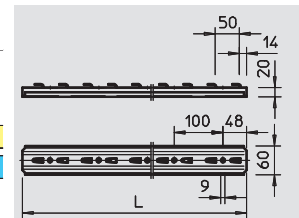
**St** Steel **FS** Strip-galvanised **FT** Hot-dip galvanised /pc.

TP profile with clamping lugs.

Type	Length	Pack.	Weight	Item No.
TPS 3000 FS	3000	1	441.000	6364 80 2

**St** Steel **FS** Strip-galvanised /pc.

TP profile, perforated, in supply length 3000 mm.

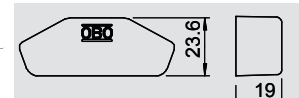


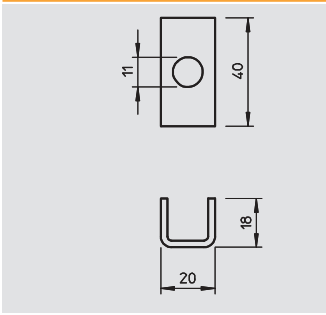
## Protective cap

Type	Colour	Pack.	Weight	Item No.
TPS KS OR	Pastel orange	10	0.700	6364 62 5

**PE** Polyethylene /pc.

Protective cap to cover ends of TP supports.





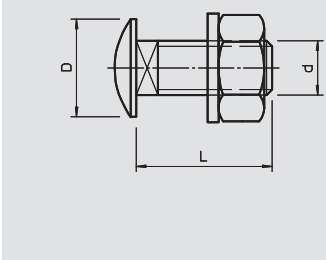
## Spacer

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>DS 4 FS</b>	20	3.700	<b>6416 55 1</b>
<b>DS 4 FT</b>	20	3.800	<b>6416 58 6</b>

**St** Steel      **FS** Strip-galvanised      **FT** Hot-dip galvanised      /pc.

Spacer for use in brackets, type TP.

For static reasons, the spacer is always used to prevent the bracket from deforming when the fastening screws are tightened.



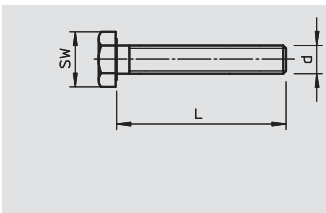
## Truss-head bolt

Type	Grade	Dimension	Dimension L	Dimension d	Dimension D	Pack.	Weight	Item No.
		mm	mm	mm	mm	pcs	kg/100 pcs.	
<b>FRS 10X25 F TPS</b>	—	M10 x 25	25	10	18	50	4.300	<b>6407 53 6</b>

**St** Steel      **F** Hot-dip galvanised      /100 pc.

Truss-head bolt with square neck. With washer and hexagonal nut.

The truss-head screw can be used in combination with hot-dip and double-dip galvanised articles.



## Hexagonal bolt

Type	Dimension	Dimension L	Dimension d	SW	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
<b>SKS 10X60 F</b>	M10 x 60	60	10	17	20	6.000	<b>6408 51 6</b>

**St** Steel      **F** Hot-dip galvanised      /100 pc.

Hexagonal bolt for universal fixing of structure components.



# U support and bracket systems



## US 3 suspended support

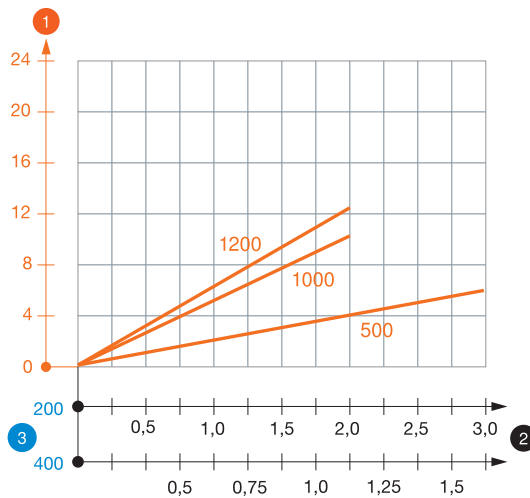
Type	Length mm	Material thickness mm	Tensile load kN	Bracket	Bracket	Pack. pcs	Weight kg/100 pcs.	Item No.
				length 200 kN	length 400 kN			
US 3 K 20 FT	200	2	5	2.7	1.5	4	50.500	6342 35 1
US 3 K 30 FT	300	2	5	2.7	1.5	4	64.400	6342 35 3
US 3 K 40 FT	400	2	5	2.7	1.5	4	78.300	6342 35 5
US 3 K 50 FT	500	2	5	2.7	1.5	4	92.300	6342 35 7
US 3 K 60 FT	600	2	5	2.1	1.1	4	106.200	6342 35 9
US 3 K 70 FT	700	2	5	2.1	1.1	4	120.200	6342 36 2
US 3 K 80 FT	800	2	5	2.1	1.1	4	134.100	6342 36 4
US 3 K 90 FT	900	2	5	2.1	1.1	4	147.800	6342 36 6
US 3 K 100 FT	1000	2	5	2.1	1.1	4	162.000	6342 36 8
US 3 K 110 FT	1100	2	5	2.1	1.1	4	175.900	6342 37 0
US 3 K 120 FT	1200	2	5	2.1	1.1	4	189.900	6342 37 2

**St** Steel **FT** Hot-dip galvanised /pc.

Suspended support (U profile) of dimensions 50 x 30 mm with welded head plate.

For fastening to horizontal concrete ceilings and steel girders. In the case of bracket mounting on both sides, or when mounting the bracket at the end of the support, use the spacer of type DSK 25.

### Load diagram, U support, type US 3 K

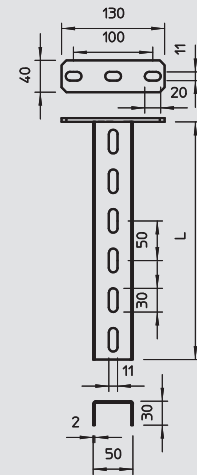


- 1 Bending of the end of the suspended support at approved bracket load
  - 2 Approved bracket load in kN without man load
  - 3 Bracket length in mm
- Load curves with support lengths in mm

### Characteristic anchor load values for US 3 K suspended support

Single-sided bracket load						Double-sided bracket load					
Anchor s	Max. total load F in kN					Anchor s	Max. total load F in kN				
	Bracket length in mm						Bracket length in mm				
Appr.	100	200	300	400	500	Appr.	100	200	300	400	500
F kN	1.68	1.26	1.00	0.83	0.70	F kN	3.00	2.56	2.25	1.95	1.70
2.4	3.06	2.31	1.85	1.50	1.25	2.4	3.00	3.00	3.00	3.00	3.00
4.3						4.3					

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing  $a_i = 10$  cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

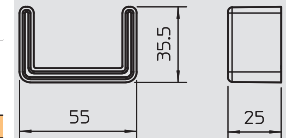


## Protective cap

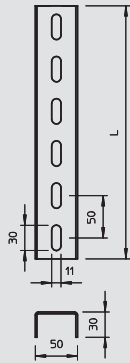
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 3 KS OR	Pastel orange	20	1.070	6338 45 8

**PE** Polyethylene /pc.

Protective cap to cover the ends of US 3 supports.



# U support and bracket systems



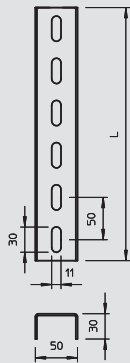
## US 3 support FS

Type	Length mm	Material thickness mm	Pack.	Weight	Item No.
			pcs	kg/100 pcs.	
<b>US 3 20 FS</b>	200	2	4	27.000	<b>6342 30 2</b>
<b>US 3 30 FS</b>	300	2	4	40.000	<b>6342 30 4</b>
<b>US 3 40 FS</b>	400	2	4	53.000	<b>6342 30 6</b>
<b>US 3 50 FS</b>	500	2	4	67.000	<b>6342 30 8</b>
<b>US 3 60 FS</b>	600	2	4	80.000	<b>6342 31 0</b>
<b>US 3 70 FS</b>	700	2	4	93.000	<b>6342 31 2</b>
<b>US 3 80 FS</b>	800	2	4	107.000	<b>6342 31 4</b>
<b>US 3 90 FS</b>	900	2	4	120.000	<b>6342 31 6</b>
<b>US 3 100 FS</b>	1000	2	4	133.000	<b>6342 31 8</b>
<b>US 3 150 FS</b>	1500	2	1	200.000	<b>6342 32 8</b>
<b>US 3 200 FS</b>	2000	2	1	266.000	<b>6342 33 8</b>
<b>US 3 300 FS</b>	3000	2	1	399.000	<b>6342 34 0</b>
<b>US 3 600 FS</b>	6000	2	1	798.000	<b>6342 34 5</b>

**St** Steel      **FS** Strip-galvanised      /pc.

U support in fixed lengths. Dimensions 30 x 50 mm.

In the case of bracket mounting on both sides, or when mounting the bracket at the end of the suspended support, use the spacer of type DSK 25.



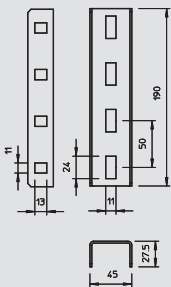
## US 3 support FT

Type	Length mm	Material thickness mm	Pack.	Weight	Item No.
			pcs	kg/100 pcs.	
<b>US 3 600 FT</b>	6000	2	4	834.000	<b>6342 45 0</b>

**St** Steel      **FT** Hot-dip galvanised      /pc.

U support in fixed lengths. Dimensions 30 x 50 mm.

In the case of bracket installation on both sides, or when installing the bracket at the end of the support, use the spacer of type DSK 25.

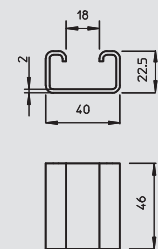
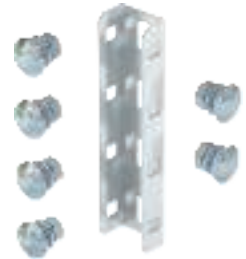


## U support connector

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>VUS 3 FT</b>	10	48.000	<b>6018 51 3</b>

**St** Steel      **FT** Hot-dip galvanised      /pc.

U support connector to connect US 3 supports.  
Including appropriate fastening material.

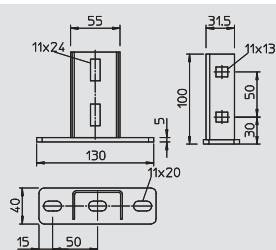


## Spacer

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>DSK 25 FT</b>	25	7.500	<b>6416 44 6</b>

**St** Steel      **FT** Hot-dip galvanised      /pc.

Spacer for use in U 3 supports.



## Head plate

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>KU 3 FT</b>	10	46.800	<b>6348 87 4</b>

**St** Steel      **FT** Hot-dip galvanised      /pc.

Head plate for mounting on US 3 supports.

The head plate can be mounted to fixed lengths of the U support, type US 3.  
Including appropriate fastening material.





# U support and bracket systems

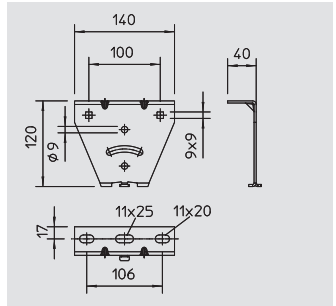
## Head plate, variable



Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>KU 3 V FS</b>	20	26.700	<b>6348 88 1</b>
<b>KU 3 V FT</b>	20	27.500	<b>6348 88 3</b>

**St** Steel      **FS** Strip-galvanised      **FT** Hot-dip galvanised      /pc.

Variable head plate for installation on US 3 supports and profile rails, type 2068.  
The variable head plate can be mounted to fixed lengths of the U support, type US 3, or profile rails, type 2068. The maximum angle adjustment is 20° on one side.



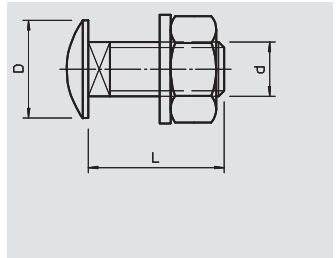
## Truss-head bolt



Type	Grade	Dimension	Dimension L	Dimension d	Dimension D	Pack.	Weight	Item No.
		mm	mm	mm	mm	pcs	kg/100 pcs.	
<b>FRS 10X25 F 8.8</b>	—	M10 x 25	25	10	24	50	4.500	<b>6407 56 0</b>

**St** Steel      **F** Hot-dip galvanised      /100 pc.

Truss-head bolt with square neck. With washer and hexagonal nut.  
The truss-head screw can be used in combination with hot-dip and double-dip galvanised articles.



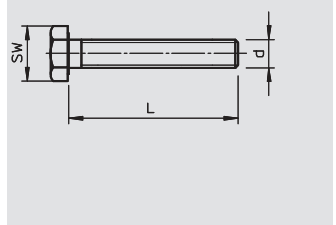
## Hexagonal bolt



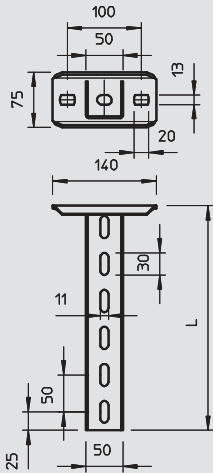
Type	Dimension	Dimension L	Dimension d	SW	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
<b>SKS 10X80 F</b>	M10 x 80	80	10	17	20	7.700	<b>6418 25 0</b>
<b>SKS 10X90 F</b>	M10 x 90	90	10	17	20	7.800	<b>6418 25 2</b>

**St** Steel      **F** Hot-dip galvanised      /100 pc.

Hexagonal bolt for universal fixing of structure components.



# U support and bracket systems



## US 5 suspended support



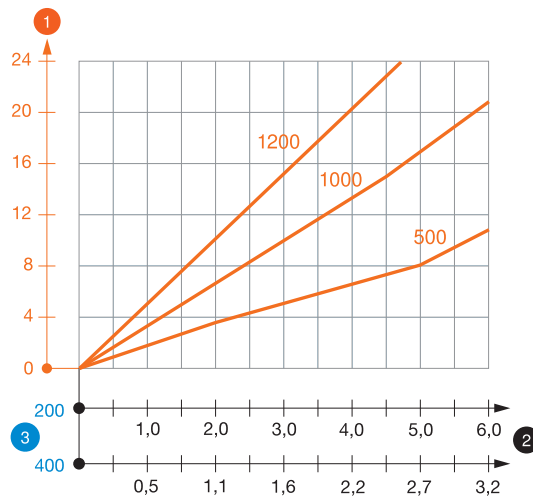
Type	Length mm	Material thickness mm	Tensile load kN	Bracket length 200 kN	Bracket length 400 kN	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 K 20 FT	200	2.5	10	5.75	3.1	2	85.000	6341 52 7
US 5 K 30 FT	300	2.5	10	5.75	3.1	2	110.000	6341 53 5
US 5 K 40 FT	400	2.5	10	5.75	3.1	2	136.000	6341 54 3
US 5 K 50 FT	500	2.5	10	5.75	3.1	2	161.000	6341 55 1
US 5 K 60 FT	600	2.5	10	5.75	3.1	2	185.000	6341 57 8
US 5 K 70 FT	700	2.5	10	5.75	3.1	2	210.000	6341 58 6
US 5 K 80 FT	800	2.5	10	5.75	3.1	2	236.000	6341 59 4
US 5 K 90 FT	900	2.5	10	5.75	3.1	2	261.000	6341 60 8
US 5 K 100 FT	1000	2.5	10	5.75	3.1	2	286.000	6341 61 6
US 5 K 110 FT	1100	2.5	10	4	2.2	2	311.000	6341 62 4
US 5 K 120 FT	1200	2.5	10	4	2.2	2	337.000	6341 63 2

**St** Steel **FT** Hot-dip galvanised /pc.

U support of dimensions 50 x 50 mm with welded head plate.

For fastening to horizontal concrete ceilings and steel girders. In the case of bracket mounting on both sides, or when mounting the bracket at the end of the support, use the spacer of type DSK 45.

### Load diagram, U support, type US 5 K



- 1 Bending of the end of the suspended support at approved bracket load
- 2 Approved bracket load in kN without man load
- 3 Bracket length in mm
- Load curves with support lengths in mm

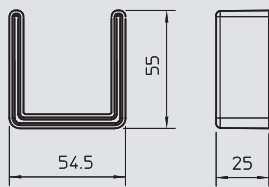
### Characteristic anchor load values for US 5 K suspended support

Single-sided bracket load					Double-sided bracket load						
Anchor s.	Max. total load F in kN				Anchor s.	Max. total load F in kN					
	Bracket length in mm					Bracket length in mm					
Appr.	100	200	300	400	Appr.	100	200	300	400	500	600
F kN	3.06	2.31	1.85	1.53	F kN	6.00	5.02	4.32	3.65	—	—
4.3	4.90	4.10	3.24	2.66	4.3	6.00	6.00	6.00	5.78	5.29	4.84
7.6					7.6						

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing  $a_i = 10$  cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).



Mounting systems



## Protective cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
US 5 KS OR	Pastel orange	20	1.300	6338 46 2

**PE** Polyethylene /pc.

Protective cap for end covering of US 5 supports.



# U support and bracket systems



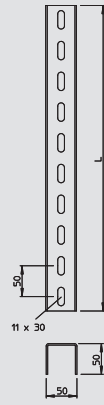
## US 5 support

Type	Length	Material thickness	Pack.	Weight	Item No.
	mm				
<b>US 5 20 FT</b>	200	2.5	4	53.000	<b>6340 88 1</b>
<b>US 5 30 FT</b>	300	2.5	4	79.000	<b>6340 90 3</b>
<b>US 5 40 FT</b>	400	2.5	4	106.000	<b>6340 91 1</b>
<b>US 5 50 FT</b>	500	2.5	4	133.000	<b>6340 93 8</b>
<b>US 5 60 FT</b>	600	2.5	4	160.000	<b>6340 94 6</b>
<b>US 5 70 FT</b>	700	2.5	4	175.000	<b>6340 95 0</b>
<b>US 5 80 FT</b>	800	2.5	4	200.000	<b>6340 95 4</b>
<b>US 5 90 FT</b>	900	2.5	4	227.000	<b>6340 95 8</b>
<b>US 5 100 FT</b>	1000	2.5	4	265.000	<b>6340 96 2</b>
<b>US 5 150 FT</b>	1500	2.5	1	395.000	<b>6340 96 6</b>
<b>US 5 200 FT</b>	2000	2.5	1	506.000	<b>6340 97 0</b>
<b>US 5 300 FT</b>	3000	2.5	1	795.000	<b>6340 98 9</b>
<b>US 5 600 FT</b>	6000	2.5	1	1578.000	<b>6340 99 7</b>

**St** Steel **FT** Hot-dip galvanised /pc.

U support in fixed lengths. Dimensions 50 x 50 mm.

In the case of bracket mounting on both sides, or when mounting the bracket at the end of the suspended support, use the spacer of type DSK 45.

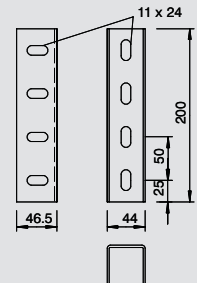


## U support connector

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>VUS 5 FT</b>	10	80.000	<b>6018 50 5</b>

**St** Steel **FT** Hot-dip galvanised /pc.

U support connector to connect US 5 supports. Including appropriate fastening material.



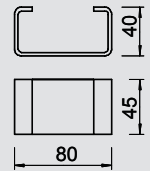
## Spacer

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>DSK 45 FT</b>	25	19.000	<b>6416 50 0</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Spacer for use in U 5 support and in the head plate, type KU 7 VQP.

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the all-round hexagonal bolt.



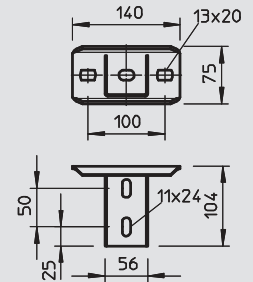
## Head plate US 5

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>KUS 5 FT</b>	10	75.000	<b>6348 90 4</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Head plate for installation in US 5 support.

When installing the head plate, please use the spacer, type DSK 45.



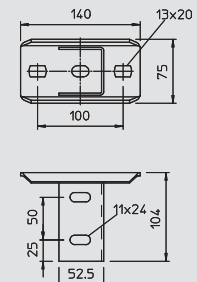
## Head plate US 5 NOK

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>KUS 5 NOK FT</b>	10	75.000	<b>6348 93 9</b>

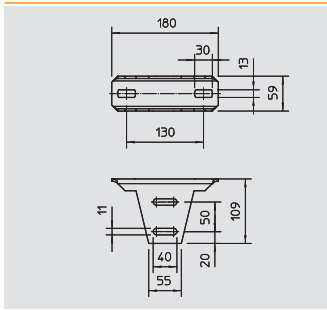
**St** Steel **FT** Hot-dip galvanised /pc.

Head plate for reverse installation in US 5 support.

When installing the head plate, please use the spacer, type DSK 45.



## U support and bracket systems



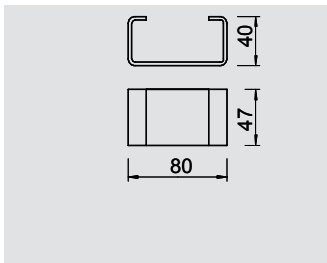
### Head plate, variable

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>KU 5 V FT</b>	4	82.000	<b>6348 92 0</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Variable head plate for mounting on US 5 support.

The spacer, type DSK 47, is used for stabilisation when mounting the head plate. The maximum angle adjustment is approx. 30° on one side.



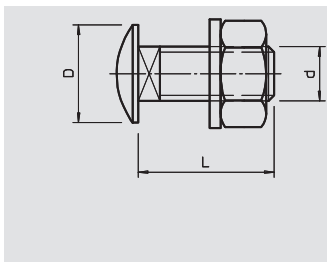
### Spacer

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>DSK 47 FT</b>	25	16.000	<b>6416 50 4</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Spacer for use in head plate, type KU 5 V.

For static reasons, the spacer is always used to increase stability to prevent the head plate from deforming when the hexagonal bolts are tightened.



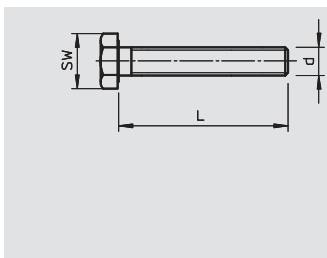
### Truss-head bolt

Type	Grade	Dimension	Dimension L	Dimension d	Dimension D	Pack.	Weight	Item No.
		mm	mm	mm	mm	pcs	kg/100 pcs.	
<b>FRS 10X25 F 8.8</b>	—	M10 x 25	25	10	24	50	4.500	<b>6407 56 0</b>

**St** Steel **F** Hot-dip galvanised /100 pc.

Truss-head bolt with square neck. With washer and hexagonal nut.

The truss-head screw can be used in combination with hot-dip and double-dip galvanised articles.



### Hexagonal bolt

Type	Dimension	Dimension L	Dimension d	SW	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
<b>SKS 10X80 F</b>	M10 x 80	80	10	17	20	7.700	<b>6418 25 0</b>
<b>SKS 10X90 F</b>	M10 x 90	90	10	17	20	7.800	<b>6418 25 2</b>
<b>SKS 10X120 F</b>	M10 x 120	120	10	17	20	13.500	<b>3160 79 3</b>

**St** Steel **F** Hot-dip galvanised /100 pc.

Hexagonal bolt for universal fixing of structure components.



# U support and bracket systems



## US 7 suspended support

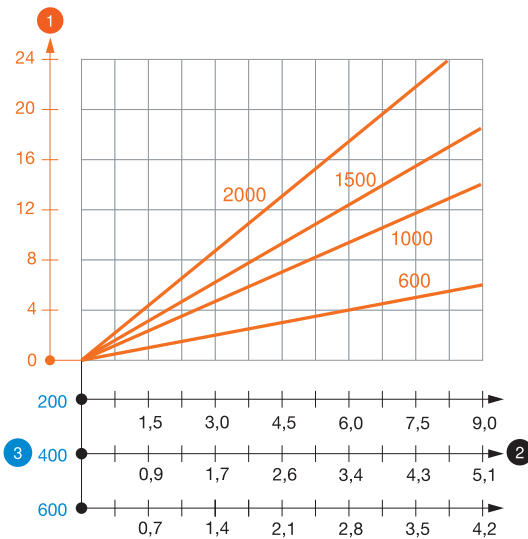
Type	Length	Material thickness	Tensile load	Bracket length 200	Bracket length 400	Bracket length 600	Pack.	Weight	Item No.
	mm	mm	kN	kN	kN	kN	pcs	kg/100 pcs.	
US 7 K 20 FT	200	4	11	8.3	5	3.5	2	176.000	6339 01 8
US 7 K 30 FT	300	4	11	8.3	5	3.5	2	216.000	6339 03 4
US 7 K 40 FT	400	4	11	8.3	5	3.5	2	257.000	6339 05 0
US 7 K 50 FT	500	4	11	8.3	5	3.5	2	297.000	6339 07 7
US 7 K 60 FT	600	4	11	8.3	5	3.5	2	337.000	6339 09 3
US 7 K 70 FT	700	4	11	8.3	5	3.5	2	378.000	6339 11 5
US 7 K 80 FT	800	4	11	8.3	5	3.5	2	418.000	6339 13 1
US 7 K 90 FT	900	4	11	8.3	5	3.5	2	458.000	6339 16 6
US 7 K 100 FT	1000	4	11	8.3	5	3.5	2	499.000	6339 18 2
US 7 K 110 FT	1100	4	11	8.3	5	3.5	2	539.000	6339 19 0
US 7 K 120 FT	1200	4	11	8.3	5	3.5	2	579.000	6339 20 4
US 7 K 130 FT	1300	4	11	8.3	5	3.5	2	620.000	6339 21 2
US 7 K 140 FT	1400	4	11	8.3	5	3.5	2	660.000	6339 22 0
US 7 K 150 FT	1500	4	11	8.3	5	3.5	2	701.000	6339 23 9
US 7 K 160 FT	1600	4	11	7.5	4.2	2.9	2	741.000	6339 24 7
US 7 K 170 FT	1700	4	11	7.5	4.2	2.9	2	781.000	6339 25 5
US 7 K 180 FT	1800	4	11	7.5	4.2	2.9	2	822.000	6339 26 3
US 7 K 190 FT	1900	4	11	7.5	4.2	2.9	2	862.000	6339 27 1
US 7 K 200 FT	2000	4	11	7.5	4.2	2.9	2	902.000	6339 29 8

**St** Steel **FT** Hot-dip galvanised /pc.

Suspended support (U profile) of dimensions 70 x 50 mm with welded head plate.

For fastening to horizontal concrete ceilings and steel girders. In the case of bracket mounting on both sides, or when mounting the bracket at the end of the suspended support, use the spacer of type DSK 61.

### Load diagram, U support, type US 7 K

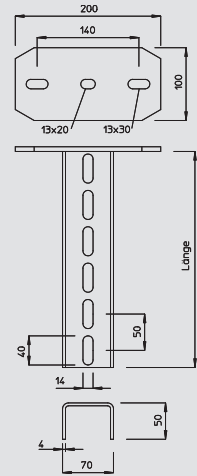


- 1 Bending of the end of the suspended support at approved bracket load
- 2 Approved bracket load in kN without man load
- 3 Bracket length in mm
- Load curves with support lengths in mm

### Characteristic anchor load values for U support, type US 7 K

Single-sided bracket load						Double-sided bracket load						
Anchor s	Max. total load F in kN					Anchor s	Max. total load F in kN					
	Bracket length in mm						Bracket length in mm					
Appr.	100	200	300	400	500	600	100	200	300	400	500	600
F kN	3.49	2.79	2.36	2.00	1.76	1.56	6.39	5.49	4.89	4.39	3.89	3.49
4.3	6.22	4.87	4.02	3.43	3.04	2.68	8.50	8.50	8.50	8.50	8.50	8.50
7.6												

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing  $a_i = 14$  cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

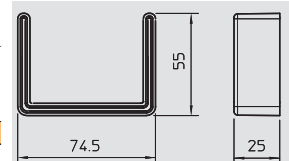


## Protective cap

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
US 7 KS OR	Pastel orange	20	1.800	6338 49 7

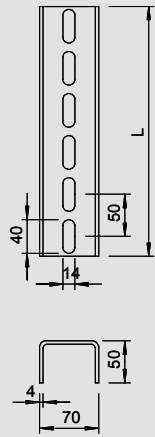
**PE** Polyethylene /pc.

Protective cap to cover the ends of US 7 supports.





# U support and bracket systems



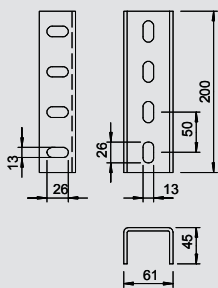
## US 7 support

Type	Length mm	Material thickness mm	Pack.	Weight	Item No.
			pcs	kg/100 pcs.	
US 7 20 FT	200	4	4	81.000	6340 01 6
US 7 30 FT	300	4	4	121.000	6340 03 2
US 7 40 FT	400	4	4	161.000	6340 05 9
US 7 50 FT	500	4	4	202.000	6340 07 5
US 7 60 FT	600	4	4	242.000	6340 09 1
US 7 70 FT	700	4	4	283.000	6340 11 3
US 7 80 FT	800	4	4	323.000	6340 14 8
US 7 90 FT	900	4	2	363.000	6340 16 4
US 7 100 FT	1000	4	2	404.000	6340 18 0
US 7 110 FT	1100	4	1	444.000	6340 19 9
US 7 120 FT	1200	4	1	484.000	6340 20 2
US 7 130 FT	1300	4	1	525.000	6340 21 0
US 7 140 FT	1400	4	1	565.000	6340 22 9
US 7 150 FT	1500	4	1	606.000	6340 23 7
US 7 160 FT	1600	4	1	646.000	6340 24 5
US 7 170 FT	1700	4	1	686.000	6340 25 3
US 7 180 FT	1800	4	1	727.000	6340 26 1
US 7 190 FT	1900	4	1	767.000	6340 28 8
US 7 200 FT	2000	4	1	807.000	6340 29 6
US 7 300 FT	3000	4	1	1211.000	6340 37 7
US 7 400 FT	4000	4	1	1615.000	6340 39 3
US 7 600 FT	6000	4	1	2422.000	6340 31 8

**St** Steel      **FT** Hot-dip galvanised      /pc.

U support in fixed lengths. Dimensions 70 x 50 mm.

In the case of bracket mounting on both sides, or when mounting the bracket at the end of the suspended support, use the spacer of type DSK 61.

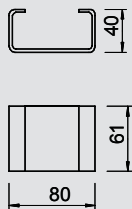


## U support connector

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
VUS 7 FT	10	114.000	6018 37 8

**St** Steel      **FT** Hot-dip galvanised      /pc.

U support connector to connect US 7 supports.  
Including appropriate fastening material.



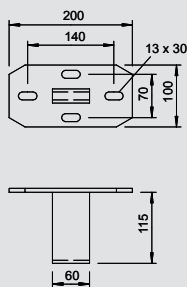
## Spacer

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
DSK 61 FT	20	26.000	6416 51 9

**St** Steel      **FT** Hot-dip galvanised      /pc.

Spacer for use in U 7 supports.

For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the hexagonal bolts.



## Head plate, light-duty version

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KU 7 FT	10	160.000	6349 10 2

**St** Steel      **FT** Hot-dip galvanised      /pc.

Light-duty head plate for mounting on US 7 support.

Please order fastening material (two hexagonal bolts SKS 12 x 80) separately.



# U support and bracket systems

Mounting systems

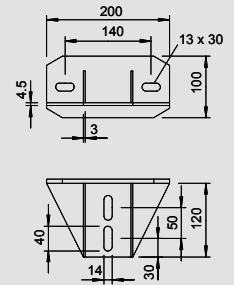


## Head plate, heavy-duty version

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>KU 7 NOX FT</b>	1	184.000	<b>6349 05 6</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Heavy-duty head plate for installation in US 7 support.  
Please order fastening material (two truss-head bolts FRS 12 x 25) separately.

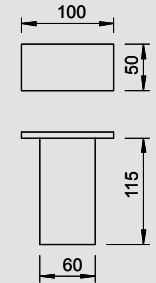


## Head plate for welding

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>KU 7 AOX FT</b>	1	82.000	<b>6349 21 8</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Head plate for US 7 support for welding on steel girder.  
Please order fastening material (two hexagonal bolts SKS 12 x 80) separately.

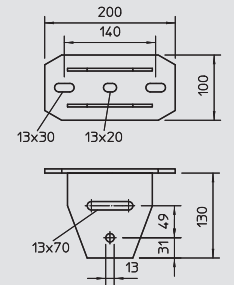


## Head plate, variable

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>KU 7 VQP FT</b>	10	180.000	<b>6349 15 3</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Variable head plate for mounting on US 7 support.  
Please order fastening material (two hexagonal bolts SKS 12 x 80 and spacer DSK 45) separately. The maximum angle adjustment is 30° on one side.

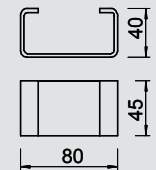


## Spacer

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>DSK 45 FT</b>	25	19.000	<b>6416 50 0</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Spacer for use in U 5 support and in the head plate, type KU 7 VQP.  
For static reasons, the spacer is always used to increase stability to prevent the support from deforming when the bracket is tightened with the all-round hexagonal bolt.



## Adapter head plate, symmetrical

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>KA-SY FT</b>	1	280.000	<b>6346 80 4</b>

**St** Steel **FT** Hot-dip galvanised /pc.

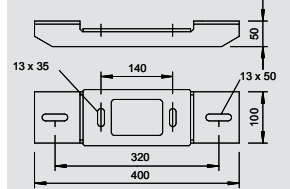
Adapter head plate, symmetrical, to increase the load capacity of supports, type US 7 K and IS 8 K.

The adapter head plate increases the load capacity of the IS 8 K and US 7 K supports, taking the characteristic anchor values into account.

### Characteristic anchor load values for adapter head plate, symmetrical

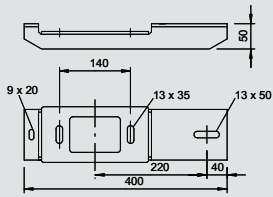
Adapter head plate, symmetrical, single-sided							Adapter head plate, symmetrical, double-sided						
Anchor s	Max. total load F in kN						Anchor s	Max. total load F in kN					
	Bracket length in mm							Bracket length in mm					
Appr.	100	200	300	400	500	600	Appr.	100	200	300	400	500	600
F kN	5.56	4.98	4.58	4.13	3.81	3.54	F kN	10.00	10.00	9.16	8.26	7.62	7.08
7.6	7.44	6.66	6.05	5.54	5.10	4.73	7.6	10.00	10.00	10.00	10.00	10.00	9.46
9.91							9.91						

Max. total load F = cable weight + cable tray + bracket + support. The tabular values for double-sided loads take the available axis spacing  $a_i = 32$  cm into account. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).



04\_KTS\_Masterkatalog\_Länder\_2012 / en / 03/04/2012 (LLEExport\_01439) / 05/04/2012

# U support and bracket systems



## Adapter head plate, asymmetrical

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>KA-ASY FT</b>	1	280.000	<b>6346 82 0</b>



**St** Steel **FT** Hot-dip galvanised /pc.

Adapter head plate, asymmetrical, to increase the load capacity of supports, type US 7 K and IS 8 K.

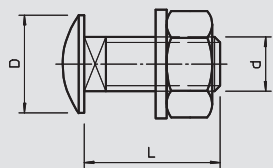
The adapter head plate increases the load capacity of the IS 8 K and US 7 K supports, taking the characteristic anchor values into account.

### Characteristic anchor load values for adapter head plate, asymmetrical

Anchor		Max. total load F in kN					
Appr.		Bracket length in mm					
F kN		100	200	300	400	500	600
7.6		4.49	4.13	3.81	3.54	2.74	2.56
9.91		6.02	5.52	5.10	4.73	4.63	3.46

Max. total load F = cable weight + cable tray + bracket + support.

The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).



## Truss-head bolt

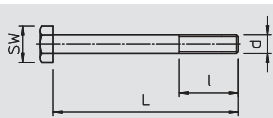
Type	Grade	Dimension mm	Dimension L mm	Dimension d mm	Dimension D mm	Pack.	Weight	Item No.
						pcs	kg/100 pcs.	
<b>FRS 12X25 F</b>		M12 x 25	25	12	30	10	6.400	<b>6406 25 4</b>



**St** Steel **F** Hot-dip galvanised /100 pc.

Truss-head bolt with square neck. With washer and hexagonal nut.

The truss-head screw can be used in combination with hot-dip and double-dip galvanised articles.



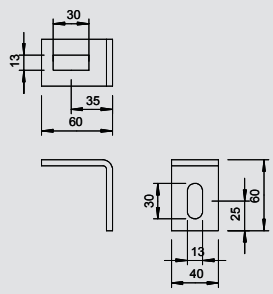
## Hexagonal bolt

Type	Dimension mm	Dimension L mm	Dimension l mm	Dimension d mm	SW mm	Pack.	Weight	Item No.
						pcs	kg/100 pcs.	
<b>SKS 12X80 F</b>	M12 x 80	80	30	12	19	20	11.800	<b>6418 28 7</b>
<b>SKS 12X100 F</b>	M12 x 100	100	30	12	19	20	12.600	<b>6418 29 5</b>
<b>SKS 12X110 F</b>	M12 x 110	110	30	12	19	20	14.500	<b>6418 31 7</b>
<b>SKS 12X130 F</b>	M12 x 130	130	36	12	19	20	15.500	<b>6408 47 8</b>



**St** Steel **F** Hot-dip galvanised /100 pc.

Hexagonal bolt with hexagonal nut, washer and toothed disc.



## Fastening bracket BW 60

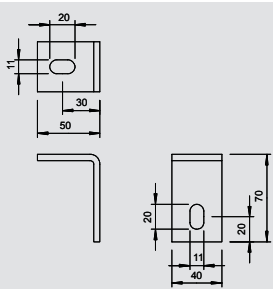
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>BW 60 40 FT</b>	10	22.000	<b>6019 56 0</b>



**St** Steel **FT** Hot-dip galvanised /pc.

Fastening bracket of limb dimension 60 x 60 mm.

Including truss-head bolt M12 x 25.



## Fastening bracket BW 70

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>BW 70 40 FT</b>	10	22.000	<b>6019 70 6</b>



**St** Steel **FT** Hot-dip galvanised /pc.

Fastening bracket of limb dimension 70 x 50 mm.

Including truss-head bolt M10 x 25.

# U support and bracket systems



## Wall and support bracket MWA 12

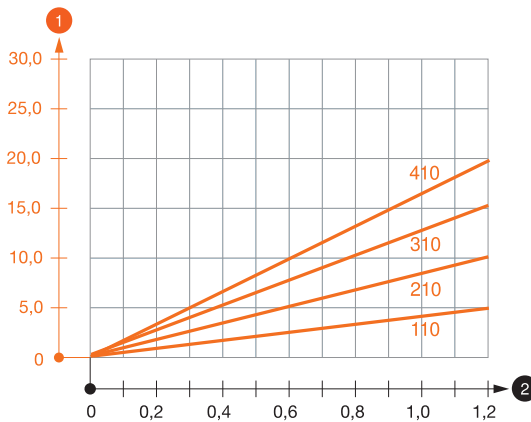
Type	Width mm	Dimen- sion H mm	Dimen- sion A mm	Hole- Ø mm	F in kN	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>MWA 12 11S FS</b>	110	53	32.5	11	1.2	30	12.700	<b>6424 71 6</b>
<b>MWA 12 21S FS</b>	210	65	32.5	11	1.2	30	24.500	<b>6424 73 2</b>
<b>MWA 12 31S FS</b>	310	75	38	11	1.2	30	57.000	<b>6424 74 0</b>
<b>MWA 12 41S FS</b>	410	83	38	11	1.2	30	68.000	<b>6424 75 9</b>

**St** Steel      **FS** Strip-galvanised      /pc.

Folded light-duty wall and support bracket.

Including truss-head bolt M10 x 25 for fastening to U supports.

### Load diagram, bracket, type MWA 12



- 1** Bending of the bracket point at approved bracket load
- 2** Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

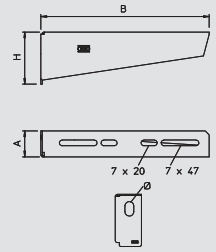
### Characteristic anchor load values for wall and support bracket MWA 12

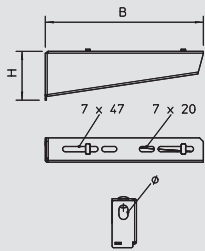
Bracket load				
Anchors	Max. total load F in kN			
	Bracket length in mm			
Appr.	100	200	300	400
F kN	0.73	0.61	0.49	0.44
2.4	1.20	1.08	0.88	0.78
4.3				

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIbt approval (anchors).

### Load values for MWA 12 on suspended support

Support	Max. total load F in kN			
	Bracket length in mm			
	100	200	300	400
US 3 K/ 20 - 60	1.20	1.20	1.20	1.20
US 3 K/ 70 - 120	1.20	1.20	1.20	1.20
US 5 K/ 20 - 60	1.20	1.20	1.20	1.20
US 5 K/ 70 - 120	1.20	1.20	1.20	1.20





## Wall and support bracket MWAM 12

Type	Width mm	Dimension H mm	Dimension A mm	Hole- Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>MWAM 12 11 FS</b>	110	53	32.5	11	1.2	30	14.300	<b>6424 55 0</b>
<b>MWAM 12 21 FS</b>	210	65	32.5	11	1.2	30	26.000	<b>6424 55 2</b>
<b>MWAM 12 31 FS</b>	310	75	38	11	1.2	30	51.900	<b>6424 55 4</b>
<b>MWAM 12 41 FS</b>	410	83	38	11	1.2	25	69.700	<b>6424 55 6</b>

**St** Steel      **FS** Strip-galvanised      /pc.

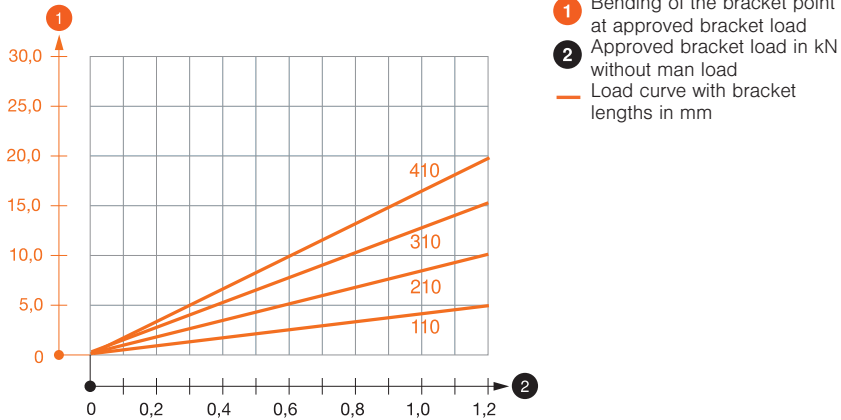


Folded light-duty wall and support bracket including quick connector.

Wall and support bracket MWAM.. including:

- Two pre-mounted quick connectors for efficient cable tray fastening.
- Truss-head bolt M10 x 25 for fastening on the U support.

### Load diagram, bracket type MWAM 12



Characteristic anchor load values for wall and support bracket MWAM 12

Bracket load				
Anchor s	Max. total load F in kN			
	Bracket length in mm			
Appr.	100	200	300	400
F kN	0.73	0.61	0.49	0.44
2.4	1.20	1.08	0.88	0.78
4.3				

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

### Load values for MWAM 12 on support

Support	Max. total load F in kN			
	Bracket length in mm			
	100	200	300	400
US 3 K/ 20 - 60	1.20	1.20	1.20	1.20
US 3 K/ 70 - 120	1.20	1.20	1.20	1.20
US 5 K/ 20 - 60	1.20	1.20	1.20	1.20
US 5 K/ 70 - 120	1.20	1.20	1.20	1.20



# U support and bracket systems



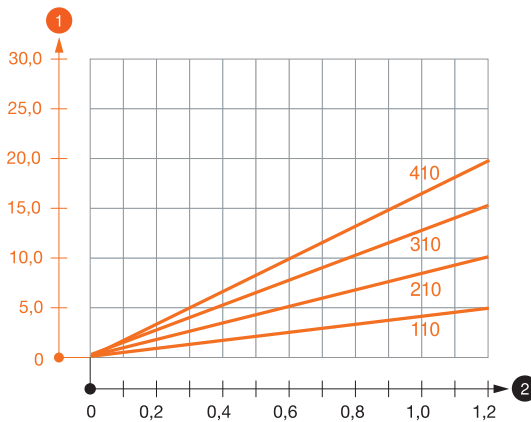
## Wall and support bracket MWAG 12

Type	Width mm	Dimen- sion H mm	Dimen- sion A mm	Hole- Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
MWAG 12 11 FS	110	53	32.5	11	1.2	30	12.700	6424 60 0
MWAG 12 21 FS	210	65	32.5	11	1.2	30	24.400	6424 60 8
MWAG 12 31 FS	310	75	38	11	1.2	30	50.300	6424 61 6
MWAG 12 41 FS	410	83	38	11	1.2	25	68.100	6424 62 4

**St** Steel      **FS** Strip-galvanised      /pc.

Folded light-duty wall and support bracket for screwless mesh cable tray fastening. Including truss-head bolt M10 x 25 for fastening to U supports.

### Load diagram, bracket type MWAG 12



- 1 Bending of the bracket point at approved bracket load
- 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

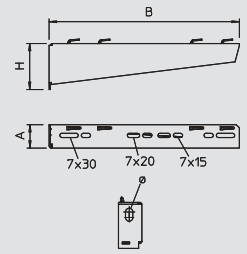
### Characteristic anchor load values for wall and support bracket MWAG 12

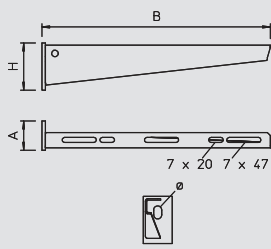
Bracket load				
Anchor s	Max. total load F in kN			
	Bracket length in mm			
Appr.	100	200	300	400
F kN	0.73	0.61	0.49	0.44
2.4	1.20	1.08	0.88	0.78
4.3				

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

### Load values for MWAG 12 on suspended support

Support	Max. total load F in kN			
	Bracket length in mm			
	100	200	300	400
US 3 K/ 20 - 60	1.20	1.20	1.20	1.20
US 3 K/ 70 - 120	1.20	1.20	1.20	1.20
US 5 K/ 20 - 60	1.20	1.20	1.20	1.20
US 5 K/ 70 - 120	1.20	1.20	1.20	1.20





## Wall and support bracket AW 15



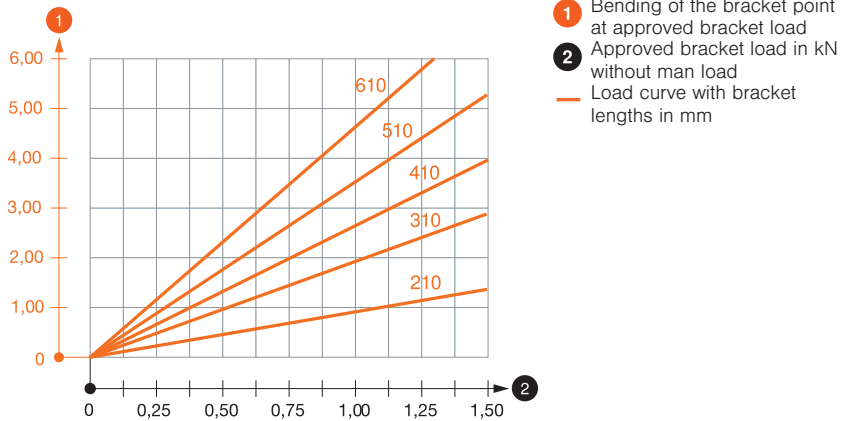
Type	Width mm	Dimen- sion H mm	Dimen- sion A mm	Hole- Ø mm	F in kN		Pack. pcs	Weight kg/100 pcs.	Item No.
<b>AW 15 11 FT</b>	110	50	40	11	1.5		30	14.500	<b>6420 65 6</b>
<b>AW 15 16 FT</b>	160	55	40	11	1.5		30	21.000	<b>6420 66 4</b>
<b>AW 15 21 FT</b>	210	60	40	11	1.5		30	26.000	<b>6420 68 0</b>
<b>AW 15 31 FT</b>	310	65	40	11	1.5		30	32.500	<b>6420 71 0</b>
<b>AW 15 41 FT</b>	410	70	40	11	1.5		30	55.000	<b>6420 74 5</b>
<b>AW 15 51 FT</b>	510	75	40	11	1.5		20	72.000	<b>6420 78 8</b>
<b>AW 15 56 FT</b>	560	80	40	11	1.5		20	77.000	<b>6420 79 6</b>
<b>AW 15 61 FT</b>	610	80	40	11	1.5		20	85.000	<b>6420 82 6</b>

**St** Steel      **FT** Hot-dip galvanised      /pc.

Light-duty wall and support bracket with welded head plate.

Fastening of the bracket to the U support of width 400 mm or greater using hexagonal bolt through both sides of the support. Please insert suitable spacers.

### Load diagram, bracket, type AW 15



Characteristic anchor load values for wall and support bracket AW 15

Anchor S		Bracket load						
		Max. total load F in kN						
F kN	Appr.	Bracket length in mm						
		100	150	200	300	400	500	600
		0.73	0.65	0.61	0.49	0.44	0.41	0.38
2.4		1.31	1.16	1.08	0.88	0.78	0.73	0.66
4.3								

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

### Load values for AW 15 on suspended support

Support	Max. total load F in kN			
	Bracket length in mm			
	100	200	300	400
US 3 K/ 20 - 60	1.50	1.50	1.30	1.30
US 3 K/ 70 - 120	1.50	1.50	1.30	1.30
US 5 K/ 20 - 60	1.50	1.50	1.50	1.50
US 5 K/ 70 - 120	1.50	1.50	1.40	1.50



# U support and bracket systems



## Wall and support bracket AWG 15

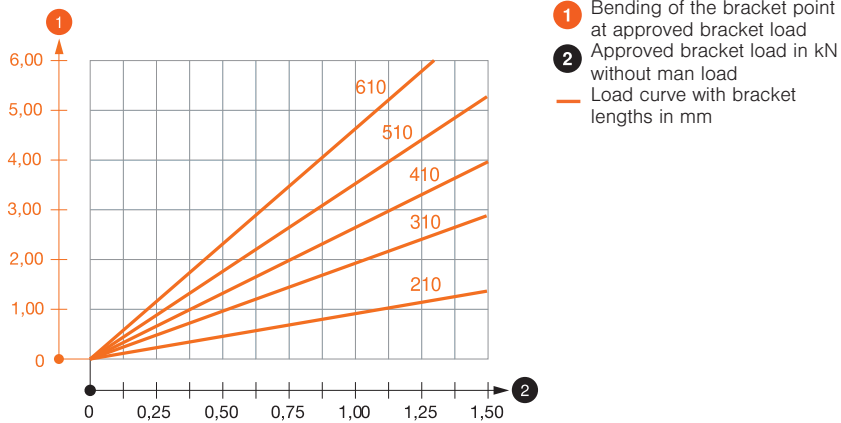
Type	Width	Dimension H	Dimension A	Hole-Ø	F in kN	Pack.	Weight	Item No.
	mm	mm	mm	mm	kN	pcs	kg/100 pcs.	
<b>AW G 15 11 FT</b>	110	50	40	11	1.5	30	14.000	<b>6420 60 6</b>
<b>AW G 15 16 FT</b>	160	55	40	11	1.5	30	20.000	<b>6420 60 7</b>
<b>AW G 15 21 FT</b>	210	60	40	11	1.5	30	26.000	<b>6420 60 8</b>
<b>AW G 15 31 FT</b>	310	65	40	11	1.5	30	35.000	<b>6420 61 0</b>
<b>AW G 15 41 FT</b>	410	70	40	11	1.5	30	56.000	<b>6420 61 2</b>
<b>AW G 15 51 FT</b>	510	75	40	11	1.5	20	69.000	<b>6420 61 4</b>
<b>AW G 15 61 FT</b>	610	80	40	11	1.5	20	84.000	<b>6420 61 6</b>

**St** Steel      **FT** Hot-dip galvanised      /pc.

Light-duty wall and support bracket with welded head plate for screwless mesh cable tray fastening.

Fastening of the bracket to the U support of width 400 mm or greater using hexagonal bolt through both sides of the support. Please insert suitable spacers.

### Load diagram, bracket type AW G 15



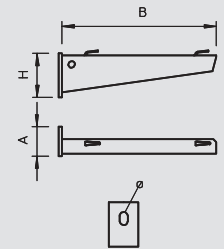
### Characteristic anchor load values for wall and support bracket AW G 15

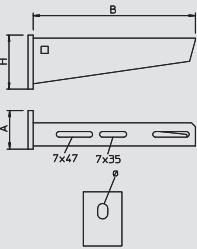
Anchor S	Bracket load						
	Max. total load F in kN						
	Bracket length in mm						
Appr.	100	150	200	300	400	500	600
F kN	0.73	0.65	0.61	0.49	0.44	0.41	0.38
2.4	1.31	1.16	1.08	0.88	0.78	0.73	0.66
4.3							

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

### Load values for AWG 15 on support

Support	Max. total load F in kN			
	Bracket length in mm			
	100	200	300	400
US 3 K/ 20 - 60	1.50	1.50	1.30	1.30
US 3 K/ 70 - 120	1.50	1.50	1.30	1.30
US 5 K/ 20 - 60	1.50	1.50	1.50	1.50
US 5 K/ 70 - 120	1.50	1.50	1.40	1.50





## Wall and support bracket AW 30



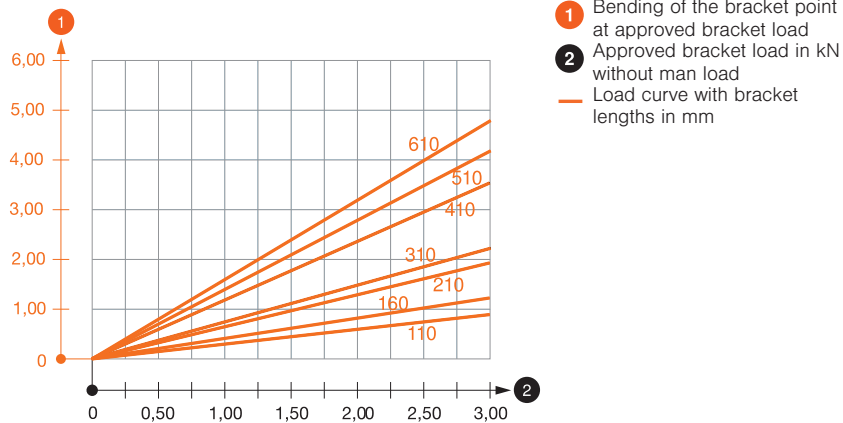
Type	Width mm	Dimen- sion H mm	Dimen- sion A mm	Hole- Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>AW 30 11 FT</b>	110	60	50	11	3	30	22.000	<b>6419 70 4</b>
<b>AW 30 16 FT</b>	160	65	50	11	3	30	34.000	<b>6419 71 2</b>
<b>AW 30 21 FT</b>	210	70	50	13	3	25	42.000	<b>6419 72 0</b>
<b>AW 30 31 FT</b>	310	80	50	13	3	25	63.000	<b>6419 74 7</b>
<b>AW 30 41 FT</b>	410	80	50	13	3	20	89.000	<b>6419 76 3</b>
<b>AW 30 51 FT</b>	510	90	50	13	3	10	132.500	<b>6419 79 8</b>
<b>AW 30 56 FT</b>	560	100	50	13	3	10	185.000	<b>6419 84 4</b>
<b>AW 30 61 FT</b>	610	100	50	13	3	10	158.000	<b>6419 82 8</b>
<b>AW 30 71 FT</b>	710	100	50	13	3	1	214.000	<b>6419 83 6</b>



**St** Steel **FT** Hot-dip galvanised /pc.

Medium-duty wall and support bracket with welded head plate.  
Fastening of the bracket to the U support of width 400 mm or greater using hexagonal bolt through both sides of the support. Please insert suitable spacers.

### Load diagram, bracket, type AW 30



Characteristic anchor load values for wall and support bracket AW 30

Anchor s	Bracket load						
	Max. total load F in kN						
	Bracket length in mm						
Appr.	100	150	200	300	400	500	600
F kN	2.00	1.49	1.35	1.19	0.92	0.89	0.89
4.3	3.00	2.65	2.39	2.11	1.61	1.58	1.58
7.6							

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

### Load values for AW 30 on suspended support

Support	Max. total load F in kN			
	Bracket length in mm			
	100	200	300	400
US 3 K/ 20 - 60	2.10	1.80	1.30	1.30
US 3 K/ 70 - 120	1.80	1.50	1.30	1.30
US 5 K/ 20 - 60	2.40	2.00	1.80	2.50
US 5 K/ 70 - 120	2.40	2.00	1.40	2.50

# U support and bracket systems



## Wall and support bracket AW 55

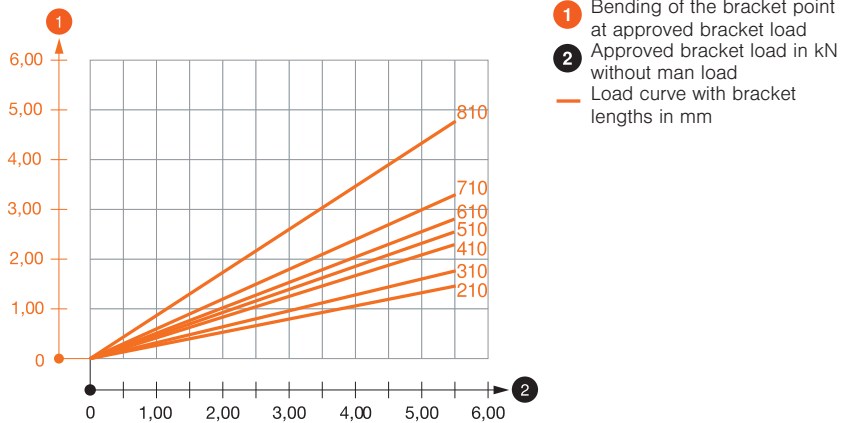
Type	Width mm	Dimen- sion H mm	Dimen- sion A mm	Hole- Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>AW 55 21 FT</b>	210	90	50	13.5	5.5	1	77.000	<b>6418 55 4</b>
<b>AW 55 31 FT</b>	310	110	50	13.5	5.5	1	123.000	<b>6418 57 0</b>
<b>AW 55 41 FT</b>	410	130	50	13.5	5.5	1	167.000	<b>6418 59 7</b>
<b>AW 55 51 FT</b>	510	145	60	13.5	5.5	1	249.000	<b>6418 61 9</b>
<b>AW 55 56 FT</b>	560	165	60	13.5	5.5	1	282.000	<b>6418 62 7</b>
<b>AW 55 61 FT</b>	610	165	60	13.5	5.5	1	305.000	<b>6418 63 5</b>
<b>AW 55 71 FT</b>	710	195	60	13.5	5.5	1	418.000	<b>6418 65 1</b>
<b>AW 55 81 FT</b>	810	195	60	13.5	5.5	1	477.000	<b>6418 68 6</b>
<b>AW 55 91 FT</b>	910	215	60	13.5	5.5	1	558.000	<b>6418 70 8</b>
<b>AW 55 101 FT</b>	1010	230	60	13.5	5.5	1	640.000	<b>6418 72 4</b>

**St** Steel      **FT** Hot-dip galvanised      /pc.

Heavy-duty wall and support bracket with welded head plate.

Fastening of the bracket to the U support of width 400 mm or greater using hexagonal bolt through both sides of the support. Please insert suitable spacers.

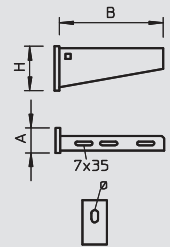
### Load diagram, bracket, type AW 55



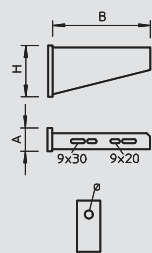
Characteristic anchor load values for wall and support bracket AW 55

Anchor s	Bracket load						
	Max. total load F in kN						
	Bracket length in mm						
Appr.	200	300	400	500	600	700	800
F kN	1.77	1.76	1.73	1.66	1.66	1.54	1.25
4.3	3.15	3.10	3.08	2.94	2.94	2.73	2.22
7.6	4.10	4.06	4.02	3.83	3.83	3.56	2.88
9.91							

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).







## Wall bracket AW 80

Type	Width mm	Dimen- sion H mm	Dimen- sion A mm	Hole- Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>AW 80 21 FT</b>	210	110	50	17.58		1	109.000	<b>6417 75 2</b>
<b>AW 80 31 FT</b>	310	145	50	17.58		1	164.000	<b>6417 77 9</b>
<b>AW 80 41 FT</b>	410	165	50	17.58		1	219.000	<b>6417 79 5</b>
<b>AW 80 51 FT</b>	510	195	60	17.58		1	364.000	<b>6417 81 7</b>
<b>AW 80 61 FT</b>	610	210	60	17.58		1	444.000	<b>6417 83 3</b>
<b>AW 80 71 FT</b>	710	235	60	17.58		1	497.000	<b>6417 86 8</b>
<b>AW 80 81 FT</b>	810	260	60	17.58		1	637.000	<b>6417 88 4</b>

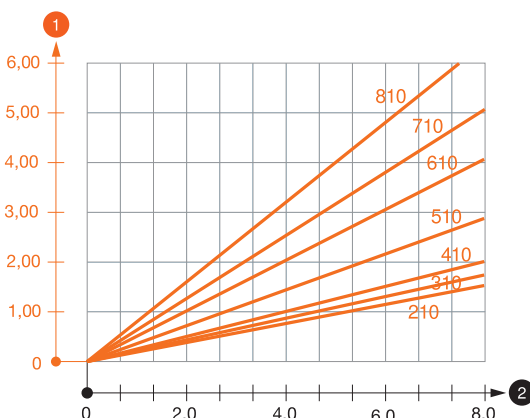


**St** Steel **FT** Hot-dip galvanised /pc.

Heavy-duty wall bracket with welded head plate.

When fastening cable trays and ladders with truss-head bolts of size M6, please order large washers separately (perforation in bracket 9 x ...).

### Load diagram, bracket type AW 80

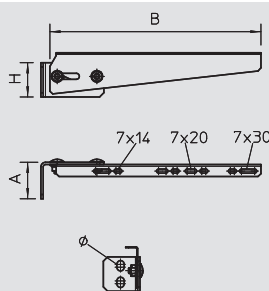


- 1 Bending of the bracket point at approved bracket load
- 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

### Characteristic anchor load values for wall bracket AW 80

Anchor s	Bracket load						
	Max. total load F in kN						
	Bracket length in mm						
Appr.	200	300	400	500	600	700	800
F kN	4.69	4.43	4.32	4.36	4.01	3.42	3.20
7.6	6.12	5.78	5.63	5.69	5.23	4.46	4.18
9.91							

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).



## Wall bracket, variable AWVL FS

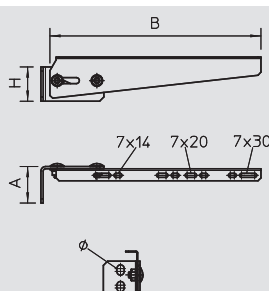
Type	Width mm	Dimen- sion H mm	Dimen- sion A mm	Hole- Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>AWVL 11 FS</b>	170	60	64	13	0.75	5	51.200	<b>6419 46 4</b>
<b>AWVL 16 FS</b>	220	60	64	13	0.65	5	55.200	<b>6419 46 8</b>
<b>AWVL 21 FS</b>	270	60	64	13	0.55	5	59.100	<b>6419 47 2</b>
<b>AWVL 31 FS</b>	370	60	64	13	0.4	5	67.200	<b>6419 47 6</b>
<b>AWVL 41 FS</b>	470	60	64	13	0.25	5	75.300	<b>6419 48 0</b>



**St** Steel **FS** Strip-galvanised /pc.

Variable wall bracket for fixing to sloping or vaulted walls.

Usable bracket length dependent on adjustment angle. The largest possible adjustment angle is 30°.



## Wall bracket, variable AWVL FT

Type	Width mm	Dimen- sion H mm	Dimen- sion A mm	Hole- Ø mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>AWVL 11 FT</b>	170	60	64	13	0.75	5	51.900	<b>6419 50 1</b>
<b>AWVL 16 FT</b>	220	60	64	13	0.65	5	56.200	<b>6419 50 5</b>
<b>AWVL 21 FT</b>	270	60	64	13	0.55	5	60.300	<b>6419 50 9</b>
<b>AWVL 31 FT</b>	370	60	64	13	0.4	5	68.900	<b>6419 51 3</b>
<b>AWVL 41 FT</b>	470	60	64	13	0.25	5	77.500	<b>6419 51 7</b>



**St** Steel **FT** Hot-dip galvanised /pc.

Variable wall bracket for fixing to sloping or vaulted walls.

Usable bracket length dependent on adjustment angle. The largest possible adjustment angle is 30°.

# U support and bracket systems



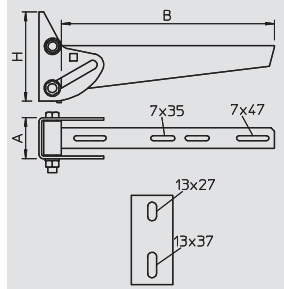
## Wall bracket, variable AWV FT

Type	Width mm	Dimen- sion H mm	Dimen- sion A mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>AWV 21 FT</b>	210	130	60	0.9	5	129.000	<b>6419 53 4</b>
<b>AWV 31 FT</b>	310	130	60	0.9	5	149.000	<b>6419 55 0</b>
<b>AWV 41 FT</b>	410	130	60	0.9	5	171.000	<b>6419 57 7</b>
<b>AWV 51 FT</b>	510	130	60	0.9	5	235.000	<b>6419 59 3</b>
<b>AWV 61 FT</b>	610	130	60	0.9	5	240.000	<b>6419 61 5</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Variable wall bracket for fixing to sloping or vaulted walls.

Usable bracket length dependent on adjustment angle. The largest possible adjustment angle is 30°.



## Wall and clamping bracket AWSS

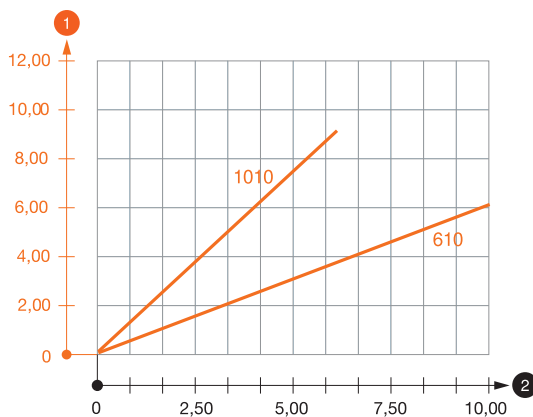
Type	Width mm	Dimen- sion H mm	Dimen- sion A mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>AWSS 21 FT</b>	210	335	400	10	1	323.000	<b>6417 90 6</b>
<b>AWSS 31 FT</b>	310	335	400	10	1	553.000	<b>6417 91 0</b>
<b>AWSS 41 FT</b>	410	335	400	10	1	598.000	<b>6417 91 4</b>
<b>AWSS 51 FT</b>	510	335	400	10	1	693.000	<b>6417 91 8</b>
<b>AWSS 61 FT</b>	610	335	400	10	1	763.000	<b>6417 92 2</b>
<b>AWSS 71 FT</b>	710	335	400	8	1	840.000	<b>6417 92 6</b>
<b>AWSS 81 FT</b>	810	341	400	7	1	923.000	<b>6417 93 0</b>
<b>AWSS 91 FT</b>	910	366	400	6.5	1	1020.000	<b>6417 93 4</b>
<b>AWSS 101 FT</b>	1010	359	400	6	1	1134.000	<b>6417 93 8</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Wall bracket, heavy-duty.

The heavy-duty wall bracket can be used in combination with wide span systems, or for large support spacings of cable tray or cable ladder systems.

### Load diagram, bracket type AWSS



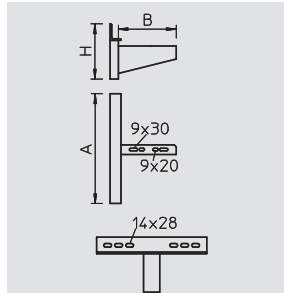
- 1 Bending of the bracket point at approved bracket load
- 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

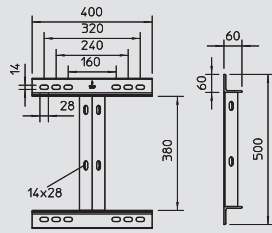
### Characteristic anchor load values for wall and clamping bracket AWSS

Bracket load					
Anchor s	Max. total load F in kN				
	Bracket width in mm				
Appr.	200-600	700	800	900	1000
F kN	10.00	8.00	7.00	6.50	6.00
7.6	10.00	8.00	8.00	6.50	6.00
9.91					

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. Observe the load capacity of the brackets (diagram) and the installation conditions of the DIBt approval (anchors).

The testing of the widths 710–1010 mm took place at the maximum route width (600 mm) with the load at the end of the bracket.





## Adapter plate

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
<b>KA-E 45 FT</b>	400	1	618.000	<b>6346 75 8</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Adapter plate with slots for universal fastening to vertical steel girders and walls. Wall and support brackets are screwed to the adapter plate at a 45° angle.

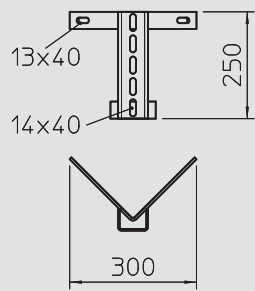
To support cable support systems in building corners and jumps. The hexagonal bolts, type SKS 12 x 40 GF, are used to fasten the brackets to the adapter plate. Please order the appropriate quantity.

### Characteristic anchor load values for adapter plate

Adapter plate, bracket load				
	Anchor	Max. total load F in kN		
	s	KA-E 45 with bracket:		
	Appr.	AW 30	AW 55	AW 80
	F kN	3.00	5.50	8.00
	7.6			

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. Observe the load capacity of the brackets (diagram) and the installation conditions of the DIBt approval (anchors). Mounting information:

When using this component, please order a bracket which is 500 mm longer than the width of the tray/ladder.



## Corner seat

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>KA-EA FT</b>	2	201.000	<b>6346 76 3</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Corner seat with welded U profile for fastening to 90° external corners. Wall and support brackets are screwed to the U profile.



# I support systems

Mounting systems



## IS 8 suspended support

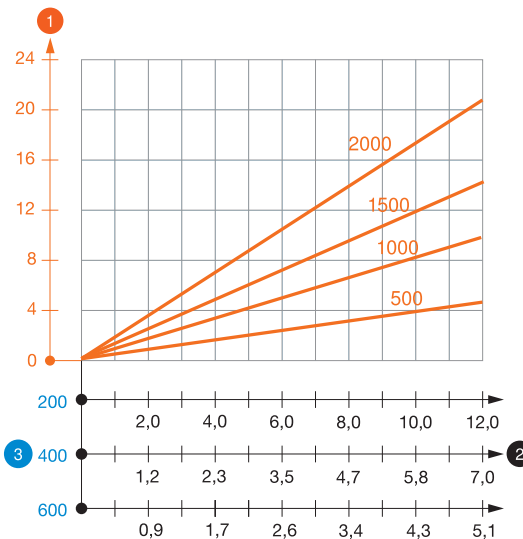
Type	Length	Tensile load	Bracket length 200	Bracket length 400	Bracket length 600	Pack. pcs	Weight kg/100 pcs.	Item No.
	mm	kN	kN	kN	kN			
IS 8 K 20 FT	200	12	9.6	7	5	2	209.000	6361 02 1
IS 8 K 30 FT	300	12	9.6	7	5	5	265.000	6361 05 6
IS 8 K 40 FT	400	12	9.6	7	5	1	325.000	6361 07 2
IS 8 K 50 FT	500	12	9.6	7	5	1	383.000	6361 09 9
IS 8 K 60 FT	600	12	9.6	7	5	1	441.000	6361 11 0
IS 8 K 70 FT	700	12	9.6	7	5	1	499.000	6361 13 7
IS 8 K 80 FT	800	12	9.6	7	5	1	557.000	6361 15 3
IS 8 K 90 FT	900	12	9.6	7	5	1	615.000	6361 18 8
IS 8 K 100 FT	1000	12	9.6	7	5	1	673.000	6361 21 8
IS 8 K 110 FT	1100	12	9.6	7	5	1	731.000	6361 23 4
IS 8 K 120 FT	1200	12	9.6	7	5	1	789.000	6361 25 0
IS 8 K 130 FT	1300	12	9.6	7	5	1	847.000	6361 27 7
IS 8 K 140 FT	1400	12	9.6	7	5	1	905.000	6361 29 3
IS 8 K 150 FT	1500	12	9.6	7	5	1	963.000	6361 31 5
IS 8 K 160 FT	1600	12	9.6	7	5	1	1021.000	6361 33 1
IS 8 K 170 FT	1700	12	9.6	7	5	1	1079.000	6361 36 6
IS 8 K 180 FT	1800	12	9.6	7	5	1	1137.000	6361 38 2
IS 8 K 200 FT	2000	12	9.6	7	5	1	1253.000	6361 42 0

**St** Steel **FT** Hot-dip galvanised /pc.

I suspended support with welded head plate. For fastening to horizontal concrete ceilings and steel girders.

Single and double-sided brackets of type AS 15, AS 30 and AS 55 can be fastened to the IS 8 K suspended support. The height of the brackets is infinitely adjustable.

### Load diagram, I support, type IS 8 K

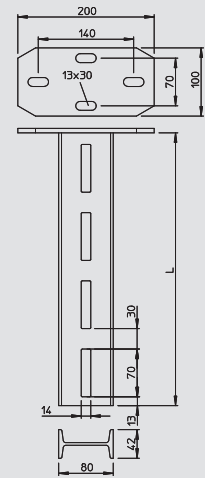


- 1 Bending of the end of the suspended support at approved bracket load
- 2 Approved bracket load in kN without man load
- 3 Bracket length in mm
- Load curves with support lengths in mm

### Characteristic anchor load values for IS 8 K suspended support

Single-sided bracket load							Double-sided bracket load						
Anchor s	Max. total load F in kN						Anchor s	Max. total load F in kN					
	Bracket length in mm							Bracket length in mm					
Appr.	100	200	300	400	500	600	Appr.	100	200	300	400	500	600
F kN	3.45	2.75	2.32	1.95	1.72	1.52	F kN	6.35	5.45	4.85	4.35	3.85	3.45
4.3	6.18	4.73	3.98	3.39	3.00	2.64	4.3	10.00	9.55	8.81	7.90	7.26	6.76
7.6	8.20	6.45	5.35	4.55	3.95	3.55	7.6	10.00	10.00	10.00	10.00	9.45	8.85
9.91							9.91						

Max. total load F = cable weight + cable tray + bracket + suspended support. The tabular values for double-sided loads take the available axis spacing  $a_i = 14$  cm into account. The load capacity values increase considerably when used in uncracked concrete. The specified values are based on concrete of resistance class C20/25. Comply with the installation conditions of the DIBt approval (anchors).

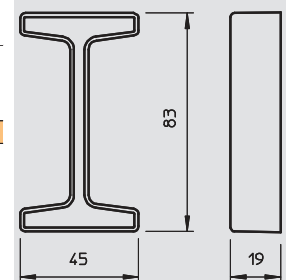


## Protective cap

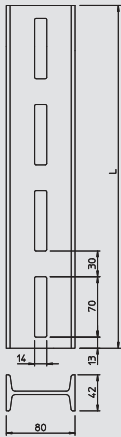
Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
IS 8 KS OR	Pastel orange	20	0.800	6338 51 9

**PE** Polyethylene /pc.

Protective cap for end cover of IS 8 supports.



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IS 8 support

Type	Length	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
IS 8 30 FT	300	5	171.000	6337 03 1
IS 8 40 FT	400	5	229.000	6337 05 8
IS 8 50 FT	500	2	286.000	6337 06 6
IS 8 60 FT	600	1	344.000	6337 07 4
IS 8 70 FT	700	1	402.000	6337 08 2
IS 8 80 FT	800	1	459.000	6337 09 0
IS 8 90 FT	900	1	517.000	6337 10 4
IS 8 100 FT	1000	1	575.000	6337 11 2
IS 8 110 FT	1100	1	632.000	6337 12 0
IS 8 120 FT	1200	1	690.000	6337 13 9
IS 8 130 FT	1300	1	748.000	6337 14 7
IS 8 140 FT	1400	1	806.000	6337 15 5
IS 8 150 FT	1500	1	863.000	6337 16 3
IS 8 160 FT	1600	1	921.000	6337 17 1
IS 8 170 FT	1700	1	979.000	6337 19 8
IS 8 180 FT	1800	1	1036.000	6337 20 1
IS 8 190 FT	1900	1	1094.000	6337 22 8
IS 8 200 FT	2000	1	1152.000	6337 23 6
IS 8 300 FT	3000	1	1730.000	6337 24 4
IS 8 600 FT	6000	1	3460.000	6337 25 2

St Steel FT Hot-dip galvanised /pc.

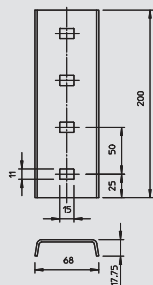
I support in fixed lengths. Dimensions 80 x 42 mm.

Single and double-sided brackets of type AS 15, AS 30 and AS 55 can be fastened to the IS 8 I support. The height of the brackets is infinitely adjustable.

Characteristic anchor load values for IS 8 suspended support

Wall fastening / entire length							Side fastening on girder								
Anchor s	Max. total load F in kN						Anchor s	Max. total load F in kN							
	Bracket length in mm							Bracket length in mm							
	Appr.	100	200	300	400	500		600	Appr.	100	200	300	400	500	600
	F kN	7.80	6.78	5.95	5.17	4.64		4.14	F kN	9.73	8.22	7.02	6.14	5.47	4.92
4.3	11.35	8.25	7.63	7.11	6.47	5.38	4.3	12.53	10.98	8.52	7.65	6.78	6.13		
7.6							7.6								

Max. total load F = cable weight + cable tray + bracket + support. The load capacity values increase considerably when used in uncracked concrete. Observe the load capacity of the brackets (diagram) and the installation conditions of the DIBt approval (anchors).



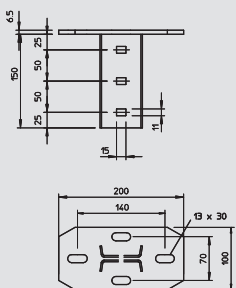
I support connector

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
VIS 8 FT	5	87.000	6018 30 0

St Steel FT Hot-dip galvanised /pc.

I support connector to connect IS 8 supports.

Including appropriate fastening material.



Head plate, lengthwise

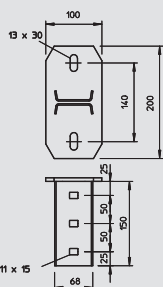
Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KI 8 FT	10	155.000	6347 05 3

St Steel FT Hot-dip galvanised /pc.

Head plate for mounting on IS 8 support. The cable trays and ladders run in a straight direction.

Including appropriate fastening material.

Limit the length of the support to max. 2000 mm.



Head plate, crosswise

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
KI 8 NOK FT	10	163.000	6347 06 1

St Steel FT Hot-dip galvanised /pc.

Head plate for installation in IS 8 support. The cable trays and ladders run in a transverse direction.

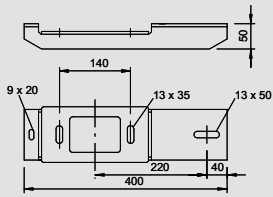
Including appropriate fastening material.

Limit the length of the support to max. 2000 mm.









## Adapter head plate, asymmetrical

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>KA-ASY FT</b>	1	280.000	<b>6346 82 0</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Adapter head plate, asymmetrical, to increase the load capacity of supports, type US 7 K and IS 8 K.

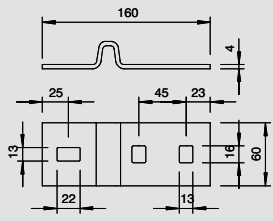
The adapter head plate increases the load capacity of the IS 8 K and US 7 K supports, taking the characteristic anchor values into account.

### Characteristic anchor load values for adapter head plate, asymmetrical

Adapter head plate, asymmetrical, single-sided						
Anchor s	Max. total load F in kN					
	Bracket length in mm					
Appr:	100	200	300	400	500	600
F kN	4.49	4.13	3.81	3.54	2.74	2.56
7.6	6.02	5.52	5.10	4.73	4.63	3.46
9.91						

Max. total load F = cable weight + cable tray + bracket + support.

The load capacity values increase considerably when used in uncracked concrete. The values given are based on concrete of strength class C20/25. Observe the installation conditions of the DIBt approval (anchors).

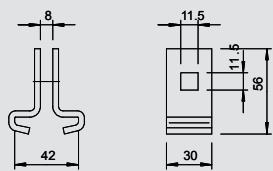


## Support strap

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>AHIS 8 FT</b>	10	89.000	<b>6019 06 4</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Support strap for right-angled connection of I supports. Including appropriate fastening material.



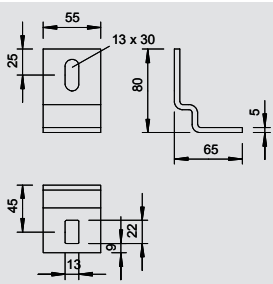
## Support claw

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>TGK 30 42 FT</b>	10	17.000	<b>6018 96 3</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Support claw with truss-head bolt, type FRS M10 x 25 for mounting on the IS 8 support.

The support claw can also be used in conjunction with the heavy-duty ladder, type SLS 80.



## Mounting angle

Type	Pack.	Weight	Item No.
	pcs	kg/100 pcs.	
<b>BW 80 55 FT</b>	10	26.400	<b>6019 52 8</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Mounting angle for mounting IS 8 supports on the wall.

The mounting angle can also be used in conjunction with the heavy-duty vertical ladder, type SLS 80.

Including fastening bolt M12x30.



# I support systems



## Support bracket AS 15

Type	Width mm	Dimen- sion H mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AS 15 11 FT	110	50	1.5	30	21.500	6421 32 6
AS 15 16 FT	160	55	1.5	30	26.500	6421 33 4
AS 15 21 FT	210	60	1.5	25	32.000	6421 35 0
AS 15 31 FT	310	65	1.5	25	42.000	6421 38 5
AS 15 41 FT	410	70	1.5	30	59.000	6421 42 3
AS 15 51 FT	510	75	1.5	10	73.000	6421 46 6
AS 15 61 FT	610	80	1.5	10	90.000	6421 49 0

**St** Steel **FT** Hot-dip galvanised

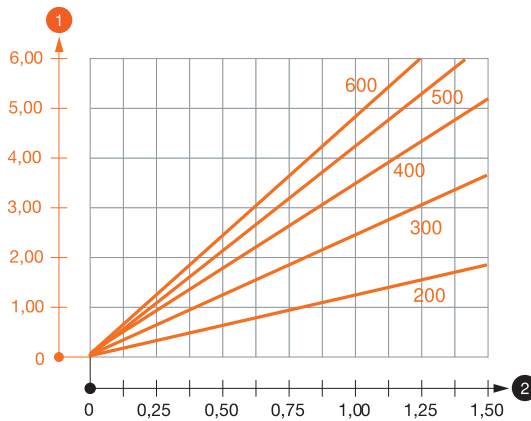
/pc.

Light-duty support bracket for infinitely adjustable fastening on IS 8 support.

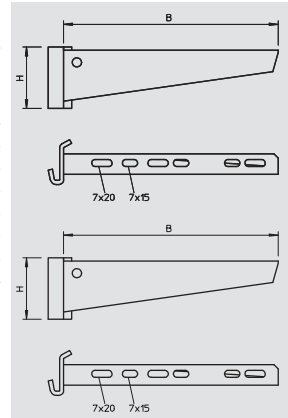
The support bracket can be fastened to both sides of the I support.

Tensioning hooks, including nuts and washer, can also be ordered individually under item number 6437184.

### Load diagram, bracket type AS 15



- 1 Bending of the bracket point at approved bracket load
- 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm



## Support bracket AS 30

Type	Width mm	Dimen- sion H mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AS 30 11 FT	110	60	3	30	30.000	6418 75 9
AS 30 16 FT	160	65	3	30	37.000	6418 76 7
AS 30 21 FT	210	70	3	25	44.000	6418 77 5
AS 30 31 FT	310	80	3	25	78.000	6418 79 1
AS 30 41 FT	410	80	3	20	100.000	6418 81 3
AS 30 51 FT	510	90	3	10	140.000	6418 84 8
AS 30 56 FT	560	100	3	10	155.000	6418 85 6
AS 30 61 FT	610	100	3	10	168.000	6418 86 4
AS 30 71 FT	710	100	3	1	214.000	6418 87 2

**St** Steel **FT** Hot-dip galvanised

/pc.

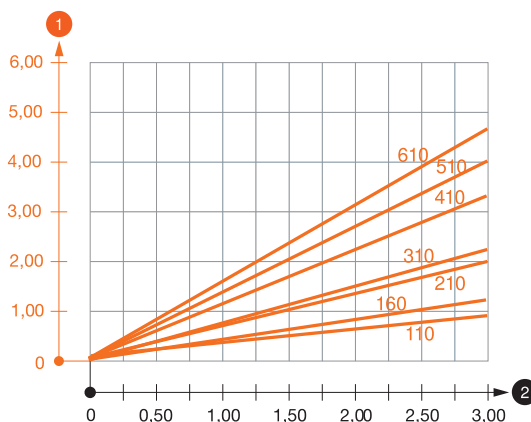
Medium-duty support bracket for infinitely adjustable fastening on IS 8 support.

The support bracket can be fastened to both sides of the I support. The clamping lug, including nut and washer can also be ordered separate.

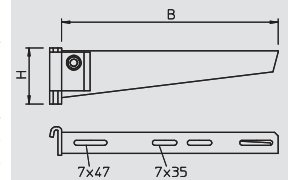
For width 110 to 210, please order them under item number 6418961.

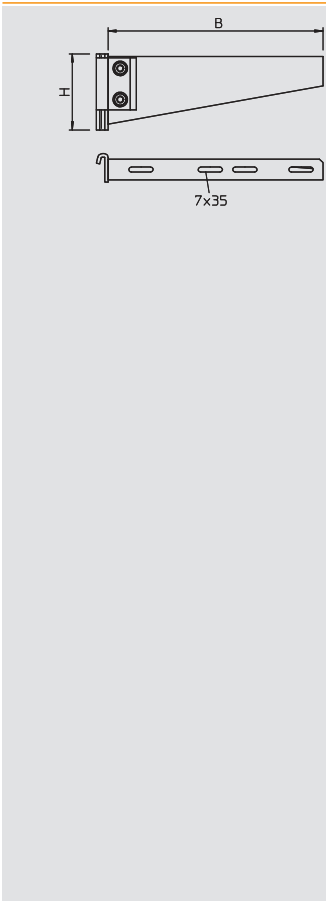
For width 310 to 610, please order them under item number 6419003.

### Load diagram, bracket type AS 30



- 1 Bending of the bracket point at approved bracket load
- 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm





Support bracket AS 55

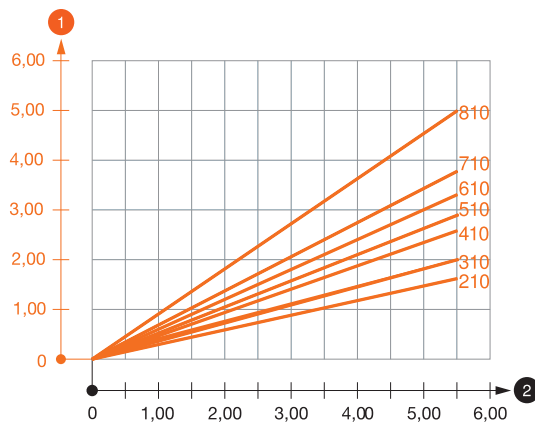


Type	Width mm	Dimension H mm	F in kN kN	Pack. pcs	Weight kg/100 pcs.	Item No.
AS 55 21 FT	210	90	5.5	1	81.000	6419 04 6
AS 55 31 FT	310	110	5.5	1	133.000	6419 06 2
AS 55 41 FT	410	130	5.5	1	173.000	6419 08 9
AS 55 51 FT	510	145	5.5	1	233.000	6419 10 0
AS 55 56 FT	560	165	5.5	1	260.000	6419 11 9
AS 55 61 FT	610	165	5.5	1	283.000	6419 12 7
AS 55 71 FT	710	195	5.5	1	385.000	6419 14 3
AS 55 81 FT	810	195	5.5	1	444.000	6419 17 8
AS 55 91 FT	910	195	5.5	1	517.000	6419 19 4
AS 55 101 FT	1010	195	5.5	1	595.000	6419 20 8

St Steel FT Hot-dip galvanised /pc.

Heavy-duty support bracket for infinitely adjustable fastening on IS 8 support.  
The support bracket can be fastened to both sides of the I support.

Load diagram, bracket type AS 55



- 1 Bending of the bracket point at approved bracket load
- 2 Approved bracket load in kN without man load
- Load curve with bracket lengths in mm

# Clamp fastening systems

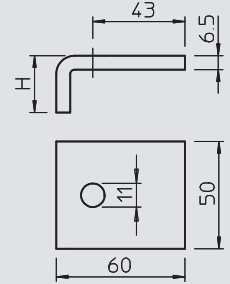


## Clamping lug

Type	Height mm	Bolt	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>KL1 10 S FT</b>	10	M10 x 40	10	22.500	<b>6354 10 6</b>
<b>KL1 15 S FT</b>	15	M10 x 50	10	24.000	<b>6354 11 4</b>
<b>KL1 20 S FT</b>	20	M10 x 50	10	25.000	<b>6354 12 2</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Clamping lug, type KL1, to fasten light support structures to steel girder flanges. Choose the clamping lug according to the thickness of the flange.

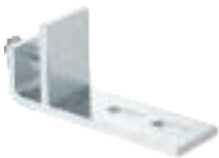
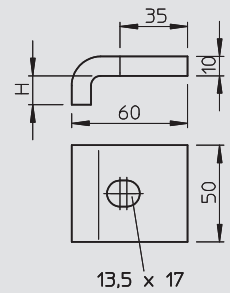


## Clamping angle KWH

Type	Height mm	F in kN kN	Bolt	Pack. pair	Weight kg/100 pairs	Item No.
<b>KWH 5 FT</b>	5	5.7	M12 x 40	10	63.000	<b>6355 02 1</b>
<b>KWH 10 FT</b>	10	5.7	M12 x 50	10	68.000	<b>6355 04 8</b>
<b>KWH 15 FT</b>	15	5.7	M12 x 50	10	70.000	<b>6355 05 6</b>
<b>KWH 20 FT</b>	20	5.7	M12 x 60	10	76.000	<b>6355 06 4</b>
<b>KWH 25 FT</b>	25	5.7	M12 x 60	10	80.000	<b>6355 07 2</b>

**St** Steel **FT** Hot-dip galvanised /pair

Clamping angle, with hammer-head bolt, type KWH, for fixing in the mounting rail, type CPS 5. Choose the clamping angle according to the thickness of the flange. The clamping angle is used in conjunction with profile rails of slot width 22 mm (e.g. type CPS 5).

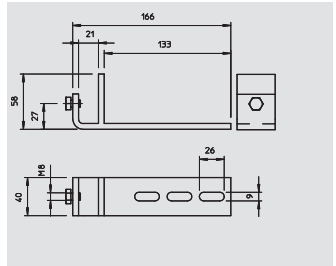


## Beam clamp, vertical BFK 166

Type	Dimen- sion B mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>BFK 166 58 20 FT</b>	166	133	20	45.000	<b>6003 88 8</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Beam clamp for clamping on the steel girder. The cable support system attached to the beam clamp is vertical routing.

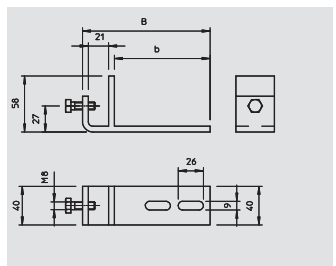


## Beam clamp, vertical BFK 132

Type	Dimen- sion B mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>BFK 132 58 FT</b>	132	99	25	39.000	<b>6003 88 0</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Beam clamp for clamping on the steel girder. The cable support system attached to the beam clamp is vertical routing.

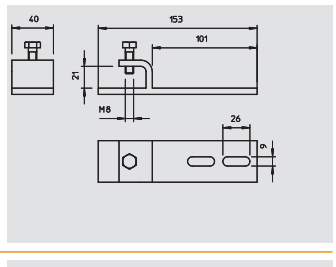


## Beam clamp, horizontal BFK 153

Type	Dimen- sion B mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>BFK 153 33 FT</b>	153	101	25	37.000	<b>6003 88 4</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Beam clamp for clamping on the steel girder. The cable support system attached to the beam clamp is horizontal routing.

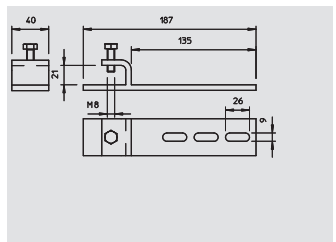


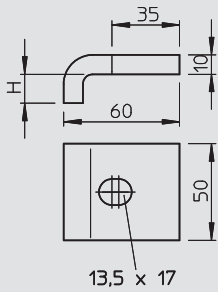
## Beam clamp, horizontal BFK 187

Type	Dimen- sion B mm	Dimen- sion b mm	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>BFK 187 33 FT</b>	187	135	20	43.000	<b>6003 89 2</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Beam clamp for clamping on the steel girder. The cable support system attached to the beam clamp is horizontal routing.





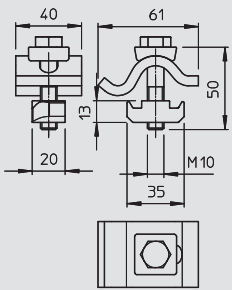
## Clamping angle KWS

Type	Height mm	F in kN		Bolt	Pack. pair	Weight kg/100 pairs	Item No.
		mm	kN				
<b>KWS 5 FT</b>	5	5.7	M12 x 40	10	63.000	<b>6355 21 8</b>	
<b>KWS 10 FT</b>	10	5.7	M12 x 50	10	68.000	<b>6355 22 6</b>	
<b>KWS 15 FT</b>	15	5.7	M12 x 50	10	70.000	<b>6355 23 4</b>	
<b>KWS 20 FT</b>	20	5.7	M12 x 60	10	76.000	<b>6355 24 2</b>	
<b>KWS 25 FT</b>	25	5.7	M12 x 60	10	80.000	<b>6355 25 0</b>	

**St** Steel **FT** Hot-dip galvanised /pair

Clamping angle, with hexagonal bolt, type KWS, for direct fixing of constructions to steel girder flanges.

Choose the clamping angle according to the thickness of the flange.



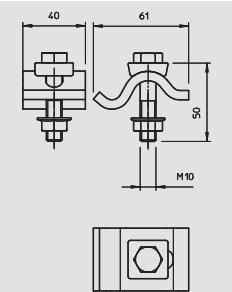
## Chuck jaw, light TKH

Type	Height mm	F in kN		Pack. pair	Weight kg/100 pairs	Item No.
		mm	kN			
<b>TKH-L-25 FT</b>	25	10		10	46.000	<b>6355 81 2</b>

**St** Steel **FT** Hot-dip galvanised /pair

Chuck jaw with slide nut for fixing profile rails to steel girders.

The clamping range of the chuck jaw is limited to the maximum fastening thickness, 25 mm. The chuck jaw is used in conjunction with profile rails of slot width 18 and 22 mm (type CPS 4; CPS 5; MS 22/41).



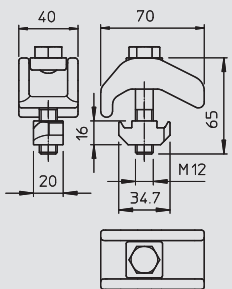
## Chuck jaw, light TKS

Type	Height mm	F in kN		Pack. pair	Weight kg/100 pairs	Item No.
		mm	kN			
<b>TKS-L-25 FT</b>	25	10		10	39.000	<b>6355 80 8</b>

**St** Steel **FT** Hot-dip galvanised /pair

Chuck jaw with hexagonal nut for direct fastening of structures to steel girders.

The clamping range of the chuck jaw is limited to the maximum fastening thickness, 25 mm.



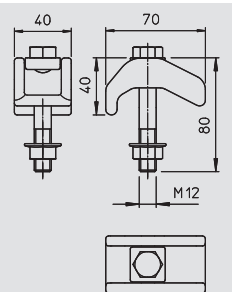
## Chuck jaw, heavy TKH

Type	Height mm	F in kN		Pack. pair	Weight kg/100 pairs	Item No.
		mm	kN			
<b>TKH-S-30 FT</b>	30	21		10	81.000	<b>6355 80 4</b>

**St** Steel **FT** Hot-dip galvanised /pair

Heavy-duty chuck jaw with slide nut for fastening profile rails to steel girders.

The clamping range of the chuck jaw is limited to the maximum fastening thickness, 30 mm. The chuck jaw is used in conjunction with profile rails of slot width 22 mm (e.g. type CPS 5).



## Chuck jaw, heavy TKS

Type	Height mm	F in kN		Pack. pair	Weight kg/100 pairs	Item No.
		mm	kN			
<b>TKS-S-30 FT</b>	30	21		10	82.000	<b>6355 80 0</b>

**St** Steel **FT** Hot-dip galvanised /pair

Heavy-duty chuck jaw with hexagonal nut for direct fastening of structures to steel girders.

The clamping range of the chuck jaw is limited to the maximum fastening thickness, 30 mm.



# Clamp fastening systems



## Adapter plate

Type	Height	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
<b>KA-AW 30 FT</b>	140	1	260.000	<b>6346 71 5</b>
<b>KA-AW 80 FT</b>	270	1	450.000	<b>6346 73 1</b>

**St** Steel **FT** Hot-dip galvanised /pc.

Adapter plate with slots for universal fastening to vertical steel girders and walls.

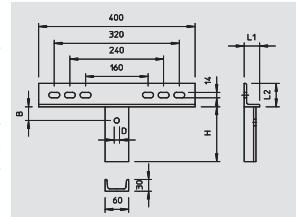
The bracket types AW 30, AW 55 ad AW 80 can be screwed to the adapter plate.

Please order the hexagonal bolt for bracket mounting (type SKS 12 x 40 GF) separately.

### Characteristic anchor load values for adapter plate KA-AW

Adapter plate, bracket load				Adapter plate, bracket load			
	Anchor	Max. total load F in kN			Anchor	Max. total load F in kN	
	s	KA-AW 30 with bracket:			s	KA-AW 80 with bracket:	
	Appr.	AW 30/11 - AW 30/61	AW 55/21 - AW 55/41		Appr.	AW 55/51 - AW 55/101	AW 80/21 - AW 80/81
	F kN	3.00	5.50		F kN	5.50	8.00
	7.6			7.6			

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. Observe the load capacity of the brackets (diagram) and the installation conditions of the DIBt approval (anchors).



## Adapter plate

Type	Width	Pack.	Weight	Item No.
	mm	pcs	kg/100 pcs.	
<b>KA-E 45 FT</b>	400	1	618.000	<b>6346 75 8</b>

**St** Steel **FT** Hot-dip galvanised /pc.

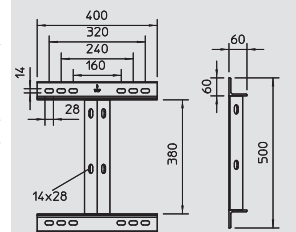
Adapter plate with slots for universal fastening to vertical steel girders and walls. Wall and support brackets are screwed to the adapter plate at a 45° angle.

To support cable support systems in building corners and jumps. The hexagonal bolts, type SKS 12 x 40 GF, are used to fasten the brackets to the adapter plate. Please order the appropriate quantity.

### Characteristic anchor load values for adapter plate

Adapter plate, bracket load				
	Anchor	Max. total load F in kN		
	s	KA-E 45 with bracket:		
	Appr.	AW 30	AW 55	AW 80
	F kN	3.00	5.50	8.00
	7.6			

Max. total load F = cable weight + cable tray + bracket. The load capacity values increase considerably when used in uncracked concrete. Observe the load capacity of the brackets (diagram) and the installation conditions of the DIBt approval (anchors). Mounting information: When using this component, please order a bracket which is 500 mm longer than the width of the tray/ladder.



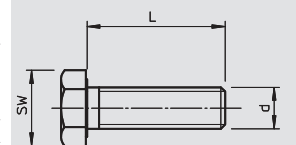
## Hexagonal bolt

Type	Dimension	Dimension L	Dimension d	SW	Pack.	Weight	Item No.
	mm	mm	mm	mm	pcs	kg/100 pcs.	
<b>SKS 12X40 G F</b>	M12 x 40	40	12	19	10	9.800	<b>3164 02 0</b>

**St** Steel **F** Hot-dip galvanised /100 pc.

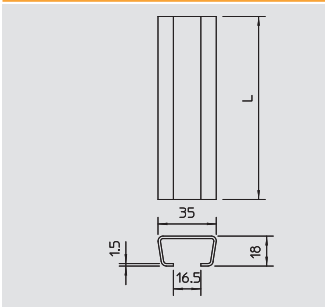
Hexagonal bolt with hexagonal nut, large washer and washer.

For fastening wall and support brackets on adapter plates.





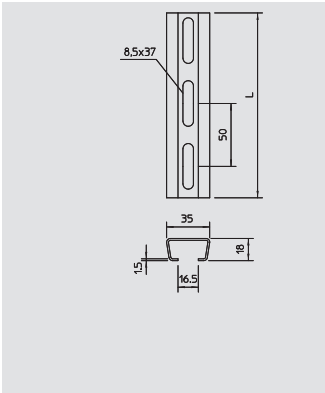
# Construction and profile rail systems



## Profile rails

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item No.
2068 2M BK	Unperforated	35 x 18	1.5	2000	20	90.000	1118 02 1
2068 2M FS	Unperforated	35 x 18	1.5	2000	20	90.000	1118 22 6
2068 2M FT	Unperforated	35 x 18	1.5	2000	20	89.400	1118 12 9

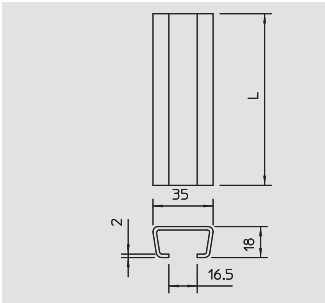
St Steel FS Strip-galvanised Bright FT Hot-dip galvanised /100 m  
Profile rail, unperforated, slot width 16.5 mm.



## Profile rails

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Pack. pcs	Weight kg/100 pcs.	Item No.
2068 L 200 FT	Perforated	35 x 18	1.5	200		25	17.800	1119 69 6
2068 L 300 FT	Perforated	35 x 18	1.5	300		25	26.700	1119 69 3
2068 L 400 FT	Perforated	35 x 18	1.5	400		10	35.600	1119 69 0
2068 L 500 FT	Perforated	35 x 18	1.5	500		10	44.500	1119 68 7
2068 L 600 FT	Perforated	35 x 18	1.5	600		10	53.400	1119 68 4
2068 L 700 FT	Perforated	35 x 18	1.5	700		10	62.300	1119 68 1
2068 L 800 FT	Perforated	35 x 18	1.5	800		10	71.200	1119 67 8
2068 L 1M FT	Perforated	35 x 18	1.5	1000		10	89.000	1119 67 2
2068 L 2M FT	Perforated	35 x 18	1.5	2000		20	89.000	1119 65 6

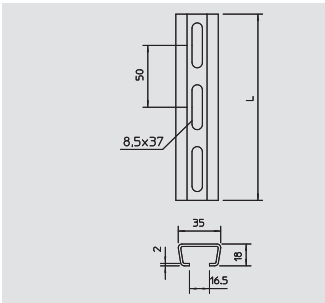
St Steel FT Hot-dip galvanised /100 m /100 pc.  
Profile rail, perforated, slot width 16.5 mm.



## Profile rails

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item No.
2063 2M BK	Unperforated	35 x 18	2	2000	20	116.000	1112 02 3
2063 2M FS	Unperforated	35 x 18	2	2000	20	116.000	1112 12 0
2063 2M FT	Unperforated	35 x 18	2	2000	20	121.350	1112 22 8

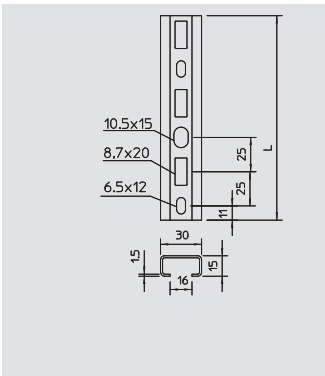
St Steel FS Strip-galvanised Bright FT Hot-dip galvanised /100 m  
Profile rail, unperforated, slot width 16.5 mm.



## Profile rails

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item No.
2063 L 2M FS	Perforated	35 x 18	2	2000	20	108.000	1112 70 8
2063 L 2M FT	Perforated	35 x 18	2	2000	20	110.000	1112 75 9

St Steel FS Strip-galvanised FT Hot-dip galvanised /100 m  
Profile rail, perforated, slot width 16.5 mm.



## Profile rails

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Pack. m	Weight kg/100 m	Item No.
C30 L 2M FS	Perforated	30 x 15	1.5	2000		20	70.200	1110 00 2
C30 L 200 FT	Perforated	30 x 15	1.5	200		25	14.040	1109 78 2
C30 L 300 FT	Perforated	30 x 15	1.5	300		25	21.060	1109 79 0
C30 L 400 FT	Perforated	30 x 15	1.5	400		10	28.080	1109 80 4
C30 L 500 FT	Perforated	30 x 15	1.5	500		10	35.100	1109 81 2
C30 L 600 FT	Perforated	30 x 15	1.5	600		10	42.120	1109 82 0
C30 L 700 FT	Perforated	30 x 15	1.5	700		10	49.140	1109 83 9
C30 L 800 FT	Perforated	30 x 15	1.5	800		10	56.160	1109 84 7

St Steel FS Strip-galvanised FT Hot-dip galvanised /100 m /100 pc.  
Profile rail, perforated, slot width 16 mm.



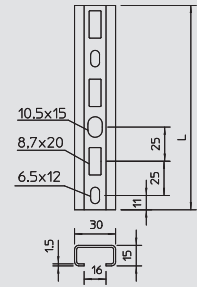
# Construction and profile rail systems



## Profile rails

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
<b>C30 L 1M FT</b>	Perforated	30 x 15	1.5	1000	10	70.200	<b>1109 86 3</b>
<b>C30 L 2M FT</b>	Perforated	30 x 15	1.5	2000	20	70.200	<b>1109 87 1</b>

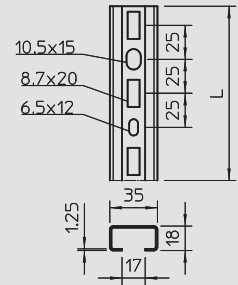
**St** Steel **FT** Hot-dip galvanised /100 m  
Profile rail, perforated, slot width 16 mm.



## Profile rails

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>1268 L 200 FS</b>	Perforated	35 x 18	1.25	200	25	14.200	<b>1104 26 8</b>
<b>1268 L 300 FS</b>	Perforated	35 x 18	1.25	300	25	21.300	<b>1104 28 4</b>
<b>1268 L 400 FS</b>	Perforated	35 x 18	1.25	400	10	28.400	<b>1104 29 2</b>
<b>1268 L 500 FS</b>	Perforated	35 x 18	1.25	500	10	35.500	<b>1104 30 6</b>
<b>1268 L 600 FS</b>	Perforated	35 x 18	1.25	600	10	42.600	<b>1104 31 0</b>
<b>1268 L 700 FS</b>	Perforated	35 x 18	1.25	700	10	49.700	<b>1104 31 5</b>
<b>1268 L 800 FS</b>	Perforated	35 x 18	1.25	800	10	56.800	<b>1104 32 0</b>
<b>1268 L 900 FS</b>	Perforated	35 x 18	1.25	900	10	63.900	<b>1104 32 5</b>
<b>1268 L 1M FS</b>	Perforated	35 x 18	1.25	1000	10	71.000	<b>1104 49 7</b>
<b>1268 L 2M FS</b>	Perforated	35 x 18	1.25	2000	20	71.000	<b>1104 50 0</b>

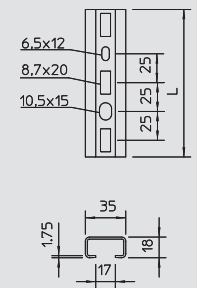
**St** Steel **FS** Strip-galvanised /100 m /100 pc.  
Light-duty profile rail, perforated, slot width 17 mm.



## Profile rails

Type	Version	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>1268 SL 150 FS</b>	Perforated	1.75	150	25	15.000	<b>1104 34 9</b>
<b>1268 SL 200 FS</b>	Perforated	1.75	200	25	20.000	<b>1104 35 7</b>
<b>1268 SL 300 FS</b>	Perforated	1.75	300	25	30.000	<b>1104 37 3</b>
<b>1268 SL 400 FS</b>	Perforated	1.75	400	10	40.000	<b>1104 39 1</b>
<b>1268 SL 500 FS</b>	Perforated	1.75	500	10	50.000	<b>1104 40 3</b>
<b>1268 SL 600 FS</b>	Perforated	1.75	600	10	60.000	<b>1104 41 1</b>
<b>1268 SL 800 FS</b>	Perforated	1.75	800	10	80.000	<b>1104 42 7</b>
<b>1268 SL 900 FS</b>	Perforated	1.75	900	10	90.000	<b>1104 43 5</b>
<b>1268 SL 1M FS</b>	Perforated	1.75	1000	10	100.000	<b>1104 44 5</b>
<b>1268 SL 2M FS</b>	Perforated	1.75	2000	20	100.000	<b>1104 45 4</b>

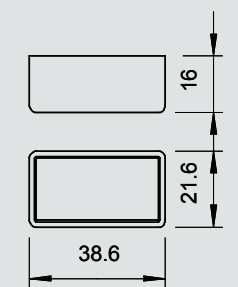
**St** Steel **FS** Strip-galvanised /100 m /100 pc.  
Profile rail, perforated, slot width 17 mm.



## Protective cap

Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>1268 SK OR</b>	Pastel orange	50	0.420	<b>1124 50 2</b>

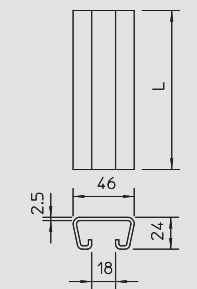
**PE** Polyethylene /100 pc.  
Protective cap for profile rail types 1268 and 1268 S.

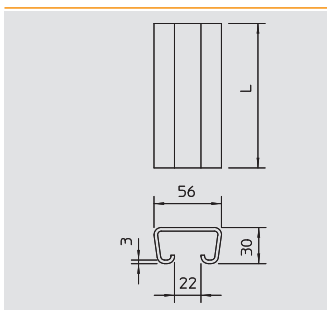


## Profile rail, heavy-duty

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
<b>2100 FT</b>	Unperforated	46 x 24	2.5	2000	10	220.000	<b>1120 20 4</b>

**St** Steel **FT** Hot-dip galvanised /100 m  
Heavyweight profile rail, unperforated, slot width 18 mm.



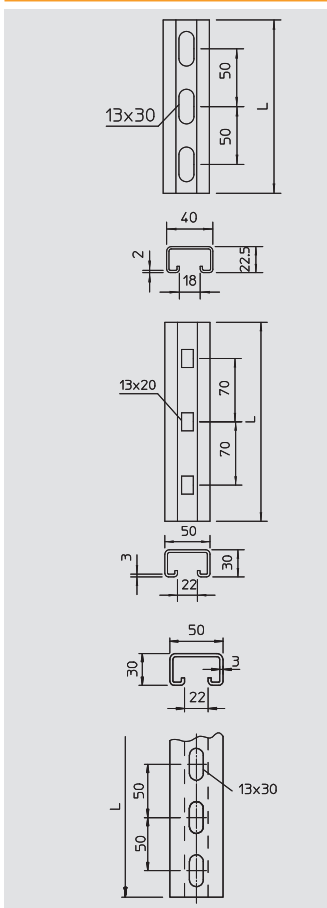


## Profile rail, heavy-duty

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Bundle m	Weight kg/100 m	Item No.
<b>2110 FT</b>	unperforated	56 x 30	3	2000	10	300.000	<b>1121 22 7</b>

**St** Steel **FT** Hot-dip galvanised /100 m

Heavy-duty rail, unperforated, slot width 22 mm.



## Profile rail, perforated

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
<b>CPS 4L 2M FT</b>	perforated	40 x 22,5	2	2000	10	160.000	<b>1121 97 9</b>
<b>CPS 4L 6M FT</b>	perforated	40 x 22,5	2	6000	1	160.000	<b>1121 89 8</b>

**St** Steel **FT** Hot-dip galvanised /100 m

Heavy-duty profile rail, perforated, slot width 18 mm.



Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>CPS 5 G 220 FT</b>	Perforated	50 x 30	3	220	1	69.000	<b>6349 40 4</b>
<b>CPS 5 G 260 FT</b>	Perforated	50 x 30	3	260	1	81.500	<b>6349 41 2</b>
<b>CPS 5 G 300 FT</b>	Perforated	50 x 30	3	300	10	94.000	<b>6349 43 9</b>
<b>CPS 5 G 340 FT</b>	Perforated	50 x 30	3	340	1	107.000	<b>6349 44 7</b>
<b>CPS 5 G 380 FT</b>	Perforated	50 x 30	3	380	1	119.000	<b>6349 46 3</b>

**St** Steel **FT** Hot-dip galvanised /pc.

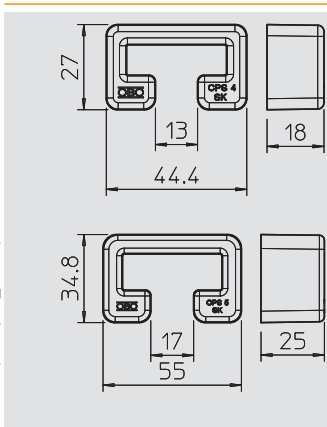
Heavy-duty profile rail. In fixed lengths, with rectangular perforation and a slot width of 22 mm.



Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
<b>CPS 5 L 2M FT</b>	Perforated	50 x 30	3	2000	2	282.500	<b>1121 46 4</b>
<b>CPS 5 L 6M FT</b>	Perforated	50 x 30	3	6000	6	282.500	<b>1121 47 2</b>

**St** Steel **FT** Hot-dip galvanised /100 m

Heavy-duty profile rail with continuous perforation, slot width 22 mm.



## Protective cap

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
<b>CPS 4 SK OR SP</b>	Pastel orange	25	0.680	<b>1124 55 5</b>

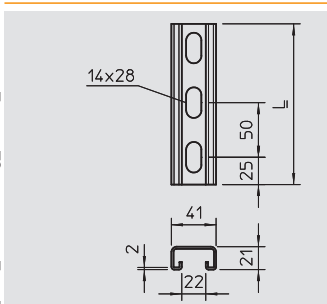
**PE** Polyethylene /100 pc.

Protective cap for profile rail, types CPS 4 and MS 22.

Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
<b>CPS 5 SK OR SP</b>	Pastel orange	25	1.260	<b>1124 56 3</b>

**PE** Polyethylene /100 pc.

Protective cap for profile rail, types CPS 5 and CPS 5G.



## Profile rail, perforated

Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
<b>MS 21 L 3M FT</b>	Perforated	41x21	2	3000	1	151.500	<b>1122 92 4</b>
<b>MS 21 L 6M FT</b>	Perforated	41x21	2	6000	1	151.500	<b>1122 92 6</b>

**St** Steel **FT** Hot-dip galvanised /100 m

Heavy-duty profile/mounting rail with continuous perforation in base, slot width 22 mm.



# Construction and profile rail systems

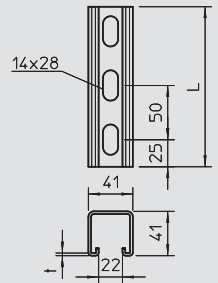
## Profile rail, perforated



Type	Version	Dimension b x h mm	Material thickness mm	Length mm	Pack. m	Weight kg/100 m	Item No.
<b>MS 41 LS 3M FT</b>	Perforated	41x41	2.5	3000	3	238.300	<b>1122 48 3</b>
<b>MS 41 LS 6M FT</b>	Perforated	41x41	2.5	6000	6	238.300	<b>1122 48 7</b>

**St** Steel **FT** Hot-dip galvanised /100 m

Heavy-duty profile/mounting rail with continuous, three-sided perforation, slot width 22 mm. Additional versions and appropriate accessories for the MS 41 system are listed in the new VBS catalogue.



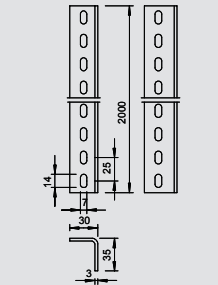
## Angle profile



Type	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>WP 30 35 FT</b>	2000	10	257.000	<b>6373 10 0</b>
<b>WP 30 35 5000 FT</b>	5000	1	643.000	<b>6373 10 3</b>

**St** Steel **FT** Hot-dip galvanised /pc.

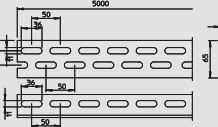
Angle profile, perforated on both sides, for creation of special support structures.



Type	Length mm	Pack. m	Weight kg/100 m	Item No.
<b>WP 40 65 FT</b>	5000	1	250.000	<b>6373 07 0</b>

**St** Steel **FT** Hot-dip galvanised /m

Angle profile, perforated on both sides, for creation of special support structures.



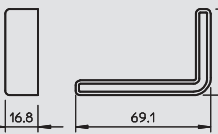
## Protective cap



Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>WPK SR OR</b>	Pastel orange	20	0.600	<b>6372 88 1</b>
<b>WPK SL OR</b>	Pastel orange	20	0.600	<b>6372 89 8</b>

**PE** Polyethylene /pc.

Protective cap to cover the ends of angle profile, type WE 40/65.



## Angle profile



Type	Length mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
<b>WESP 50 20 BK</b>	3000	4	1	159.000	<b>7105 66 5</b>

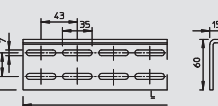
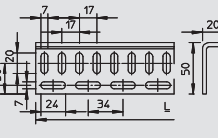
**St** Steel Bright /m

Angle profile with double row of holes for creation of suspended and support structures.

Type	Length mm	Plate thickness mm	Pack. m	Weight kg/100 m	Item No.
<b>WESP 60 15 BK</b>	3000	4	1	179.000	<b>7105 96 7</b>

**St** Steel Bright /m

Angle profile with double straight perforation to create suspension and support constructions.













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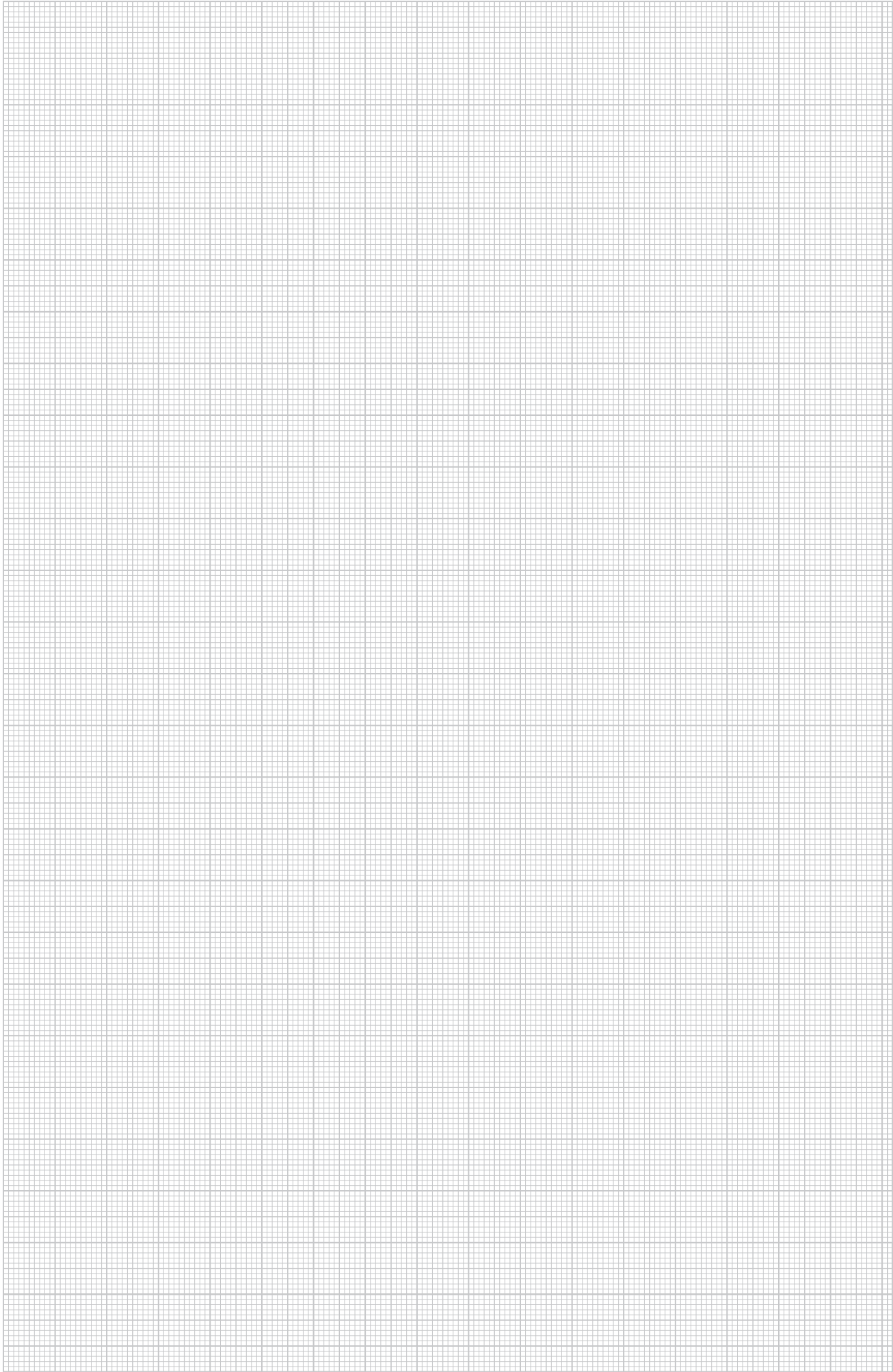
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583635	<b>1104 29 2</b>		198	505371	<b>1144 10 3</b>		207	566820	<b>1159 71 6</b>		416	507105	<b>1169 52 1</b>		344
503841	<b>1104 30 6</b>		198	505377	<b>1144 11 1</b>		207	566821	<b>1159 72 2</b>		416	507111	<b>1169 58 0</b>		344
503667	<b>1104 31 0</b>		198	505383	<b>1144 13 8</b>		207	566822	<b>1159 72 8</b>		416	507117	<b>1169 64 5</b>		344
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503679	<b>1104 32 0</b>		198	505455	<b>1146 50 5</b>		207	566827	<b>1159 74 0</b>		416	507129	<b>1169 76 9</b>		344
503685	<b>1104 32 5</b>		198	505461	<b>1146 51 3</b>		207	566828	<b>1159 74 6</b>		416	507135	<b>1169 82 3</b>		344
503847	<b>1104 34 9</b>		198	505467	<b>1146 52 1</b>		207	566829	<b>1159 75 2</b>		416	507141	<b>1169 90 4</b>		344
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503859	<b>1104 37 3</b>		198	508415	<b>1146 55 8</b>		382	566831	<b>1159 76 4</b>		416	507153	<b>1170 12 0</b>		345
505281	<b>1104 39 1</b>		198	508490	<b>1146 56 0</b>		382	566832	<b>1159 77 0</b>		416	507159	<b>1170 16 3</b>		345
503865	<b>1104 40 3</b>		198	508416	<b>1146 56 2</b>		382	566833	<b>1159 77 6</b>		416	507165	<b>1170 22 8</b>		345
548619	<b>1104 41 1</b>		198	505479	<b>1146 60 2</b>		208					507171	<b>1170 28 7</b>		345
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				505755	<b>1151 42 8</b>		208	506565	<b>1161 40 7</b>		339	507363	<b>1176 12 9</b>		342
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504705	<b>1118 12 9</b>		197	505839	<b>1153 42 0</b>		208	566840	<b>1161 92 8</b>		416	507411	<b>1176 58 7</b>		342
504717	<b>1118 22 6</b>		197	505845	<b>1153 43 9</b>		208	566844	<b>1161 93 4</b>		416				
				505875	<b>1153 61 7</b>		208	566845	<b>1161 94 0</b>		416	507417	<b>1177 12 5</b>		343
504759	<b>1119 65 6</b>		197	505881	<b>1153 62 5</b>		208	566846	<b>1161 94 6</b>		416	507423	<b>1177 16 8</b>		343
505395	<b>1119 67 2</b>		197	505887	<b>1153 63 3</b>		208	566850	<b>1161 95 2</b>		416	507429	<b>1177 22 2</b>		343
		/100 pc.		505893	<b>1153 64 1</b>		208	566851	<b>1161 95 8</b>		416	507435	<b>1177 28 1</b>		343
505929	<b>1119 67 8</b>		197					566852	<b>1161 96 4</b>		416	507441	<b>1177 34 6</b>		343
505935	<b>1119 68 1</b>		197	505971	<b>1154 41 9</b>		209					507447	<b>1177 40 0</b>		343
505941	<b>1119 68 4</b>		197	505977	<b>1154 42 7</b>		209	506697	<b>1162 12 8</b>		340	507453	<b>1177 45 1</b>		343
506025	<b>1119 68 7</b>		197	505983	<b>1154 43 5</b>		209	506703	<b>1162 16 0</b>		340				
506037	<b>1119 69 0</b>		197	506001	<b>1154 60 5</b>		209	506709	<b>1162 22 5</b>		340	507459	<b>1178 50 4</b>		417
506061	<b>1119 69 3</b>		197	506007	<b>1154 61 3</b>		209	506715	<b>1162 28 4</b>		340	507465	<b>1178 51 2</b>		417
506067	<b>1119 69 6</b>		197	506013	<b>1154 62 1</b>		209	506721	<b>1162 34 9</b>		340	507471	<b>1178 52 0</b>		417
		/100 m		506019	<b>1154 64 8</b>		209	506727	<b>1162 40 3</b>		340	507477	<b>1178 53 9</b>		417
504765	<b>1119 70 2</b>		382	546339	<b>1154 99 0</b>		277	506733	<b>1162 46 2</b>		340	507483	<b>1178 54 7</b>		417
504771	<b>1119 72 9</b>		382									507489	<b>1178 55 5</b>		417
				506271	<b>1156 00 4</b>		341	506739	<b>1163 12 4</b>		338	507495	<b>1178 56 3</b>		417
504777	<b>1120 20 4</b>		198	506277	<b>1156 01 2</b>		341	506745	<b>1163 16 7</b>		338	507501	<b>1178 57 1</b>		417
				506283	<b>1156 02 0</b>		341	506751	<b>1163 22 1</b>		338	507507	<b>1178 59 8</b>		417
504873	<b>1121 22 7</b>		199	506289	<b>1156 03 9</b>		341	506757	<b>1163 28 0</b>		338	507513	<b>1178 60 1</b>		417
504921	<b>1121 46 4</b>		199	506295	<b>1156 04 7</b>		341	506763	<b>1163 34 5</b>		338	507519	<b>1178 62 8</b>		417
546249	<b>1121 47 2</b>		199	506301	<b>1156 05 5</b>		341	506769	<b>1163 39 6</b>		338	507525	<b>1178 63 6</b>		417
504927	<b>1121 48 0</b>		382	506307	<b>1156 06 3</b>		341	506775	<b>1163 46 9</b>		338				
504933	<b>1121 49 9</b>		382	506313	<b>1156 07 1</b>		341	506781	<b>1163 52 3</b>		338	507543	<b>1180 12 6</b>		343
504993	<b>1121 89 8</b>		199	506319	<b>1156 09 8</b>		341	506787	<b>1163 58 2</b>		338	507549	<b>1180 16 9</b>		343
504999	<b>1121 90 1</b>		382	506325	<b>1156 10 1</b>		341	506793	<b>1163 64 7</b>		338	507555	<b>1180 22 3</b>		343
505017	<b>1121 96 0</b>		382	506331	<b>1156 12 8</b>		341	506799	<b>1163 70 1</b>		338	507561	<b>1180 28 2</b>		343
505023	<b>1121 97 9</b>		199	506337	<b>1156 13 6</b>		341					507567	<b>1180 34 7</b>		343
				506343	<b>1156 14 4</b>		341	506829	<b>1164 12 0</b>		338	507573	<b>1180 40 1</b>		343
505073	<b>1122 48 3</b>		200	506349	<b>1156 15 2</b>		341	506835	<b>1164 16 3</b>		338	507579	<b>1180 46 0</b>		343
505074	<b>1122 48 7</b>		200	506355	<b>1156 16 0</b>		341	506841	<b>1164 22 8</b>		338	507585	<b>1180 52 5</b>		343
568629	<b>1122 92 4</b>		199					506847	<b>1164 28 7</b>		338	507591	<b>1180 58 4</b>		343
568630	<b>1122 92 6</b>		199	506361	<b>1159 51 8</b>		415	506853	<b>1164 34 1</b>		338	507597	<b>1180 64 9</b>		



GTIN	Art. no.	Price	Page	GTIN	Art. no.	Price	Page	GTIN	Art. no.	Price	Page	GTIN	Art. no.	Price	Page
507663	1181 40 8	/100 pc.	344	525705	3160 40 8	/100 pc.	204	543749	3488 52 5	/pc.	212	503718	6000 06 4	/m	270
507669	1181 46 7		344	525711	3160 50 5		204	531891	3488 52 7		212	503719	6000 06 6		270
507675	1181 52 1		344	525717	3160 60 2		204					562482	6000 06 9		270
507681	1181 58 0		344	525723	3160 73 4		205			/100 pc.	210	503720	6000 07 1		270
				525729	3160 74 2		205	545403	3492 03 6		210	503723	6000 07 2		270
507729	1183 20 6		340	525735	3160 75 0		205	545409	3492 06 0		210	503724	6000 07 3		270
507735	1183 21 4		340	550563	3160 79 3		173	545415	3492 09 5		210	503725	6000 07 5		270
507741	1183 22 2		340					590983	3492 09 7		431	536075	6000 08 7		440
507747	1183 23 0		340	525759	3162 30 3		204	590984	3492 09 9		431	536076	6000 08 9		440
507753	1183 24 9		340	525771	3162 40 0		204			/100 pc.	384	536077	6000 09 0		440
507759	1183 25 7		340	525777	3162 50 8		204	502517	3492 14 5		384	536078	6000 09 1		440
507765	1183 26 5		340					502518	3492 15 0		384				
507771	1183 27 3		340	525807	3163 09 1		205	580266	3492 16 7		431	631723	6001 04 0		271
507777	1183 28 1		340	525813	3163 11 3		205	580267	3492 17 2		431	631735	6001 04 4		271
507783	1183 30 3		340	525825	3163 15 6		205			/pc.	210	631747	6001 04 7		271
543531	1183 31 1		340					545439	3492 33 8		210	632353	6001 05 0		271
543537	1183 33 8		340	531741	3164 02 0		196	545445	3492 36 2		210	632383	6001 05 3		271
543549	1183 38 9		341					545451	3492 39 7		210	632413	6001 05 6		271
543555	1183 39 7		341	529767	3397 06 8		384	545421	3492 62 1		210	632443	6001 05 9		271
543561	1183 40 0		341	529773	3397 08 4		384	545427	3492 66 4		210	543093	6001 07 0		395
543567	1183 41 9		341	529779	3397 10 6		384	545433	3492 69 9		210	610129	6001 07 2		395
543573	1183 42 7		341	529785	3397 11 4		384			/100 pc.	211	610135	6001 07 4		395
543579	1183 43 5		341					596392	3498 10 7		211	610141	6001 07 6		395
543585	1183 44 3		341	529797	3400 04 2		207	596398	3498 12 3		211	610177	6001 07 8		395
543591	1183 45 1		341	529803	3400 05 0		207	596404	3498 15 8		211	610219	6001 08 0		395
543597	1183 47 8		341	529809	3400 06 9		207	596410	3498 20 4		211	610225	6001 08 2		395
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508137	1195 12 3		345	529821	3400 10 7		207	546189	3498 42 5		210	543104	6001 08 7		440
508143	1195 16 6		345	529827	3400 12 3		207	578471	3498 42 6		431	516601	6001 08 8		440
508149	1195 22 0		345	529839	3400 34 4		207			/100 pc.	210	516602	6001 09 0		440
508155	1195 27 1		345	529845	3400 35 2		207				210	516606	6001 09 1		440
508161	1195 34 4		345	529851	3400 36 0		207	569319	3498 46 8		431	516607	6001 09 3		440
508167	1195 40 9		345	529857	3400 37 9		207	578472	3498 46 9		431	516608	6001 09 5		440
508173	1195 46 8		345							/100 pc.	210	516612	6001 09 7		440
508179	1195 52 2		345	530049	3402 30 4		383	550425	3498 48 4		210	516613	6001 09 9		440
508185	1195 58 1		345	530055	3402 31 2		383	570606	3498 48 7		384	543094	6001 41 5		271
508191	1195 64 6		345	530061	3402 32 0		383	580268	3498 49 0		431	681487	6001 41 6		271
508197	1195 70 0		345	530067	3402 33 9		383	588843	3498 50 6		210	607891	6001 41 8		271
		/100 m		530073	3402 44 4		205	570607	3498 50 9		384	681493	6001 42 0		271
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513765	1465 77 5		201	530091	3402 47 9		205	580273	3498 55 4		431	681511	6001 42 8		271
513771	1465 79 1		201					588855	3498 58 1		210	681517	6001 43 2		271
513777	1465 80 5		201	586791	3403 02 5		206	580274	3498 58 6		431	681523	6001 43 6		271
513783	1465 82 1		201	586797	3403 04 1		206	504950	3498 59 7		210	543095	6001 44 1		271
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513795	1466 26 7		201	586809	3403 08 4		206	590989	3498 60 3		431	607897	6001 44 4		271
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				586821	3403 12 2		206	588861	3498 65 4		210	504527	6001 44 7		271
513831	1470 12 4		358	586827	3403 13 0		206	580278	3498 65 9		431	685867	6001 44 8		271
513837	1470 17 5		358	586833	3403 16 5		206	548913	3498 74 3		210	685873	6001 45 0		271
513843	1470 26 4		358					559893	3498 76 0		211	685879	6001 45 2		271
				530163	3404 06 4		206	559911	3498 76 4		211	685885	6001 45 4		271
513867	1471 12 0		358	530169	3404 08 0		206	569271	3498 82 4		384			/pc.	273
513873	1471 17 1		358	530175	3404 10 2		206	568880	3498 83 5		384	635263	6001 92 0		273
513879	1471 26 0		358	530181	3404 12 9		206	590995	3498 83 7		431	635269	6001 93 9		273
				530193	3404 33 1		206			/100 pc.	384	635275	6001 94 7		273
								569265	3498 85 9		384	635281	6001 95 5		273
551841	2362 97 0		213			/100 pc.	206	538605	5043 10 7		278	635287	6001 96 3		273
				530229	3405 06 0		206					635293	6001 97 1		273
		/100 pc.		530235	3405 08 7		206				358	662479	6001 99 8		273
525333	3141 12 8		159	530241	3405 10 9		206	541395	5301 03 3						
511998	3141 13 6		159	530247	3405 12 5		206				358	600169	6002 21 8		273
512358	3141 14 0		159					541455	5302 02 1			602724	6002 22 2		273
512364	3141 14 4		159	551331	3453 82 0		158			/100 m	357	600175	6002 22 6		273
525339	3141 20 9		159					541497	5303 20 6			600181	6002 23 4		273
525345	3141 30 6		159	530697	3462 86 2		358					600187	6002 24 2		273
502345	3141 31 0		279	530703	3462 88 9		358			/100 pc.	281	600193	6002 25 0		273
502357	3141 31 2		279									600199	6002 26 9		273
559443	3141 31 4		279	530715	3463 06 0		358	573842	5403 10 0		281	600205	6002 30 7		275
								507007	5403 11 7		282	602736	6002 31 1		275
				543737	3488 29 2		212	507008	5403 12 4		282	600211	6002 31 5		275
525585	3156 49 4		204	543738	3488 29 8		212	554889	5403 22 7		281	600223	6002 33 1		275
525597	3156 51 6		204	571431	3488 30 6		212	554895	5403 23 5		282	600229	6002 35 8		275
525603	3156 52 4		204	543739	3488 30 8		212					600235	6002 36 6		275
				543740	3488 31 2		212			/m		545623	6002 37 0		275
525621	3158 20 9		204			/pc.						545624	6002 37 2		

# Numeric directory

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

GTIN	Art. no.	Price	Page	GTIN	Art. no.	Price	Page	GTIN	Art. no.	Price	Page	GTIN	Art. no.	Price	Page
602039	<b>6002 40 4</b>	/m	274	600715	<b>6008 05 4</b>	/pc.	336	695227	<b>6015 42 1</b>	/pc.	279	601411	<b>6017 46 0</b>	/m	284
602051	<b>6002 40 6</b>		274	600721	<b>6008 06 2</b>		336	695233	<b>6015 42 2</b>		279				
602063	<b>6002 40 8</b>		274	600727	<b>6008 07 0</b>		336	664999	<b>6015 42 5</b>		279				
602075	<b>6002 41 0</b>		274	600733	<b>6008 08 9</b>		336	665005	<b>6015 43 3</b>		279	693133	<b>6017 70 0</b>	/pc.	282
602099	<b>6002 41 5</b>		274	600739	<b>6008 09 7</b>		336	674611	<b>6015 50 6</b>		160				
602111	<b>6002 41 7</b>		274	600745	<b>6008 10 0</b>		336	674617	<b>6015 51 4</b>		160	584826	<b>6017 71 0</b>		280
602123	<b>6002 43 1</b>		274	600751	<b>6008 11 9</b>		336	674623	<b>6015 52 2</b>		160	584827	<b>6017 71 1</b>		280
602135	<b>6002 43 3</b>		274	600757	<b>6008 12 7</b>		336	674629	<b>6015 53 0</b>		160	584828	<b>6017 71 2</b>		280
602147	<b>6002 43 5</b>		274	662971	<b>6008 22 4</b>		336	674635	<b>6015 54 9</b>		160	584829	<b>6017 71 3</b>		280
602159	<b>6002 43 7</b>		274	635605	<b>6008 23 2</b>		336	523915	<b>6015 55 2</b>		160	590346	<b>6017 71 4</b>		280
602171	<b>6002 43 9</b>		274	600763	<b>6008 24 0</b>		336	523916	<b>6015 55 5</b>		160	590347	<b>6017 71 5</b>		280
602195	<b>6002 44 3</b>		274	600769	<b>6008 25 9</b>		336	678541	<b>6015 56 5</b>		160				
602207	<b>6002 44 5</b>		274	600775	<b>6008 26 7</b>		336	678547	<b>6015 57 3</b>		160	601423	<b>6018 30 0</b>		189
514962	<b>6002 45 1</b>		396	600781	<b>6008 27 5</b>		336	678553	<b>6015 58 1</b>		160	601429	<b>6018 37 8</b>		175
542262	<b>6002 45 5</b>		396	600787	<b>6008 28 3</b>		336	678559	<b>6015 60 3</b>		160	601435	<b>6018 40 8</b>		378
514963	<b>6002 45 7</b>		396	600793	<b>6008 29 1</b>		336	678565	<b>6015 61 1</b>		160	644689	<b>6018 50 5</b>		172
514964	<b>6002 46 0</b>		396	600799	<b>6008 30 5</b>		336	523920	<b>6015 61 4</b>		160	622915	<b>6018 51 3</b>		169
514967	<b>6002 46 3</b>		396	600805	<b>6008 31 3</b>		336	523921	<b>6015 61 7</b>		160	570600	<b>6018 51 7</b>		374
514968	<b>6002 46 6</b>		396	600811	<b>6008 32 1</b>		336	693745	<b>6015 63 0</b>		381	561845	<b>6018 52 0</b>		425
577158	<b>6002 46 9</b>		396					693751	<b>6015 63 2</b>		381	601441	<b>6018 96 3</b>		191
								693757	<b>6015 63 3</b>		381				
587288	<b>6003 75 0</b>		282	614611	<b>6010 46 6</b>	/m	332	693763	<b>6015 63 4</b>		381	601447	<b>6019 06 4</b>		191
587289	<b>6003 75 4</b>		282	614617	<b>6010 47 4</b>		332	696152	<b>6015 64 6</b>		160	601453	<b>6019 52 8</b>		191
587290	<b>6003 75 8</b>		282	614623	<b>6010 48 2</b>		332	604284	<b>6015 64 8</b>		160	601459	<b>6019 56 0</b>		177
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600295	<b>6003 81 8</b>	/pc.	281	616885	<b>6010 50 4</b>		332	604296	<b>6015 65 6</b>		160	601471	<b>6019 61 7</b>		331
				616879	<b>6010 51 2</b>		332	627937	<b>6015 65 8</b>		160	601477	<b>6019 66 8</b>		415
600301	<b>6003 85 0</b>		281	616873	<b>6010 52 0</b>		332	604308	<b>6015 66 0</b>		160	601483	<b>6019 70 6</b>		177
600307	<b>6003 86 9</b>		281	616867	<b>6010 53 9</b>		332	696164	<b>6015 66 2</b>		160				
604944	<b>6003 87 1</b>		399	616861	<b>6010 54 7</b>		332	604320	<b>6015 66 4</b>		160	587761	<b>6041 00 0</b>		220
604956	<b>6003 87 3</b>		399	616855	<b>6010 55 5</b>		332	696170	<b>6015 67 0</b>		160	588128	<b>6041 00 2</b>		220
604980	<b>6003 87 7</b>		399	616849	<b>6010 56 3</b>		332	604332	<b>6015 67 2</b>		160	588131	<b>6041 00 4</b>		220
604992	<b>6003 87 9</b>		399	543396	<b>6010 62 0</b>		330	696176	<b>6015 68 9</b>		160	588132	<b>6041 01 0</b>		220
607988	<b>6003 88 0</b>		194	543397	<b>6010 62 2</b>		330	604344	<b>6015 69 1</b>		160	588133	<b>6041 01 2</b>		220
607989	<b>6003 88 4</b>		194	543398	<b>6010 62 4</b>		330	523922	<b>6015 69 3</b>		160	588134	<b>6041 01 4</b>		220
607990	<b>6003 88 8</b>		194	543402	<b>6010 62 6</b>		330	523926	<b>6015 69 5</b>		160	588135	<b>6041 02 0</b>		220
607991	<b>6003 89 2</b>		194	543403	<b>6010 62 8</b>		330	523927	<b>6015 69 7</b>		160	588151	<b>6041 02 2</b>		220
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				543408	<b>6010 63 2</b>	/m	330					591538	<b>6041 03 0</b>		220
568639	<b>6005 52 0</b>		283	543409	<b>6010 63 4</b>		330			/m	402	591542	<b>6041 03 2</b>		220
568640	<b>6005 52 3</b>		283	543410	<b>6010 63 6</b>		330	601267	<b>6016 20 0</b>		402	591571	<b>6041 03 4</b>		220
568641	<b>6005 52 6</b>		283	543414	<b>6010 63 8</b>		330	601273	<b>6016 23 5</b>		402	588153	<b>6041 04 0</b>		231
568642	<b>6005 52 9</b>		283					601279	<b>6016 25 1</b>		402	588154	<b>6041 04 2</b>		231
568643	<b>6005 53 5</b>		283	635863	<b>6013 38 4</b>		335			/pc.	403	588155	<b>6041 04 4</b>		231
568644	<b>6005 53 8</b>		283	635869	<b>6013 39 2</b>		335	601285	<b>6016 27 8</b>		403	588156	<b>6041 04 6</b>		231
568645	<b>6005 54 1</b>		283	601123	<b>6013 40 6</b>		335	601291	<b>6016 30 8</b>		403	588157	<b>6041 04 8</b>		231
568646	<b>6005 54 4</b>		283	601129	<b>6013 41 4</b>		335	601303	<b>6016 42 1</b>		278	588158	<b>6041 05 0</b>		231
568647	<b>6005 55 0</b>		396	601135	<b>6013 42 2</b>		335	586301	<b>6016 44 3</b>		278	588159	<b>6041 05 2</b>		231
568648	<b>6005 55 3</b>		396	601141	<b>6013 43 0</b>		335	586302	<b>6016 44 5</b>		400	588160	<b>6041 06 0</b>		231
568649	<b>6005 55 6</b>		397	601147	<b>6013 44 9</b>		335	601309	<b>6016 52 9</b>		403	588161	<b>6041 06 2</b>		231
568650	<b>6005 55 9</b>		397	601153	<b>6013 45 7</b>		335	651811	<b>6016 54 5</b>		276	588162	<b>6041 06 4</b>		231
577159	<b>6005 56 5</b>		441	601159	<b>6013 46 5</b>		335	651805	<b>6016 55 3</b>		276	588163	<b>6041 06 6</b>		231
577160	<b>6005 56 8</b>		441	601165	<b>6013 47 3</b>		335	651799	<b>6016 56 1</b>		276	588164	<b>6041 06 8</b>		231
577164	<b>6005 57 1</b>		441	601171	<b>6013 48 1</b>		335	652051	<b>6016 59 6</b>		276	588165	<b>6041 07 0</b>		231
577165	<b>6005 57 4</b>		441	601177	<b>6013 84 8</b>		335	601315	<b>6016 63 4</b>		276	588166	<b>6041 07 2</b>		231
				601183	<b>6013 85 6</b>		335	601321	<b>6016 64 2</b>		398	588167	<b>6041 08 0</b>		390
543864	<b>6006 39 5</b>		272	601189	<b>6013 86 4</b>		335	612007	<b>6016 64 8</b>		442	588168	<b>6041 08 2</b>		390
543865	<b>6006 39 6</b>		272	601195	<b>6013 87 2</b>		335	569405	<b>6016 67 4</b>		277	588169	<b>6041 08 4</b>		390
543866	<b>6006 39 7</b>		272	601201	<b>6013 88 0</b>		335	569406	<b>6016 67 6</b>		399	588170	<b>6041 08 6</b>		390
615085	<b>6006 45 3</b>		272	601207	<b>6013 89 9</b>		335	605257	<b>6016 68 0</b>		276	588171	<b>6041 08 8</b>		390
615121	<b>6006 45 5</b>		272	601213	<b>6013 90 2</b>		335	605425	<b>6016 68 4</b>		276	588172	<b>6041 09 0</b>		390
615157	<b>6006 45 6</b>		272					605431	<b>6016 68 8</b>		398	588173	<b>6041 09 2</b>		390
615193	<b>6006 45 7</b>		272					630787	<b>6016 71 5</b>	/pc.	277	588174	<b>6041 10 0</b>		436
615229	<b>6006 45 8</b>		272	601231	<b>6015 17 4</b>		286	601327	<b>6016 72 3</b>		277	588175	<b>6041 10 2</b>		436
				642139	<b>6015 26 3</b>		279	601333	<b>6016 73 1</b>		400	588176	<b>6041 10 4</b>		436
693325	<b>6006 48 6</b>	/pc.	280	678535	<b>6015 27 1</b>		279	612025	<b>6016 76 4</b>		442	588177	<b>6041 10 6</b>		436
693331	<b>6006 48 7</b>		280	696584	<b>6015 27 6</b>		279	601339	<b>6016 82 0</b>		276	588178	<b>6041 10 8</b>		436
693337	<b>6006 48 8</b>		401	696											

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587833	6041 18 6		390	587996	6041 50 0		240	589613	6042 03 2		249			/m	
587834	6041 18 8		390	587997	6041 51 0		240	588246	6042 03 4		249	665755	6052 64 3		254
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587850	6041 20 8		436	588085	6041 57 0		240				219	633691	6052 67 4		254
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587856	6041 23 0		232	588087	6041 57 4		240	605017	6043 06 2		230	603883	6052 70 6		254
587857	6041 23 2		232	588088	6041 57 6		240			/m	218	603889	6052 70 9		254
587858	6041 23 4		232	588089	6041 57 8		240				218	603895	6052 71 2		254
587862	6041 23 6		232	588090	6041 58 0		240	539084	6047 41 7		218	603901	6052 71 5		254
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587874	6041 25 4		232	588098	6041 59 8		240	570608	6047 61 3		385	507882	6052 75 5		266
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587929	6041 36 3		390	588057	6041 84 6		248				222	516332	6055 82 0		359
587930	6041 36 5		390	588058	6041 84 8		248	590399	6047 73 6		222				
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587935	6041 36 9		390	588060	6041 86 0		248	570629	6047 73 8		432	638935	6056 02 4		386
587936	6041 37 1		390	589603	6041 86 1		248				222	638941	6056 04 0		386
587940	6041 37 3		390	588073	6041 86 2		248	605755	6050 36 0		357	638947	6056 05 9		386
587941	6041 38 0		436	588074	6041 86 4		248	693613	6050 37 0		357	638953	6056 07 5		386
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587952	6041 39 0		436	589606	6041 92 1		249	638557	6052 02 9		254	662521	6056 42 3		229
587953	6041 39 2		436	588204	6041 92 2		249				254	662527	6056 52 0		229
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589574	6041 41 1		240	588206	6041 92 6		249	602965	6052 05 6		253	612055	6056 73 5		387
587958	6041 41 2		240	588207	6041 92 8		249	605797	6052 09 6		254	612061	6056 73 7		387
587959	6041 41 4		240	588208	6041 93 0		249	602971	6052 10 3		253	612067	6056 73 9		387
587960	6041 41 6		240	588209	6041 94 0		249	605809	6052 15 0		254	612073	6056 74 2		387
587963	6041 41 8		240	589607	6041 94 1		249	603001	6052 15 3		253	612079	6056 74 4		387
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582993	<b>6059 00 2</b>		224	583255	<b>6059 46 4</b>		225	583447	<b>6059 92 7</b>		228	606541	<b>6067 09 3</b>		230
582994	<b>6059 00 4</b>		224	583256	<b>6059 46 6</b>		225	583448	<b>6059 92 9</b>		228	606547	<b>6067 10 7</b>		219
582995	<b>6059 00 6</b>		224	583259	<b>6059 46 8</b>		225	583452	<b>6059 93 1</b>		228	606553	<b>6067 11 5</b>		230
582996	<b>6059 00 8</b>		224	583260	<b>6059 47 3</b>		225	583453	<b>6059 93 3</b>		228	606559	<b>6067 12 3</b>		239
582997	<b>6059 01 0</b>		224	583261	<b>6059 47 5</b>		225	583454	<b>6059 93 5</b>		228	606565	<b>6067 13 1</b>		247
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583008	<b>6059 02 5</b>		224	583271	<b>6059 48 5</b>		225	569444	<b>6062 02 5</b>		388	606607	<b>6067 66 2</b>		389
583009	<b>6059 02 7</b>		224	583296	<b>6059 53 0</b>		236	569447	<b>6062 02 8</b>		434	634315	<b>6067 66 4</b>		435
583010	<b>6059 02 9</b>		224	583297	<b>6059 53 2</b>		236	569448	<b>6062 03 3</b>		228	695545	<b>6067 67 5</b>		435
583014	<b>6059 03 2</b>		224	583298	<b>6059 53 4</b>		236	569449	<b>6062 05 0</b>		218	606613	<b>6067 81 6</b>		239
583034	<b>6059 08 0</b>		235	583302	<b>6059 53 6</b>		236	569450	<b>6062 05 2</b>		397	606619	<b>6067 91 3</b>		247
583035	<b>6059 08 2</b>		235	583303	<b>6059 53 8</b>		236	569453	<b>6062 05 4</b>		441	606625	<b>6067 95 6</b>		219
583036	<b>6059 08 4</b>		235	583304	<b>6059 54 0</b>		236					569472	<b>6067 97 0</b>		218
583037	<b>6059 08 6</b>		235	583307	<b>6059 54 2</b>		236	569454	<b>6062 06 8</b>		222	606631	<b>6067 97 2</b>		230
583038	<b>6059 08 8</b>		235	583308	<b>6059 54 9</b>		236					606637	<b>6067 98 0</b>		239
583039	<b>6059 09 0</b>		235	583309	<b>6059 55 1</b>		236	569455	<b>6062 08 4</b>		387	606643	<b>6067 99 9</b>		247
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583041	<b>6059 09 7</b>		235	583314	<b>6059 55 5</b>		236	569457	<b>6062 11 4</b>		238	606649	<b>6068 02 2</b>		389
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583044	<b>6059 10 3</b>		235	583319	<b>6059 56 1</b>		236	569460	<b>6062 17 3</b>		397	507900	<b>6068 77 1</b>		264
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583092	<b>6059 15 8</b>		243	582960	<b>6059 62 2</b>		244	569465	<b>6062 28 4</b>		292	507907	<b>6068 78 1</b>		264
583093	<b>6059 16 0</b>		243	582961	<b>6059 62 4</b>		244			/m		507908	<b>6068 78 9</b>		264
583094	<b>6059 16 2</b>		243	582962	<b>6059 62 6</b>		244	569466	<b>6062 31 4</b>		270	507911	<b>6068 79 1</b>		264
583098	<b>6059 16 4</b>		243	582963	<b>6059 63 1</b>		244	569467	<b>6062 32 1</b>		228	507912	<b>6068 79 3</b>		264
583099	<b>6059 16 6</b>		243	582964	<b>6059 63 3</b>		244	569468	<b>6062 32 7</b>		222	507913	<b>6068 79 5</b>		264
583100	<b>6059 16 8</b>		243	582965	<b>6059 63 5</b>		244	569469	<b>6062 33 1</b>		238	507914	<b>6068 79 7</b>		264
583103	<b>6059 17 3</b>		243	582966	<b>6059 63 7</b>		244	569470	<b>6062 33 5</b>		246	507917	<b>6068 79 9</b>		264
583104	<b>6059 17 5</b>		243	582967	<b>6059 63 9</b>		244	569471	<b>6062 33 8</b>		312	588944	<b>6068 90 0</b>		219
583105	<b>6059 17 7</b>		243	582968	<b>6059 64 1</b>		244					588948	<b>6068 90 2</b>		219
583106	<b>6059 17 9</b>		243	582969	<b>6059 64 3</b>		244	606397	<b>6063 77 2</b>		386	588949	<b>6068 90 4</b>		219
583110	<b>6059 18 1</b>		243	582984	<b>6059 68 8</b>		227	606403	<b>6063 78 0</b>		386	588950	<b>6068 91 4</b>		229
583111	<b>6059 18 3</b>		243	582985	<b>6059 69 0</b>		227	606409	<b>6063 79 9</b>		386	588951	<b>6068 91 6</b>		229
583112	<b>6059 18 5</b>		243	582986	<b>6059 69 2</b>		227	606415	<b>6063 84 5</b>		386	588952	<b>6068 91 8</b>		229
583134	<b>6059 23 0</b>		226	582987	<b>6059 69 4</b>		227	606421	<b>6063 86 1</b>		386	588953	<b>6068 92 0</b>		229
583135	<b>6059 23 2</b>		226	582988	<b>6059 69 6</b>		227	606427	<b>6063 88 8</b>		386	588954	<b>6068 92 2</b>		229
583136	<b>6059 23 4</b>		226	582989	<b>6059 69 8</b>		227					588955	<b>6068 92 4</b>		229
583137	<b>6059 23 7</b>		226	582990	<b>6059 70 0</b>		227			/pc.		588956	<b>6068 92 6</b>		229
583138	<b>6059 23 9</b>		226	582991	<b>6059 70 5</b>		227	606433	<b>6065 00 7</b>		255	589049	<b>6068 93 6</b>		229
583139	<b>6059 24 1</b>		226	582992	<b>6059 70 7</b>		227	606439	<b>6065 10 4</b>		364	589050	<b>6068 93 8</b>		229
583140	<b>6059 24 3</b>		226	583063	<b>6059 70 9</b>		227	606445	<b>6065 11 2</b>		364	589051	<b>6068 94 0</b>		229
583141	<b>6059 24 8</b>		226	583064	<b>6059 71 1</b>		227	606451	<b>6065 14 7</b>		255	589052	<b>6068 94 2</b>		229
583142	<b>6059 25 0</b>		226	583065	<b>6059 71 3</b>		227	606463	<b>6065 30 9</b>		419	589056	<b>6068 94 4</b>		229
583143	<b>6059 25 2</b>		226	583066	<b>6059 71 5</b>		227	606469	<b>6065 31 7</b>		419	589057	<b>6068 94 6</b>		229
583144	<b>6059 25 4</b>		226	583067	<b>6059 71 7</b>		227	651793	<b>6065 50 3</b>		254	589058	<b>6068 94 8</b>		229
583145	<b>6059 25 6</b>		226	583344	<b>6059 76 2</b>		238	651787	<b>6065 51 1</b>		254	588957	<b>6068 95 8</b>		389
583146	<b>6059 25 8</b>		226	583345	<b>6059 76 4</b>		238	651781	<b>6065 53 8</b>		254	588958	<b>6068 96 0</b>		389
583147	<b>6059 26 0</b>		226	583346	<b>6059 76 6</b>		238	651775	<b>6065 54 6</b>		254	588959	<b>6068 96 2</b>		389
583162	<b>6059 30 8</b>		237	583350	<b>6059 76 8</b>		238	651721	<b>6065 55 4</b>		254	588960	<b>6068 96 4</b>		389
583163	<b>6059 31 0</b>		237	583351	<b>6059 77 0</b>		238			/100 pc.		588961	<b>6068 96 6</b>		389
583164	<b>6059 31 2</b>		237	583352	<b>6059 77 2</b>		238	644137	<b>6065 60 0</b>		254	588962	<b>6068 96 8</b>		389
583165	<b>6059 31 4</b>		237	583355	<b>6059 77 4</b>		238	661705	<b>6065 61 0</b>		254	588963	<b>6068 97 0</b>		389
583166	<b>6059 31 6</b>		237	583356	<b>6059 77 9</b>		238					588964	<b>6068 98 0</b>		435
583167	<b>6059 31 8</b>		237	583357	<b>6059 78 1</b>		238					588965	<b>6068 98 2</b>		435
583168	<b>6059 32 0</b>		237	583358	<b>6059 78 3</b>		238			/pc.		588966	<b>6068 98 4</b>		435
583169	<b>6059 32 5</b>		237	583362	<b>6059 78 5</b>		238	606475	<b>6066 04 6</b>		366	588967	<b>6068 98 6</b>		435
583170	<b>6059 32 7</b>		237	583363	<b>6059 78 7</b>		238	606481	<b>6066 05 4</b>		420	588968	<b>6068 98 8</b>		435
583171	<b>6059 32 9</b>		237	583364	<b>6059 78 9</b>		238					588971	<b>6068 99 0</b>		435
583172	<b>6059 33 1</b>		237	583367	<b>6059 79 1</b>		238			/100 pc.		588972	<b>6068 99 2</b>		

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589024	<b>6069 11 2</b>		247	606925	<b>6075 30 4</b>		417	662473	<b>6098 35 2</b>		309	512311	<b>6108 15 2</b>		356
589025	<b>6069 11 4</b>		247	586622	<b>6075 30 6</b>		448	635227	<b>6098 35 6</b>		309	512316	<b>6108 15 4</b>		356
589026	<b>6069 11 6</b>		247	581112	<b>6075 32 0</b>		362	635233	<b>6098 36 0</b>		309	512324	<b>6108 15 9</b>		356
589027	<b>6069 11 8</b>		247	581113	<b>6075 32 5</b>		362	635239	<b>6098 40 5</b>		309	512335	<b>6108 16 4</b>		356
589028	<b>6069 12 0</b>		247	581114	<b>6075 33 0</b>		417	635245	<b>6098 40 9</b>		309				
589029	<b>6069 12 2</b>		247	586625	<b>6075 33 2</b>		448	635251	<b>6098 41 3</b>		309				
589030	<b>6069 12 4</b>		247	581118	<b>6075 34 5</b>		362	635257	<b>6098 41 7</b>		309			/m	
		/pc.		581119	<b>6075 35 0</b>		362	600097	<b>6098 42 1</b>		309	506348	<b>6200 50 8</b>		290
606775	<b>6069 32 0</b>		239	581120	<b>6075 35 5</b>		418	600103	<b>6098 44 5</b>		309	506351	<b>6200 51 1</b>		290
606781	<b>6069 33 9</b>		247	586626	<b>6075 35 7</b>		448	600109	<b>6098 44 9</b>		309	506352	<b>6200 51 4</b>		290
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584856	<b>6069 60 0</b>		351	581125	<b>6075 37 5</b>		363	600121	<b>6098 45 7</b>		309	506354	<b>6200 52 0</b>		290
584857	<b>6069 60 7</b>		351	581126	<b>6075 38 0</b>		418	600127	<b>6098 46 1</b>		309	506357	<b>6200 54 0</b>		291
584858	<b>6069 61 4</b>		351	586627	<b>6075 38 2</b>		449	524251	<b>6098 47 5</b>		309	506358	<b>6200 54 3</b>		291
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584860	<b>6069 65 2</b>		352	606931	<b>6076 14 9</b>		362	524253	<b>6098 48 3</b>		409	506360	<b>6200 54 9</b>		291
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584866	<b>6069 71 8</b>		352	606949	<b>6080 19 7</b>		419	680833	<b>6098 51 7</b>		311	506370	<b>6200 59 5</b>		290
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589231	<b>6069 79 3</b>		349	581136	<b>6080 89 0</b>		364	568361	<b>6098 57 7</b>		409	506384	<b>6200 63 2</b>		291
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589235	<b>6069 79 8</b>		350	581138	<b>6080 91 0</b>		364			/pc.		506388	<b>6200 64 6</b>		291
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589236	<b>6069 84 0</b>		349					633535	<b>6098 71 1</b>		312	506393	<b>6200 65 5</b>		291
589237	<b>6069 84 2</b>		349	607045	<b>6085 60 1</b>		388	633541	<b>6098 71 5</b>		312	506394	<b>6200 65 8</b>		291
589238	<b>6069 84 4</b>		349	607051	<b>6085 62 8</b>		388	633547	<b>6098 71 9</b>		312			/pc.	
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				634321	<b>6085 67 2</b>		434	665665	<b>6098 80 0</b>		313	506552	<b>6200 92 9</b>		292
585834	<b>6069 86 0</b>		351	695551	<b>6085 67 3</b>		434	665671	<b>6098 80 4</b>		313				
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585838	<b>6069 88 2</b>		352					633577	<b>6098 82 7</b>		313	612655	<b>6203 05 1</b>		293
585839	<b>6069 88 4</b>		352			/pc.		633583	<b>6098 83 1</b>		313	612661	<b>6203 07 8</b>		293
				634663	<b>6087 96 5</b>		229	633589	<b>6098 83 5</b>		313	612673	<b>6203 12 4</b>		293
589772	<b>6069 89 5</b>		348					665677	<b>6098 83 9</b>		313	612679	<b>6203 13 2</b>		293
589775	<b>6069 89 7</b>		348	629917	<b>6091 16 4</b>		308	665701	<b>6098 84 3</b>		313	612685	<b>6203 14 0</b>		293
				629923	<b>6091 18 0</b>		308	524254	<b>6098 86 0</b>		313	612691	<b>6203 15 9</b>		293
		/m		690181	<b>6091 22 9</b>		407	524255	<b>6098 86 4</b>		313	612697	<b>6203 16 7</b>		293
				540307	<b>6091 23 4</b>		446	569634	<b>6098 86 8</b>		410				
606823	<b>6070 24 8</b>		366	629929	<b>6091 31 8</b>		308			/m		613213	<b>6205 03 8</b>		293
606829	<b>6070 34 5</b>		366	629935	<b>6091 33 4</b>		308				444	613219	<b>6205 04 6</b>		293
606835	<b>6070 44 2</b>		366	689701	<b>6091 33 8</b>		408	615931	<b>6101 20 0</b>		444	613225	<b>6205 05 4</b>		293
606841	<b>6070 77 9</b>		419	630961	<b>6091 37 7</b>		308	651403	<b>6101 20 8</b>		444	613231	<b>6205 06 2</b>		293
606847	<b>6070 78 7</b>		419	630967	<b>6091 39 3</b>		308	502211	<b>6101 21 6</b>		444	613237	<b>6205 07 0</b>		293
606853	<b>6070 79 5</b>		420			/m		502212	<b>6101 22 3</b>		444	613249	<b>6205 12 7</b>		293
								652495	<b>6101 23 2</b>		444	613255	<b>6205 13 5</b>		293
		/100 m		635143	<b>6098 11 1</b>		308					613261	<b>6205 14 3</b>		293
				635149	<b>6098 11 5</b>		308	642073	<b>6103 23 5</b>		304	613267	<b>6205 15 1</b>		293
629557	<b>6072 89 5</b>		213	635155	<b>6098 11 9</b>		308	642085	<b>6103 25 1</b>		304	613273	<b>6205 17 8</b>		293
629539	<b>6072 90 9</b>		213	635161	<b>6098 12 3</b>		308	642097	<b>6103 28 6</b>		304	613357	<b>6205 53 4</b>		293
		/pc.		635167	<b>6098 12 7</b>		308	642109	<b>6103 31 6</b>		304	613363	<b>6205 54 2</b>		293
545345	<b>6074 90 1</b>		354	635173	<b>6098 14 1</b>		308	642121	<b>6103 33 2</b>		304	613369	<b>6205 55 0</b>		293
545346	<b>6074 91 2</b>		354	637003	<b>6098 14 5</b>		308	628945	<b>6103 42 1</b>		304	613375	<b>6205 56 9</b>		293
545347	<b>6074 92 1</b>		354	603427	<b>6098 14 9</b>		308	630865	<b>6103 44 8</b>		304	613381	<b>6205 57 7</b>		293
545348	<b>6074 95 2</b>		355	603403	<b>6098 15 3</b>		308	630859	<b>6103 45 6</b>		304	613393	<b>6205 62 3</b>		293
545351	<b>6074 96 1</b>		354	603397	<b>6098 15 7</b>		308	630853	<b>6103 46 4</b>		304	613399	<b>6205 63 1</b>		293
545352	<b>6074 97 2</b>		355	568350	<b>6098 16 1</b>		407	630847	<b>6103 48 0</b>		304	613405	<b>6205 65 8</b>		293
		/m		568351	<b>6098 16 5</b>		407	503735	<b>6103 61 4</b>		411	613411	<b>6205 66</b>		

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569559	<b>6207 99 5</b>		330	614929	<b>6213 16 2</b>		298	615745	<b>6217 66 4</b>		301	616915	<b>6227 03 1</b>		317
569560	<b>6207 99 7</b>		330	614935	<b>6213 17 0</b>		298	615751	<b>6217 67 2</b>		301	616921	<b>6227 05 8</b>		317
569561	<b>6207 99 9</b>		330	614947	<b>6213 22 7</b>		298	615763	<b>6217 72 9</b>		301	616927	<b>6227 06 6</b>		317
				614953	<b>6213 23 5</b>		298	615769	<b>6217 73 7</b>		301	616933	<b>6227 07 4</b>		317
506395	<b>6208 50 6</b>		294	614959	<b>6213 24 3</b>		298	615775	<b>6217 74 5</b>		301	616939	<b>6227 12 0</b>		317
506396	<b>6208 50 9</b>		294	614965	<b>6213 25 1</b>		298	615781	<b>6217 75 3</b>		301	616945	<b>6227 13 9</b>		317
506399	<b>6208 51 2</b>		294	614971	<b>6213 27 8</b>		298	615787	<b>6217 76 1</b>		301	616951	<b>6227 14 7</b>		317
506400	<b>6208 51 5</b>		294	614983	<b>6213 32 4</b>		298					616957	<b>6227 15 5</b>		317
506401	<b>6208 51 8</b>		294	614989	<b>6213 33 2</b>		298	616015	<b>6218 82 2</b>		301	616963	<b>6227 16 3</b>		317
506402	<b>6208 53 8</b>		295	614995	<b>6213 34 0</b>		298	616021	<b>6218 83 0</b>		301	590996	<b>6227 17 0</b>		447
506405	<b>6208 54 1</b>		295	615001	<b>6213 35 9</b>		298	616027	<b>6218 84 9</b>		301	590999	<b>6227 17 2</b>		447
506406	<b>6208 54 4</b>		295	615007	<b>6213 36 7</b>		298	616033	<b>6218 85 7</b>		301	591000	<b>6227 17 4</b>		447
506407	<b>6208 54 7</b>		295	615019	<b>6213 52 9</b>		297	616039	<b>6218 86 5</b>		301	591001	<b>6227 17 6</b>		447
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543415	<b>6208 56 2</b>		295	615031	<b>6213 54 5</b>		297	616057	<b>6218 94 6</b>		301	575126	<b>6227 36 0</b>		413
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# Numeric directory

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

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570536	<b>6342 40 3</b>	/pc.	373	619531	<b>6355 35 8</b>	/pair	381	614821	<b>6363 90 7</b>	/pc.	161	604920	<b>6404 01 4</b>	/100 pc.	214
570537	<b>6342 40 5</b>		373	619537	<b>6355 40 4</b>		381	591292	<b>6363 90 9</b>		424				
570538	<b>6342 40 7</b>		373	619543	<b>6355 41 2</b>		381			/pc.	161	619981	<b>6406 12 2</b>		204
570539	<b>6342 40 9</b>		373	619549	<b>6355 42 0</b>		381	688147	<b>6363 91 1</b>		424	505958	<b>6406 12 5</b>		204
570540	<b>6342 41 1</b>		373	619555	<b>6355 43 9</b>		381	591293	<b>6363 91 3</b>			656311	<b>6406 13 0</b>		204
570541	<b>6342 41 3</b>		373	619561	<b>6355 44 7</b>		381			/pc.	161	505956	<b>6406 13 3</b>		204
570542	<b>6342 41 5</b>		373	611449	<b>6355 80 0</b>		195	688153	<b>6363 93 8</b>		424				
570543	<b>6342 41 7</b>		373	611461	<b>6355 80 4</b>		195	591294	<b>6363 94 0</b>						
622549	<b>6342 45 0</b>		169	657907	<b>6355 80 8</b>		195			/pc.	161	607759	<b>6406 13 8</b>		383
570570	<b>6342 45 5</b>		373	657925	<b>6355 81 2</b>		195	688159	<b>6363 94 6</b>		424	607837	<b>6406 14 2</b>		430
570571	<b>6342 45 7</b>		373					591295	<b>6363 94 8</b>			619987	<b>6406 15 7</b>		204
570572	<b>6342 46 0</b>		373							/pc.		661615	<b>6406 18 1</b>		204
570576	<b>6342 46 3</b>		373	537307	<b>6356 05 5</b>		158					607771	<b>6406 18 9</b>		383
570577	<b>6342 46 6</b>		373	619567	<b>6356 10 9</b>		158			/pc.		607843	<b>6406 19 3</b>		430
570637	<b>6342 46 8</b>		373	629575	<b>6356 31 1</b>		365	619897	<b>6364 10 1</b>		165	619999	<b>6406 20 3</b>		204
570578	<b>6342 48 5</b>		425	629587	<b>6356 36 2</b>		365	619903	<b>6364 15 2</b>		165	592524	<b>6406 20 5</b>		383
570582	<b>6342 48 8</b>		425	629581	<b>6356 39 7</b>		365	619909	<b>6364 20 9</b>		165	592525	<b>6406 20 7</b>		430
570583	<b>6342 49 1</b>		425	647119	<b>6356 91 5</b>		365	619927	<b>6364 30 6</b>		165	620005	<b>6406 25 4</b>		177
570584	<b>6342 49 4</b>		425					619933	<b>6364 32 2</b>		164	620011	<b>6406 27 0</b>		204
570587	<b>6342 49 7</b>		425	629635	<b>6357 00 8</b>		365	619939	<b>6364 34 9</b>		164	620023	<b>6406 52 1</b>		383
561847	<b>6342 50 5</b>		425	629641	<b>6357 01 6</b>		365	619945	<b>6364 36 5</b>		164	620029	<b>6406 55 6</b>		383
539535	<b>6342 53 0</b>		424	552366	<b>6357 50 6</b>		158					629131	<b>6406 56 4</b>		430
				552367	<b>6357 51 6</b>		372	647371	<b>6364 40 3</b>		164	681757	<b>6406 58 0</b>		430
653683	<b>6346 71 5</b>		196	552368	<b>6357 53 6</b>		158	647377	<b>6364 50 0</b>		164	620035	<b>6406 60 2</b>		383
653689	<b>6346 73 1</b>		196	552372	<b>6357 53 8</b>		372	647383	<b>6364 60 8</b>		164	660307	<b>6406 61 0</b>		430
634015	<b>6346 75 8</b>		187									620041	<b>6406 69 6</b>		383
570393	<b>6346 76 3</b>		187	676555	<b>6358 50 0</b>		160	566808	<b>6364 62 5</b>		166	620047	<b>6406 71 8</b>		374
634681	<b>6346 80 4</b>		176	687469	<b>6358 51 0</b>		160					620053	<b>6406 72 6</b>		383
634687	<b>6346 82 0</b>		177	676567	<b>6358 52 7</b>		160	647389	<b>6364 65 9</b>		165	620059	<b>6406 75 0</b>		378
				676573	<b>6358 53 5</b>		160	647395	<b>6364 66 7</b>		165	620065	<b>6406 76 9</b>		383
619051	<b>6347 05 3</b>		189	676579	<b>6358 54 3</b>		160	647401	<b>6364 67 5</b>		165	606432	<b>6406 78 5</b>		430
619057	<b>6347 06 1</b>		189	536406	<b>6358 69 0</b>		159	655567	<b>6364 68 3</b>		165	620071	<b>6406 80 7</b>		383
619063	<b>6347 08 8</b>		190	536407	<b>6358 69 2</b>		159	628273	<b>6364 80 2</b>		166	620077	<b>6406 81 5</b>		383
619087	<b>6347 84 3</b>		190	536408	<b>6358 69 4</b>		159	561773	<b>6364 84 8</b>		370	620083	<b>6406 82 3</b>		383
				693937	<b>6358 70 5</b>		159	561786	<b>6364 85 0</b>		370	620089	<b>6406 86 6</b>		383
619093	<b>6348 10 6</b>		190	693943	<b>6358 70 9</b>		159	561787	<b>6364 85 2</b>		370	682207	<b>6406 87 0</b>		426
619099	<b>6348 15 7</b>		190	693949	<b>6358 71 3</b>		159	573315	<b>6364 87 1</b>		371	643789	<b>6406 87 2</b>		430
646597	<b>6348 40 8</b>		206	693955	<b>6358 71 7</b>		159	573316	<b>6364 87 6</b>		371	504524	<b>6406 90 7</b>		204
646609	<b>6348 44 0</b>		206	694717	<b>6358 75 2</b>		159	573317	<b>6364 88 1</b>		371	620119	<b>6406 93 9</b>		204
634021	<b>6348 87 4</b>		169	694723	<b>6358 75 6</b>		159					620125	<b>6406 96 3</b>		204
570601	<b>6348 87 6</b>		374	694729	<b>6358 76 0</b>		159	651175	<b>6365 90 6</b>		163	620131	<b>6406 97 1</b>		204
570602	<b>6348 87 7</b>		425	694735	<b>6358 76 4</b>		159	604260	<b>6365 91 4</b>		163	620137	<b>6406 99 8</b>		204
535482	<b>6348 88 1</b>		170	526861	<b>6358 81 0</b>		359	651181	<b>6365 92 2</b>		163				
535483	<b>6348 88 3</b>		170	543576	<b>6358 85 3</b>		160	698432	<b>6365 94 9</b>		163	620143	<b>6407 04 8</b>		204
570603	<b>6348 88 4</b>		374	543577	<b>6358 85 6</b>		160	507690	<b>6365 97 7</b>		163	620173	<b>6407 47 1</b>		204
539539	<b>6348 88 5</b>		425	543578	<b>6358 86 0</b>		160	507691	<b>6365 98 1</b>		163	592526	<b>6407 52 4</b>		430
616891	<b>6348 90 4</b>		172	543581	<b>6358 86 4</b>		160	507692	<b>6365 98 5</b>		163	620179	<b>6407 52 8</b>		204
690145	<b>6348 92 0</b>		173	543582	<b>6358 86 8</b>		160	561774	<b>6365 98 9</b>		370				
501836	<b>6348 92 5</b>		376	543583	<b>6358 88 4</b>		160	561775	<b>6365 99 0</b>		370	620185	<b>6407 53 6</b>		167
501845	<b>6348 92 7</b>		427	543584	<b>6358 88 8</b>		160	561776	<b>6365 99 3</b>		370				
643777	<b>6348 93 9</b>		172	543587	<b>6358 89 2</b>		160	561777	<b>6365 99 5</b>		370	620191	<b>6407 56 0</b>		170
643783	<b>6348 94 7</b>		376	543588	<b>6358 89 6</b>		160					620197	<b>6407 57 9</b>		204
				543589	<b>6358 90 0</b>		160	662755	<b>6366 01 5</b>		166				
619135	<b>6349 05 6</b>		176					662761	<b>6366 02 3</b>		166				
619141	<b>6349 10 2</b>		175	619633	<b>6361 02 1</b>		188	654535	<b>6366 03 1</b>		166	647953	<b>6408 47 8</b>		177
619147	<b>6349 15 3</b>		176	619639	<b>6361 05 6</b>		188	654529	<b>6366 06 6</b>		166	620215	<b>6408 51 6</b>		167
619153	<b>6349 19 6</b>		378	619645	<b>6361 07 2</b>		188	607903	<b>6366 09 0</b>		166	647995	<b>6408 70 2</b>		205
619159	<b>6349 21 8</b>		176	619651	<b>6361 09 9</b>		188	542492	<b>6366 09 3</b>		166	648001	<b>6408 71 0</b>		205
619165	<b>6349 27 7</b>		378	619657	<b>6361 11 0</b>		188	507695	<b>6366 13 1</b>		166	648007	<b>6408 72 9</b>		205
				619663	<b>6361 13 7</b>		188	507696	<b>6366 13 5</b>		166	648013	<b>6408 73 7</b>		205
619171	<b>6349 40 4</b>		199	619669	<b>6361 15 3</b>		188	507697	<b>6366 13 9</b>		166				
619177	<b>6349 41 2</b>		199	619675	<b>6361 18 8</b>		188	507698	<b>6366 14 3</b>		166	591096	<b>6408 92 0</b>		430
619183	<b>6349 43 9</b>		199	619681	<b>6361 21 8</b>		188	561778	<b>6366 14 5</b>		371	591098	<b>6408 93 0</b>		430
619189	<b>6349 44 7</b>		199	619687	<b>6361 23 4</b>		188	561779	<b>6366 14 6</b>		371	591104	<b>6408 94 0</b>		430
619195	<b>6349 46 3</b>		199	619693	<b>6361 25 0</b>		188	561780	<b>6366 14 8</b>		371				
				619699	<b>6361 27 7</b>		188	561781	<b>6366 14 9</b>		371	662395	<b>6408 95 8</b>	/100 pc.	206
				619705	<b>6361 29 3</b>		188					607849	<b>6408 96 2</b>		206
619429	<b>6354 10 6</b>		194	619711	<b>6361 31 5</b>		188	566809	<b>6372 88 1</b>		200	607855	<b>6408 96 6</b>		277
619435	<b>6354 11 4</b>		194	619717	<b>6361 33 1</b>		188	566810	<b>6372 89 8</b>		200	607861	<b>6408 97 0</b>		430
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620287	<b>6416 51 9</b>	/pc.	175	505867	<b>6419 50 1</b>	/pc.	185	543852	<b>6424 55 0</b>	/pc.	179	588660	<b>7006 73 2</b>	/pc.	437
620293	<b>6416 52 7</b>		378	505872	<b>6419 50 5</b>		185	543853	<b>6424 55 2</b>		179	588661	<b>7006 73 6</b>		437
				505874	<b>6419 50 9</b>		185	543854	<b>6424 55 4</b>		179	588662	<b>7006 74 0</b>		437
620299	<b>6416 55 1</b>		167	505879	<b>6419 51 3</b>		185	543857	<b>6424 55 6</b>		179	588645	<b>7006 75 0</b>		437
				505884	<b>6419 51 7</b>		185					588647	<b>7006 75 4</b>		437
655561	<b>6416 58 6</b>		167	591301	<b>6419 51 9</b>		430	632473	<b>6424 60 0</b>		180	588648	<b>7006 75 8</b>		437
561788	<b>6416 59 4</b>		372	591302	<b>6419 52 0</b>		430	632503	<b>6424 60 8</b>		180	588650	<b>7006 76 2</b>		437
				591303	<b>6419 52 1</b>		430	632533	<b>6424 61 6</b>		180	588653	<b>7006 76 6</b>		437
620347	<b>6417 75 2</b>		185	591304	<b>6419 52 2</b>		430	632563	<b>6424 62 4</b>		180	588654	<b>7006 77 0</b>		437
620353	<b>6417 77 9</b>		185	591305	<b>6419 52 3</b>		430								
620359	<b>6417 79 5</b>		185					/pc.	663685	<b>6424 71 6</b>		178	504731	<b>7007 00 1</b>	233
620365	<b>6417 81 7</b>		185	620629	<b>6419 53 4</b>		186	663697	<b>6424 73 2</b>		178	586333	<b>7007 00 2</b>		233
620371	<b>6417 83 3</b>		185	620635	<b>6419 55 0</b>		186	663703	<b>6424 74 0</b>		178	504732	<b>7007 00 5</b>		233
620377	<b>6417 86 8</b>		185	620641	<b>6419 57 7</b>		186	663709	<b>6424 75 9</b>		178	570373	<b>7007 00 6</b>		233
620383	<b>6417 88 4</b>		185	620647	<b>6419 59 3</b>		186					504733	<b>7007 00 9</b>		233
634027	<b>6417 90 6</b>		186	620653	<b>6419 61 5</b>		186					504734	<b>7007 01 3</b>		233
634033	<b>6417 91 0</b>		186	591306	<b>6419 64 0</b>		430	620887	<b>6437 10 9</b>		278	570374	<b>7007 01 4</b>		233
634039	<b>6417 91 4</b>		186	591307	<b>6419 64 2</b>		430					504737	<b>7007 01 7</b>		233
634045	<b>6417 91 8</b>		186	591308	<b>6419 64 4</b>		430	620893	<b>6442 80 3</b>		380	586334	<b>7007 01 8</b>		233
634051	<b>6417 92 2</b>		186	591309	<b>6419 64 6</b>		430	620905	<b>6442 83 8</b>		380	504738	<b>7007 02 1</b>		233
634057	<b>6417 92 6</b>		186	591310	<b>6419 64 8</b>		430	620911	<b>6442 85 4</b>		380	586338	<b>7007 02 2</b>		233
634063	<b>6417 93 0</b>		186					620917	<b>6442 87 0</b>		380	504739	<b>7007 02 5</b>		233
634069	<b>6417 93 4</b>		186					620923	<b>6442 89 7</b>		380	586339	<b>7007 02 6</b>		233
634075	<b>6417 93 8</b>		186	620659	<b>6419 70 4</b>	/pc.	183	620929	<b>6442 91 9</b>		380	504740	<b>7007 02 9</b>		233
				620665	<b>6419 71 2</b>		183					586340	<b>7007 03 0</b>		233
				620671	<b>6419 72 0</b>		183	644143	<b>6443 06 3</b>		381	504743	<b>7007 05 1</b>		233
				620677	<b>6419 74 7</b>		183	644149	<b>6443 06 7</b>		381	586328	<b>7007 05 2</b>		233
634879	<b>6418 24 4</b>	/100 pc.	158	620683	<b>6419 76 3</b>		183	661711	<b>6443 07 1</b>		381	504744	<b>7007 05 5</b>		233
682213	<b>6418 24 8</b>		374	620689	<b>6419 79 8</b>		183	666109	<b>6443 07 5</b>		381	547681	<b>7007 05 6</b>		233
643747	<b>6418 25 0</b>		170	620695	<b>6419 82 8</b>		183	666115	<b>6443 07 9</b>		381	504745	<b>7007 05 9</b>		233
651847	<b>6418 25 2</b>		170					666187	<b>6443 08 3</b>		381	504746	<b>7007 06 3</b>		233
620437	<b>6418 27 9</b>		379	648373	<b>6419 83 6</b>		183	634975	<b>6443 31 1</b>		429	570378	<b>7007 06 4</b>		233
620443	<b>6418 28 7</b>		177					655447	<b>6443 34 6</b>		429	504749	<b>7007 06 7</b>		233
620449	<b>6418 29 5</b>		177	620701	<b>6419 84 4</b>		183	502104	<b>6443 61 5</b>		429	586329	<b>7007 06 8</b>		233
620455	<b>6418 31 7</b>		177					695587	<b>6443 62 1</b>		429	504750	<b>7007 07 1</b>		233
620461	<b>6418 36 8</b>		379					502109	<b>6443 62 5</b>		429	586330	<b>7007 07 2</b>		233
620467	<b>6418 37 6</b>		379	666247	<b>6420 60 6</b>		182	504972	<b>6443 62 6</b>		429	504751	<b>7007 07 5</b>		233
				607915	<b>6420 60 7</b>		182	502110	<b>6443 62 7</b>		429	586331	<b>7007 07 6</b>		233
				666253	<b>6420 60 8</b>		182					504752	<b>7007 07 9</b>		233
620473	<b>6418 55 4</b>	/pc.	184	666259	<b>6420 61 0</b>		182	621631	<b>7005 00 8</b>		221	586332	<b>7007 08 0</b>		233
591296	<b>6418 55 7</b>		429	666265	<b>6420 61 2</b>		182	694741	<b>7005 01 6</b>		221	568855	<b>7007 10 5</b>		391
				666271	<b>6420 61 4</b>		182	621637	<b>7005 02 4</b>		221	588618	<b>7007 10 9</b>		391
620479	<b>6418 57 0</b>	/pc.	184	666277	<b>6420 61 6</b>		182	621643	<b>7005 04 0</b>		221	588619	<b>7007 11 3</b>		391
591297	<b>6418 57 3</b>		429	505837	<b>6420 62 5</b>		380	621649	<b>7005 06 7</b>		221	588620	<b>7007 11 7</b>		391
				505838	<b>6420 62 8</b>		380	621655	<b>7005 32 6</b>		234	588623	<b>7007 11 9</b>		391
620485	<b>6418 59 7</b>	/pc.	184	505842	<b>6420 63 1</b>		380	650023	<b>7005 33 4</b>		234	588624	<b>7007 12 1</b>		391
591298	<b>6418 60 1</b>		429	505843	<b>6420 63 4</b>		380	621661	<b>7005 34 2</b>		234	568856	<b>7007 15 5</b>		391
				505850	<b>6420 63 7</b>		380	621667	<b>7005 36 9</b>		234	588611	<b>7007 15 7</b>		391
620491	<b>6418 61 9</b>	/pc.	184	505854	<b>6420 64 0</b>		380	621673	<b>7005 38 5</b>		234	588612	<b>7007 15 9</b>		391
591299	<b>6418 62 2</b>		429	570630	<b>6420 64 2</b>		428	621679	<b>7005 40 7</b>		234	588613	<b>7007 16 1</b>		391
				570631	<b>6420 64 4</b>		428	621685	<b>7005 42 3</b>		234	588614	<b>7007 16 3</b>		391
620497	<b>6418 62 7</b>	/pc.	184	539536	<b>6420 64 6</b>		428	621691	<b>7005 46 6</b>		242	588617	<b>7007 16 5</b>		391
620503	<b>6418 63 5</b>		184	570605	<b>6420 64 8</b>		428	621697	<b>7005 48 2</b>		242	571141	<b>7007 17 0</b>		221
591300	<b>6418 63 8</b>		429	570632	<b>6420 65 0</b>		428	621703	<b>7005 50 4</b>		242	571142	<b>7007 17 4</b>		221
				570635	<b>6420 65 2</b>		428	621709	<b>7005 52 0</b>		242	571143	<b>7007 17 8</b>		221
620509	<b>6418 65 1</b>	/pc.	184					621715	<b>7005 54 7</b>		242	571144	<b>7007 18 2</b>		221
620515	<b>6418 68 6</b>		184	620707	<b>6420 65 6</b>		181	621721	<b>7005 56 3</b>		242	571145	<b>7007 18 6</b>		221
620521	<b>6418 70 8</b>		184	620713	<b>6420 66 4</b>		181	621727	<b>7005 62 8</b>		251	571146	<b>7007 20 0</b>		221
620527	<b>6418 72 4</b>		184	620719	<b>6420 68 0</b>		181	621733	<b>7005 64 4</b>		251	571147	<b>7007 20 4</b>		221
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620533	<b>6418 75 9</b>		192	620731	<b>6420 74 5</b>		181	621745	<b>7005 68 7</b>		251	571151	<b>7007 21 2</b>		221
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620557	<b>6418 81 3</b>		192					621787	<b>7006 32 2</b>		233	571154	<b>7007 23 4</b>		241
620563	<b>6418 84 8</b>		192					650035	<b>7006 33 0</b>		233	586351	<b>7007 23 5</b>		241
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648163	<b>6418 87 2</b>		192	506195	<b>6421 03 6</b>										



# Numeric directory

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571172	<b>7007 31 4</b>		250	609482	<b>7070 20 9</b>		252	623107	<b>7083 10 6</b>		252				
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586361	<b>7007 31 9</b>		250	609494	<b>7070 21 7</b>		252	623119	<b>7083 20 3</b>		252	624181	<b>7109 29 6</b>		231
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571177	<b>7007 32 6</b>		250	609506	<b>7070 22 5</b>		252	623131	<b>7083 40 8</b>		252	624193	<b>7109 50 4</b>		231
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580920	<b>7007 40 4</b>		250	609590	<b>7070 36 9</b>		391	623203	<b>7084 01 3</b>		392	624265	<b>7110 50 2</b>		239
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				502158	<b>7070 39 2</b>		437	623227	<b>7084 10 2</b>		392	624289	<b>7111 20 7</b>		248
592738	<b>7027 00 1</b>		232	502160	<b>7070 39 4</b>		437	623233	<b>7084 12 9</b>		392	624301	<b>7111 30 4</b>		248
592739	<b>7027 00 3</b>		232	502176	<b>7070 39 6</b>		437	586633	<b>7084 14 1</b>		437	624313	<b>7111 42 8</b>		248
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592754	<b>7027 03 1</b>		232									507926	<b>7130 75 3</b>		266
592758	<b>7027 03 3</b>		232	622843	<b>7076 09 6</b>		242	516326	<b>7085 10 8</b>		253	571189	<b>7130 76 0</b>		257
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592760	<b>7027 04 3</b>		391	622855	<b>7076 30 4</b>		242	528679	<b>7085 11 2</b>		253	571193	<b>7130 76 8</b>		257
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592767	<b>7027 05 1</b>		391									504756	<b>7130 80 5</b>		257
592768	<b>7027 05 3</b>		391	622879	<b>7077 10 6</b>		251			/m		504757	<b>7130 80 9</b>		257
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592771	<b>7027 06 5</b>		436	622897	<b>7077 40 8</b>		251					504762	<b>7130 82 1</b>		257
592772	<b>7027 06 7</b>		436	622903	<b>7077 50 5</b>		251	623971	<b>7104 36 7</b>		201	504763	<b>7130 82 5</b>		257
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592778	<b>7027 08 5</b>		241	622951	<b>7079 30 3</b>		233					504773	<b>7130 86 4</b>		257
592779	<b>7027 08 7</b>		241	622957	<b>7079 40 0</b>		233					504774	<b>7130 86 8</b>		257
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592784	<b>7027 10 3</b>		241	622981	<b>7080 20 4</b>		242	698270	<b>7106 11 8</b>		231	588632	<b>7130 90 9</b>		394
592785	<b>7027 10 5</b>		241	622987	<b>7080 30 1</b>		242	602461	<b>7106 12 2</b>		231	588636	<b>7130 91 1</b>		394
592786	<b>7027 10 7</b>		241	622993	<b>7080 40 9</b>		242	602473	<b>7106 12 6</b>		231	588638	<b>7130 91 3</b>		394
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592789	<b>7027 11 3</b>		241					624067	<b>7107 31 5</b>		239	588649	<b>7130 92 2</b>		439
592804	<b>7027 16 1</b>		249	623011	<b>7081 10 3</b>		250	624073	<b>7107 33 1</b>		239				

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507935	<b>7131 45 8</b>		266	592927	<b>7138 57 2</b>		393	593144	<b>7139 02 6</b>		394
507936	<b>7131 46 0</b>		266	592928	<b>7138 57 4</b>		393	593145	<b>7139 02 8</b>		394
507937	<b>7131 46 2</b>		266	592929	<b>7138 57 6</b>		393	593146	<b>7139 03 0</b>		394
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587440	<b>7131 52 4</b>		257	592936	<b>7138 59 6</b>		438	593153	<b>7139 05 0</b>		439
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587449	<b>7131 60 0</b>		257	593066	<b>7138 68 2</b>		256	626119	<b>7162 05 7</b>		406
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587454	<b>7131 63 2</b>		257	593068	<b>7138 68 6</b>		256	626131	<b>7162 08 1</b>		406
587455	<b>7131 63 4</b>		257	593069	<b>7138 68 8</b>		256				
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587462	<b>7131 64 8</b>		257	593073	<b>7138 72 2</b>		393	626197	<b>7164 04 1</b>		406
587466	<b>7131 65 2</b>		257	593076	<b>7138 72 4</b>		393	626203	<b>7164 06 8</b>		406
587467	<b>7131 67 2</b>		258	593077	<b>7138 72 6</b>		393			/m	
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587471	<b>7131 68 0</b>		258	593079	<b>7138 73 0</b>		393	506323	<b>7195 25 7</b>		331
587472	<b>7131 68 4</b>		258	593080	<b>7138 73 2</b>		438	506324	<b>7195 26 1</b>		331
587473	<b>7131 68 8</b>		258	593081	<b>7138 74 0</b>		438	506327	<b>7195 26 5</b>		331
587474	<b>7131 69 2</b>		258	593082	<b>7138 74 2</b>		438	506328	<b>7195 26 9</b>		331
				593084	<b>7138 74 6</b>		438				
625849	<b>7138 11 3</b>		391	593085	<b>7138 74 8</b>		438				
625855	<b>7138 12 1</b>		391	593086	<b>7138 75 0</b>		438				
625861	<b>7138 14 8</b>		391	593087	<b>7138 75 2</b>		438				
625867	<b>7138 15 6</b>		391	593088	<b>7138 79 0</b>		256				
625873	<b>7138 16 4</b>		391	593089	<b>7138 79 2</b>		256				
625879	<b>7138 17 2</b>		391	593090	<b>7138 79 4</b>		256				
592875	<b>7138 36 0</b>		255	593091	<b>7138 79 6</b>		256				
592876	<b>7138 36 2</b>		255	593092	<b>7138 79 8</b>		256				
592877	<b>7138 36 4</b>		255	593093	<b>7138 80 0</b>		256				
592878	<b>7138 36 6</b>		255	593094	<b>7138 80 2</b>		256				
592879	<b>7138 36 8</b>		255	593095	<b>7138 83 0</b>		256				
592881	<b>7138 37 0</b>		255	593096	<b>7138 83 2</b>		256				
592882	<b>7138 37 2</b>		255	593100	<b>7138 83 4</b>		256				
592883	<b>7138 40 0</b>		255	593101	<b>7138 83 6</b>		256				
592884	<b>7138 40 2</b>		255	593102	<b>7138 83 8</b>		256				
592886	<b>7138 40 4</b>		255	593105	<b>7138 84 0</b>		256				
592887	<b>7138 40 6</b>		255	593106	<b>7138 84 2</b>		256				
592888	<b>7138 40 8</b>		255	593107	<b>7138 86 0</b>		393				
592890	<b>7138 41 0</b>		255	593108	<b>7138 86 2</b>		393				
592891	<b>7138 41 2</b>		255	593111	<b>7138 86 4</b>		393				
592894	<b>7138 43 0</b>		393	593112	<b>7138 86 6</b>		393				
592895	<b>7138 43 2</b>		393	593113	<b>7138 86 8</b>		393				
592896	<b>7138 43 4</b>		393	593114	<b>7138 87 0</b>		393				
592897	<b>7138 43 6</b>		393	593115	<b>7138 87 2</b>		393				
592898	<b>7138 43 8</b>		393	593116	<b>7138 88 0</b>		439				
592899	<b>7138 44 0</b>		393	593117	<b>7138 88 2</b>		439				
592900	<b>7138 44 2</b>		393	593118	<b>7138 88 4</b>		439				
592901	<b>7138 45 0</b>		438	593119	<b>7138 88 6</b>		439				
592902	<b>7138 45 2</b>		438	593120	<b>7138 88 8</b>		439				
592903	<b>7138 45 4</b>		438	593123	<b>7138 89 0</b>		439				
592904	<b>7138 45 6</b>		438	593124	<b>7138 89 2</b>		439				
592905	<b>7138 45 8</b>		438	593125	<b>7138 93 0</b>		256				
592906	<b>7138 46 0</b>		438	593126	<b>7138 93 2</b>		256				
592907	<b>7138 46 2</b>		438	593127	<b>7138 93 4</b>		256				
592909	<b>7138 50 0</b>		255	593128	<b>7138 93 6</b>		256				
592910	<b>7138 50 2</b>		255	593129	<b>7138 93 8</b>		256				

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# Type listing

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.						/100 pc.	
342 M10X20 G	M10 x 20/20 / St / G	5256816	3160 20 3		204	2056 2 16 FT	12-16 / ST / FT	5065418	1161 16 4		339
342 M10X30 G	M10 x 30/30 / St / G	5256939	3160 30 0		204	2056 2 22 ALU	16-22 / AI	5435617	1183 40 0		341
342 M10X40 G	M10 x 40/40 / St / G	5257059	3160 40 8		204	2056 2 22 FT	16-22 / ST / FT	5065470	1161 22 9		339
342 M10X50 G	M10 x 50/50 / St / G	5257110	3160 50 5		204	2056 2 28 ALU	22-28 / AI	5435679	1183 41 9		341
342 M10X60 G	M10 x 60/60 / St / G	5257172	3160 60 2		204	2056 2 28 FT	22-28 / ST / FT	5065531	1161 28 8		339
342 M12X30 G	M12 x 30/30 / St / G	5257592	3162 30 3		204	2056 2 34 ALU	28-34 / AI	5435730	1183 42 7		341
342 M12X40 G	M12 x 40/40 / St / G	5257714	3162 40 0		204	2056 2 34 FT	28-34 / ST / FT	5065593	1161 34 2		339
342 M12X50 G	M12 x 50/50 / St / G	5257776	3162 50 8		204	2056 2 40 ALU	34-40 / AI	5435792	1183 43 5		341
342 M8X20 G	M8 x 20/20 / St / G	5256212	3158 20 9		204	2056 2 40 FT	34-40 / ST / FT	5065654	1161 40 7		339
342 M8X25 G	M8 x 25/25 / St / G	5256274	3158 24 1		204	2056 2 46 ALU	40-46 / AI	5435853	1183 44 3		341
342 M8X30 G	M8 x 30/30 / St / G	5256335	3158 30 6		204	2056 2 46 FT	40-46 / ST / FT	5065715	1161 46 6		339
						2056 2 52 ALU	46-52 / AI	5435914	1183 45 1		341
						2056 2 52 FT	46-52 / ST / FT	5065777	1161 52 0		339
939	150 / St / G	5386056	5043 10 7		278	2056 2 58 ALU	52-58 / AI	5435976	1183 47 8		341
						2056 2 58 FT	52-58 / ST / FT	5065838	1161 57 1		339
946 3 G	321,5 / St / G	5413950	5301 03 3		358	2056 2 64 FT	58-64 / ST / FT	5065890	1161 64 4		339
						2056 22 ALU	16-22 / AI	5077411	1183 22 2		340
947 3 F	320 / TG / F	5414551	5302 02 1		358	2056 22 FT	16-22 / ST / FT	5064572	1160 22 2		339
						2056 22 VA	16-22 / V2A	5063735	1159 53 4		415
948 TG6	M66 / St / G	5513315	3453 82 0		158	2056 28 ALU	22-28 / AI	5077473	1183 23 0		340
948 TG6	M66 / St / G	5513315	3453 82 0		356	2056 28 FT	22-28 / ST / FT	5064633	1160 28 1		339
						2056 28 VA	22-28 / V2A	5063797	1159 54 2		415
				/100 m		2056 3 12 FT	8-12 / ST / FT	5066972	1162 12 8		340
957 3 G	5,29 / St / G	5414971	5303 20 6		357	2056 3 16 FT	12-16 / ST / FT	5067030	1162 16 0		340
						2056 3 22 FT	16-22 / ST / FT	5067092	1162 22 5		340
						2056 3 28 FT	22-28 / ST / FT	5067153	1162 28 4		340
						2056 3 34 FT	28-34 / ST / FT	5067214	1162 34 9		340
964 M10 G30 G	10,530-30 / ST / G	5868330	3403 16 5		206	2056 3 40 FT	34-40 / ST / FT	5067276	1162 40 3		340
964 M4 G15 G	4,3 15-15 / ST / G	5867913	3403 02 5		206	2056 3 46 FT	40-46 / ST / FT	5067337	1162 46 2		340
964 M5 G20 G	5,320-20 / ST / G	5867975	3403 04 1		206	2056 34 ALU	28-34 / AI	5077534	1183 24 9		340
964 M6 G20 G	6,420-20 / ST / G	5868033	3403 07 6		206	2056 34 FT	28-34 / ST / FT	5064695	1160 34 6		339
964 M6 G25 G	6,425-25 / ST / G	5868095	3403 08 4		206	2056 34 VA	28-34 / V2A	5063858	1159 55 0		415
964 M6 G30 G	6,430-30 / ST / G	5868156	3403 09 2		206	2056 40 ALU	34-40 / AI	5077596	1183 25 7		340
964 M8 G20 G	8,420-20 / ST / G	5868217	3403 12 2		206	2056 40 FT	34-40 / ST / FT	5064756	1160 40 0		339
964 M8 G25 G	8,425-25 / ST / G	5868279	3403 13 0		206	2056 40 VA	34-40 / V2A	5063919	1159 56 9		415
						2056 46 ALU	40-46 / AI	5077657	1183 26 5		340
966 M10 F	1120-20 / ST / F	5300854	3402 46 0		205	2056 46 FT	40-46 / ST / FT	5064817	1160 45 1		339
966 M10 VA	M10 10,5 / V2A	5300618	3402 32 0		383	2056 46 VA	40-46 / V2A	5063971	1159 57 7		415
966 M12 F	13,524-24 / ST / F	5300915	3402 47 9		205	2056 52 ALU	46-52 / AI	5077718	1183 27 3		340
966 M12 VA	M12 13 / V2A	5300670	3402 33 9		383	2056 52 FT	46-52 / ST / FT	5064879	1160 52 4		339
966 M6 F	6,6 12-12 / ST / F	5300731	3402 44 4		205	2056 52 VA	46-52 / V2A	5064039	1159 58 5		415
966 M6 VA	M6 6,4 / V2A	5300496	3402 30 4		383	2056 58 ALU	52-58 / AI	5077770	1183 28 1		340
966 M8 F	9 16-16 / ST / F	5300793	3402 45 2		205	2056 58 FT	52-58 / ST / FT	5064930	1160 58 3		339
966 M8 VA	M8 8,4 / V2A	5300557	3402 31 2		383	2056 58 VA	52-58 / V2A	5064091	1159 59 3		415
						2056 64 ALU	58-64 / AI	5077831	1183 30 3		340
				/100 m		2056 64 FT	58-64 / ST / FT	5064992	1160 64 8		339
						2056 64 VA	58-64 / V2A	5064152	1159 60 7		415
1268 L 1M FS	35 x 18 / ST / FS	5694458	1104 49 7		198	2056 70 ALU	64-70 / AI	5435310	1183 31 1		340
1268 L 200 FS	35 x 18 / ST / FS	5038290	1104 26 8		198	2056 70 FT	64-70 / ST / FT	5065050	1160 70 2		339
				/100 m		2056 70 VA	64-70 / V2A	5064213	1159 61 5		415
1268 L 2M FS	35 x 18 / ST / FS	5038771	1104 50 0		198	2056 76 ALU	70-76 / AI	5435372	1183 33 8		340
						2056 76 FT	70-76 / ST / FT	5065111	1160 76 1		339
				/100 pc.		2056 76 VA	70-76 / V2A	5064275	1159 62 3		415
1268 L 300 FS	35 x 18 / ST / FS	5038351	1104 28 4		198	2056 82 FT	76-82 / ST / FT	5065173	1160 82 6		339
1268 L 400 FS	35 x 18 / ST / FS	5836353	1104 29 2		198	2056 90 FT	82-90 / ST / FT	5065234	1160 90 7		339
1268 L 500 FS	35 x 18 / ST / FS	5038412	1104 30 6		198	2056 M 100 FT	90-100 / ST / FT	5063551	1156 16 0		341
1268 L 600 FS	35 x 18 / ST / FS	5036678	1104 31 0		198	2056 M 12 FT	8-12 / ST / FT	5062714	1156 00 4		341
1268 L 700 FS	35 x 18 / ST / FS	5036739	1104 31 5		198	2056 M 12 VA	8-12 / V2A	5668190	1159 71 2		416
1268 L 800 FS	35 x 18 / ST / FS	5036791	1104 32 0		198	2056 M 16 FT	12-16 / ST / FT	5062776	1156 01 2		341
1268 L 900 FS	35 x 18 / ST / FS	5036852	1104 32 5		198	2056 M 16 VA	12-16 / V2A	5668206	1159 71 6		416
1268 SK OR	Pastel orange / PE	5668114	1124 50 2		198	2056 M 22 FT	16-22 / ST / FT	5062837	1156 02 0		341
1268 SL 150 FS	1,75 / ST / FS	5038474	1104 34 9		198	2056 M 22 VA	16-22 / V2A	5668213	1159 72 2		416
						2056 M 28 FT	22-28 / ST / FT	5062899	1156 03 9		341
1268 SL 1M FS	1,75 / ST / FS	5052692	1104 44 5		198	2056 M 28 VA	22-28 / V2A	5668220	1159 72 8		416
				/100 pc.		2056 M 34 FT	28-34 / ST / FT	5062950	1156 04 7		341
1268 SL 200 FS	1,75 / ST / FS	5038535	1104 35 7		198	2056 M 34 VA	28-34 / V2A	5668268	1159 73 4		416
				/100 m		2056 M 40 FT	34-40 / ST / FT	5063018	1156 05 5		341
1268 SL 2M FS	1,75 / ST / FS	5038719	1104 45 4		198	2056 M 40 VA	34-40 / V2A	5668275	1159 74 0		416
				/100 pc.		2056 M 46 FT	40-46 / ST / FT	5063070	1156 06 3		341
1268 SL 300 FS	1,75 / ST / FS	5038597	1104 37 3		198	2056 M 46 VA	40-46 / V2A	5668282	1159 74 6		416
1268 SL 400 FS	1,75 / ST / FS	5052814	1104 39 1		198	2056 M 52 FT	46-52 / ST / FT	5063131	1156 07 1		341
1268 SL 500 FS	1,75 / ST / FS	5038658	1104 40 3		198	2056 M 52 VA	46-52 / V2A	5668299	1159 75 2		416
1268 SL 600 FS	1,75 / ST / FS	5486190	1104 41 1		198	2056 M 58 FT	52-58 / ST / FT	5063193	1156 09 8		341
1268 SL 800 FS	1,75 / ST / FS	5051732	1104 42 7		198	2056 M 58 VA	52-58 / V2A	5668305	1159 75 8		416
1268 SL 900 FS	1,75 / ST / FS	5052630	1104 43 5		198	2056 M 64 FT	58-64 / ST / FT	5063254	1156 10 1		341
						2056 M 64 VA	58-64 / V2A	5668312	1159 76 4		416
2056 100 FT	90-100 / ST / FT	5065296	1160 99 0		339	2056 M 70 FT	64-70 / ST / FT	5063315	1156 12 8		341
2056 12 ALU	8-12 / AI	5077299	1183 20 6		340	2056 M 70 VA	64-70 / V2A	5668329	1159 77 0		416
2056 12 FT	8-12 / ST / FT	5064459	1160 12 5		339	2056 M 76 FT	70-76 / ST / FT	5063377	1156 13 6		341
2056 12 VA	8-12 / V2A	5063612	1159 51 8		415	2056 M 76 VA	70-76 / V2A	5668336	1159 77 6		416
2056 16 ALU	12-16 / AI	5077350	1183 21 4		340	2056 M 82 FT	76-82 / ST / FT	5063438	1156 14 4		341
2056 16 FT	12-16 / ST / FT	5064510	1160 16 8		339	2056 M 90 FT	82-90 / ST / FT	5063490	1156 15 2		341
2056 16 VA	12-16 / V2A	5063674	1159 52 6		415	2056 M 12 VA	8-12 / V2A	5668343	1161 91 2		416
2056 2 12 ALU	8-12 / AI	5435495	1183 38 9		341	2056 M 16 VA	12-16 / V2A	5668381	1161 91 6		416
2056 2 12 FT	8-12 / ST / FT	5065357	1161 12 1		339	2056 M 22 VA	16-22 / V2A	5668398	1161 92 2		416
2056 2 16 ALU	12-16 / AI	5435556	1183 39 7		341	2056 M 28 VA					

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2056 M2 34 VA	28-34 / v2A	5668442	1161 93 4	/100 pc.	416	2056U 70 VA	64-70 / v2A	5075196	1178 62 8	/100 pc.	417
2056 M2 40 VA	34-40 / v2A	5668459	1161 94 0		416	2056U 76 FT	70-76 / ST / FT	5073390	1175 76 9		342
2056 M2 46 VA	40-46 / v2A	5668466	1161 94 6		416	2056U 76 VA	70-76 / v2A	5075257	1178 63 6		417
2056 M2 52 VA	46-52 / v2A	5668503	1161 95 2		416	2056U 82 FT	76-82 / ST / FT	5073451	1175 82 3		342
2056 M2 58 VA	52-58 / v2A	5668510	1161 95 8		416	2056U 90 FT	82-90 / ST / FT	5073512	1175 90 4		342
2056 M2 64 VA	58-64 / v2A	5668527	1161 96 4		416	2056W 12 FT	8-12 / ST / FT	5075431	1180 12 6		343
2056F 12 FT	8-12 / ST / FT	5070634	1169 12 2		344	2056W 16 FT	12-16 / ST / FT	5075493	1180 16 9		343
2056F 16 FT	12-16 / ST / FT	5070696	1169 16 5		344	2056W 2 12 FT	8-12 / ST / FT	5076339	1181 12 2		344
2056F 2 12 FT	8-12 / ST / FT	5071532	1170 12 0		345	2056W 2 16 FT	12-16 / ST / FT	5076391	1181 16 1		344
2056F 2 16 FT	12-16 / ST / FT	5071594	1170 16 3		345	2056W 2 22 FT	16-22 / ST / FT	5076452	1181 21 5		344
2056F 2 22 FT	16-22 / ST / FT	5071655	1170 22 8		345	2056W 2 28 FT	22-28 / ST / FT	5076513	1181 28 9		344
2056F 2 28 FT	22-28 / ST / FT	5071716	1170 28 7		345	2056W 2 34 FT	28-34 / ST / FT	5076575	1181 34 3		344
2056F 2 34 FT	28-34 / ST / FT	5071778	1170 34 1		345	2056W 2 40 FT	34-40 / ST / FT	5076636	1181 40 8		344
2056F 2 40 FT	34-40 / ST / FT	5071839	1170 40 6		345	2056W 2 46 FT	40-46 / ST / FT	5076698	1181 46 7		344
2056F 2 46 FT	40-46 / ST / FT	5071891	1170 46 5		345	2056W 2 52 FT	46-52 / ST / FT	5076759	1181 52 1		344
2056F 2 52 FT	46-52 / ST / FT	5071952	1170 51 1		345	2056W 2 58 FT	52-58 / ST / FT	5076810	1181 58 0		344
2056F 22 FT	16-22 / ST / FT	5070757	1169 21 1		344	2056W 22 FT	16-22 / ST / FT	5075554	1180 22 3		343
2056F 28 FT	22-28 / ST / FT	5070818	1169 28 9		344	2056W 28 FT	22-28 / ST / FT	5075615	1180 28 2		343
2056F 34 FT	28-34 / ST / FT	5070870	1169 34 3		344	2056W 34 FT	28-34 / ST / FT	5075677	1180 34 7		343
2056F 40 FT	34-40 / ST / FT	5070931	1169 40 8		344	2056W 40 FT	34-40 / ST / FT	5075738	1180 40 1		343
2056F 46 FT	40-46 / ST / FT	5070993	1169 46 7		344	2056W 46 FT	40-46 / ST / FT	5075790	1180 46 0		343
2056F 52 FT	46-52 / ST / FT	5071051	1169 52 1		344	2056W 52 FT	46-52 / ST / FT	5075851	1180 52 5		343
2056F 58 FT	52-58 / ST / FT	5071112	1169 58 0		344	2056W 58 FT	52-58 / ST / FT	5075912	1180 58 4		343
2056F 64 FT	58-64 / ST / FT	5071174	1169 64 5		344	2056W 64 FT	58-64 / ST / FT	5075974	1180 64 9		343
2056F 70 FT	64-70 / ST / FT	5071235	1169 69 6		344	2056W 70 FT	64-70 / ST / FT	5076032	1180 68 1		343
2056F 76 FT	70-76 / ST / FT	5071297	1169 76 9		344	2056W 76 FT	70-76 / ST / FT	5076094	1180 76 2		343
2056F 82 FT	76-82 / ST / FT	5071358	1169 82 3		344	2056W 82 FT	76-82 / ST / FT	5076155	1180 82 7		343
2056F 90 FT	82-90 / ST / FT	5071419	1169 90 4		344	2056W 90 FT	82-90 / ST / FT	5076216	1180 90 8		343
2056N 12 FT	8-12 / ST / FT	5067399	1163 12 4		338	2058 12 LGR	8-12 2700/ PP	5081371	1195 12 3		345
2056N 16 FT	12-16 / ST / FT	5067450	1163 16 7		338	2058 16 LGR	12-16 2700/ PP	5081432	1195 16 6		345
2056N 2 12 FT	8-12 / ST / FT	5068297	1164 12 0		338	2058 22 LGR	16-22 2700/ PP	5081494	1195 22 0		345
2056N 2 16 FT	12-16 / ST / FT	5068358	1164 16 3		338	2058 28 LGR	22-28 1800/ PP	5081555	1195 27 1		345
2056N 2 22 FT	16-22 / ST / FT	5068419	1164 22 8		338	2058 34 LGR	28-34 1200/ PP	5081616	1195 34 4		345
2056N 2 28 FT	22-28 / ST / FT	5068471	1164 28 7		338	2058 40 LGR	34-40 1200/ PP	5081678	1195 40 9		345
2056N 2 34 FT	28-34 / ST / FT	5068532	1164 34 1		338	2058 46 LGR	40-46 1200/ PP	5081739	1195 46 8		345
2056N 2 40 FT	34-40 / ST / FT	5068594	1164 40 6		338	2058 52 LGR	46-52 1200/ PP	5081791	1195 52 2		345
2056N 2 46 FT	40-46 / ST / FT	5068655	1164 46 5		338	2058 58 LGR	52-58 1200/ PP	5081852	1195 58 1		345
2056N 2 52 FT	46-52 / ST / FT	5068716	1164 51 1		338	2058 64 LGR	58-64 500/ PP	5081913	1195 64 6		345
2056N 2 58 FT	52-58 / ST / FT	5068778	1164 58 9		338	2058 70 LGR	64-70 500/ PP	5081975	1195 70 0		345
2056N 22 FT	16-22 / ST / FT	5067511	1163 22 1		338						
2056N 28 FT	22-28 / ST / FT	5067573	1163 28 0		338						
2056N 34 FT	28-34 / ST / FT	5067634	1163 34 5		338						
2056N 40 FT	34-40 / ST / FT	5067696	1163 39 6		338	2063 2M BK	35 x 18/ ST	5043157	1112 02 3	/100 m	197
2056N 46 FT	40-46 / ST / FT	5067757	1163 46 9		338	2063 2M FS	35 x 18/ ST / FS	5043270	1112 12 0		197
2056N 52 FT	46-52 / ST / FT	5067818	1163 52 3		338	2063 2M FT	35 x 18/ ST / FT	5043393	1112 22 8		197
2056N 58 FT	52-58 / ST / FT	5067870	1163 58 2		338	2063 L 2M FS	35 x 18/ ST / FS	5632597	1112 70 8		197
2056N 64 FT	58-64 / ST / FT	5067931	1163 64 7		338	2063 L 2M FT	35 x 18/ ST / FT	5632535	1112 75 9		197
2056N 70 FT	64-70 / ST / FT	5067993	1163 70 1		338						
2056U 100 FT	90-100 / ST / FT	5073574	1175 99 8		342	2068 2M BK	35 x 18/ ST	5046936	1118 02 1		197
2056U 12 FT	8-12 / ST / FT	5072737	1175 12 2		342	2068 2M FS	35 x 18/ ST / FS	5047179	1118 22 6		197
2056U 12 VA	8-12 / v2A	5074595	1178 50 4		417	2068 2M FT	35 x 18/ ST / FT	5047056	1118 12 9		197
2056U 16 FT	12-16 / ST / FT	5072799	1175 16 5		342	2068 L 1M FT	35 x 18/ ST / FT	5053958	1119 67 2		197
2056U 16 VA	12-16 / v2A	5074656	1178 51 2		417						
2056U 2 12 FT	8-12 / ST / FT	5073635	1176 12 9		342	2068 L 200 FT	35 x 18/ ST / FT	5060673	1119 69 6	/100 pc.	197
2056U 2 16 FT	12-16 / ST / FT	5073697	1176 16 1		342						
2056U 2 22 FT	16-22 / ST / FT	5073758	1176 22 6		342	2068 L 2M FT	35 x 18/ ST / FT	5047599	1119 65 6	/100 m	197
2056U 2 28 FT	22-28 / ST / FT	5073819	1176 28 5		342	2068 L 2M VA	35 x 18/ v2A	5047650	1119 70 2		382
2056U 2 34 FT	28-34 / ST / FT	5073871	1176 33 1		342						
2056U 2 40 FT	34-40 / ST / FT	5073932	1176 40 4		342	2068 L 300 FT	35 x 18/ ST / FT	5060611	1119 69 3	/100 pc.	197
2056U 2 46 FT	40-46 / ST / FT	5073994	1176 46 3		342	2068 L 400 FT	35 x 18/ ST / FT	5060376	1119 69 0		197
2056U 2 52 FT	46-52 / ST / FT	5074052	1176 52 8		342	2068 L 500 FT	35 x 18/ ST / FT	5060253	1119 68 7		197
2056U 2 58 FT	52-58 / ST / FT	5074113	1176 58 7		342	2068 L 600 FT	35 x 18/ ST / FT	5059417	1119 68 4		197
2056U 22 FT	16-22 / ST / FT	5072850	1175 21 1		342						
2056U 22 VA	16-22 / v2A	5074717	1178 52 0		417	2068 L 6M VA	35 x 18/ v2A	5047711	1119 72 9	/100 m	382
2056U 28 FT	22-28 / ST / FT	5072911	1175 28 9		342						
2056U 28 VA	22-28 / v2A	5074779	1178 53 9		417	2068 L 700 FT	35 x 18/ ST / FT	5059356	1119 68 1	/100 pc.	197
2056U 3 12 FT	8-12 / ST / FT	5074175	1177 12 5		343	2068 L 800 FT	35 x 18/ ST / FT	5059295	1119 67 8		197
2056U 3 16 FT	12-16 / ST / FT	5074236	1177 16 8		343						
2056U 3 22 FT	16-22 / ST / FT	5074298	1177 22 2		343	2078 M10 1M G	M1010/ st / G	5253396	3141 20 9		159
2056U 3 28 FT	22-28 / ST / FT	5074359	1177 28 1		343	2078 M10 1M G	M1010/ st / G	5253396	3141 20 9		279
2056U 3 34 FT	28-34 / ST / FT	5074410	1177 34 6		343	2078 M10 1M G	M1010/ st / G	5253396	3141 20 9		356
2056U 3 40 FT	34-40 / ST / FT	5074472	1177 40 0		343	2078 M10 1M v2A	M1010/ v2A	5023579	3141 31 2		279
2056U 3 46 FT	40-46 / ST / FT	5074533	1177 45 1		343	2078 M10 1M v2A	M1010/ v2A	5023579	3141 31 2		383
2056U 34 FT	28-34 / ST / FT	5072973	1175 34 3		342	2078 M10 1M v2A	M1010/ v2A	5023579	3141 31 2		400
2056U 34 VA	28-34 / v2A	5074830	1178 54 7		417	2078 M10 2M G	M1010/ ST / G	5123583	3141 14 0		159
2056U 40 FT	34-40 / ST / FT	5073031	1175 40 8		342	2078 M10 2M G	M1010/ ST / G	5123583	3141 14 0		356
2056U 40 VA	34-40 / v2A	5074892	1178 55 5		417	2078 M12 1M G	M1212/ st / G	5253457	3141 30 6		159
2056U 46 FT	40-46 / ST / FT	5073093	1175 46 7		342	2078 M12 1M G	M1212/ st / G	5253457	3141 30 6		279
2056U 46 VA	40-46 / v2A	5074953	1178 56 3		417	2078 M12 1M G	M1212/ st / G	5253457	3141 30 6		356
2056U 52 FT	46-52 / ST / FT	5073154	1175 52 1		342	2078 M12 1M v2A	M1212/ v2A	5594437	3141 31 4		279
2056U 52 VA	46-52 / v2A	5075011	1178 57 1		417	2078 M12 1M v2A	M1212/ v2A	5594437	3141 31 4		383
2056U 58 FT	52-58 / ST / FT	5073215	1175 58 0		342	2078 M12 1M v2A	M1212/ v2A	5594437	3141 31 4		400
2056U 58 VA	52-58 / v2A	5075073									

# Type listing

Structure of the GTIN: Country code **40**      Manufacturer code **1219**      Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	
2078 M8 1M G	M88/ st / G	5253334	3141 12 8	/100 pc.	356	AHB 100 FT	1006/ st / FT	6881413	6363 90 3	/pc.	161	
2078 M8 1M V2A	M88/ v2A	5023456	3141 31 0		279	AHB 100 VA4571	1006/ v4A	5912910	6363 90 5		424	
2078 M8 1M V2A	M88/ v2A	5023456	3141 31 0	/pc.	383					/pc.	161	
2078 M8 1M V2A	M88/ v2A	5023456	3141 31 0		400	AHB 150 FT	1508/ st / FT	6148219	6363 90 7		161	
2078 M8 2M G	M88/ st / G	5119982	3141 13 6	/100 pc.	159	AHB 150 VA4571	1508/ v4A	5912927	6363 90 9	/pc.	424	
2078 M8 2M G	M88/ st / G	5119982	3141 13 6		356							
2084 K M6	M622/ Zn / G	5307150	3463 06 0	/100 m	358	AHB 200 FT	2008/ st / FT	6881475	6363 91 1	/pc.	161	
							AHB 200 VA4571	2008/ v4A	5912934		6363 91 3	424
2100 FT	46 x 24/ st / FT	5047773	1120 20 4	/100 pc.	198	AHB 300 FT	3008/ st / FT	6881536	6363 93 8	/pc.	161	
							AHB 300 VA4571	3008/ v4A	5912941		6363 94 0	424
2110 FT	56 x 30/ st / FT	5048732	1121 22 7	/100 pc.	199	AHB 400 FT	4008/ st / FT	6881598	6363 94 6	/pc.	161	
							AHB 400 VA4571	4008/ v4A	5912958		6363 94 8	424
2990 M6 G	M63,5/ st / G	5306979	3462 86 2	/100 pc.	358	AHB LTS 100 FT	/ st / F	5834878	6066 51 0	/100 pc.	354	
2990 M8 G	M83,5/ st / G	5307037	3462 88 9		358	AHB LTS 50 FT	/ st / F	6935895	6066 50 5		354	
5015 M6 OS VA	M6/ v2A	5053231	1141 10 4	/pc.	302	AHIS 8 FT	/ st / FT	6014477	6019 06 4	/pc.	191	
5017 M6 OS VA	M6/ v4A	5119920	1143 12 3		302	AHIS 8 FT	/ st / FT	6014477	6019 06 4		336	
5019 M10 OS G	106/ st / G	5053835	1144 13 8	/100 pc.	207					/pc.	192	
5019 M6 OS G	64/ st / G	5053712	1144 10 3		207	AS 15 11 FT	11050/ st / FT	6207732	6421 32 6		192	
5019 M8 OS G	85/ st / G	5053774	1144 11 1		207	AS 15 16 FT	16055/ st / FT	6207794	6421 33 4		192	
						AS 15 21 FT	21060/ st / FT	6207855	6421 35 0		192	
5022 M10x25 F	M1025/ st / F	5057499	1151 40 1	/100 pc.	208	AS 15 31 FT	31065/ st / FT	6207916	6421 38 5	/pc.	192	
5022 M10x30 F	M1030/ st / F	5057550	1151 42 8		208	AS 15 41 FT	41070/ st / FT	6207978	6421 42 3		192	
5022 M10x40 F	M1040/ st / F	5057673	1151 44 4		208	AS 15 51 FT	51075/ st / FT	6208036	6421 46 6		192	
5022 M12x30 G	M1230/ st / G	5057796	1151 62 2		208	AS 15 61 FT	61080/ st / FT	6208098	6421 49 0		192	
5022 M12x40 G	M1240/ st / G	5057918	1151 64 9		208							
5022 M6X25 F	M625/ st / F	5057017	1151 01 0		208	AS 30 11 FT	11060/ st / FT	6205332	6418 75 9		192	
5022 M6X30 F	M630/ st / F	5057079	1151 02 9		208	AS 30 16 FT	16065/ st / FT	6205394	6418 76 7		192	
5022 M8X25 F	M825/ st / F	5057253	1151 21 5		208	AS 30 21 FT	21070/ st / FT	6205455	6418 77 5		192	
5022 M8X30 F	M830/ st / F	5057314	1151 22 3		208	AS 30 31 FT	31080/ st / FT	6205516	6418 79 1		192	
5022 M8X40 F	M840/ st / F	5057437	1151 25 8		208	AS 30 41 FT	41080/ st / FT	6205578	6418 81 3		192	
							AS 30 51 FT	51090/ st / FT	6205639		6418 84 8	192
5023 M10x30 G	M1030/ st / G	5058335	1153 41 2		208	AS 30 56 FT	560100/ st / FT	6205691	6418 85 6		192	
5023 M10x35 G	M1035/ st / G	5058397	1153 42 0		208	AS 30 61 FT	610100/ st / FT	6205752	6418 86 4		192	
5023 M10x40 G	M1040/ st / G	5058458	1153 43 9		208							
5023 M12x30 G	M1230/ st / G	5058755	1153 61 7		208	AS 30 71 FT	710100/ st / FT	6481637	6418 87 2		192	
5023 M12x35 G	M1235/ st / G	5058816	1153 62 5		208							
5023 M12x40 G	M1240/ st / G	5058878	1153 63 3	208	AS 55 101 FT	1010195/ st / FT	6482474	6419 20 8	193			
5023 M12x50 G	M1250/ st / G	5058939	1153 64 1	208	AS 55 21 FT	21090/ st / FT	6205813	6419 04 6	193			
						AS 55 31 FT	310110/ st / FT	6205875	6419 06 2	193		
5024 M10x30 G	M1030/ st / G	5059714	1154 41 9	209	AS 55 41 FT	410130/ st / FT	6205936	6419 08 9	193			
5024 M10x35 G	M1035/ st / G	5059776	1154 42 7	209	AS 55 51 FT	510145/ st / FT	6205998	6419 10 0	193			
5024 M10x40 G	M1040/ st / G	5059837	1154 43 5	209	AS 55 56 FT	560165/ st / FT	6206056	6419 11 9	193			
5024 M12x30 G	M1230/ st / G	5060017	1154 60 5	209	AS 55 61 FT	610165/ st / FT	6206117	6419 12 7	193			
5024 M12x35 G	M1235/ st / G	5060079	1154 61 3	209	AS 55 71 FT	710195/ st / FT	6206179	6419 14 3	193			
5024 M12x40 G	M1240/ st / G	5060130	1154 62 1	209	AS 55 81 FT	810195/ st / FT	6206230	6419 17 8	193			
5024 M12x50 G	M1250/ st / G	5060192	1154 64 8	209	AS 55 91 FT	910195/ st / FT	6482412	6419 19 4	193			
5026 M6X20 G	M620/ st / G	5057970	1151 70 3	/100 m	208					/pc.	348	
5026 M8X25 G	M825/ st / G	5058038	1151 71 1		208	ASL HM 2,7M	2700/ PA	5858409	6069 83 0		348	
5050 20X3 3M FT	300020/ st / FT	5137597	1465 76 7	/pc.	201	AW 15 11 FT	11050/ st / FT	6207077	6420 65 6	/100 m	181	
							AW 15 11 VA4301	11050/ v2A	6207558		6421 00 8	379
5050 20X3 FT	20x3/ st / FT	6326112	6017 37 1	/100 m	277	AW 15 11 VA4571	11050/ v4A	6817634	6392 00 8	/pc.	428	
5050 25X3 3M FT	300025/ st / FT	5137658	1465 77 5	/pc.	201	AW 15 16 FT	16055/ st / FT	6207138	6420 66 4	/100 m	181	
5050 30X3 3M FT	300030/ st / FT	5137719	1465 79 1		201	AW 15 21 FT	21060/ st / FT	6207190	6420 68 0		181	
5050 30X4 3M FT	300030/ st / FT	5137771	1465 80 5		201	AW 15 21 VA4301	21060/ v2A	6207619	6421 02 4		379	
5050 40X4 3M FT	300040/ st / FT	5137832	1465 82 1		201	AW 15 21 VA4571	21060/ v4A	6817696	6392 01 6		428	
5050 SB30x3 FT	300030/ st / FT	5137955	1466 26 7		201	AW 15 31 FT	31065/ st / FT	6207251	6420 71 0		181	
5055 I12 FS	12 x 1/ st / FS	5138310	1470 12 4		358	AW 15 31 VA4301	31065/ v2A	6207671	6421 03 2		379	
5055 III17 FS	17 x 1/ st / FS	5138372	1470 17 5		358	AW 15 31 VA4571	31065/ v4A	6817757	6392 02 4		428	
5055 III26 FS	26 x 1.2/ st / FS	5138433	1470 26 4		358							
5055 LI12 FS	12 x 0.75/ st / FS	5138679	1471 12 0	358	AW 15 41 FT	41070/ st / FT	6207312	6420 74 5	181			
5055 LI17 FS	17 x 0.75/ st / FS	5138730	1471 17 1	358								
5055 LI1126 26	26 x 1/ st / FS	5138792	1471 26 0	358	AW 15 41 VA4301	41070/ v2A	5061953	6421 03 6	379			
						AW 15 41 VA4571	41070/ v4A	6817818	6392 03 2	428		
12005 M10 G	M10 M10/ st / G	6202270	6410 10 3	/100 pc.	159	AW 15 51 FT	51075/ st / FT	6207374	6420 78 8	/pc.	181	
12005 M10 G	M10 M10/ st / G	6202270	6410 10 3		357							
12005 M12 G	M12 M12/ st / G	6202331	6410 11 1	159	AW 15 51 VA4301	51075/ v2A	5061960	6421 04 0	379			
12005 M12 G	M12 M12/ st / G	6202331	6410 11 1	357	AW 15 51 VA4571	51075/ v4A	6817870	6392 04 0	428			
12005 M8 G	M8 8/ st / G	6202218	6410 08 1	159								
12005 M8 G	M8 8/ st / G	6202218	6410 08 1	357	AW 15 56 FT	56080/ st / FT	6207435	6420 79 6	181			
						AW 15 61 FT	61080/ st / FT	6207497	6420 82 6	181		

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AW 15 61 VA4301	61080/ V2A	5061977	6421 04 4		379	AWG 15 31VA4301	31065/ V2A	5058427	6420 63 1		380
AW 15 61 VA4571	61080/ V4A	6817931	6392 05 9		428	AWG 15 31VA4571	31065/ V4A	5395362	6420 64 6		428
						AWG 15 41 VA4571	41070/ V4A	5706052	6420 64 8		428
						AWG 15 41VA4301	41070/ V2A	5058434	6420 63 4		380
AW 30 11 FT	11060/ St / FT	6206599	6419 70 4		183	AWG 15 51 VA4571	51075/ V4A	5706328	6420 65 0		428
						AWG 15 51VA4301	51075/ V2A	5058502	6420 63 7		380
AW 30 11 VA4301	11060/ V2A	6208937	6442 80 3		380	AWG 15 61 VA4571	61080/ V4A	5706359	6420 65 2		428
AW 30 11 VA4571	11060/ V4A	5021049	6443 61 5		429	AWG 15 61VA4301	61080/ V2A	5058540	6420 64 0		380
AW 30 16 FT	16065/ St / FT	6206650	6419 71 2		183	AWSS 101 FT	1010359/ St / FT	6340750	6417 93 8		186
AW 30 21 FT	21070/ St / FT	6206711	6419 72 0		183	AWSS 21 FT	210335/ St / FT	6340279	6417 90 6		186
						AWSS 31 FT	310335/ St / FT	6340330	6417 91 0		186
AW 30 21 VA4301	21070/ V2A	6209057	6442 83 8		380	AWSS 41 FT	410335/ St / FT	6340392	6417 91 4		186
AW 30 21 VA4571	21070/ V4A	6349753	6443 31 1		429	AWSS 51 FT	510335/ St / FT	6340453	6417 91 8		186
						AWSS 61 FT	610335/ St / FT	6340514	6417 92 2		186
AW 30 31 FT	31080/ St / FT	6206773	6419 74 7		183	AWSS 71 FT	710335/ St / FT	6340576	6417 92 6		186
						AWSS 81 FT	810341/ St / FT	6340637	6417 93 0		186
AW 30 31 VA4301	31080/ V2A	6209118	6442 85 4		380	AWSS 91 FT	910366/ St / FT	6340699	6417 93 4		186
AW 30 31 VA4571	31080/ V4A	6955879	6443 62 1		429						
						AWW 21 FT	210130/ St / FT	6206292	6419 53 4		186
AW 30 41 FT	41080/ St / FT	6206834	6419 76 3		183	AWW 21 VA4571	210130/ V4A	5913061	6419 64 0		430
AW 30 41 VA4301	41080/ V2A	6209170	6442 87 0		380	AWW 31 FT	310130/ St / FT	6206353	6419 55 0		186
AW 30 41 VA4571	41080/ V4A	6554478	6443 34 6		429	AWW 31 VA4571	310130/ V4A	5913078	6419 64 2		430
AW 30 51 FT	51090/ St / FT	6206896	6419 79 8		183	AWW 41 FT	410130/ St / FT	6206414	6419 57 7		186
						AWW 41 VA4571	410130/ V4A	5913085	6419 64 4		430
AW 30 51 VA4301	51090/ V2A	6209231	6442 89 7		380						
AW 30 51 VA4571	51090/ V4A	5021094	6443 62 5		429	AWW 51 FT	510130/ St / FT	6206476	6419 59 3		186
						AWW 51 VA4571	510130/ V4A	5913092	6419 64 6		430
AW 30 56 FT	560100/ St / FT	6207015	6419 84 4		183						
AW 30 61 FT	610100/ St / FT	6206957	6419 82 8		183	AWW 61 FT	610130/ St / FT	6206537	6419 61 5		186
						AWW 61 VA4571	610130/ V4A	5913108	6419 64 8		430
AW 30 61 VA4301	610100/ V2A	6209293	6442 91 9		380						
AW 30 61 VA4571	610100/ V4A	5021100	6443 62 7		429						
AW 30 71 FT	710100/ St / FT	6483730	6419 83 6		183	AWWL 11 FS	17060/ Steel / FS	5058663	6419 46 4		185
						AWWL 11 FT	17060/ Steel / FT	5058670	6419 50 1		185
AW 55 101 FT	1010230/ St / FT	6205271	6418 72 4		184	AWWL 11 VA4571	17060/ V4A	5913016	6419 51 9		430
AW 55 21 FT	21090/ St / FT	6204731	6418 55 4		184						
AW 55 21 VA4301	21090/ V2A	6441433	6443 06 3		381	AWWL 16 FS	22060/ Steel / FS	5058687	6419 46 8		185
AW 55 21 VA4571	21090/ V4A	5912965	6418 55 7		429	AWWL 16 FT	22060/ Steel / FT	5058724	6419 50 5		185
						AWWL 16 VA4571	22060/ V4A	5913023	6419 52 0		430
AW 55 31 FT	310110/ St / FT	6204793	6418 57 0		184						
AW 55 31 VA4301	310110/ V2A	6441495	6443 06 7		381	AWWL 21 FS	27060/ Steel / FS	5058731	6419 47 2		185
AW 55 31 VA4571	310110/ V4A	5912972	6418 57 3		429	AWWL 21 FT	27060/ Steel / FT	5058748	6419 50 9		185
						AWWL 21 VA4571	27060/ V4A	5913030	6419 52 1		430
AW 55 41 FT	410130/ St / FT	6204854	6418 59 7		184						
AW 55 41 VA4301	410130/ V2A	6617111	6443 07 1		381	AWWL 31 FS	37060/ Steel / FS	5058786	6419 47 6		185
AW 55 41 VA4571	410130/ V4A	5912989	6418 60 1		429	AWWL 31 FT	37060/ Steel / FT	5058793	6419 51 3		185
						AWWL 31 VA4571	37060/ V4A	5913047	6419 52 2		430
AW 55 51 FT	510145/ St / FT	6204915	6418 61 9		184						
AW 55 51 VA4301	510145/ V2A	6661091	6443 07 5		381	AWWL 41 FS	47060/ Steel / FS	5058809	6419 48 0		185
AW 55 51 VA4571	510145/ V4A	5912996	6418 62 2		429	AWWL 41 FT	47060/ Steel / FT	5058847	6419 51 7		185
						AWWL 41 VA4571	47060/ V4A	5913054	6419 52 3		430
AW 55 56 FT	560165/ St / FT	6204977	6418 62 7		184						
AW 55 61 FT	610165/ St / FT	6205035	6418 63 5		184						
AW 55 61 VA4301	610165/ V2A	6661152	6443 07 9		381	AZ LA 150 FS	50150/ St / FS	5848561	6069 60 0		351
AW 55 61 VA4571	610165/ V4A	5913009	6418 63 8		429	AZ LA 150 FT	50150/ St / FT	5848578	6069 60 7		351
						AZ LA 150VA4301	50150/ V2A	5848585	6069 61 4		351
AW 55 71 FT	710195/ St / FT	6205097	6418 65 1		184						
AW 55 71 VA4301	710195/ V2A	6661879	6443 08 3		381						
AW 55 81 FT	810195/ St / FT	6205158	6418 68 6		184	AZDMD 100 DD	1033000/ St / DD	6406098	6080 23 5		364
AW 55 91 FT	910215/ St / FT	6205219	6418 70 8		184	AZDMD 100 FS	1033000/ St / FS	6069552	6080 22 7		364
						AZDMD 100 VA4301	1033000/ V2A	6069613	6080 29 4		419
AW 80 21 FT	210110/ St / FT	6203475	6417 75 2		185	AZDMD 150 FS	1533000/ St / FS	5811305	6080 86 0		364
AW 80 31 FT	310145/ St / FT	6203536	6417 77 9		185	AZDMD 150 FT	1533000/ St / FT	5811312	6080 86 5		364
AW 80 41 FT	410165/ St / FT	6203598	6417 79 5		185	AZDMD 150 VA4301	1533000/ V2A	5811329	6080 87 0		419
AW 80 51 FT	510195/ St / FT	6203659	6417 81 7		185	AZDMD 200 FS	2033000/ St / FS	5811350	6080 88 5		364
AW 80 61 FT	610210/ St / FT	6203710	6417 83 3		185	AZDMD 200 FT	2033000/ St / FT	5811367	6080 89 0		364
AW 80 71 FT	710235/ St / FT	6203772	6417 86 8		185	AZDMD 200 VA4301	2033000/ V2A	5811374	6080 89 5		419
AW 80 81 FT	810260/ St / FT	6203833	6417 88 4		185	AZDMD 300 FS	3033000/ St / FS	5811381	6080 91 0		364
						AZDMD 300 FT	3033000/ St / FT	5811428	6080 91 5		364
AW G 15 11 FT	11050/ St / FT	6662470	6420 60 6		182	AZDMD 300 VA4301	3033000/ V2A	5811435	6080 92 0		419
AW G 15 16 FT	16055/ St / FT	6079155	6420 60 7		182	AZDMD 50 DD	533000/ St / DD	6405916	6080 15 4		364
AW G 15 21 FT	21060/ St / FT	6662531	6420 60 8		182	AZDMD 50 FS	533000/ St / FS	6069439	6080 13 8		364
AW G 15 31 FT	31065/ St / FT	6662593	6420 61 0		182	AZDMD 50 VA4301	533000/ V2A	6069491	6080 19 7		419
AW G 15 41 FT	41070/ St / FT	6662654	6420 61 2		182						
AW G 15 51 FT	51075/ St / FT	6662715	6420 61 4		182						
AW G 15 61 FT	61080/ St / FT	6662777	6420 61 6		182	AZDR 100 FT	100-100/ St / FT	6064397	6065 10 4		364
						AZDR 100 VA4301	100-100/ V2A	6064694	6065 31 7		419
AW30 56 VA4571	560100/ V4A	5049722	6443 62 6		429	AZDR 50 FT	50-50/ St / FT	6064458	6065 11 2		364
						AZDR 50 VA4301	50-50/ V2A	6064632	6065 30 9		419
AWG 15 11 VA4571	11050/ V4A	5706304	6420 64 2		428						
AWG 15 11VA4301	11050/ V2A	5058373	6420 62 5		380						
AWG 15 21 VA4571	21060/ V4A	5706311	6420 64 4		428	AZDU 100 DD	1033000/ St / DD	6084197	6080 23 9		364
AWG 15 21VA4301	21060/ V2A	5058380	6420 62 8		380	AZDU 50 DD	533000/ St / DD	6084135	6080 15 8		364

# Type listing

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
AZK 050 FS	501,5/ ST / FS	6068951	6075 09 6	/m	362	BFK 153 33VA4301	153 101/ V2A	6049561	6003 87 3	/pc.	399
AZK 050 FT	501,5/ ST / FT	6069019	6075 14 2		362	BFK 166 58 20 FT	166 133/ ST / FT	6079902	6003 88 8		194
AZK 050 VA4301	501,5/ V2A	6069071	6075 15 0		417	BFK 166 58 20 FT	166 133/ ST / FT	6079902	6003 88 8		285
AZK 050 VA4571	501,5/ V4A	5866213	6075 15 2		448	BFK 166 58 20V2A	166 133/ V2A	6049806	6003 87 7		399
AZK 100 FS	1001,5/ ST / FS	6069132	6075 23 1		362	BFK 187 33 FT	187 135/ ST / FT	6079919	6003 89 2		194
AZK 100 FT	1001,5/ ST / FT	6069194	6075 25 8		362	BFK 187 33 FT	187 135/ ST / FT	6079919	6003 89 2		285
AZK 100 VA4301	1001,5/ V2A	6069255	6075 30 4		417	BFK 187 33VA4301	187 135/ V2A	6049929	6003 87 9		399
AZK 100 VA4571	1001,5/ V4A	5866220	6075 30 6		448						
AZK 150 FS	1501,5/ St / FS	5811121	6075 32 0		362	BID 90 200 FT	200/ ST / FT	6445691	6239 15 3		304
AZK 150 FT	1501,5/ St / FT	5811138	6075 32 5		362	BID 90 300 FT	300/ ST / FT	6445752	6239 16 1		304
AZK 150 VA4301	1501,5/ V2A	5811145	6075 33 0		417	BID 90 400 FT	400/ ST / FT	6445813	6239 18 8		304
AZK 150 VA4571	1501,5/ V4A	5866251	6075 33 2		448	BID 90 500 FT	500/ ST / FT	6445875	6239 19 6		304
AZK 200 FS	2001,5/ St / FS	5811183	6075 34 5		362	BID 90 600 FT	600/ ST / FT	6445936	6239 21 8		304
AZK 200 FT	2001,5/ St / FT	5811190	6075 35 0		362						
AZK 200 VA4301	2001,5/ V2A	5811206	6075 35 5		418						
AZK 200 VA4571	2001,5/ V4A	5866268	6075 35 7		448						
AZK 300 FS	3001,5/ St / FS	5811244	6075 37 0		363	BKK 104 FT	1,5 104 x 25/ ST / FT	6068234	6070 24 8	/m	366
AZK 300 FT	3001,5/ St / FT	5811251	6075 37 5		363	BKK 104 VA4301	1,5 104 x 25/ V2A	6068418	6070 77 9		419
AZK 300 VA4301	3001,5/ V2A	5811268	6075 38 0		418	BKK 150 FT	1,5 150 x 25/ ST / FT	6068296	6070 34 5		366
AZK 300 VA4571	3001,5/ V4A	5866275	6075 38 2		449	BKK 150 VA4301	1,5 150 x 25/ V2A	6068470	6070 78 7		419
AZK A 050 FT	501,5/ ST / FT	6069316	6076 14 9		362	BKK 200 FT	1,5 200 x 25/ ST / FT	6068357	6070 44 2		366
AZK A 100 FT	1001,5/ ST / FT	6069378	6076 24 6		362	BKK 200 VA4301	1,5 200 x 25/ V2A	6068531	6070 79 5		420
B 33020	228/ CuZn	6049080	6404 00 6	/100 pc.	214					/pc.	
B 33020	228/ CuZn	6049080	6404 00 6		278	BW 60 40 FT	/ ST / FT	6014590	6019 56 0		177
B 33021	2610/ CuZn	6049202	6404 01 4		214	BW 60 40 FT	/ ST / FT	6014590	6019 56 0		337
B 33021	2610/ CuZn	6049202	6404 01 4		278	BW 60 40 VA4301	/ V2A	6014651	6019 58 7		415
BEB 050 DD	50/ ST / DD	6100934	7083 61 6	/pc.	252	BW 70 40 FT	/ ST / FT	6014835	6019 70 6		177
BEB 050 FS	50/ St / FS	6231010	7083 04 1		252	BW 70 40 FT	/ ST / FT	6014835	6019 70 6		337
BEB 100 DD	100/ ST / DD	6983728	7083 61 8		252	BW 80 55 FT	/ St / FT	6014538	6019 52 8		191
BEB 100 FS	100/ St / FS	6231072	7083 10 6		252	BW 80 55 FT	/ St / FT	6014538	6019 52 8		337
BEB 100 VA4301	100/ V2A	6232031	7084 01 3		392	BW LA 35 FS	/ St / FS	5897729	6069 89 5		348
BEB 100 VA4571	100/ V4A	5866336	7084 14 1		437	BW LA 35 VA4301	/ V2A	5897750	6069 89 7		348
BEB 150 DD	150/ ST / DD	6026883	7083 62 2		252					/100 m	
BEB 150 FS	150/ St / FS	6231133	7083 15 7		252	C30 L 1M FT	30 x 15/ ST / FT	5037934	1109 86 3	/100 pc.	198
BEB 200 DD	200/ ST / DD	6982943	7083 62 6		252	C30 L 200 FT	30 x 15/ ST / FT	5036975	1109 78 2	/100 m	197
BEB 200 FS	200/ St / FS	6231195	7083 20 3		252	C30 L 2M FS	30 x 15/ ST / FS	5053897	1110 00 2	/100 m	197
BEB 200 VA4301	200/ V2A	6232093	7084 04 8		392	C30 L 2M FT	30 x 15/ ST / FT	5041771	1109 87 1	/100 pc.	198
BEB 200 VA4571	200/ V4A	5866343	7084 14 3		437	C30 L 300 FT	30 x 15/ ST / FT	5037033	1109 79 0		197
BEB 300 DD	300/ ST / DD	6982882	7083 63 0		252	C30 L 400 FT	30 x 15/ ST / FT	5037095	1109 80 4		197
BEB 300 FS	300/ St / FS	6231256	7083 30 0		252	C30 L 500 FT	30 x 15/ ST / FT	5037156	1109 81 2		197
BEB 300 VA4301	300/ V2A	6232154	7084 06 4		392	C30 L 600 FT	30 x 15/ ST / FT	5037217	1109 82 0		197
BEB 300 VA4571	300/ V4A	5866350	7084 14 5		437	C30 L 700 FT	30 x 15/ ST / FT	5037279	1109 83 9		197
BEB 400 DD	400/ ST / DD	6024254	7083 63 4		252	C30 L 800 FT	30 x 15/ ST / FT	5037330	1109 84 7		197
BEB 400 FS	400/ St / FS	6231317	7083 40 8		252	CGR 50 100 FT	1004,5/ ST / FT	6013999	6017 43 6	/m	284
BEB 400 VA4301	400/ V2A	6232215	7084 08 0		392	CGR 50 100VA4301	1004,5/ V2A	6012732	6016 23 5		402
BEB 400 VA4571	400/ V4A	5866367	7084 14 7		437	CGR 50 200 FT	2004,5/ ST / FT	6014057	6017 44 4		284
BEB 500 DD	500/ ST / DD	6024490	7083 63 8		252	CGR 50 200VA4301	2004,5/ V2A	6012794	6016 25 1		402
BEB 500 FS	500/ St / FS	6231379	7083 50 5		252	CGR 50 300 FT	3004,5/ ST / FT	6295692	6017 45 2		284
BEB 500 VA4301	500/ V2A	6232277	7084 10 2		392	CGR 50 400 FT	4004,5/ ST / FT	6014118	6017 46 0		284
BEB 500 VA4571	500/ V4A	5866374	7084 14 9		437	CGR 50 50 FT	504,5/ ST / FT	6013937	6017 42 8		284
BEB 550 DD	550/ ST / DD	6100996	7083 64 0		252	CGR 50 50 VA4301	504,5/ V2A	6012671	6016 20 0		402
BEB 550 FS	550/ St / FS	6231430	7083 55 6		252					/pc.	
BEB 600 DD	600/ ST / DD	6034635	7083 64 2		252	CK 40 100 FT	954/ ST / FT	6007998	6008 30 5		336
BEB 600 FS	600/ St / FS	6231492	7083 60 2		252	CK 40 110 FT	1054/ ST / FT	6008056	6008 31 3		336
BEB 600 VA4301	600/ V2A	6232338	7084 12 9		392	CK 40 120 FT	1154/ ST / FT	6008117	6008 32 1		336
BEB 600 VA4571	600/ V4A	5866381	7084 15 1		437	CK 40 20 FT	154/ ST / FT	6629718	6008 22 4		336
BF 140 10 FT	/ ST / FT	6295876	6356 36 2		365	CK 40 30 FT	254/ ST / FT	6356058	6008 23 2		336
BFK 132 58 FT	13299/ ST / FT	6079889	6003 88 0		194	CK 40 40 FT	354/ ST / FT	6007639	6008 24 0		336
BFK 132 58 FT	13299/ ST / FT	6079889	6003 88 0		285	CK 40 50 FT	454/ ST / FT	6007691	6008 25 9		336
BFK 132 58VA4301	13299/ V2A	6049448	6003 87 1		399	CK 40 60 FT	554/ ST / FT	6007752	6008 26 7		336
BFK 132 58VA4301	13299/ V2A	6049448	6003 87 1		399	CK 40 70 FT	654/ ST / FT	6007813	6008 27 5		336
BFK 153 33 FT	153 101/ ST / FT	6079896	6003 88 4		194	CK 40 80 FT	754/ ST / FT	6007875	6008 28 3		336
BFK 153 33 FT	153 101/ ST / FT	6079896	6003 88 4		285	CK 40 90 FT	854/ ST / FT	6007936	6008 29 1		336
BFK 153 33 FT	153 101/ ST / FT	6079896	6003 88 4		285	CPS 4 SK OR SP	Pastel orange/ PE	5785316	1124 55 5	/100 pc.	199
BFK 153 33 FT	153 101/ ST / FT	6079896	6003 88 4		285	CPS 4 SK OR SP	Pastel orange/ PE	5785316	1124 55 5	/pc.	334
BFK 153 33 FT	153 101/ ST / FT	6079896	6003 88 4		285	CPS 4 SPR 492 FT	492/ ST / FT	6006014	6007 24 4		334
BFK 153 33 FT	153 101/ ST / FT	6079896	6003 88 4		285	CPS 4 SPR 592 FT	592/ ST / FT	6006076	6007 25 2		334
BFK 153 33 FT	153 101/ ST / FT	6079896	6003 88 4		285	CPS 4 SPR 692 FT	692/ ST / FT	6006137	6007 26 0		334

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# Type listing

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
CPS 4 SPR 792 FT	792/ ST / FT	6006199	6007 27 9	/pc.	334	DBLG 20 600 FT	600/ ST / FT	5239284	6015 69 9	/pc.	160
CPS 4 SPR 892 FT	892/ ST / FT	6006250	6007 28 7		334	DBLG 20 600 FT	600/ ST / FT	5239284	6015 69 9		278
CPS 4 SPR 992 FT	992/ ST / FT	6006311	6007 29 5		334						
CPS 4 SPR1092 FT	1092/ ST / FT	6006373	6007 30 9		334	DBV 050 S DD	500,75/ St / DD	5874379	7131 50 6		257
CPS 4 SPR1192 FT	1192/ ST / FT	6006434	6007 31 7		334	DBV 050 S FS	500,75/ Steel / FS	5047551	7130 80 1		257
				/100 m		DBV 100 S DD	1000,75/ St / DD	5850915	7131 50 8		257
CPS 4L 2M FT	40 x 22,5/ ST / FT	5050230	1121 97 9		199	DBV 100 S FS	1000,75/ Steel / FS	5047568	7130 80 5		257
CPS 4L 2M VA	40 x 22,5/ V2A	5050179	1121 96 0		382	DBV 100 S VA4301	1000,75/ V2A	5688600	7130 90 5		394
CPS 4L 6M FT	40 x 22,5/ ST / FT	5049937	1121 89 8		199	DBV 100 S VA4571	1000,75/ V4A	5886464	7130 92 0		439
CPS 4L 6M VA	40 x 22,5/ V2A	5049999	1121 90 1		382	DBV 110 100 F DD	1000,75/ St / DD	5850960	7131 55 6		258
				/pc.		DBV 110 100 F FS	1000,75/ St / FS	5712046	7131 03 0		258
CPS 5 G 220 FT	50 x 30/ ST / FT	6191710	6349 40 4		199	DBV 110 200 F DD	2000,75/ St / DD	5809289	7131 56 0		258
CPS 5 G 260 FT	50 x 30/ ST / FT	6191772	6349 41 2		199	DBV 110 200 F FS	2000,75/ St / FS	5712053	7131 03 4		258
CPS 5 G 300 FT	50 x 30/ ST / FT	6191833	6349 43 9		199	DBV 110 300 F DD	3000,75/ St / DD	5874775	7131 56 4		258
CPS 5 G 340 FT	50 x 30/ ST / FT	6191895	6349 44 7		199	DBV 110 300 F FS	3000,75/ St / FS	5712060	7131 03 8		258
CPS 5 G 380 FT	50 x 30/ ST / FT	6191956	6349 46 3		199	DBV 110 400 F DD	4000,75/ St / DD	5809296	7131 56 8		258
				/100 m		DBV 110 400 F FS	4000,75/ St / FS	5712077	7131 04 2		258
CPS 5 L 2M FT	50 x 30/ st / FT	5049210	1121 46 4		199	DBV 110 500 F DD	5000,75/ St / DD	5874782	7131 57 2		258
CPS 5 L 2M VA	50 x 30/ V2A	5049272	1121 48 0		382	DBV 110 500 F FS	5000,75/ St / FS	5712084	7131 04 6		258
CPS 5 L 6M FT	50 x 30/ st / FT	5462491	1121 47 2		199	DBV 110 550 F DD	5500,75/ St / DD	5874799	7131 57 4		258
CPS 5 L 6M VA	50 x 30/ V2A	5049333	1121 49 9		382	DBV 110 550 F FS	5500,75/ St / FS	5712091	7131 05 0		258
				/100 pc.		DBV 150 S DD	1500,75/ St / DD	5874386	7131 50 9		257
CPS 5 SK OR SP	Pastel orange/ PE	5785323	1124 56 3		199	DBV 150 S FS	1500,75/ Steel / FS	5047575	7130 80 9		257
				/pc.		DBV 200 S DD	2000,75/ St / DD	5809265	7131 51 0		257
DB FT	/ ST / FT	6195671	6356 10 9		158	DBV 200 S FS	2000,75/ Steel / FS	5047582	7130 81 3		257
DB FT	/ ST / FT	6195671	6356 10 9		356	DBV 200 S VA4301	2000,75/ V2A	5886303	7130 90 7		394
						DBV 200 S VA4571	2000,75/ V4A	5886495	7130 92 2		439
DBL 50 100 FS	100/ ST / FS	6746118	6015 50 6		160	DBV 300 S DD	3000,75/ St / DD	5874393	7131 51 4		257
DBL 50 100 FT	100/ ST / FT	6785414	6015 56 5		160	DBV 300 S FS	3000,75/ Steel / FS	5047612	7130 81 7		257
DBL 50 100VA4401	100/ V4A	6937455	6015 63 0		381	DBV 300 S VA4301	3000,75/ V2A	5886327	7130 90 9		394
DBL 50 100VA4401	100/ V4A	6937455	6015 63 0		430	DBV 300 S VA4571	3000,75/ V4A	5886518	7130 92 4		439
DBL 50 100VA4401	100/ V4A	6937455	6015 63 0		443	DBV 35 050 F DD	500,75/ St / DD	5874423	7131 59 0		257
DBL 50 150 FS	150/ ST / FS	6746170	6015 51 4		160	DBV 35 050 F FS	500,75/ St / FS	5711896	7130 76 0		257
DBL 50 150 FT	150/ ST / FT	6785476	6015 57 3		160	DBV 35 100 F DD	1000,75/ St / DD	5874430	7131 59 2		257
DBL 50 200 FS	200/ ST / FS	6746231	6015 52 2		160	DBV 35 100 F FS	1000,75/ St / FS	5711902	7130 76 4		257
DBL 50 200 FT	200/ ST / FT	6785537	6015 58 1		160	DBV 35 150 F DD	1500,75/ St / DD	5874447	7131 59 4		257
DBL 50 200VA4401	200/ V4A	6937516	6015 63 2		160	DBV 35 150 F FS	1500,75/ St / FS	5711933	7130 76 8		257
DBL 50 200VA4401	200/ V4A	6937516	6015 63 2		160	DBV 35 200 F DD	2000,75/ St / DD	5874485	7131 59 6		257
DBL 50 200VA4401	200/ V4A	6937516	6015 63 2		381	DBV 35 200 F FS	2000,75/ St / FS	5711940	7130 77 2		257
DBL 50 300 FS	300/ ST / FS	6746293	6015 53 0		430	DBV 35 300 F DD	3000,75/ St / DD	5874492	7131 60 0		257
DBL 50 300 FT	300/ ST / FT	6785599	6015 60 3		443	DBV 35 300 F FS	3000,75/ St / FS	5711957	7130 77 6		257
DBL 50 300VA4401	300/ V4A	6937578	6015 63 3		160	DBV 400 S DD	4000,75/ St / DD	5809272	7131 51 8		257
DBL 50 300VA4401	300/ V4A	6937578	6015 63 3		160	DBV 400 S FS	4000,75/ Steel / FS	5047629	7130 82 1		257
DBL 50 300VA4401	300/ V4A	6937578	6015 63 3		381	DBV 400 S VA4301	4000,75/ V2A	5886365	7130 91 1		394
DBL 50 400 FS	400/ ST / FS	6746354	6015 54 9		430	DBV 400 S VA4571	4000,75/ V4A	5886525	7130 92 6		439
DBL 50 400 FT	400/ ST / FT	6785650	6015 61 1		443	DBV 500 S DD	5000,75/ St / DD	5874409	7131 52 4		257
DBL 50 400VA4401	400/ V4A	6937639	6015 63 4		160	DBV 500 S FS	5000,75/ Steel / FS	5047636	7130 82 5		257
DBL 50 400VA4401	400/ V4A	6937639	6015 63 4		160	DBV 500 S VA4301	5000,75/ V2A	5886389	7130 91 3		394
DBL 50 400VA4401	400/ V4A	6937639	6015 63 4		381	DBV 500 S VA4571	5000,75/ V4A	5886556	7130 92 8		439
DBL 50 500 FS	500/ ST / FS	5239154	6015 55 2		430	DBV 60 050 F DD	500,75/ St / DD	5874508	7131 63 0		257
DBL 50 500 FT	500/ ST / FT	5239208	6015 61 4		443	DBV 60 050 F FS	500,75/ Steel / FS	5047674	7130 84 7		257
DBL 50 600 FS	600/ ST / FS	5239161	6015 55 5		160	DBV 60 100 F DD	1000,75/ St / DD	5874546	7131 63 2		257
DBL 50 600 FT	600/ ST / FT	5239215	6015 61 7		160	DBV 60 100 F FS	1000,75/ Steel / FS	5047681	7130 85 2		257
					160	DBV 60 150 F DD	1500,75/ St / DD	5874553	7131 63 4		257
					160	DBV 60 150 F FS	1500,75/ Steel / FS	5047698	7130 85 6		257
					160	DBV 60 200 F DD	2000,75/ St / DD	5874560	7131 63 6		257
DBLG 20 050 FS	50/ ST / FS	6961528	6015 64 6		160	DBV 60 200 F FS	2000,75/ Steel / FS	5047704	7130 86 0		257
DBLG 20 050 FT	50/ ST / FT	6042845	6015 64 8		278	DBV 60 300 F DD	3000,75/ St / DD	5874607	7131 64 0		257
DBLG 20 050 FT	50/ ST / FT	6042845	6015 64 8		160	DBV 60 300 F FS	3000,75/ Steel / FS	5047735	7130 86 4		257
DBLG 20 100 FS	100/ ST / FS	6961580	6015 65 4		278	DBV 60 400 F DD	4000,75/ St / DD	5874614	7131 64 4		257
DBLG 20 100 FT	100/ ST / FS	6961580	6015 65 4		160	DBV 60 400 F FS	4000,75/ Steel / FS	5047742	7130 86 8		257
DBLG 20 100 FT	100/ ST / FT	6042968	6015 65 6		278	DBV 60 500 F DD	5000,75/ St / DD	5874621	7131 64 8		257
DBLG 20 100 FT	100/ ST / FT	6042968	6015 65 6		160	DBV 60 500 F FS	5000,75/ Steel / FS	5047759	7130 87 2		257
DBLG 20 150 FS	150/ ST / FS	6279371	6015 65 8		278	DBV 60 600 F DD	6000,75/ St / DD	5874669	7131 65 2		257
DBLG 20 150 FT	150/ ST / FS	6279371	6015 65 8		160	DBV 60 600 F FS	6000,75/ Steel / FS	5047766	7130 87 6		257
DBLG 20 150 FT	150/ ST / FT	6043088	6015 66 0		278	DBV 600 S DD	6000,75/ St / DD	5874416	7131 52 7		257
DBLG 20 150 FT	150/ ST / FT	6043088	6015 66 0		160	DBV 600 S FS	6000,75/ Steel / FS	5047643	7130 82 9		257
DBLG 20 200 FS	200/ ST / FS	6961641	6015 66 2		278	DBV 600 S VA4301	6000,75/ V2A	5886419	7130 91 5		394
DBLG 20 200 FS	200/ ST / FS	6961641	6015 66 2		160	DBV 600 S VA4571	6000,75/ V4A	5886563	7130 93 0		439
DBLG 20 200 FT	200/ ST / FT	6043200	6015 66 4		278	DBV 85 100 F DD	1000,75/ St / DD	5874676	7131 67 2		258
DBLG 20 200 FT	200/ ST / FT	6043200	6015 66 4		160	DBV 85 100 F FS	1000,75/ St / FS	5711964	7130 99 0		258
DBLG 20 300 FS	300/ ST / FS	6961702	6015 67 0		278	DBV 85 200 F DD	2000,75/ St / DD	5874683	7131 67 6		258
DBLG 20 300 FS	300/ ST / FS	6961702	6015 67 0		160	DBV 85 200 F FS	2000,75/ St / FS	5711995	7130 99 4		258
DBLG 20 300 FT	300/ ST / FT	6043323	6015 67 2		278	DBV 85 300 F DD	3000,75/ St / DD	5874713	7131 68 0		258
DBLG 20 300 FT	300/ ST / FT	6043323	6015 67 2		160	DBV 85 300 F FS	3000,75/ St / FS	5712008	7130 99 8		258
DBLG 20 400 FS	400/ ST / FS	6961764	6015 68 9		278	DBV 85 400 F DD	4000,75/ St / DD	5874720	7131 68 4		258
DBLG 20 400 FS	400/ ST / FS	6961764	6015 68 9		160	DBV 85 400 F FS	4000,75/ St / FS	5712015	7131 00 2		258
DBLG 20 400 FT	400/ ST / FT	6043446	6015 69 1		278	DBV 85 500 F DD	5000,75/ St / DD	5874737	7131 68 8		258
DBLG 20 400 FT	400/ ST / FT	6043446	6015 69 1		160	DBV 85 500 F FS	5000,75/ St / FS	5712022	7131 00 6		258
DBLG 20 500 FS	500/ ST / FS	5239222	6015 69 3		278	DBV 85 600 F DD	6000,75/ St / DD	5874744	7131 69 2		258
DBLG 20 500 FS	500/ ST / FS	5239222	6015 69 3		160	DBV 85 600 F FS	6000,75/ St / FS	5712039	7131 01 0		258
DBLG 20 500 FT	500/ ST / FT	5239260	6015 69 5		278	DBV FS	/ St / FS	5373070			

# Type listing

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/pc.							
DBV60200F VA4301	200,75/ V2A	5886259	7130 95 4		394	DFBM 90 100 V2A	100,125/ V2A	5929260	7138 57 0		393
DBV60200F VA4571	200,75/ V4A	5886358	7130 97 4		439	DFBM 90 100 V4A	100,125/ V4A	5929338	7138 59 0		438
DBV60300F VA4301	300,75/ V2A	5886266	7130 95 6		394	DFBM 90 150 DD	150,125/ St / DD	5929208	7138 54 2		255
DBV60300F VA4571	300,75/ V4A	5886372	7130 97 6		439	DFBM 90 150 FS	150,125/ St / FS	5929109	7138 50 2		255
DBV60400F VA4301	400,75/ V2A	5886273	7130 95 8		394	DFBM 90 150 V2A	150,125/ V2A	5929277	7138 57 2		393
DBV60400F VA4571	400,75/ V4A	5886426	7130 97 8		439	DFBM 90 150 V4A	150,125/ V4A	5929345	7138 59 2		438
DBV60500F VA4301	500,75/ V2A	5886280	7130 96 0		394	DFBM 90 200 DD	200,125/ St / DD	5929215	7138 54 4		255
DBV60500F VA4571	500,75/ V4A	5886433	7130 98 0		439	DFBM 90 200 FS	200,125/ St / FS	5929116	7138 50 4		255
DBV60600F VA4301	600,75/ V2A	5886297	7130 96 2		394	DFBM 90 200 V2A	200,125/ V2A	5929284	7138 57 4		393
DBV60600F VA4571	600,75/ V4A	5886440	7130 98 2		439	DFBM 90 200 V4A	200,125/ V4A	5929352	7138 59 4		438
						DFBM 90 300 DD	300,125/ St / DD	5929222	7138 54 6		255
						DFBM 90 300 FS	300,125/ St / FS	5929123	7138 50 6		255
DFAA BKS100 DD	100,4,5/ Al / DD	5079293	7131 45 0		266	DFBM 90 300 V2A	300,125/ V2A	5929291	7138 57 6		393
DFAA BKS200 DD	200,4,5/ Al / DD	5079309	7131 45 2		266	DFBM 90 300 V4A	300,125/ V4A	5929369	7138 59 6		438
DFAA BKS300 DD	300,4,5/ Al / DD	5079316	7131 45 4		266	DFBM 90 400 DD	400,125/ St / DD	5929239	7138 54 8		255
DFAA BKS400 DD	400,4,5/ Al / DD	5079323	7131 45 6		266	DFBM 90 400 FS	400,125/ St / FS	5929130	7138 50 8		255
DFAA BKS500 DD	500,4,5/ Al / DD	5079354	7131 45 8		266	DFBM 90 400 V2A	400,125/ V2A	5929307	7138 57 8		393
DFAA BKS550 DD	550,4,5/ Al / DD	5079361	7131 46 0		266	DFBM 90 400 V4A	400,125/ V4A	5929376	7138 59 8		438
DFAA BKS600 DD	600,4,5/ Al / DD	5079378	7131 46 2		266	DFBM 90 500 DD	500,125/ St / DD	5929246	7138 55 0		255
DFAAM 100 DD	100,1,25/ St / DD	5930655	7138 68 0		256	DFBM 90 500 FS	500,125/ St / FS	5929147	7138 51 0		255
DFAAM 100 FS	100,1,25/ St / FS	5930587	7138 64 0		256	DFBM 90 500 V2A	500,125/ V2A	5929314	7138 58 0		393
DFAAM 100 V2A	100,1,25/ V2A	5930723	7138 72 0		393	DFBM 90 500 V4A	500,125/ V4A	5929383	7138 60 0		438
DFAAM 100 V4A	100,1,25/ V4A	5930815	7138 74 0		438	DFBM 90 600 DD	600,1,25/ St / DD	5929253	7138 55 2		255
DFAAM 150 DD	150,1,25/ St / DD	5930662	7138 68 2		256	DFBM 90 600 FS	600,1,25/ St / FS	5929154	7138 51 2		255
DFAAM 150 FS	150,1,25/ St / FS	5930594	7138 64 2		256	DFBM 90 600 V2A	600,1,25/ V2A	5929321	7138 58 2		393
DFAAM 150 V2A	150,1,25/ V2A	5930754	7138 72 2		393	DFBM 90 600 V4A	600,1,25/ V4A	5929390	7138 60 2		438
DFAAM 150 V4A	150,1,25/ V4A	5930822	7138 74 2		438						
DFAAM 200 DD	200,1,25/ St / DD	5930679	7138 68 4		256	DFKM 100 DD	100,1,25/ St / DD	5931324	7138 97 0		256
DFAAM 200 FS	200,1,25/ St / FS	5930600	7138 64 4		256	DFKM 100 FS	100,1,25/ St / FS	5931256	7138 93 0		256
DFAAM 200 V2A	200,1,25/ V2A	5930761	7138 72 4		393	DFKM 100 V2A	100,1,25/ V2A	5931416	7139 02 0		394
DFAAM 200 V4A	200,1,25/ V4A	5930839	7138 74 4		438	DFKM 100 V4A	100,1,25/ V4A	5931485	7139 04 0		439
DFAAM 300 DD	300,1,25/ St / DD	5930686	7138 68 6		256	DFKM 150 DD	150,1,25/ St / DD	5931355	7138 97 2		256
DFAAM 300 FS	300,1,25/ St / FS	5930617	7138 64 6		256	DFKM 150 FS	150,1,25/ St / FS	5931263	7138 93 2		256
DFAAM 300 V2A	300,1,25/ V2A	5930778	7138 72 6		393	DFKM 150 V2A	150,1,25/ V2A	5931423	7139 02 2		394
DFAAM 300 V4A	300,1,25/ V4A	5930846	7138 74 6		438	DFKM 150 V4A	150,1,25/ V4A	5931492	7139 04 2		439
DFAAM 400 DD	400,1,25/ St / DD	5930693	7138 68 8		256	DFKM 200 DD	200,1,25/ St / DD	5931362	7138 97 4		256
DFAAM 400 FS	400,1,25/ St / FS	5930624	7138 64 8		256	DFKM 200 FS	200,1,25/ St / FS	5931270	7138 93 4		256
DFAAM 400 V2A	400,1,25/ V2A	5930785	7138 72 8		393	DFKM 200 V2A	200,1,25/ V2A	5931430	7139 02 4		394
DFAAM 400 V4A	400,1,25/ V4A	5930853	7138 74 8		438	DFKM 200 V4A	200,1,25/ V4A	5931508	7139 04 4		439
DFAAM 500 DD	500,1,25/ St / DD	5930709	7138 69 0		256	DFKM 300 DD	300,1,25/ St / DD	5931379	7138 97 6		256
DFAAM 500 FS	500,1,25/ St / FS	5930631	7138 65 0		256	DFKM 300 FS	300,1,25/ St / FS	5931287	7138 93 6		256
DFAAM 500 V2A	500,1,25/ V2A	5930792	7138 73 0		393	DFKM 300 V2A	300,1,25/ V2A	5931447	7139 02 6		394
DFAAM 500 V4A	500,1,25/ V4A	5930860	7138 75 0		438	DFKM 300 V4A	300,1,25/ V4A	5931515	7139 04 6		439
DFAAM 600 DD	600,1,25/ St / DD	5930716	7138 69 2		256	DFKM 400 DD	400,1,25/ St / DD	5931386	7138 97 8		256
DFAAM 600 FS	600,1,25/ St / FS	5930648	7138 65 2		256	DFKM 400 FS	400,1,25/ St / FS	5931294	7138 93 8		256
DFAAM 600 V2A	600,1,25/ V2A	5930808	7138 73 2		393	DFKM 400 V2A	400,1,25/ V2A	5931454	7139 02 8		394
DFAAM 600 V4A	600,1,25/ V4A	5930877	7138 75 2		438	DFKM 400 V4A	400,1,25/ V4A	5931522	7139 04 8		439
						DFKM 500 DD	500,1,25/ St / DD	5931393	7138 98 0		256
						DFKM 500 FS	500,1,25/ St / FS	5931300	7138 94 0		256
DFB BKS90100	100,4,5/ Al / DD	5079187	7130 74 1		266	DFKM 500 V2A	500,1,25/ V2A	5931461	7139 03 0		394
DFB BKS90200	200,4,5/ Al / DD	5079194	7130 74 3		266	DFKM 500 V4A	500,1,25/ V4A	5931539	7139 05 0		439
DFB BKS90300	300,4,5/ Al / DD	5079200	7130 74 5		266	DFKM 600 DD	600,1,25/ St / DD	5931409	7138 98 2		256
DFB BKS90400	400,4,5/ Al / DD	5079231	7130 74 7		266	DFKM 600 FS	600,1,25/ St / FS	5931317	7138 94 2		256
DFB BKS90500	500,4,5/ Al / DD	5079248	7130 74 9		266	DFKM 600 V2A	600,1,25/ V2A	5931478	7139 03 2		394
DFB BKS90550	550,4,5/ Al / DD	5079255	7130 75 1		266	DFKM 600 V4A	600,1,25/ V4A	5931546	7139 05 2		439
DFB BKS90600	600,4,5/ Al / DD	5079262	7130 75 3		266						
						DFTM 100 DD	100,1,25/ St / DD	5930952	7138 83 0		256
DFBM 45 100 DD	100,1,25/ St / DD	5928836	7138 40 0		255	DFTM 100 FS	100,1,25/ St / FS	5930884	7138 79 0		256
DFBM 45 100 FS	100,1,25/ St / FS	5928751	7138 36 0		255	DFTM 100 V2A	100,1,25/ V2A	5931072	7138 86 0		393
DFBM 45 100 V2A	100,1,25/ V2A	5928942	7138 43 0		393	DFTM 100 V4A	100,1,25/ V4A	5931164	7138 88 0		439
DFBM 45 100 V4A	100,1,25/ V4A	5929017	7138 45 0		438	DFTM 150 DD	150,1,25/ St / DD	5930969	7138 83 2		256
DFBM 45 150 DD	150,1,25/ St / DD	5928843	7138 40 2		255	DFTM 150 FS	150,1,25/ St / FS	5930891	7138 79 2		256
DFBM 45 150 FS	150,1,25/ St / FS	5928768	7138 36 2		255	DFTM 150 V2A	150,1,25/ V2A	5931089	7138 86 2		393
DFBM 45 150 V2A	150,1,25/ V2A	5928959	7138 43 2		393	DFTM 150 V4A	150,1,25/ V4A	5931171	7138 88 2		439
DFBM 45 150 V4A	150,1,25/ V4A	5929024	7138 45 2		438	DFTM 200 DD	200,1,25/ St / DD	5931003	7138 83 4		256
DFBM 45 200 DD	200,1,25/ St / DD	5928867	7138 40 4		255	DFTM 200 FS	200,1,25/ St / FS	5930907	7138 79 4		256
DFBM 45 200 FS	200,1,25/ St / FS	5928775	7138 36 4		255	DFTM 200 V2A	200,1,25/ V2A	5931119	7138 86 4		393
DFBM 45 200 V2A	200,1,25/ V2A	5928966	7138 43 4		393	DFTM 200 V4A	200,1,25/ V4A	5931188	7138 88 4		439
DFBM 45 200 V4A	200,1,25/ V4A	5929031	7138 45 4		438	DFTM 300 DD	300,1,25/ St / DD	5931010	7138 83 6		256
DFBM 45 300 DD	300,1,25/ St / DD	5928874	7138 40 6		255	DFTM 300 FS	300,1,25/ St / FS	5930914	7138 79 6		256
DFBM 45 300 FS	300,1,25/ St / FS	5928782	7138 36 6		255	DFTM 300 V2A	300,1,25/ V2A	5931126	7138 86 6		393
DFBM 45 300 V2A	300,1,25/ V2A	5928973	7138 43 6		393	DFTM 300 V4A	300,1,25/ V4A	5931195	7138 88 6		439
DFBM 45 300 V4A	300,1,25/ V4A	5929048	7138 45 6		438	DFTM 400 DD	400,1,25/ St / DD	5931027	7138 83 8		256
DFBM 45 400 DD	400,1,25/ St / DD	5928881	7138 40 8		255	DFTM 400 FS	400,1,25/ St / FS	5930921	7138 79 8		256
DFBM 45 400 FS	400,1,25/ St / FS	5928799	7138 36 8		255	DFTM 400 V2A	400,1,25/ V2A	5931133	7138 86 8		393
DFBM 45 400 V2A	400,1,25/ V2A	5928980	7138 43 8		393	DFTM 400 V4A	400,1,25/ V4A	5931201	7138 88 8		439
DFBM 45 400 V4A	400,1,25/ V4A	5929055	7138 45 8		438	DFTM 500 DD	500,1,25/ St / DD	5931058	7138 84 0		256
DFBM 45 500 DD	500,1,25/ St / DD	5928904	7138 41 0		255	DFTM 500 FS	500,1,25/ St / FS	5930938	7138 80 0		256
DFBM 45 500 FS	500,1,25/ St / FS	5928812	7138 37 0		255	DFTM 500 V2A	500,1,25/ V2A	5931140	7		

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
DIN 128 A M10 G	10,5 18-18,1 / ST / G	5302414	3405 10 9	/100 pc.	206	DRL 200 FS	200 1 / St / FS	6058150	6052 20 7	/m	304
DIN 128 A M12 G	12,5 21,1-21,1 / ST / G	5302476	3405 12 5		206	DRL 200 FS	200 1 / St / FS	6058150	6052 20 7		254
DIN 128 A M6 G	6,3 11,8-11,8 / ST / G	5302292	3405 06 0		206						
DIN 128 A M8 G	8,3 14,8-14,8 / ST / G	5302353	3405 08 7		206	DRL 200 VA4301	200 1 / V2A	6058938	6052 89 4		407
DIN 6798 A M10 G	10,5 18-18 / ST / G	5301752	3404 10 2		206	DRL 200 VA4301	200 1 / V2A	6058938	6052 89 4		392
DIN 6798 A M12 G	13,2 20,5-20,5 / ST / G	5301813	3404 12 9		206	DRL 200 VA4571	200 / V4A	5866169	6052 98 1		438
DIN 6798 A M6 G	6,4 11-11 / ST / G	5301639	3404 06 4		206	DRL 300 DD	300 1 / ST / DD	6038954	6052 71 2		304
DIN 6798 A M8 G	8,4 15-15 / ST / G	5301691	3404 08 0		206	DRL 300 DD	300 1 / ST / DD	6038954	6052 71 2		254
DIN 6798 M6 VA	6,4 11 / V2A	5301936	3404 33 1		206						
DIN 934 M10 G	108,4 / ST / G	5298212	3400 10 7	/100 pc.	207	DRL 300 FS	300 1 / St / FS	6058273	6052 30 4		304
DIN 934 M10 VA	108,4 / V2A	5297796	3397 10 6		384	DRL 300 FS	300 1 / St / FS	6058273	6052 30 4		254
DIN 934 M12 G	12,1 10,8 / ST / G	5298274	3400 12 3		207	DRL 300 VA4301	300 1 / V2A	6058990	6052 90 8		407
DIN 934 M12 VA	12,1 10,8 / V2A	5297857	3397 11 4		384	DRL 300 VA4301	300 1 / V2A	6058990	6052 90 8		392
DIN 934 M4 G	4,3 2 / ST / G	5297970	3400 04 2		207	DRL 300 VA4571	300 / V4A	6955817	6052 98 3		438
DIN 934 M5 G	5,4 7 / ST / G	5298038	3400 05 0		207					/pc.	
DIN 934 M6 G	6,5 2 / ST / G	5298090	3400 06 9		207	DRL 311 2 FT	/ ST / FT	6064519	6065 14 7		255
DIN 934 M6 VA	6,5 2 / V2A	5297673	3397 06 8		384	DRL 311 FT	/ ST / FT	6064335	6065 00 7		255
DIN 934 M8 G	8,6 8 / ST / G	5298151	3400 08 5		207					/m	
DIN 934 M8 VA	8,6 8 / V2A	5297734	3397 08 4		384	DRL 400 DD	400 1 / ST / DD	6039012	6052 71 5		304
DIN440 11 F	11 34-34 / St / F	6480074	6408 72 9		205	DRL 400 DD	400 1 / ST / DD	6039012	6052 71 5		254
DIN440 14 F	13,5 44-44 / St / F	6480135	6408 73 7		205	DRL 400 FS	400 1 / St / FS	6058396	6052 40 1		304
DIN440 7 F	6,6 22-22 / St / F	6479955	6408 70 2		205	DRL 400 FS	400 1 / St / FS	6058396	6052 40 1		254
DIN440 9 F	9 28-28 / St / F	6480012	6408 71 0		205						
DIN934 M10 F	108,4 / ST / F	5298519	3400 36 0		207	DRL 400 VA4301	400 1 / V2A	6059058	6052 93 2		407
DIN934 M12 F	12,1 10,8 / ST / F	5298571	3400 37 9		207	DRL 400 VA4301	400 1 / V2A	6059058	6052 93 2		392
DIN934 M6 F	6,5 2 / ST / F	5298397	3400 34 4		207	DRL 400 VA4571	400 / V4A	5870883	6052 98 4		438
DIN934 M8 F	8,6 8 / ST / F	5298458	3400 35 2		207	DRL 500 DD	500 1,25 / ST / DD	6039074	6052 71 8		304
					207	DRL 500 DD	500 1,25 / ST / DD	6039074	6052 71 8		254
						DRL 500 FS	500 1,25 / St / FS	6058518	6052 50 9		304
						DRL 500 FS	500 1,25 / St / FS	6058518	6052 50 9		254
DKL 110 VA4310	120,9 / V2A	6517213	6065 55 4	/pc.	254						
DKL 35 VA4310	50,9 / V2A	6517930	6065 50 3		254	DRL 500 VA4301	500 1,25 / V2A	6059119	6052 95 9		407
DKL 45 VA4310	60,9 / V2A	6517879	6065 51 1		254	DRL 500 VA4301	500 1,25 / V2A	6059119	6052 95 9		392
DKL 60 VA4310	75,9 / V2A	6517817	6065 53 8		254	DRL 500 VA4571	500 / V4A	5870890	6052 98 5		438
DKL 85 VA4310	95,9 / V2A	6517756	6065 54 6		254	DRL 550 DD	550 1,25 / ST / DD	6039135	6052 72 1		254
						DRL 550 FS	550 1,25 / St / FS	6058631	6052 56 8		254
DKS 610 VA4301	1000,8 / V2A	6070459	6085 60 1	/m	388						
DKS 610 VA4571	1000,8 / V4A	6181933	6085 66 8		434	DRL 600 DD	600 1,25 / ST / DD	6039197	6052 72 4		304
DKS 620 VA4301	2000,8 / V2A	6070510	6085 62 8		388	DRL 600 DD	600 1,25 / ST / DD	6039197	6052 72 4		254
DKS 620 VA4571	2000,8 / V4A	6343218	6085 67 2		434						
DKS 630 VA4301	3000,8 / V2A	6070572	6085 63 6		388	DRL 600 FS	600 1,25 / St / FS	6058754	6052 60 6		304
DKS 630 VA4571	3001 / V4A	6955510	6085 67 3		434	DRL 600 FS	600 1,25 / St / FS	6058754	6052 60 6		254
DKS 640 VA4301	400 1 / V2A	6070633	6085 64 4		388						
DKS 640 VA4571	400 1 / V4A	5020998	6085 67 5		434	DRL 600 VA4301	600 1,25 / V2A	6059171	6052 97 5		407
DKS 650 VA4301	500 1 / V2A	6070695	6085 65 2		388	DRL 600 VA4301	600 1,25 / V2A	6059171	6052 97 5		392
DKS 650 VA4571	500 1 / V4A	5021001	6085 67 7		434	DRL 600 VA4571	600 / V4A	5866190	6052 98 6		438
DKS 660 VA4301	600 1 / V2A	6070756	6085 66 0		388	DRL AB 230 FT SO	3000 200 / Steel / FT	5063223	7195 25 3		331
DKS 660 VA4571	600 1 / V4A	5021032	6085 67 9		434	DRL AB 330 FT SO	3000 300 / Steel / FT	5063230	7195 25 7		331
						DRL AB 430 FT SO	3000 400 / Steel / FT	5063247	7195 26 1		331
						DRL AB 530 FT SO	3000 500 / Steel / FT	5063278	7195 26 5		331
						DRL AB 630 FT SO	3000 600 / Steel / FT	5063285	7195 26 9		331
DKU 120 VA4310	/ V2A	6617050	6065 61 0	/100 pc.	254	DRL BKS10 ALU	100 2,5 / Al	5078784	6052 75 0		266
DKU 120 VA4310	/ V2A	6617050	6065 61 0		281	DRL BKS20 ALU	200 2,5 / Al	5078814	6052 75 2		266
DKU 120 VA4310	/ V2A	6617050	6065 61 0		364	DRL BKS30 ALU	300 2,5 / Al	5078821	6052 75 5		266
DKU 120 VA4310	/ V2A	6617050	6065 61 0		392	DRL BKS40 ALU	400 2,5 / Al	5078838	6052 75 7		266
DKU 120 VA4310	/ V2A	6617050	6065 61 0		401	DRL BKS50 ALU	500 2,5 / Al	5078845	6052 75 9		266
DKU 60 VA4310	/ V2A	6441372	6065 60 0		254	DRL BKS55 ALU	550 2,5 / Al	5078968	6052 76 1		266
DKU 60 VA4310	/ V2A	6441372	6065 60 0		281	DRL BKS60 ALU	600 2,5 / Al	5078999	6052 76 3		266
DKU 60 VA4310	/ V2A	6441372	6065 60 0		364						
DKU 60 VA4310	/ V2A	6441372	6065 60 0		392						
DKU 60 VA4310	/ V2A	6441372	6065 60 0		401	DRLM 316 DD	/ ST / DD	6333134	6222 36 6	/pc.	255
DKU 60 VA4310	/ V2A	6441372	6065 60 0		438	DRLM 316 DD	/ ST / DD	6333134	6222 36 6		304
						DRLM 316 VA4301	/ V2A	6167173	6222 35 8		304
						DRLM 316 VA4301	/ V2A	6167173	6222 35 8		393
						DRLM 316 VA4301	/ V2A	6167173	6222 35 8		407
DRL 050 DD	500,75 / ST / DD	6038718	6052 70 0	/m	254						
DRL 050 FS	500,75 / St / FS	6057856	6052 05 3		254						
DRL 075 FS	750,75 / St / FS	6385577	6052 02 9		359	DRLU 050 DD	500,75 / ST / DD	6657490	6052 64 0	/m	254
DRL 075 FS	750,75 / St / FS	6385577	6052 02 9		254	DRLU 050 DD	500,75 / ST / DD	6657490	6052 64 0		281
DRL 100 DD	1000,75 / ST / DD	6038770	6052 70 3		254	DRLU 050 FS	500,75 / St / FS	6029655	6052 05 6		253
DRL 100 FS	1000,75 / St / FS	6057979	6052 09 6		254	DRLU 050 FS	500,75 / St / FS	6029655	6052 05 6		280
DRL 100 VA4301	100 1 / V2A	6058877	6052 87 8		392	DRLU 050 VA4301	50 1 / V2A	6031818	6052 82 1		392
DRL 100 VA4571	100 / V4A	5675679	6052 98 0		438	DRLU 050 VA4301	50 1 / V2A	6031818	6052 82 1		401
DRL 150 DD	150 1 / ST / DD	6038831	6052 70 6		254	DRLU 100 DD	1000,75 / ST / DD	6657551	6052 64 3		254
						DRLU 100 DD	1000,75 / ST / DD	6657551	6052 64 3		281
DRL 150 FS	150 1 / St / FS	6058099	6052 15 0		254	DRLU 100 FS	1000,75 / St / FS	6029716	6052 10 3		253
						DRLU 100 FS	1000,75 / St / FS	6029716	6052 10 3		280
DRL 200 DD	200 1 / ST / DD	6038893	6052 70 9		304						
DRL 200 DD	200 1 / ST / DD	6038893	6052 70 9		254	DRLU 100 VA4301	100 1 / V2A	6031931	6052 82 4		392



# Type listing

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/m						/m	
DRLU 100 VA4301	1001 / V2A	6031931	6052 82 4		401	EKS 610 FS	1002/ St / FS	6542659	6056 14 8		229
DRLU 100 VA4571	1001 / V4A	5021124	6052 99 1		437	EKS 610 FT	1002/ ST / FT	6333677	6056 77 6		229
DRLU 150 DD	1500,75/ ST / DD	6657612	6052 64 7		254	EKS 620 FS	2002/ St / FS	6114672	6056 22 9		229
DRLU 150 DD	1500,75/ ST / DD	6657612	6052 64 7		281	EKS 620 FT	2002/ ST / FT	6333738	6056 79 2		229
						EKS 630 FS	3002/ St / FS	6389834	6056 32 6		229
DRLU 150 FS	1500,75/ St / FS	6030019	6052 15 3		253	EKS 630 FT	3002/ ST / FT	6333790	6056 80 6		229
DRLU 150 FS	1500,75/ St / FS	6030019	6052 15 3		280	EKS 640 FS	4002/ St / FS	6625215	6056 42 3		229
						EKS 640 FT	4002/ ST / FT	6333493	6056 97 0		229
DRLU 150 VA4301	1501 / V2A	6031993	6052 82 8		392	EKS 650 FS	5002/ St / FS	6625277	6056 52 0		229
DRLU 150 VA4301	1501 / V2A	6031993	6052 82 8		401	EKS 650 FT	5002/ ST / FT	6333554	6056 98 9		229
DRLU 200 DD	2001 / ST / DD	6657674	6052 65 0		254	EKS 660 FS	6002/ St / FS	6389896	6056 62 8		229
DRLU 200 DD	2001 / ST / DD	6657674	6052 65 0		281	EKS 660 FT	6002/ ST / FT	6333615	6056 99 7		229
						ELB-L 20 FS	2001/ ST / FS	6420735	6103 23 5		304
DRLU 200 FS	2001 / St / FS	6030071	6052 21 0		253	ELB-L 20 FS	2001/ ST / FS	6420735	6103 23 5		321
DRLU 200 FS	2001 / St / FS	6030071	6052 21 0		280	ELB-L 20 FT	2001/ ST / FT	6289455	6103 42 1		304
						ELB-L 20 FT	2001/ ST / FT	6289455	6103 42 1		321
DRLU 200 VA4301	2001 / V2A	6032051	6052 83 1		392	ELB-L 30 FS	3001/ ST / FS	6420858	6103 25 1		304
DRLU 200 VA4301	2001 / V2A	6032051	6052 83 1		401	ELB-L 30 FS	3001/ ST / FS	6420858	6103 25 1		321
DRLU 200 VA4571	2001 / V4A	5021155	6052 99 3		437	ELB-L 30 FT	3001/ ST / FT	6308651	6103 44 8		304
DRLU 300 DD	3001 / ST / DD	6336678	6052 65 6		254	ELB-L 30 FT	3001/ ST / FT	6308651	6103 44 8		321
DRLU 300 DD	3001 / ST / DD	6336678	6052 65 6		281	ELB-L 40 FS	4001/ ST / FS	6420971	6103 28 6		304
						ELB-L 40 FS	4001/ ST / FS	6420971	6103 28 6		321
DRLU 300 FS	3001 / St / FS	6031399	6052 30 7		253	ELB-L 40 FT	4001/ ST / FT	6308590	6103 45 6		304
DRLU 300 FS	3001 / St / FS	6031399	6052 30 7		280	ELB-L 40 FT	4001/ ST / FT	6308590	6103 45 6		321
						ELB-L 40 FT	4001/ ST / FT	6308590	6103 45 6		304
DRLU 300 VA4301	3001 / V2A	6032174	6052 83 4		392	ELB-L 50 FS	5001/ ST / FS	6421091	6103 31 6		321
DRLU 300 VA4301	3001 / V2A	6032174	6052 83 4		401	ELB-L 50 FS	5001/ ST / FS	6421091	6103 31 6		304
DRLU 300 VA4571	3001 / V4A	5021162	6052 99 4		437	ELB-L 50 FT	5001/ ST / FT	6308538	6103 46 4		321
DRLU 400 DD	4001 / ST / DD	6336739	6052 66 2		254	ELB-L 50 FT	5001/ ST / FT	6308538	6103 46 4		304
DRLU 400 DD	4001 / ST / DD	6336739	6052 66 2		281	ELB-L 60 FS	6001/ ST / FS	6421213	6103 33 2		321
						ELB-L 60 FS	6001/ ST / FS	6421213	6103 33 2		304
DRLU 400 FS	4001 / St / FS	6031511	6052 40 5		253	ELB-L 60 FT	6001/ ST / FT	6308477	6103 48 0		321
DRLU 400 FS	4001 / St / FS	6031511	6052 40 5		280	ELB-L 60 FT	6001/ ST / FT	6308477	6103 48 0		304
						ELB-L20 VA4301	2003000/ V2A	5037354	6103 61 4		411
DRLU 400 VA4301	4001 / V2A	6032235	6052 83 7		392	ELB-L30 VA4301	3003000/ V2A	5037361	6103 61 8		411
DRLU 400 VA4301	4001 / V2A	6032235	6052 83 7		401	ELB-L40 VA4301	4003000/ V2A	5037378	6103 62 2		411
DRLU 400 VA4571	4001 / V4A	5021216	6052 99 5		437	ELB-L50 VA4301	5003000/ V2A	5037385	6103 62 6		411
DRLU 500 DD	5001,25/ ST / DD	6336791	6052 66 8		254	ELB-L60 VA4301	6003000/ V2A	5037415	6103 63 0		411
DRLU 500 DD	5001,25/ ST / DD	6336791	6052 66 8		281						
						FAZ II 10 10 GS	M1095/ ST / G	5888499	3498 54 9	/100 pc.	210
DRLU 500 FS	5001,25/ St / FS	6031634	6052 51 2		280	FAZ II 10 100	M10185/ St / G	5049500	3498 59 7		210
DRLU 500 FS	5001,25/ St / FS	6031634	6052 51 2			FAZ II 10 10CV5A	M1095/ V5A	5802730	3498 55 4		431
						FAZ II 10 30	M10115/ ST / G	5888550	3498 58 1		210
DRLU 500 VA4301	5001,25/ V2A	6032297	6052 84 1		392	FAZ II 10 30CV5A	M10115/ V5A	5802747	3498 58 6		431
DRLU 500 VA4301	5001,25/ V2A	6032297	6052 84 1		401	FAZ II 10 50 V5A	M10135/ V5A	5909958	3498 83 7		431
DRLU 500 VA4571	5001,25/ V4A	5021223	6052 99 6		437						
DRLU 550 DD	5501,25/ ST / DD	6336852	6052 67 1		254						
						FAZ II 10/10GS V	M 1095/ V4A	5692713	3498 82 4	/100 pc.	384
DRLU 550 FS	5501,25/ St / FS	6031696	6052 57 1		253	FAZ II 10/10GS V	M 1095/ V4A	5692713	3498 82 4		431
						FAZ II 10/50 V4A	M10135/ V4A	5688808	3498 83 5		384
DRLU 600 DD	6001,25/ ST / DD	6336913	6052 67 4		281	FAZ II 10/50 V4A	M10135/ V4A	5688808	3498 83 5		431
DRLU 600 DD	6001,25/ ST / DD	6336913	6052 67 4		254	FAZ II 10100 V4A	M10185/ V4A	5909880	3498 60 1		431
						FAZ II 10100 V5A	M10185/ V5A	5909897	3498 60 3		431
DRLU 600 FS	6001,25/ St / FS	6031757	6052 60 9		280						
DRLU 600 FS	6001,25/ St / FS	6031757	6052 60 9		253						
						FAZ II 12 10	M12110/ ST / G	5888611	3498 65 4	/100 pc.	210
DRLU 600 VA4301	6001,25/ V2A	6032358	6052 84 4		392	FAZ II 12 10CV5A	M12110/ V5A	5802785	3498 65 9		431
DRLU 600 VA4301	6001,25/ V2A	6032358	6052 84 4		401	FAZ II 12/10 VA	M12110/ V4A	5692652	3498 85 9		384
DRLU 600 VA4571	6001,25/ V4A	5021247	6052 99 8		437	FAZ II 12/10 VA	M12110/ V4A	5692652	3498 85 9		431
						FAZ II 8 10 GS	M875/ ST / G	5888437	3498 50 6		210
						FAZ II 8 10CV5A	M875/ V5A	5802723	3498 51 2		431
						FAZ II 8 30 GS	M897/ St / G	5504252	3498 48 4		210
DS 4 FS	/ St / FS	6202997	6416 55 1		167	FAZ II 8 30CV5A	M895/ V5A	5802686	3498 49 0		431
						FAZ II 810VA4401	M875/ V4A	5706076	3498 50 9		384
DS 4 FT	/ St / FT	6555611	6416 58 6		167	FAZ II 810VA4401	M875/ V4A	5706076	3498 50 9		431
DS 4 VA4301	/ V2A	5617884	6416 59 4		372	FAZ II 830VA4401	M895/ V4A	5706069	3498 48 7		384
						FAZ II 830VA4401	M895/ V4A	5706069	3498 48 7		431
DSK 25 FT	/ St / FT	6229277	6416 44 6		169						
DSK 25 VA4301	/ V2A	5706045	6416 44 8		374						
DSK 25 VA4571	/ V4A	5618485	6416 45 0		425	FCM F	M6 x 12/ St / F	5438519	6424 54 8		204
DSK 45 FT	/ St / FT	6202812	6416 50 0		172						
DSK 45 FT	/ St / FT	6202812	6416 50 0		176						
DSK 45 VA4301	/ V2A	6202751	6416 48 9		376						
DSK 45 VA4301	/ V2A	6202751	6416 48 9		379	FESP 50 5	30005/ ST	6239719	7104 36 7	/m	201
DSK 45 VA4571	/ V4A	6818235	6416 46 2		427	FESP L 50 4 BK	30004/ ST	6239832	7104 96 0		201
DSK 47 FT	/ St / FT	6894253	6416 50 4		173	FESP Q 50 4 BK	30004/ ST	6239771	7104 66 9		201
DSK 47 VA4301	/ V2A	5018346	6416 50 7		376						
DSK 47 VA4571	/ V4A	5018407	6416 51 1		427						
DSK 61 FT	/ St / FT	6202874	6416 51 9		175						
DSK 61 VA4301	/ V2A	6202935	6416 52 7		378	F-FIX-B10	/ PP	5070085	5403 12 4	/100 pc.	282
						F-FIX-B16	/ PP	5548959	5403 23 5		282
						F-FIX-S10		5070078	5403 11 7		282
EKBV RST2013 SW	29 x 23/ PA	5892359	6069 79 8		350	F-FIX-S16		5548898	5403 22 7		281
						FH II 18X80	M12120/ ST / G	5489139	3498 74 3		210

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FHY M10	M10 10/ St / G	5599111	3498 76 4	/100 pc.	211	FRSB 6X15 F	M6 x 15 15/ St / F	6199877	6406 15 7	/100 pc.	204
FHY M8	M88/ St / G	5598930	3498 76 0		211	FRSB 6X16 VA4301	M6 x 16/ V2A	6077717	6406 18 9		383
FIS A M10X110	11010/ St / G	5714316	3488 30 6	/100 pc.	212	FRSB 6X16 VA4301	M6 x 16/ V2A	6077717	6406 18 9	/100 pc.	420
FIS A M10X130	13010/ St / G	5437390	3488 30 8		212	FRSB 6X16 VA4401	M6 x 16 16/ V4A	6078431	6406 19 3		430
FIS A M12X120	12012/ St / G	5437406	3488 31 2	/pc.	212	FRSB 6X20 F	M6 x 2020/ St / F	6199990	6406 20 3	/pc.	366
FIS A M6X70	706/ St / G	5437376	3488 29 2		212	FRSB 6X20 F	M6 x 2020/ St / F	6199990	6406 20 3		204
FIS A M8X90	908/ St / G	5437383	3488 29 8	/100 pc.	212	FRSB 6X20 G	M6 x 2020/ St / G	6616152	6406 18 1	/100 pc.	204
FIS DMS	Red	5318910	3488 52 7		212	FRSB 6x20 VA4301	M6 x 20/ V2A	5925248	6406 20 5		383
FIS H 12X50 K	1250/ PP	5437437	3488 45 2	/100 pc.	212	FRSB 6x20 VA4401	M6 x 20/ V4A	5925255	6406 20 7	/100 pc.	430
FIS H 12X85 K	1285/ PP	5437444	3488 46 4		212	FRSB 6X30 F	M6 x 3030/ St / F	5045243	6406 90 7		204
FIS H 16X85 K	1675/ PP	5714255	3488 46 2	/pc.	212	FZEA II 10X40 G	M810/ St / G	5454038	3492 03 6	/pc.	210
FIS H 20X85 K	2085/ PP	5437451	3488 46 8		212	FZEA II 10X40 VA	M810/ V4A	5025177	3492 14 5		384
FIS PBB	151/ St	5437499	3488 52 5	/100 pc.	212	FZEA II 10X40 VA	M810/ V4A	5025177	3492 14 5	/100 pc.	431
FIS PBZ	/ PP	5437468	3488 51 5		212	FZEA II 12X40 G	M1012/ St / G	5454090	3492 06 0		210
FIS V 360 S		5319276	3488 40 3	/100 pc.	212	FZEA II 12X40 VA	M1012/ V4A	5025184	3492 15 0	/100 pc.	384
FNA II 6X30 M6/5	M66/ St / G	5461890	3498 42 5		212	FZEA II 12X40 VA	M1012/ V4A	5025184	3492 15 0		431
FNA II 6x30 M6/5	M66/ V5A	5784715	3498 42 6	/100 pc.	212	FZEA II 14X40 G	M1214/ St / G	5454151	3492 09 5	/100 pc.	210
FNA II 6X30/5	156/ St / G	5693192	3498 46 8		212	FZEA II 14X40V4A	M1214/ V4A	5909835	3492 09 7		431
FNA II 6x30/5	6/ V5A	5784722	3498 46 9	/100 pc.	212	FZEA II 14X40V5A	M1214/ V5A	5909842	3492 09 9	/100 pc.	431
FRS 10X20 F	M10 x 20/ St / F	6201730	6407 47 1		210	FZEA II10x40CV5A	M810/ V5A	5802662	3492 16 7		431
FRS 10X20 VA4301	M10 x 2020/ V2A	6200894	6406 86 6	/100 pc.	431	FZEA II12x40CV5A	M1012/ V5A	5802679	3492 17 2	/100 pc.	431
FRS 10X20 VA4401	M10 x 2020/ V4A	6822072	6406 87 0		210	FZED 10X40 G	/ St / G	5454212	3492 62 1		210
FRS 10X20 VA4401	M10 x 2020/ V4A	6822072	6406 87 0	/100 pc.	431	FZED 10X40 G	/ St / G	5454212	3492 62 1	/100 pc.	384
FRS 10X20SVA4401	M10 x 2020/ V4A	6437894	6406 87 2		210	FZED 12X40 G	/ St / G	5454274	3492 66 4		210
FRS 10X25 F	M10 x 25/ St / F	6201792	6407 52 8	/100 pc.	204	FZED 12X40 G	/ St / G	5454274	3492 66 4	/100 pc.	384
FRS 10X25 F 8.8	M10 x 25/ St / F	6201914	6407 56 0		204	FZED 14X40 G	/ St / G	5454335	3492 69 9		210
FRS 10X25 F 8.8	M10 x 25/ St / F	6201914	6407 56 0	/100 pc.	170	FZUB 10X40	10 10/ St	5454397	3492 33 8	/100 pc.	210
FRS 10X25 F 8.8	M10 x 25/ St / F	6201914	6407 56 0		173	FZUB 10X40	10 10/ St	5454397	3492 33 8		384
FRS 10X25 F 8.8	M10 x 25/ St / F	6201914	6407 56 0	/100 pc.	204	FZUB 12X40	12 10/ St	5454458	3492 36 2	/100 pc.	210
FRS 10X25 F TPS	M10 x 25/ St / F	6201853	6407 53 6		204	FZUB 12X40	12 10/ St	5454458	3492 36 2		384
FRS 10X25 F TPS	M10 x 25/ St / F	6201853	6407 53 6	/100 pc.	167	FZUB 14X40	14 10/ St	5454519	3492 39 7	/100 pc.	210
FRS 10X25 VA4301	M10 x 2525/ V2A	6200474	6406 71 8		204	GABA RST20i3 BL	47 x 35/ PA	5892311	6069 79 3		349
FRS 10X25 VA4301	M10 x 2525/ V2A	6200474	6406 71 8	/100 pc.	204	GABI RST20i3 BL	69 x 35/ PA	5892328	6069 79 5	/100 pc.	349
FRS 10X25 VA4301	M10 x 2525/ V2A	6200474	6406 71 8		374	GEV 36 FT	/ St / FT	6013272	6016 72 3		277
FRS 10x25 VA4401	M10 x 2525/ V4A	5925262	6407 52 4	/100 pc.	376	GEV 36 G	/ St / G	6307876	6016 71 5	/100 pc.	277
FRS 10X30 F	M10 x 30/ St / F	6201976	6407 57 9		383	GEV 36 VA4301	/ V2A	6013333	6016 73 1		400
FRS 10X30 VA4301	M10 x 3030/ V2A	6200535	6406 72 6	/100 pc.	430	GEV 36 VA4401 SP	/ V4A	6120253	6016 76 4	/100 pc.	442
FRS 12X25 F	M12 x 25/ St / F	6200054	6406 25 4		204	G-GRM 125 75 FT	75 125/ St / FT	5686415	6005 52 6		283
FRS 12X25 F	M12 x 25/ St / F	6200054	6406 25 4	/100 pc.	177	G-GRM 125 75 G	75 125/ St / G	5686453	6005 54 1	/100 pc.	283
FRS 12X25 VA4301	M12 x 2525/ V2A	6200597	6406 75 0		378	G-GRM 125 75V2A	75 125/ V2A	5686491	6005 55 6		397
FRS 12X25 VA4301	M12 x 2525/ V2A	6200597	6406 75 0	/100 pc.	383	G-GRM 125 75V4A	75 125/ V4A	5771647	6005 57 1	/100 pc.	441
FRS 12X25 VA4401	M12 x 2525/ V4A	6064328	6406 78 5		430	G-GRM 150 100 FT	100 155/ St / FT	5686422	6005 52 9		283
FRS 12X30 F	M12 x 30/ St / F	6200115	6406 27 0	/100 pc.	204	G-GRM 150 100 G	100 155/ St / G	5686460	6005 54 4	/100 pc.	283
FRS 12X30 VA4301	M12 x 3030/ V2A	6200658	6406 76 9		383	G-GRM 150 1002VA	100 155/ V2A	5686507	6005 55 9		397
FRS 6X12 VA4301	M6 x 12 12/ V2A	6200238	6406 52 1	/100 pc.	383	G-GRM 150 100V4A	100 155/ V4A	5771654	6005 57 4	/100 pc.	441
FRS 6X12 VA4401	M6 x 12 12/ V4A	6291311	6406 56 4		430	G-GRM 50 50 FT	55 55/ St / FT	5686392	6005 52 0		283
FRS 6X16 VA4301	M6 x 16 15/ V2A	6200290	6406 55 6	/100 pc.	383	G-GRM 50 50 G	55 55/ St / G	5686439	6005 53 5	/100 pc.	283
FRS 6X16 VA4401	M6 x 16 16/ V4A	6817573	6406 58 0		430	G-GRM 50 50V2A	55 55/ V2A	5686477	6005 55 0		396
FRS 6X20 VA4301	M6 x 2020/ V2A	6200351	6406 60 2	/100 pc.	383	G-GRM 50 50V4A	55 55/ V4A	5771593	6005 56 5	/100 pc.	441
FRS 6X20 VA4401	M6 x 2020/ V4A	6603077	6406 61 0		430	G-GRM 75 50 FT	53 73/ St / FT	5686408	6005 52 3		283
FRS 8X16 F 5.6	M8 x 16/ St / F	6201198	6406 93 9	/100 pc.	204	G-GRM 75 50 G	53 73/ St / G	5686446	6005 53 8	/100 pc.	283
FRS 8X16 F 8.8	M8 x 16/ St / F	6201259	6406 96 3		204	G-GRM 75 50V2A	53 73/ V2A	5686484	6005 55 3		396
FRS 8X16 VA4301	M8 x 16 16/ V2A	6200412	6406 69 6	/100 pc.	383	G-GRM 75 50V4A	53 73/ V4A	5771609	6005 56 8	/100 pc.	441
FRS 8X20 F	M8 x 20/ St / F	6201310	6406 97 1		204	GKB 34 G	/ St / G	5694052	6016 67 4		277
FRS 8X20 VA4301	M8 x 2020/ V2A	6200719	6406 80 7	/100 pc.	204	GKB 34 VA	/ V2A	5694069	6016 67 6	/100 pc.	399
FRS 8X25 F	M8 x 25/ St / F	6201372	6406 99 8		204	GKS 34 FT	/ St / FT	6013395	6016 82 0		276
FRS 8X25 VA4301	M8 x 25 25/ V2A	6200771	6406 81 5	/100 pc.	383	GKS 34 FT	/ St / FT	6013395	6016 82 0	/100 pc.	285
FRS 8X35 F	M8 x 35/ St / F	6201433	6407 04 8		204	GKS 34 G	/ St / G	7261436	6016 85 5		276
FRS 8X35 VA4301	M8 x 35 35/ V2A	6200832	6406 82 3	/100 pc.	204	GKS 34 VA	/ V2A	6013456	6016 83 9	/100 pc.	398
FRSB 6X12 F	M6 x 12 12/ St / F	6199815	6406 12 2		204	GKS 34 VA4301	/ V2A	6013456	6016 83 9		402
FRSB 6X12 F	M6 x 12 12/ St / F	6199815	6406 12 2	/100 pc.	204	GKS 34 VA4301 SP	/ V4A	6120437	6016 85 9	/100 pc.	442
FRSB 6X12 G	M6 x 12 12/ St / G	6563111	6406 13 0		204	GKS 50 07 FS	7/ St / FS	6421398	6015 26 3		279
FRSB 6X12 VA4301	M6 x 12/ V2A	6077595	6406 13 8	/100 pc.	383	GKS 50 07 FT	7/ St / FT	6785353	6015 27 1	/100 pc.	279
FRSB 6X12 VA4301	M6 x 12/ V2A	6077595	6406 13 8		420	GKS 50 11 FS	11/ St / FS	6965847	6015 27 6		279
FRSB 6X12 VA4401	M6 x 12 12/ V4A	6078370	6406 14 2	/100 pc.	430	GKS 50 FT	11/ St / FT	6965908	6015 27 8	/100 pc.	279
FRSB 6X12 VZ F	M6 x 12 12/ St / F	5059585	6406 12 5		204	GKS 50 VA4404	11/ V4A	6937394	6015 28 0		443
FRSB 6X12 VZ G	M6 x 12 12/ St / G	5059561	6406 13 3	/100 pc.	204	GKT 38 FT	/ St / FT	6013630	6017 06 1	/100 pc.	277
FRSB 6X15 F	M6 x 15 15/ St / F	6199877	6406 15 7		204	GKT 38 FT	/ St / FT	6013630	6017 06 1		285
					366	GKT 38 G	/ St / G	6307937	6017 03 7		277



# Type listing

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
GKT 38 VA4301	/ V2A	6013579	6017 04 5	/pc.	398	GRB 90 560 G	6004,8/ St / G	6352937	6001 97 1	/pc.	273
GKT 38 VA4401 SP	/ V4A	6120499	6017 09 2		442					/m	
				/100 pc.		GRM 105 100 FT	1003,9/ Steel / FT	6021239	6002 43 1		274
						GRM 105 100 G	1003,9/ ST / G	6020270	6002 40 2		274
GMH18 M10 G	10-10 / ST / G	5054672	1146 52 1		207	GRM 105 150 FT	1503,9/ Steel / FT	6021352	6002 43 3		274
GMH18 M10 VA	10-10 / V4A	5084907	1146 56 0		382	GRM 105 150 G	1503,9/ ST / G	6020393	6002 40 4		274
GMH18 M12 VA	12-12 / V4A	5084167	1146 56 2		382	GRM 105 200 FT	2004,8/ Steel / FT	6021475	6002 43 5		274
GMH18 M6 G	6-6 / ST / G	5054559	1146 50 5		207	GRM 105 200 G	2004,8/ ST / G	6020515	6002 40 6		274
GMH18 M6 VA	6-6 / V4A	5084129	1146 55 6		382	GRM 105 300 FT	3004,8/ Steel / FT	6021598	6002 43 7		274
GMH18 M8 G	8-8 / ST / G	5054610	1146 51 3		207	GRM 105 300 G	3004,8/ ST / G	6020638	6002 40 8		274
GMH18 M8 VA	8-8 / V4A	5084150	1146 55 8		382	GRM 105 400 FT	4004,8/ Steel / FT	6021710	6002 43 9		274
						GRM 105 400 G	4004,8/ ST / G	6020751	6002 41 0		274
GMH22 M10 G	10-10 / ST / G	5054917	1146 62 9		208	GRM 105 500 FT	5004,8/ Steel / FT	6021956	6002 44 3		274
GMH22 M10 VA	10-10 / V4A	5084211	1146 65 0		382	GRM 105 500 G	5004,8/ ST / G	6020997	6002 41 5		274
GMH22 M12 G	12-12 / ST / G	5054979	1146 63 7		208	GRM 105 600 FT	6004,8/ Steel / FT	6022076	6002 44 5		274
GMH22 M12 VA	12-12 / V4A	5084228	1146 65 2		382	GRM 105 600 G	6004,8/ ST / G	6021116	6002 41 7		274
GMH22 M6 G	6-6 / ST / G	5054795	1146 60 2		208	GRM 35 100 FT	1003,9/ Steel / FT	5037200	6000 07 1		270
GMH22 M6 VA	6-6 / V4A	5084174	1146 64 6		382	GRM 35 100 G	1003,9/ Steel / G	5037149	6000 06 2		270
GMH22 M8 G	8-8 / ST / G	5054856	1146 61 0		208	GRM 35 100VA4301	1003,9/ V2A	5467700	6000 05 5		395
GMH22 M8 VA	8-8 / V4A	5084181	1146 64 8		382	GRM 35 100VA4401	1003,9/ V4A	5360759	6000 08 7		440
				/pc.		GRM 35 150 FT	1503,9/ Steel / FT	5037231	6000 07 2		270
						GRM 35 150 G	1503,9/ Steel / G	5037170	6000 06 3		270
GMS 170 FS	170/ ST / FS	6940875	6015 40 0		279	GRM 35 150VA4301	1503,9/ V2A	5467731	6000 05 6		395
GMS 170 VA4404	170/ V4A	6952090	6015 41 8		279	GRM 35 150VA4401	1503,9/ V4A	5360766	6000 08 9		440
GMS 170 VA4404	170/ V4A	6952090	6015 41 8		400	GRM 35 200 FT	2003,9/ Steel / FT	5037248	6000 07 3		270
GMS 170 VA4404	170/ V4A	6952090	6015 41 8		443	GRM 35 200 G	2003,9/ Steel / G	5037187	6000 06 4		270
GMS 270 FS	270/ ST / FS	6940936	6015 40 2		279	GRM 35 200VA4301	2003,9/ V2A	5470724	6000 05 7		395
GMS 270 VA4404	270/ V4A	6952151	6015 41 9		279	GRM 35 200VA4401	2003,9/ V4A	5360773	6000 09 0		440
GMS 270 VA4404	270/ V4A	6952151	6015 41 9		400	GRM 35 300 FT	3004,8/ Steel / FT	5037255	6000 07 5		270
GMS 270 VA4404	270/ V4A	6952151	6015 41 9		443	GRM 35 300 G	3004,8/ Steel / G	5037194	6000 06 6		270
GMS 370 FS	370/ ST / FS	6940998	6015 40 4		279	GRM 35 300VA4301	3004,8/ V2A	5470731	6000 05 9		395
GMS 370 VA4404	370/ V4A	6952212	6015 42 0		400	GRM 35 300VA4401	3004,8/ V4A	5360780	6000 09 1		440
GMS 370 VA4404	370/ V4A	6952212	6015 42 0		279	GRM 35 50 FT	503,9/ St / FT	5624820	6000 06 9		270
GMS 370 VA4404	370/ V4A	6952212	6015 42 0		443	GRM 35 50 G	503,9/ St / G	5624813	6000 06 0		270
GMS 370 VA4404	370/ V4A	6952212	6015 42 0		443	GRM 35 50VA4301	503,9/ V2A	5650591	6000 05 4		395
GMS 470 FS	470/ ST / FS	6941056	6015 40 6		279	GRM 55 100 F	1003,9/ ST / F	6317233	6001 04 0		271
GMS 470 VA4404	470/ V4A	6952274	6015 42 1		279	GRM 55 100 FT	1003,9/ ST / FT	6814879	6001 41 6		271
GMS 470 VA4404	470/ V4A	6952274	6015 42 1		400	GRM 55 100 G	1003,9/ ST / G	6858552	6001 44 2		271
GMS 470 VA4404	470/ V4A	6952274	6015 42 1		443	GRM 55 100VA4301	1003,9/ V2A	6101290	6001 07 2		395
GMS 570 FS	570/ ST / FS	6941117	6015 40 8		279	GRM 55 100VA4401	1003,9/ V4A	5166016	6001 08 8		440
GMS 570 VA4404	570/ V4A	6952335	6015 42 2		279	GRM 55 150 F	1503,9/ ST / F	6317356	6001 04 4		271
GMS 570 VA4404	570/ V4A	6952335	6015 42 2		400	GRM 55 150 FT	1503,9/ St / FT	6078912	6001 41 8		271
GMS 570 VA4404	570/ V4A	6952335	6015 42 2		443	GRM 55 150 G	1503,9/ St / G	6078974	6001 44 4		271
						GRM 55 150VA4301	1503,9/ V2A	6101351	6001 07 4		395
GP 15 28 FT	/ ST / FT	6296354	6357 00 8		365	GRM 55 150VA4401	1503,9/ V4A	5166023	6001 09 0		440
						GRM 55 200 4.8 G	2004,8/ St / G	5045274	6001 44 7		271
GP 31 28 FT	/ ST / FT	6296415	6357 01 6		365	GRM 55 200 4.8FT	2004,8/ St / FT	5045281	6001 42 1		271
						GRM 55 200 F	2003,9/ ST / F	6317479	6001 04 7		271
						GRM 55 200 FT	2003,9/ St / FT	6814930	6001 42 0		271
GR BS	450/ ST	6931330	6017 70 0		282	GRM 55 200 G	2003,9/ St / G	6858613	6001 44 6		271
						GRM 55 200VA4301	2003,9/ V2A	6101412	6001 07 6		395
						GRM 55 200VA4401	2003,9/ V4A	5166061	6001 09 1		440
GR KS 3.9 OR	Pastel orange/ PE	5872887	6003 75 0		282	GRM 55 300 F	3004,8/ ST / F	6323531	6001 05 0		271
GR KS 4.8 OR	Pastel orange/ PE	5872894	6003 75 4		282	GRM 55 300 FT	3004,8/ St / FT	6815050	6001 42 4		271
GR KS 6.0 OR	Pastel orange/ PE	5872900	6003 75 8		282	GRM 55 300 G	3004,8/ St / G	6858675	6001 44 8		271
						GRM 55 300VA4301	3004,8/ V2A	6101771	6001 07 8		395
				/pc.		GRM 55 300VA4401	3004,8/ V4A	5166078	6001 09 3		440
GRB 90 110 FT	1003,9/ ST / FT	6002054	6002 30 7		275	GRM 55 400 F	4004,8/ ST / F	6323838	6001 05 3		271
GRB 90 110 G	1003,9/ St / G	5456230	6002 37 0		275	GRM 55 400 FT	4004,8/ St / FT	6815111	6001 42 8		271
GRB 90 115 FT	1503,9/ ST / FT	6027361	6002 31 1		275	GRM 55 400 G	4004,8/ St / G	6858736	6001 45 0		271
GRB 90 115 G	1503,9/ St / G	5456247	6002 37 2		275	GRM 55 400VA4301	4004,8/ V2A	6102198	6001 08 0		395
GRB 90 120 FT	2004,4/ ST / FT	6002115	6002 31 5		275	GRM 55 400VA4401	4004,8/ V4A	5166085	6001 09 5		440
GRB 90 120 G	2004,4/ St / G	5456254	6002 37 4		275	GRM 55 50 FT	503,9/ St / FT	5430940	6001 41 5		271
GRB 90 130 FT	3004,8/ ST / FT	6002177	6002 32 3		275	GRM 55 50 G	503,9/ St / G	5430957	6001 44 1		271
GRB 90 130 G	3004,8/ St / G	5456261	6002 37 6		275	GRM 55 500 F	5004,8/ ST / F	6324132	6001 05 6		271
GRB 90 140 FT	4004,8/ ST / FT	6002238	6002 33 1		275	GRM 55 500 FT	5004,8/ St / FT	6815173	6001 43 2		271
GRB 90 140 G	4004,8/ St / G	5456278	6002 37 8		275	GRM 55 500 G	5004,8/ St / G	6858798	6001 45 2		271
GRB 90 145 G	4504,8/ St / G	5456285	6002 38 0		275	GRM 55 500VA4301	5004,8/ V2A	6102259	6001 08 2		395
GRB 90 150 FT	5004,8/ ST / FT	6002290	6002 35 8		275	GRM 55 500VA4401	5004,8/ V4A	5166122	6001 09 7		440
GRB 90 150 G	5004,8/ St / G	5456292	6002 38 2		275	GRM 55 50VA4301	503,9/ V2A	5430933	6001 07 0		395
GRB 90 160 FT	6004,8/ ST / FT	6002351	6002 36 6		275	GRM 55 50VA4401	503,9/ V4A	5431046	6001 08 7		440
GRB 90 160 G	6004,8/ St / G	5456308	6002 38 4		275	GRM 55 600 F	6004,8/ ST / F	6324439	6001 05 9		271
GRB 90 510 FT	1003,9/ ST / FT	6001699	6002 21 8		273	GRM 55 600 FT	6004,8/ St / FT	6815234	6001 43 6		271
GRB 90 510 G	1003,9/ St / G	6352630	6001 92 0		273	GRM 55 600 G	6004,8/ St / G	6858859	6001 45 4		271
GRB 90 515 FT	1503,9/ ST / FT	6002748	6002 22 2		273	GRM 55 600VA4301	6004,8/ V2A	6102310	6001 08 5		395
GRB 90 515 G	1503,9/ St / G	6624799	6001 99 8		273	GRM 55 600VA4401	6004,8/ V4A	5166139	6001 09 9		440
GRB 90 520 FT	2003,9/ ST / FT	6001750	6002 22 6		273						
GRB 90 520 G	2003,9/ St / G	6352692	6001 93 9		273	GRM105 100VA4301	1003,9/ V2A	5149620	6002 45 1		396
GRB 90 530 FT	3004,4/ ST / FT	6001811	6002 23 4		273	GRM105 150VA4301	1503,9/ V2A	5422624	6002 45 5		396
GRB 90 530 G	3004,4/ St / G	6352753	6001 94 7		273	GRM105 200VA4301	2004,8/ V2A	5149637	6002 45 7		396
GRB 90 540 FT	4004,8/ ST / FT	6001873	6002 24 2		273	GRM105 300VA4301	3004,8/ V2A	5149644	6002 46 0		396
GRB 90 540 G	4004,8/ St / G	6352814	6001 95 5		273	GRM105 400VA4301	4004,8/ V2A	5149675	6002 46 3		396
GRB 90 550 FT	5004,8/ ST / FT	6001934	6002 25 0		273	GRM105 500VA4301	5004,8/ V2A	5149682	6002 46 6		3

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
GRM-2T 55 200 G	200/ st / G	5438649	6006 39 5	/m	272	IS 8 K 140 FT	1400/ ST / FT	6197057	6361 29 3	/pc.	188
GRM-2T 55 300	300/ st / G	5438656	6006 39 6		272	IS 8 K 150 FT	1500/ ST / FT	6197118	6361 31 5		188
GRM-2T 55 400 G	400/ st / G	5438663	6006 39 7		272	IS 8 K 160 FT	1600/ ST / FT	6197170	6361 33 1		188
GRM-T 55 100 G	10059,5/ ST / G	6150854	6006 45 3		272	IS 8 K 170 FT	1700/ ST / FT	6197231	6361 36 6		188
GRM-T 55 200 G	20059,5/ ST / G	6151219	6006 45 5		272	IS 8 K 180 FT	1800/ ST / FT	6197293	6361 38 2		188
GRM-T 55 300 G	300199,5/ ST / G	6151578	6006 45 6		272	IS 8 K 20 FT	200/ ST / FT	6196333	6361 02 1		188
GRM-T 55 400 G	400299,5/ ST / G	6151936	6006 45 7		272	IS 8 K 200 FT	2000/ ST / FT	6197415	6361 42 0		188
GRM-T 55 500 G	500399,5/ ST / G	6152292	6006 45 8		272	IS 8 K 30 FT	300/ ST / FT	6196395	6361 05 6		188
						IS 8 K 40 FT	400/ ST / FT	6196456	6361 07 2		188
						IS 8 K 50 FT	500/ ST / FT	6196517	6361 09 9		188
GRS 3.9 DD	/ ST / DD	6518111	6016 54 5	/pc.	276	IS 8 K 60 FT	600/ ST / FT	6196579	6361 11 0		188
GRS 4.4 DD	/ ST / DD	6518050	6016 55 3		276	IS 8 K 70 FT	700/ ST / FT	6196630	6361 13 7		188
GRS 4.8 DD	/ ST / DD	6517992	6016 56 1		276	IS 8 K 80 FT	800/ ST / FT	6196692	6361 15 3		188
						IS 8 K 90 FT	900/ ST / FT	6196753	6361 18 8		188
GRV 245 DD	245/ ST / DD	6054251	6016 68 4		276	IS 8 KS OR	Pastel orange/ PE	5668077	6338 51 9		188
GRV 245 FS	245/ ST / FS	6052578	6016 68 0		276	IS 8 KS OR	Pastel orange/ PE	5668077	6338 51 9		335
GRV 245 VA4404	245/ V4A	6054312	6016 68 8		398						
GRV 245 VA4404	245/ V4A	6054312	6016 68 8		442	K 12 1818 FS	/ ST / FS	6208876	6437 10 9		278
GSV 34 FT	/ ST / FT	6013159	6016 63 4		276	K 60 FT	6050/ ST / FT	6465972	6348 40 8		206
GSV 34 FT	/ ST / FT	6013159	6016 63 4		285						
GSV 34 G	/ St / G	6520510	6016 59 6		276	K 70 FT	7070/ ST / FT	6466092	6348 44 0		206
GSV 34 VA4301	/ V2A	6013210	6016 64 2		398						
GSV 34 VA4301	/ V2A	6013210	6016 64 2		402	K12 1818 VA4301	/ V2A	6013036	6016 42 1		278
GSV 34 VA4401	/ V4A	6120079	6016 64 8		442	K12 1818 VA4301	/ V2A	6013036	6016 42 1		400
GW 40 80 FT	2000/ ST / FT	6002955	6003 81 8	/m	281	KA-ASY FT	/ ST / FT	6346875	6346 82 0		177
						KA-ASY FT	/ ST / FT	6346875	6346 82 0		191
						KA-AW 30 FT	140/ ST / FT	6536832	6346 71 5		196
						KA-AW 80 FT	270/ ST / FT	6536894	6346 73 1		196
HGMH18 M10 G	10-10 / ST / G	5055150	1146 73 4	/100 pc.	207	KAB GR FS	/ St / FS	5677932	6220 13 9		280
HGMH18 M12 G	12-12 / ST / G	5055211	1146 74 2		207	KAB GR FT	/ St / FT	5807124	6220 14 2		280
HGMH18 M6 G	6-6 / ST / G	5055037	1146 71 8		207	KAB GR VA 1.4301	/ V2A	5807155	6220 14 5		401
HGMH18 M8 G	8-8 / ST / G	5055099	1146 72 6		207						
HGMH22 M10 G	10-10 / ST / G	5055334	1146 81 5		208	KA-E 45 FT	400/ ST / FT	6340156	6346 75 8		187
HGMH22 M12 G	12-12 / ST / G	5055396	1146 82 3		208	KA-E 45 FT	400/ ST / FT	6340156	6346 75 8		196
HGMH22 M8 G	8-8 / ST / G	5055273	1146 80 7		208	KA-EA FT	/ St / FT	5703938	6346 76 3		187
HMS-KS5X50	5 x 5050/ ST / G	5964100	3498 20 4		211	KA-SY FT	/ ST / FT	6346813	6346 80 4		176
						KA-SY FT	/ ST / FT	6346813	6346 80 4		190
HS M6 VA4567	M6/ V2A	5463399	1154 99 0		277						
HS M6 VA4567	M6/ V2A	5463399	1154 99 0		285	KI 8 AOX FT	/ ST / FT	6190638	6347 08 8		190
HS M6 VA4567	M6/ V2A	5463399	1154 99 0		399	KI 8 FT	/ ST / FT	6190515	6347 05 3		189
						KI 8 NOK FT	/ ST / FT	6190577	6347 06 1		189
						KI 8 VLK FT	/ ST / FT	6190997	6348 15 7		190
						KI 8 VLP FT	/ ST / FT	6190874	6347 84 3		190
						KI 8 VQP FT	/ ST / FT	6190935	6348 10 6		190
IKSM 610 FS	1001/ st / FS	5834403	6059 91 0		228						
IKSM 610 FT	1001/ st / FT	5834472	6059 92 7		228						
IKSM 615 FS	1501/ st / FS	5834410	6059 91 2		228						
IKSM 615 FT	1501/ st / FT	5834489	6059 92 9		228	KL 20 FT	20/ ST / FT	6003013	6003 85 0		281
IKSM 620 FS	2001/ st / FS	5834427	6059 91 4		228						
IKSM 620 FT	2001/ st / FT	5834526	6059 93 1		228	KL 30 FT	30/ ST / FT	6003075	6003 86 9		281
IKSM 630 FS	3001/ st / FS	5834434	6059 91 6		228						
IKSM 630 FT	3001/ st / FT	5834533	6059 93 3		228	KL1 10 S FT	10 M10 x 40/ ST / FT	6194292	6354 10 6		194
IKSM 640 FS	4001/ st / FS	5834441	6059 91 8		228	KL1 15 S FT	15 M10 x 50/ ST / FT	6194353	6354 11 4		194
IKSM 640 FT	4001/ st / FT	5834540	6059 93 5		228	KL1 20 S FT	20 M10 x 50/ ST / FT	6194414	6354 12 2		194
IKSM 650 FS	5001/ st / FS	5834458	6059 92 0		228						
IKSM 650 FT	5001/ st / FT	5834588	6059 93 7		228						
IKSM 660 FS	6001/ st / FS	5834465	6059 92 2		228	KL1M RST20i3 BL	1000/ PA	5892366	6069 84 0		349
IKSM 660 FT	6001/ st / FT	5834595	6059 93 9		228						
						KL2M RST20i3 BL	2000/ PA	5892373	6069 84 2		349
						KL3M RST20i3 BL	3000/ PA	5892380	6069 84 4		349
IS 8 100 FT	1000/ ST / FT	6183197	6337 11 2	/pc.	189						
IS 8 110 FT	1100/ ST / FT	6183258	6337 12 0		189						
IS 8 120 FT	1200/ ST / FT	5804550	6337 13 9		189	KL4M RST20i3 BL	4000/ PA	5892397	6069 84 6		349
IS 8 130 FT	1300/ ST / FT	5805038	6337 14 7		189						
IS 8 140 FT	1400/ ST / FT	5934936	6337 15 5		189	KL5M RST20i3 BL	5000/ PA	5892403	6069 84 8		349
IS 8 150 FT	1500/ ST / FT	6183494	6337 16 3		189						
IS 8 160 FT	1600/ ST / FT	5934752	6337 17 1		189	KL6M RST20i3 BL	6000/ PA	5892410	6069 85 0		349
IS 8 170 FT	1700/ ST / FT	6183616	6337 19 8		189						
IS 8 180 FT	1800/ ST / FT	5934875	6337 20 1		189	KL7M RST20i3 BL	7000/ PA	5892427	6069 85 2		349
IS 8 190 FT	1900/ ST / FT	5934219	6337 22 8		189						
IS 8 200 FT	2000/ ST / FT	6183791	6337 23 6		189	KL8M RST20i3 BL	8000/ PA	5892434	6069 85 4		349
IS 8 30 FT	300/ ST / FT	6182770	6337 03 1		189						
IS 8 300 FT	3000/ ST / FT	6183852	6337 24 4		189						
IS 8 40 FT	400/ ST / FT	6182831	6337 05 8		189	KLL 32 FT	/ St / FT	5849841	6221 06 1		303
IS 8 50 FT	500/ ST / FT	6182893	6337 06 6		189	KLL 32 VA4301	/ V2A	5849872	6221 06 3		406
IS 8 60 FT	600/ ST / FT	6182954	6337 07 4		189	KLL 52 FT	/ St / FT	5849889	6221 07 1		303
IS 8 600 FT	6000/ ST / FT	6183913	6337 25 2		189	KLL 52 VA4301	/ V2A	5849896	6221 07 3		406
IS 8 70 FT	700/ ST / FT	6183012	6337 08 2		189						
IS 8 80 FT	800/ ST / FT	6183074	6337 09 0		189	KM M10 VA4401	10/ V4A	5910985	6408 93 0		430
IS 8 90 FT	900/ ST / FT	6183135	6337 10 4		189	KM M12 VA4401	12/ V4A	5911043	6408 94 0		430
IS 8 K 100 FT	1000/ ST / FT	6196814	6361 21 8		188						
IS 8 K 110 FT	1100/ ST / FT	6196876	6361 23 4		188	KM M6 F	66/ ST / F	6078493	6408 96 2	/100 pc.	206
IS 8 K 120 FT	1200/ ST / FT	6196937	6361 25 0		188	KM M6 G	66/ ST / G	6623952	6408 95 8		206
IS 8 K 130 FT	1300/ ST / FT	6196999	6361 27 7		188						

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Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/100 pc.						/pc.	
KM M6 VA4301	66/ V2A	6078554	6408 96 6		277	KSR-DR 920 PE	Light grey 32 x 90/ PE	6346639	6087 96 5		229
KM M6 VA4301	66/ V2A	6078554	6408 96 6		286						
KM M6 VA4301	66/ V2A	6078554	6408 96 6		383	KTSMV 110 DD	110100/ St / DD	5890249	6069 11 2		247
KM M6 VA4301	66/ V2A	6078554	6408 96 6		399	KTSMV 110 DD	110100/ St / DD	5890249	6069 11 2		264
KM M6 VA4401	66/ V4A	6078615	6408 97 0		430	KTSMV 110 FS	110100/ St / FS	5890157	6069 09 0		247
KM M8 VA4401	8/ V4A	5910961	6408 92 0		430	KTSMV 115 DD	110150/ St / DD	5890256	6069 11 4		247
				/100 pc.							
KNG G	4/ ST / G	6936199	6050 37 5		357	KTSMV 115 DD	110150/ St / DD	5890256	6069 11 4		264
				/pc.							
KS 23 35 FT	/ ST / FT	6012312	6015 17 4		286	KTSMV 115 FS	110150/ St / FS	5890164	6069 09 2		247
KS 23 35 VA4301	/ V2A	6013098	6016 52 9		403	KTSMV 120 DD	110200/ St / DD	5890263	6069 11 6		247
						KTSMV 120 DD	110200/ St / DD	5890263	6069 11 6		264
						KTSMV 120 FS	110200/ St / FS	5890195	6069 09 4		247
KS GR LBL	Light blue/ PA	5903468	6017 71 4		280	KTSMV 130 DD	110300/ St / DD	5890270	6069 11 8		247
KS GR LBL	Light blue/ PA	5903468	6017 71 4		286	KTSMV 130 DD	110300/ St / DD	5890270	6069 11 8		264
KS GR LBL	Light blue/ PA	5903468	6017 71 4		403	KTSMV 130 FS	110300/ St / FS	5890201	6069 09 6		247
KS GR LBL	Light blue/ PA	5903468	6017 71 4		443	KTSMV 140 DD	110400/ St / DD	5890287	6069 12 0		247
KS GR LGR	Light grey/ PA	5848264	6017 71 0		280	KTSMV 140 DD	110400/ St / DD	5890287	6069 12 0		264
KS GR LGR	Light grey/ PA	5848264	6017 71 0		286	KTSMV 140 FS	110400/ St / FS	5890218	6069 09 8		247
KS GR LGR	Light grey/ PA	5848264	6017 71 0		403	KTSMV 150 DD	110500/ St / DD	5890294	6069 12 2		247
KS GR LGR	Light grey/ PA	5848264	6017 71 0		403	KTSMV 150 DD	110500/ St / DD	5890294	6069 12 2		264
KS GR LGR	Light grey/ PA	5848264	6017 71 0		286	KTSMV 150 FS	110500/ St / FS	5890225	6069 10 0		247
KS GR OR	Pastel orange/ PA	5848288	6017 71 2		280	KTSMV 160 DD	110600/ St / DD	5890300	6069 12 4		247
KS GR OR	Pastel orange/ PA	5848288	6017 71 2		286	KTSMV 160 DD	110600/ St / DD	5890300	6069 12 4		264
KS GR OR	Pastel orange/ PA	5848288	6017 71 2		403	KTSMV 160 FS	110600/ St / FS	5890232	6069 10 2		247
KS GR OR	Pastel orange/ PA	5848288	6017 71 2		443	KTSMV 310 FS	35100/ St / FS	5889441	6068 90 0		219
KS GR OR	Pastel orange/ PA	5848288	6017 71 2		403	KTSMV 320 FS	35200/ St / FS	5889489	6068 90 2		219
KS GR OR	Pastel orange/ PA	5848288	6017 71 2		443	KTSMV 330 FS	35300/ St / FS	5889496	6068 90 4		219
KS GR SGN	Signal green/ PA	5903475	6017 71 5		280	KTSMV 610 DD	60100/ St / DD	5890492	6068 93 6		229
KS GR SGN	Signal green/ PA	5903475	6017 71 5		286	KTSMV 610 DD	60100/ St / DD	5890492	6068 93 6		264
KS GR SGN	Signal green/ PA	5903475	6017 71 5		403	KTSMV 610 FS	60100/ St / FS	5889502	6068 91 4		229
KS GR SGN	Signal green/ PA	5903475	6017 71 5		443	KTSMV 610 VA4301	60100/ V2A	5889571	6068 95 8		389
				/100 pc.							
KS GR VA4310	/ V2A	5694625	6062 28 2		270	KTSMV 610 VA4571	60100/ V4A	5889649	6068 98 0		435
KS GR VA4310	/ V2A	5694625	6062 28 2		273	KTSMV 615 DD	60150/ St / DD	5890508	6068 93 8		229
KS GR VA4310	/ V2A	5694625	6062 28 2		275	KTSMV 615 DD	60150/ St / DD	5890508	6068 93 8		264
KS GR VA4310	/ V2A	5694625	6062 28 2		284	KTSMV 615 FS	60150/ St / FS	5889519	6068 91 6		229
KS GR VA4310	/ V2A	5694625	6062 28 2		398	KTSMV 615 VA4301	60150/ V2A	5889588	6068 96 0		389
KS GR VA4310	/ V2A	5694625	6062 28 2		442	KTSMV 615 VA4571	60150/ V4A	5889656	6068 98 2		435
				/pc.							
KS GR VKG	Traffic grey B/ PA	5848271	6017 71 1		280	KTSMV 620 DD	60200/ St / DD	5890515	6068 94 0		229
KS GR VKG	Traffic grey B/ PA	5848271	6017 71 1		286	KTSMV 620 DD	60200/ St / DD	5890515	6068 94 0		264
KS GR VKG	Traffic grey B/ PA	5848271	6017 71 1		403	KTSMV 620 FS	60200/ St / FS	5889526	6068 91 8		229
KS GR VKG	Traffic grey B/ PA	5848271	6017 71 1		443	KTSMV 620 VA4301	60200/ V2A	5889595	6068 96 2		389
KS GR ZGB	Zinc yellow/ PA	5848295	6017 71 3		280	KTSMV 620 VA4571	60200/ V4A	5889663	6068 98 4		435
KS GR ZGB	Zinc yellow/ PA	5848295	6017 71 3		286	KTSMV 630 DD	60300/ St / DD	5890522	6068 94 2		229
KS GR ZGB	Zinc yellow/ PA	5848295	6017 71 3		286	KTSMV 630 DD	60300/ St / DD	5890522	6068 94 2		264
KS GR ZGB	Zinc yellow/ PA	5848295	6017 71 3		403	KTSMV 630 FS	60300/ St / FS	5889533	6068 92 0		229
KS GR ZGB	Zinc yellow/ PA	5848295	6017 71 3		443	KTSMV 630 VA4301	60300/ V2A	5889601	6068 96 4		389
				/100 pc.							
KS KL VA4310	/ V2A	5694656	6062 28 4		292	KTSMV 630 VA4571	60300/ V4A	5889670	6068 98 6		435
KS KL VA4310	/ V2A	5694656	6062 28 4		300	KTSMV 640 DD	60400/ St / DD	5890560	6068 94 4		229
KS KL VA4310	/ V2A	5694656	6062 28 4		315	KTSMV 640 DD	60400/ St / DD	5890560	6068 94 4		264
KS KL VA4310	/ V2A	5694656	6062 28 4		318	KTSMV 640 FS	60400/ St / FS	5890560	6068 94 4		229
KS KL VA4310	/ V2A	5694656	6062 28 4		323	KTSMV 640 FS	60400/ St / FS	5890560	6068 94 4		264
KS KL VA4310	/ V2A	5694656	6062 28 4		405	KTSMV 640 FS	60400/ St / FS	5890560	6068 94 4		229
KS KL VA4310	/ V2A	5694656	6062 28 4		408	KTSMV 640 VA4301	60400/ V2A	5889625	6068 96 8		389
KS KL VA4310	/ V2A	5694656	6062 28 4		412	KTSMV 640 VA4571	60400/ V4A	5889717	6068 99 0		435
KS KL VA4310	/ V2A	5694656	6062 28 4		445	KTSMV 650 DD	60500/ St / DD	5890577	6068 94 6		229
KS KR VA4310	/ V2A	5694618	6062 28 0		218	KTSMV 650 DD	60500/ St / DD	5890577	6068 94 6		264
KS KR VA4310	/ V2A	5694618	6062 28 0		223	KTSMV 650 FS	60500/ St / FS	5889557	6068 92 4		229
KS KR VA4310	/ V2A	5694618	6062 28 0		387	KTSMV 650 FS	60500/ St / FS	5889557	6068 92 4		264
KS KR VA4310	/ V2A	5694618	6062 28 0		433	KTSMV 650 VA4301	60500/ V2A	5889632	6068 97 0		389
				/100 m							
KSB 2 PVC	1-2 10/ PVC	6295395	6072 90 9		213	KTSMV 650 VA4571	60500/ V4A	5889724	6068 99 2		435
KSB 2 PVC	1-2 10/ PVC	6295395	6072 90 9		253	KTSMV 810 DD	85100/ St / DD	5889847	6069 02 4		239
KSB 4 PVC	1-4 15/ PVC	6295579	6072 89 5		253	KTSMV 810 FS	85100/ St / FS	5889731	6069 00 2		239
KSB 4 PVC	1-4 15/ PVC	6295579	6072 89 5		213	KTSMV 815 DD	85150/ St / DD	5889854	6069 02 6		239
				/pc.							
KSR-910 PE	Light grey 20 x 58/ PE	6065172	6066 71 2		229	KTSMV 815 FS	85150/ St / FS	5889748	6069 00 4		239
KSR-910 PE	Light grey 20 x 58/ PE	6065172	6066 71 2		353	KTSMV 820 DD	85200/ St / DD	5889861	6069 02 8		239
KSR-910 PE	Light grey 20 x 58/ PE	6065172	6066 71 2		363	KTSMV 820 FS	85200/ St / FS	5889793	6069 00 6		239
KSR-910 PE	Light grey 20 x 58/ PE	6065172	6066 71 2		388	KTSMV 830 DD	85300/ St / DD	5889908	6069 03 0		239
KSR-910 PE	Light grey 20 x 58/ PE	6065172	6066 71 2		418	KTSMV 830 FS	85300/ St / FS	5889809	6069 00 8		239
KSR-910 PE	Light grey 20 x 58/ PE	6065172	6066 71 2		434	KTSMV 840 DD	85400/ St / DD	5889915	6069 03 2		239
KSR-910 PE	Light grey 20 x 58/ PE	6065172	6066 71 2		449	KTSMV 840 FS	85400/ St / FS	5889816	6069 01 0		239
KSR-915 PE	Light grey 28 x 58/ PE	6065110	6066 70 4		353	KTSMV 850 DD	85500/ St / DD	5889922	6069 03 4		239
KSR-915 PE	Light grey 28 x 58/ PE	6065110	6066 70 4		363	KTSMV 850 FS	85500/ St / FS	5889823	6069 01 2		239
KSR-915 PE	Light grey 28 x 58/ PE	6065110	6066 70 4		449	KTSMV 860 DD	85600/ St / DD	5889960	6069 03 6		239
KSR-920 PE	Light grey/ PE	5811114	6066 69 6		363	KTSMV 860 FS	85600/ St / FS	5889830	6069 01 4		239
KSR-920 PE	Light grey/ PE	5811114	6066 69 6		418						
KSR-920 PE	Light grey/ PE	5811114	6066 69 6		449	KU 3 FT	/ St / FT	6340217	6348 87 4		169
KSR-925 PE	Light grey/ PE	5811084	6066 68 8		363	KU 3 V FS	/ St / FS	5354826	6348 88 1		170
KSR-925 PE	Light grey/ PE	5811084	6066 68 8		418	KU 3 V FT	/ St / FT	5354833	6348 88 3		170
KSR-925 PE	Light grey/ PE	5811084	6066 68 8		449	KU 3 V VA4301	/ V2A	5706038	6348 88 4		374
KSR-925 PE	Light grey/ PE	5811084	6066 68 8		418	KU 3 V VA4571	/ V4A	5395393	6348 88 5		425
KSR-925 PE	Light grey/ PE	5811084	6066 68 8		449	KU 3 VA4301	/ V2A	5706014	6348 87 6		374
KSR-925 PE	Light grey/ PE	5811084	6066 68 8		363	KU 3 VA4571	/ V4A	5706021	6348 87 7		425
				/100 pc.							
KSR-925 PE	Light grey/ PE	5811084	6066 68 8		449	KU 5 V FT	/ St / FT	6901456	6348 92 0		



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				/pc.						/pc.	
KU 5 V VA4301	/ V2A	5018360	6348 92 5		376	LBI 90 420 NS FS	200/ ST / FS	6126378	6203 02 7		293
KU 5 V VA4571	/ V4A	5018452	6348 92 7		427	LBI 90 420 NS FT	200/ ST / FT	6126736	6203 12 4		293
						LBI 90 430 NS FS	300/ ST / FS	6126439	6203 03 5		293
KU 7 AOX FT	/ ST / FT	6191598	6349 21 8		176	LBI 90 430 NS FT	300/ ST / FT	6126798	6203 13 2		293
KU 7 FT	/ St / FT	6191413	6349 10 2		175	LBI 90 440 NS FS	400/ ST / FS	6126491	6203 04 3		293
KU 7 NOX FT	/ ST / FT	6191352	6349 05 6		176	LBI 90 440 NS FT	400/ ST / FT	6126859	6203 14 0		293
KU 7 VQP FT	/ St / FT	6191475	6349 15 3		176	LBI 90 450 NS FS	500/ ST / FS	6126552	6203 05 1		293
KU 7 VQP VA4301	/ V2A	6191536	6349 19 6		378	LBI 90 450 NS FT	500/ ST / FT	6126910	6203 15 9		293
						LBI 90 460 NS FS	600/ ST / FS	6126613	6203 07 8		293
KUS 5 FT	/ St / FT	6168910	6348 90 4		172	LBI 90 460 NS FT	600/ ST / FT	6126972	6203 16 7		293
KUS 5 NOK FT	/ ST / FT	6437771	6348 93 9		172	LBI 90 620 NS FS	200/ ST / FS	6142996	6211 03 8		296
KUS 5 NOK VA4301	/ V2A	6437832	6348 94 7		376	LBI 90 620 NS FT	200/ ST / FT	6143351	6211 12 7		296
KUS 7 VA4301	/ V2A	6191659	6349 27 7		378	LBI 90 620 VS FS	200/ St / FS	6143719	6211 22 4		297
						LBI 90 620 VS FT	200/ ST / FT	6144075	6211 32 1		297
				/pair		LBI 90 620 VS VA	200/ V2A	6259991	7160 04 6		405
KWH 10 FT	10/ ST / FT	6194537	6355 04 8		194	LBI 90 630 NS FS	300/ ST / FS	6143054	6211 04 6		296
KWH 10 VA4301	10/ V2A	6195138	6355 31 5		381	LBI 90 630 NS FT	300/ ST / FT	6143412	6211 13 5		296
KWH 15 FT	15/ ST / FT	6194599	6355 05 6		194	LBI 90 630 VS FS	300/ St / FS	6143771	6211 23 2		297
KWH 15 VA4301	15/ V2A	6195190	6355 32 3		381	LBI 90 630 VS FT	300/ ST / FT	6144136	6211 34 8		297
KWH 20 FT	20/ ST / FT	6194650	6355 06 4		194	LBI 90 630 VS VA	300/ V2A	6260058	7160 05 4		405
KWH 20 VA4301	20/ V2A	6195251	6355 33 1		381	LBI 90 640 NS FS	400/ ST / FS	6143115	6211 05 4		296
KWH 25 FT	25/ ST / FT	6194711	6355 07 2		194	LBI 90 640 NS FT	400/ ST / FT	6143474	6211 14 3		296
KWH 25 VA4301	25/ V2A	6195312	6355 35 8		381	LBI 90 640 VS FS	400/ St / FS	6143832	6211 24 0		297
KWH 5 FT	5/ ST / FT	6194476	6355 02 1		194	LBI 90 640 VS FT	400/ ST / FT	6144198	6211 35 6		297
KWH 5 VA4301	5/ V2A	6195077	6355 30 7		381	LBI 90 640 VS VA	400/ V2A	6260119	7160 06 2		405
						LBI 90 650 NS FS	500/ ST / FS	6143177	6211 06 2		296
KWS 10 FT	10/ ST / FT	6194834	6355 22 6		195	LBI 90 650 NS FT	500/ ST / FT	6143535	6211 15 1		296
KWS 10 VA4301	10/ V2A	6195435	6355 41 2		381	LBI 90 650 VS FS	500/ St / FS	6143894	6211 25 9		297
KWS 15 FT	15/ ST / FT	6194896	6355 23 4		195	LBI 90 650 VS FT	500/ ST / FT	6144259	6211 36 4		297
KWS 15 VA4301	15/ V2A	6195497	6355 42 0		381	LBI 90 650 VS VA	500/ V2A	6260171	7160 08 9		405
KWS 20 FT	20/ ST / FT	6194957	6355 24 2		195	LBI 90 660 NS FS	600/ ST / FS	6143238	6211 07 0		296
KWS 20 VA4301	20/ V2A	6195558	6355 43 9		381	LBI 90 660 NS FT	600/ ST / FT	6143597	6211 17 8		296
KWS 25 FT	25/ ST / FT	6195015	6355 25 0		195	LBI 90 660 VS FS	600/ St / FS	6143955	6211 26 7		297
KWS 25 VA4301	25/ V2A	6195619	6355 44 7		381	LBI 90 660 VS FT	600/ ST / FT	6144310	6211 37 2		297
KWS 5 FT	5/ ST / FT	6194773	6355 21 8		195	LBI 90 660 VS VA	600/ V2A	6260232	7160 09 7		405
KWS 5 VA4301	5/ V2A	6195374	6355 40 4		381						
				/pc.		LEB 25 DD	250/ Steel / DD	6089116	6221 21 6		303
LAB 20 FT	200/ St / FT	6163397	6220 43 6		303	LEB 25 FS	250/ ST / FS	6164714	6221 20 3		303
LAB 20 VA4301	200/ V2A	6261796	7164 01 7		406	LEB 50 DD	500/ Steel / DD	6089239	6221 25 9		303
LAB 30 FT	300/ St / FT	6163458	6220 44 4		303	LEB 50 FS	500/ ST / FS	6164837	6221 24 6		303
LAB 30 VA4301	300/ V2A	6261857	7164 02 5		406						
LAB 40 FT	400/ St / FT	6163519	6220 45 2		303	LED M 8NS	460 x 85 x 100/ PP	5848820	6069 81 5		348
LAB 40 VA4301	400/ V2A	6261918	7164 03 3		406						
LAB 50 FT	500/ St / FT	6163571	6220 46 0		303						
LAB 50 VA4301	500/ V2A	6261970	7164 04 1		406					/m	
LAB 60 FT	600/ St / FT	6163632	6220 47 9		303	LG 112 3000 FS	200 1,5/ Steel / FS	5064480	6216 40 4		299
LAB 60 VA4301	600/ V2A	6262038	7164 06 8		406	LG 112 3000 FT	200 1,5/ Steel / FT	5065210	6216 42 3		299
						LG 112 6000 FS	200 1,5/ ST / FS	5065289	6216 44 2		299
LAL 70 FS	/ ST / FS	6164417	6221 00 9		302	LG 112 6000 FT	200 1,5/ Steel / FT	5065371	6216 46 5		299
LAL 70 VA4301	/ V2A	6164479	6221 01 7		302	LG 113 3000 FS	300 1,5/ Steel / FS	5064497	6216 40 7		299
LAL 70 VA4301	/ V2A	6164479	6221 01 7		406	LG 113 3000 FT	300 1,5/ Steel / FT	5065227	6216 42 6		299
						LG 113 6000 FS	300 1,5/ ST / FS	5065319	6216 44 5		299
LALB 20 FT	200/ St / FT	6166152	6221 85 8		303	LG 113 6000 FT	300 1,5/ Steel / FT	5065388	6216 46 8		299
LALB 30 FT	300/ St / FT	6166213	6221 86 6		303	LG 114 3000 FS	400 1,5/ Steel / FS	5064503	6216 41 0		299
LALB 40 FT	400/ St / FT	6166275	6221 87 4		303	LG 114 3000 FT	400 1,5/ Steel / FT	5065258	6216 42 9		299
LALB 50 FT	500/ St / FT	6166336	6221 88 2		303	LG 114 6000 FS	400 1,5/ ST / FS	5065326	6216 44 8		299
LALB 60 FT	600/ St / FT	6166398	6221 89 0		303	LG 114 6000 FT	400 1,5/ Steel / FT	5065395	6216 47 1		299
						LG 115 3000 FS	500 1,5/ Steel / FS	5064534	6216 41 3		299
LAM 620 FS	60200/ St / FS	5848592	6069 64 5		352	LG 115 3000 FT	500 1,5/ Steel / FT	5065265	6216 43 2		299
LAM 620 VA4301	60200/ V2A	5848608	6069 65 2		352	LG 115 6000 FS	500 1,5/ ST / FS	5065333	6216 45 1		299
LAM 630 FS	60300/ St / FS	5848615	6069 65 9		352	LG 115 6000 FT	500 1,5/ Steel / FT	5065401	6216 47 4		299
LAM 630 VA4301	60300/ V2A	5848622	6069 66 6		352	LG 116 3000 FS	600 1,5/ Steel / FS	5065203	6216 41 6		299
LAM 640 FS	60400/ St / FS	5848639	6069 67 3		352	LG 116 3000 FT	600 1,5/ Steel / FT	5065272	6216 43 5		299
LAM 640 VA4301	60400/ V2A	5848646	6069 68 0		352	LG 116 6000 FS	600 1,5/ ST / FS	5065340	6216 45 4		299
						LG 116 6000 FT	600 1,5/ Steel / FT	5065432	6216 47 7		299
LAS 110 FS	/ ST / FS	6165254	6221 41 6		300						
LAS 110 FT	/ ST / FT	6165315	6221 42 4		300	LG 420 NS 3000FS	200 1,25/ Steel / FS	5063483	6200 50 8		290
LAS 45 FS	/ ST / FS	6164950	6221 30 0		292	LG 420 NS 6000FS	200 1,25/ Steel / FS	5063643	6200 58 3		290
LAS 45 FT	/ ST / FT	6165018	6221 31 9		292	LG 420 NS 6000FT	200 1,25/ Steel / FT	5063711	6200 60 5		290
LAS 60 FS	/ ST / FS	6165070	6221 35 1		296	LG 430 NS 3000FS	300 1,25/ Steel / FS	5063513	6200 51 1		290
LAS 60 FT	/ ST / FT	6165131	6221 37 8		296	LG 430 NS 6000FS	300 1,25/ Steel / FS	5063650	6200 58 6		290
LAS 60 VA4301	/ V2A	6165193	6221 38 6		405	LG 430 NS 6000FT	300 1,25/ Steel / FT	5063728	6200 60 8		290
						LG 440 NS 3000FS	400 1,25/ Steel / FS	5063520	6200 51 4		290
LAW FT	/ ST / FT	6165438	6221 51 3		303	LG 440 NS 6000FS	400 1,25/ Steel / FS	5063667	6200 58 9		290
						LG 440 NS 6000FT	400 1,25/ Steel / FT	5063759	6200 61 1		290
LBI 90 112 VS FS	200/ ST / FS	6157273	6217 62 1		301	LG 450 NS 3000FS	500 1,25/ Steel / FS	5063537	6200 51 7		290
LBI 90 112 VS FT	200/ ST / FT	6157631	6217 72 9		301	LG 450 NS 6000FS	500 1,25/ Steel / FS	5063698	6200 59 2		290
LBI 90 113 VS FS	300/ ST / FS	6157334	6217 64 8		301	LG 450 NS 6000FT	500 1,25/ Steel / FT	5063766	6200 61 4		290
LBI 90 113 VS FT	300/ ST / FT	6157693	6217 73 7		301	LG 460 NS 3000FS	600 1,25/ Steel / FS	5063544	6200 52 0		290
LBI 90 114 VS FS	400/ ST / FS	6157396	6217 65 6		301	LG 460 NS 6000FS	600 1,25/ Steel / FS	5063704	6200 59 5		290
LBI 90 114 VS FT	400/ ST / FT	6157754	6217 74 5		301	LG 460 NS 6000FT	600 1,25/ Steel / FT	5063773	6200 61 7		290
LBI 90 115 VS FS	500/ ST / FS	6157457	6217 66 4		301						
LBI 90 115 VS FT	500/ ST / FT	6157815	6217 75 3		301	LG 620 NS 3000FS	200 1,5/ Steel / FS	5063957	6208 50 6		294
LBI 90 116 VS FS	600/ ST / FS	6157518	6217 67 2		301	LG 620 NS 6000FS	200 1,5/ Steel / FS	5064114	6208 58 1		294
LBI 90 116 VS FT	600/ ST / FT	6157877	6217 76 1		301	LG 620 NS 6000FT	200 1,5/ Steel / FT	5064183	6208 60 3		294

# Type listing

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				/m						/pc.	
LG 620 VS 3000FS	200 1,5/ Steel / FS	5064022	6208 53 8		295	LGBV 450 NS FT	500/ ST / FT	6132676	6205 15 1		293
LG 620 VS 3000FS	200 1,5/ Steel / FS	5064022	6208 53 8		328	LGBV 460 NS FS	600/ ST / FS	6132379	6205 07 0		293
LG 620 VS 3000FT	200 1,5/ St / FT	5434153	6208 56 2		295	LGBV 460 NS FT	600/ ST / FT	6132737	6205 17 8		293
LG 620 VS 3000FT	200 1,5/ St / FT	5434153	6208 56 2		328	LGBV 620 NS FS	200/ ST / FS	6148752	6213 02 2		298
LG 620 VS 6000FS	200 1,5/ St / FS	5064251	6208 62 7		295	LGBV 620 NS FT	200/ ST / FT	6149117	6213 13 8		298
LG 620 VS 6000FS	200 1,5/ St / FS	5064251	6208 62 7		329	LGBV 620 VS FS	200/ ST / FS	6149476	6213 22 7		298
LG 620 VS 6000FT	200 1,5/ ST / FT	5064329	6208 65 0		295	LGBV 620 VS FT	200/ ST / FT	6149834	6213 32 4		298
LG 620 VS 6000FT	200 1,5/ ST / FT	5064329	6208 65 0		329	LGBV 630 NS FS	300/ ST / FS	6148813	6213 03 0		298
LG 620 VS VA4301	200 1,5/ V2A	5064411	6208 70 0		404	LGBV 630 NS FT	300/ ST / FT	6149179	6213 14 6		298
LG 620 VS VA4301	200 1,5/ V2A	5064411	6208 70 0		414	LGBV 630 VS FS	300/ ST / FS	6149537	6213 23 5		298
LG 620 VS VA4571	200 1,5/ V4A	6159314	6101 20 0		444	LGBV 630 VS FT	300/ ST / FT	6149896	6213 33 2		298
LG 630 NS 3000FS	300 1,5/ Steel / FS	5063964	6208 50 9		294	LGBV 640 NS FS	400/ ST / FS	6148875	6213 04 9		298
LG 630 NS 6000FS	300 1,5/ Steel / FS	5064121	6208 58 4		294	LGBV 640 NS FT	400/ ST / FT	6149230	6213 15 4		298
LG 630 NS 6000FT	300 1,5/ Steel / FT	5064190	6208 60 6		294	LGBV 640 VS FS	400/ ST / FS	6149599	6213 24 3		298
LG 630 VS 3000FS	300 1,5/ Steel / FS	5064053	6208 54 1		295	LGBV 640 VS FT	400/ ST / FT	6149957	6213 34 0		298
LG 630 VS 3000FS	300 1,5/ Steel / FS	5064053	6208 54 1		328	LGBV 650 NS FS	500/ ST / FS	6148936	6213 05 7		298
LG 630 VS 3000FT	300 1,5/ St / FT	5434160	6208 56 6		295	LGBV 650 NS FT	500/ ST / FT	6149292	6213 16 2		298
LG 630 VS 3000FT	300 1,5/ St / FT	5434160	6208 56 6		328	LGBV 650 VS FS	500/ ST / FS	6149650	6213 25 1		298
LG 630 VS 6000FS	300 1,5/ St / FS	5064268	6208 63 0		295	LGBV 650 VS FT	500/ ST / FT	6150014	6213 35 9		298
LG 630 VS 6000FS	300 1,5/ St / FS	5064268	6208 63 0		329	LGBV 660 NS FS	600/ ST / FS	6148998	6213 06 5		298
LG 630 VS 6000FT	300 1,5/ ST / FT	5064350	6208 65 3		295	LGBV 660 NS FT	600/ ST / FT	6149353	6213 17 0		298
LG 630 VS 6000FT	300 1,5/ ST / FT	5064350	6208 65 3		329	LGBV 660 VS FS	600/ ST / FS	6149711	6213 27 8		298
LG 630 VS VA4301	300 1,5/ V2A	5064428	6208 70 3		404	LGBV 660 VS FT	600/ ST / FT	6150076	6213 36 7		298
LG 630 VS VA4301	300 1,5/ V2A	5064428	6208 70 3		414						
LG 630 VS VA4571	300 1,5/ V4A	6514038	6101 20 8		444	LGVG 110 FS	110/ Steel / FS	5065739	6216 65 0		300
LG 640 NS 3000FS	400 1,5/ Steel / FS	5063995	6208 51 2		294	LGVG 110 FT	110/ Steel / FT	5065746	6216 65 3		300
LG 640 NS 6000FS	400 1,5/ Steel / FS	5064138	6208 58 7		294	LGVG 45 FS	45/ Steel / FS	5065517	6200 92 6		292
LG 640 NS 6000FT	400 1,5/ Steel / FT	5064206	6208 60 9		294	LGVG 45 FT	45/ Steel / FT	5065524	6200 92 9		292
LG 640 VS 3000FS	400 1,5/ Steel / FS	5064060	6208 54 4		295	LGVG 60 FS	60/ Steel / FS	5065623	6208 94 1		296
LG 640 VS 3000FS	400 1,5/ Steel / FS	5064060	6208 54 4		328	LGVG 60 FS	60/ Steel / FS	5065623	6208 94 1		331
LG 640 VS 3000FT	400 1,5/ St / FT	5434207	6208 57 0		295	LGVG 60 FT	60/ ST / FT	5065630	6208 94 4		296
LG 640 VS 3000FT	400 1,5/ St / FT	5434207	6208 57 0		328	LGVG 60 FT	60/ ST / FT	5065630	6208 94 4		331
LG 640 VS 6000FS	400 1,5/ St / FS	5064299	6208 63 3		295	LGVG 60 VA4301	60/ V2A	5065647	6208 94 7		405
LG 640 VS 6000FS	400 1,5/ St / FS	5064299	6208 63 3		329	LGVG 60 VA4301	60/ V2A	5065647	6208 94 7		415
LG 640 VS 6000FT	400 1,5/ ST / FT	5064367	6208 65 6		295	LGVG 60 VA4571	60/ V4A	5046370	6208 93 2		445
LG 640 VS 6000FT	400 1,5/ ST / FT	5064367	6208 65 6		329						
LG 640 VS VA4301	400 1,5/ V2A	5064435	6208 70 6		404	LK 112 VS FS	200/ ST / FS	6161591	6219 52 7		301
LG 640 VS VA4301	400 1,5/ V2A	5064435	6208 70 6		414	LK 112 VS FT	200/ ST / FT	6161959	6219 62 4		301
LG 640 VS VA4571	400 1,5/ V4A	5022114	6101 21 6		444	LK 113 VS FS	300/ ST / FS	6161652	6219 53 5		301
LG 650 NS 3000FS	500 1,5/ Steel / FS	5064008	6208 51 5		294	LK 113 VS FT	300/ ST / FT	6162017	6219 63 2		301
LG 650 NS 6000FS	500 1,5/ Steel / FS	5064145	6208 59 0		294	LK 114 VS FS	400/ ST / FS	6161713	6219 54 3		301
LG 650 NS 6000FT	500 1,5/ Steel / FT	5064237	6208 61 2		294	LK 114 VS FT	400/ ST / FT	6162079	6219 64 0		301
LG 650 VS 3000FS	500 1,5/ Steel / FS	5064077	6208 54 7		295	LK 115 VS FS	500/ ST / FS	6161775	6219 55 1		301
LG 650 VS 3000FS	500 1,5/ Steel / FS	5064077	6208 54 7		328	LK 115 VS FT	500/ ST / FT	6162130	6219 65 9		301
LG 650 VS 3000FT	500 1,5/ St / FT	5434214	6208 57 4		295	LK 116 VS FS	600/ ST / FS	6161836	6219 57 8		301
LG 650 VS 3000FT	500 1,5/ St / FT	5434214	6208 57 4		328	LK 116 VS FT	600/ ST / FT	6162192	6219 66 7		301
LG 650 VS 6000FS	500 1,5/ St / FS	5064305	6208 63 6		295						
LG 650 VS 6000FS	500 1,5/ St / FS	5064305	6208 63 6		329	LK 420 NS FT	200/ ST / FT	6135370	6206 12 3		293
LG 650 VS 6000FT	500 1,5/ ST / FT	5064374	6208 65 9		295	LK 430 NS FT	300/ ST / FT	6135431	6206 13 1		293
LG 650 VS 6000FT	500 1,5/ ST / FT	5064374	6208 65 9		329	LK 440 NS FT	400/ ST / FT	6135493	6206 15 8		293
LG 650 VS VA4301	500 1,5/ V2A	5064442	6208 70 9		404	LK 450 NS FT	500/ ST / FT	6135554	6206 16 6		293
LG 650 VS VA4301	500 1,5/ V2A	5064442	6208 70 9		414	LK 460 NS FT	600/ ST / FT	6135615	6206 17 4		293
LG 650 VS VA4571	500 1,5/ V4A	5022121	6101 22 3		444						
LG 660 NS 3000FS	600 1,5/ Steel / FS	5064015	6208 51 8		294	LK 620 NS FS	200/ ST / FS	6151639	6214 02 9		297
LG 660 NS 6000FS	600 1,5/ Steel / FS	5064176	6208 59 3		294	LK 620 NS FT	200/ ST / FT	6151998	6214 13 4		297
LG 660 NS 6000FT	600 1,5/ Steel / FT	5064244	6208 61 5		294	LK 620 VS FS	200/ St / FS	6152353	6214 22 3		298
LG 660 VS 3000FS	600 1,5/ Steel / FS	5064084	6208 55 0		295	LK 620 VS FT	200/ ST / FT	6152711	6214 32 0		298
LG 660 VS 3000FS	600 1,5/ Steel / FS	5064084	6208 55 0		328	LK 630 NS FS	300/ ST / FS	6151691	6214 03 7		297
LG 660 VS 3000FT	600 1,5/ St / FT	5434221	6208 57 8		295	LK 630 NS FT	300/ ST / FT	6152056	6214 14 2		297
LG 660 VS 3000FT	600 1,5/ St / FT	5434221	6208 57 8		328	LK 630 VS FS	300/ St / FS	6152414	6214 23 1		298
LG 660 VS 6000FS	600 1,5/ St / FS	5064312	6208 63 9		295	LK 630 VS FT	300/ ST / FT	6152773	6214 33 9		298
LG 660 VS 6000FS	600 1,5/ St / FS	5064312	6208 63 9		329	LK 640 NS FS	400/ ST / FS	6151752	6214 04 5		297
LG 660 VS 6000FT	600 1,5/ ST / FT	5064381	6208 66 1		295	LK 640 NS FT	400/ ST / FT	6152117	6214 15 0		297
LG 660 VS 6000FT	600 1,5/ ST / FT	5064381	6208 66 1		329	LK 640 VS FS	400/ St / FS	6152476	6214 25 8		298
LG 660 VS VA4301	600 1,5/ V2A	5064473	6208 71 2		404	LK 640 VS FT	400/ ST / FT	6152834	6214 34 7		298
LG 660 VS VA4301	600 1,5/ V2A	5064473	6208 71 2		414	LK 650 NS FS	500/ ST / FS	6151813	6214 05 3		297
LG 660 VS VA4571	600 1,5/ V4A	6524952	6101 23 2		444	LK 650 NS FT	500/ ST / FT	6152179	6214 16 9		297
				/pc.		LK 650 VS FS	500/ St / FS	6152537	6214 26 6		298
LGBV 112 VS FS	200/ ST / FS	6160150	6218 82 2		301	LK 650 VS FT	500/ ST / FT	6152896	6214 35 5		298
LGBV 112 VS FT	200/ ST / FT	6160518	6218 93 8		301	LK 660 NS FS	600/ ST / FS	6151875	6214 06 1		297
LGBV 113 VS FS	300/ ST / FS	6160211	6218 83 0		301	LK 660 NS FT	600/ ST / FT	6152230	6214 17 7		297
LGBV 113 VS FT	300/ ST / FT	6160570	6218 94 6		301	LK 660 VS FS	600/ St / FS	6152599	6214 27 4		298
LGBV 114 VS FS	400/ ST / FS	6160273	6218 84 9		301	LK 660 VS FT	600/ ST / FT	6152957	6214 36 3		298
LGBV 114 VS FT	400/ ST / FT	6160631	6218 95 4		301	LKS 40 FS	/ St / FS	6164530	6221 07 6		302
LGBV 115 VS FS	500/ ST / FS	6160334	6218 85 7		301	LKS 40 FT	/ St / FT	6164592	6221 08 4		302
LGBV 115 VS FT	500/ ST / FT	6160693	6218 96 2		301	LKS 40 VA4301	/ V2A	6295630	6017 13 4		406
LGBV 116 VS FS	600/ ST / FS	6160396	6218 86 5		301	LKS 60 4 VA4301	/ V2A	6015252	6221 13 0		413
LGBV 116 VS FT	600/ ST / FT	6160754	6218 97 0		301	LKS 60 5 FT	/ ST / FT	6175512	6232 48 5		316
LGBV 420 NS FS	200/ ST / FS	6132133	6205 03 8		293	LKS 60 5 FT	/ ST / FT	6175512	6232 48 5		319
LGBV 420 NS FT	200/ ST / FT	6132492	6205 12 7		293	LKS 60 5 FT	/ ST / FT	6175512	6232 48 5		323
LGBV 430 NS FS	300/ ST / FS	6132195	6205 04 6		293						
LGBV 430 NS FT	300/ ST / FT	6132553	6205 13 5		293	LKS60 4 FT	/ ST / FT	61646			



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LT 112 VS FS	200/ ST / FS	6160877	6219 22 5	/pc.	301	LWVG 45 VA4301	45/ V2A	5065500	6200 88 5	/pc.	292
LT 112 VS FT	200/ ST / FT	6161232	6219 32 2		301	LWVG 60 FS	60/ Steel / FS	5065586	6208 89 5		296
LT 113 VS FS	300/ ST / FS	6160938	6219 23 3		301	LWVG 60 FS	60/ Steel / FS	5065586	6208 89 5		331
LT 113 VS FT	300/ ST / FT	6161294	6219 33 0		301	LWVG 60 VA4301	60/ V2A	5065616	6208 89 8		296
LT 114 VS FS	400/ ST / FS	6160990	6219 24 1		301	LWVG 60 VA4301	60/ V2A	5065616	6208 89 8		331
LT 114 VS FT	400/ ST / FT	6161355	6219 34 9		301	LWVG 60 VA4301	60/ V2A	5065616	6208 89 8		404
LT 115 VS FS	500/ ST / FS	6161058	6219 26 8		301	LWVG 60 VA4301	60/ V2A	5065616	6208 89 8		414
LT 115 VS FT	500/ ST / FT	6161416	6219 35 7		301	LWVG 60 VA4571	60/ V4A	5022084	6208 89 1		444
LT 116 VS FS	600/ ST / FS	6161119	6219 27 6		301						
LT 116 VS FT	600/ ST / FT	6161478	6219 36 5		301	MAH 050 FS	50-50 / ST / FS	6765553	6358 50 0		160
						MAH 075 FS	75-75 / ST / FS	6874699	6358 51 0		160
LT 420 NS FS	200/ ST / FS	6133574	6205 53 4		293	MAH 100 FS	100-100 / ST / FS	6765676	6358 52 7		160
LT 420 NS FT	200/ ST / FT	6133932	6205 62 3		293	MAH 150 FS	150-150 / ST / FS	6765737	6358 53 5		160
LT 430 NS FS	300/ ST / FS	6133635	6205 54 2		293	MAH 200 FS	200-200 / ST / FS	6765799	6358 54 3		160
LT 430 NS FT	300/ ST / FT	6133994	6205 63 1		293	MAH 35 100 FS	100 M10/ St / FS	5364061	6358 69 0		159
LT 440 NS FS	400/ ST / FS	6133697	6205 55 0		293	MAH 35 200 FS	200 M10/ St / FS	5364078	6358 69 2		159
LT 440 NS FT	400/ ST / FT	6134052	6205 65 8		293	MAH 35 300 FS	300 M10/ St / FS	5364085	6358 69 4		159
LT 450 NS FS	500/ ST / FS	6133758	6205 56 9		293	MAH 60 100 FS	100-100 M10/ St / FS	6939374	6358 70 5		159
LT 450 NS FT	500/ ST / FT	6134113	6205 66 6		293	MAH 60 100 FT	100-100 M10/ St / FT	6947171	6358 75 2		159
LT 460 NS FS	600/ ST / FS	6133819	6205 57 7		293	MAH 60 150 FS	150-150 M10/ St / FS	6939435	6358 70 9		159
LT 460 NS FT	600/ ST / FT	6134175	6205 67 4		293	MAH 60 150 FT	150-150 M10/ St / FT	6947232	6358 75 6		159
						MAH 60 200 FS	200-200 M10/ St / FS	6939497	6358 71 3		159
LT 620 NS FS	200/ ST / FS	6150199	6213 52 9		297	MAH 60 200 FT	200-200 M10/ St / FT	6947294	6358 76 0		159
LT 620 NS FT	200/ ST / FT	6150557	6213 63 4		297	MAH 60 300 FS	300-300 M10/ St / FS	6939558	6358 71 7		159
LT 620 VS FS	200/ St / FS	6150915	6213 72 3		297	MAH 60 300 FT	300-300 M10/ St / FT	6947355	6358 76 4		159
LT 620 VS FT	200/ St / FT	6151271	6213 82 0		297	MAH LTR FS	75-75 M10/ St / FS	5268611	6358 81 0		359
LT 620 VS VA4301	200/ V2A	6261079	7162 02 2		406						
LT 630 NS FS	300/ ST / FS	6150250	6213 53 7		297	MAHU 200 FS	200/ St / FS	5435761	6358 85 3		160
LT 630 NS FT	300/ ST / FT	6150618	6213 64 2		297	MAHU 200 FS	200/ St / FS	5435761	6358 85 3		302
LT 630 VS FS	300/ St / FS	6150977	6213 73 1		297	MAHU 200 FT	200/ St / FT	5435839	6358 88 4		160
LT 630 VS FT	300/ St / FT	6151332	6213 83 9		297	MAHU 200 FT	200/ St / FT	5435839	6358 88 4		302
LT 630 VS VA4301	300/ V2A	6261130	7162 04 9		406	MAHU 300 FS	300/ St / FS	5435778	6358 85 6		160
LT 640 NS FS	400/ ST / FS	6150311	6213 54 5		297	MAHU 300 FS	300/ St / FS	5435778	6358 85 6		302
LT 640 NS FT	400/ ST / FT	6150670	6213 65 0		297	MAHU 300 FT	300/ St / FT	5435846	6358 88 8		160
LT 640 VS FS	400/ St / FS	6151035	6213 75 8		297	MAHU 300 FT	300/ St / FT	5435846	6358 88 8		302
LT 640 VS FT	400/ St / FT	6151394	6213 84 7		297	MAHU 400 FS	400/ St / FS	5435785	6358 86 0		160
LT 640 VS VA4301	400/ V2A	6261192	7162 05 7		406	MAHU 400 FS	400/ St / FS	5435785	6358 86 0		302
LT 650 NS FS	500/ ST / FS	6150373	6213 55 3		297	MAHU 400 FT	400/ St / FT	5435877	6358 89 2		160
LT 650 NS FT	500/ ST / FT	6150731	6213 66 9		297	MAHU 400 FT	400/ St / FT	5435877	6358 89 2		302
LT 650 VS FS	500/ St / FS	6151097	6213 76 6		297	MAHU 500 FS	500/ St / FS	5435815	6358 86 4		160
LT 650 VS FT	500/ St / FT	6151455	6213 85 5		297	MAHU 500 FS	500/ St / FS	5435815	6358 86 4		302
LT 650 VS VA4301	500/ V2A	6261253	7162 07 3		406	MAHU 500 FT	500/ St / FT	5435884	6358 89 6		160
LT 660 NS FS	600/ ST / FS	6150434	6213 56 1		297	MAHU 500 FT	500/ St / FT	5435884	6358 89 6		302
LT 660 NS FT	600/ ST / FT	6150793	6213 67 7		297	MAHU 600 FS	600/ St / FS	5435822	6358 86 8		160
LT 660 VS FS	600/ St / FS	6151158	6213 77 4		297	MAHU 600 FS	600/ St / FS	5435822	6358 86 8		302
LT 660 VS FT	600/ St / FT	6151516	6213 86 3		297	MAHU 600 FT	600/ St / FT	5435891	6358 90 0		160
LT 660 VS VA4301	600/ V2A	6261314	7162 08 1		406	MAHU 600 FT	600/ St / FT	5435891	6358 90 0		302
						MAS 140 10 FT	1400/ ST / FT	6295753	6356 31 1		365
LTK VA4301	/ V2A	5848813	6069 78 4		348	MASD 90 FT	900/ ST / FT	6471195	6356 91 5		365
				/m						/m	
LTK-K 10 G	2,6/ ST / G	6057559	6050 36 0		357	MKS 610 VA4301	100 1/ V2A	6389292	6056 01 6		386
LTK-K 25 G	2,6/ ST / G	6936137	6050 37 0		357	MKS 620 VA4301	200 1/ V2A	6389353	6056 02 4		386
						MKS 630 VA4301	300 1/ V2A	6389414	6056 04 0		386
LTR 3000 FS	7560/ ST / FS	6943876	6055 81 0		359	MKS 640 VA4301	400 1/ V2A	6389476	6056 05 9		386
LTR 6000 FS	7560/ ST / FS	6943937	6055 81 2		359	MKS 650 VA4301	500 1/ V2A	6389537	6056 07 5		386
LTR FSK RW	7560/ St / FSK	5163329	6055 82 0		359	MKS 660 VA4301	600 1/ V2A	6389599	6056 08 3		386
LTS 100 FS	100 1,5/ St / FS	5247135	6075 02 4		353	MKSM 110 FS	100 1/ St / FS	5830627	6059 15 6		243
LTS 50 FS	5050/ ST / FS	6935956	6075 00 0		353	MKSM 110 FT	100 1/ St / FT	5831037	6059 17 3		243
LTS 50 FT	5050/ ST / FT	6936014	6075 00 5		353	MKSM 115 FS	150 1/ St / FS	5830924	6059 15 8		243
				/pc.		MKSM 115 FT	150 1/ St / FT	5831044	6059 17 5		243
LTS B DD	5050/ St / DD	5453451	6074 90 1		354	MKSM 120 FS	200 1/ St / FS	5830931	6059 16 0		243
LTS DFB DD	5050/ St / DD	5453482	6074 95 2		354	MKSM 120 FT	200 1/ St / FT	5831051	6059 17 7		243
LTS DFK DD	5050/ St / DD	5453529	6074 97 2		355	MKSM 130 FS	300 1/ St / FS	5830948	6059 16 2		243
LTS DFT DD	5050/ St / DD	5453512	6074 96 1		354	MKSM 130 FT	300 1/ St / FT	5831068	6059 17 9		243
LTS K DD	5050/ St / DD	5453475	6074 92 1		355	MKSM 140 FS	400 1/ St / FS	5830986	6059 16 4		243
LTS T DD	5050/ St / DD	5453468	6074 91 2		354	MKSM 140 FT	400 1/ St / FT	5831105	6059 18 1		243
						MKSM 150 FS	500 1/ St / FS	5830993	6059 16 6		243
LVG 110 FS	110/ Steel / FS	5065678	6216 54 5		299	MKSM 150 FT	500 1/ St / FT	5831112	6059 18 3		243
LVG 110 FT	110/ Steel / FT	5065685	6216 54 8		299	MKSM 160 FS	600 1/ St / FS	5831006	6059 16 8		243
LVG 45 FS	45/ Steel / FS	5065197	6200 83 2		291	MKSM 160 FT	600 1/ St / FT	5831129	6059 18 5		243
LVG 45 FT	45/ Steel / FT	5065463	6200 83 5		291	MKSM 610 FS	100 1/ St / FS	5829553	6059 00 0		224
LVG 60 FS	60/ Steel / FS	5065555	6208 84 0		295	MKSM 610 FT	100 1/ St / FT	5830023	6059 01 8		224
LVG 60 FS	60/ Steel / FS	5065555	6208 84 0		331	MKSM 615 FS	150 1/ St / FS	5829935	6059 00 2		224
LVG 60 FT	60/ Steel / FT	5065562	6208 84 3		295	MKSM 615 FT	150 1/ St / FT	5830030	6059 02 0		224
LVG 60 FT	60/ Steel / FT	5065562	6208 84 3		331	MKSM 620 FS	200 1/ St / FS	5829942	6059 00 4		224
LVG 60 VA4301	60/ V2A	5065579	6208 84 6		404	MKSM 620 FT	200 1/ St / FT	5830047	6059 02 2		224
LVG 60 VA4301	60/ V2A	5065579	6208 84 6		414	MKSM 630 FS	300 1/ St / FS	5829959	6059 00 6		224
LVG 60 VA4571	60/ V4A	6666799	6208 83 5		444	MKSM 630 FT	300 1/ St / FT	5830085	6059 02 5		224
						MKSM 640 FS	400 1/ St / FS	5829966	6059 00 8		224
LWVG 110 FS	110/ Steel / FS	5065692	6216 58 7		300	MKSM 640 FT	400 1/ St / FT	5830092	6059 02 7		224
LWVG 110 VA4301	110/ V2A	5065708	6216 59 0		300	MKSM 650 FS	500 1/ St / FS	5829973	6059 01 0		224
LWVG 45 FS	45/ Steel / FS	5065494	6200 88 2		292	MKSM 650 FT	500 1/ St / FT	5830108	6059 02 9		224

# Type listing

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
MKSM 660 FS	600 1/ St / FS	5829980	6059 01 2		224					/pc.	
MKSM 660 FT	600 1/ St / FT	5830146	6059 03 2		224	MP UNI VA4301	115 170/ V2A	5166320	7085 13 3		392
MKSM 810 FS	100 1/ St / FS	5830344	6059 08 0		235						
MKSM 810 FT	100 1/ St / FT	5830412	6059 09 7		235	MP WI GR. DD	240 200/ ST / DD	5286790	7085 11 2		253
MKSM 815 FS	150 1/ St / FS	5830351	6059 08 2		235	MP WI GR. FS	240 200/ ST / FS	6146956	7084 78 1		253
MKSM 815 FT	150 1/ St / FT	5830429	6059 09 9		235	MP WI KL. DD	210 120/ ST / DD	5163305	7085 11 1		253
MKSM 820 FS	200 1/ St / FS	5830368	6059 08 4		235	MP WI KL. FS	210 120/ ST / FS	6146833	7084 76 5		253
MKSM 820 FT	200 1/ St / FT	5830436	6059 10 1		235						
MKSM 830 FS	300 1/ St / FS	5830375	6059 08 6		235	MPG 65 FT	81 65/ ST / FT	6933259	6006 48 6		280
MKSM 830 FT	300 1/ St / FT	5830443	6059 10 3		235	MPG 65 VA4404	81 65/ V4A	6933372	6006 48 8		401
MKSM 840 FS	400 1/ St / FS	5830382	6059 08 8		235	MPG 90 FT	111 95/ ST / FT	6933310	6006 48 7		280
MKSM 840 FT	400 1/ St / FT	5830450	6059 10 5		235	MPG 90 VA4404	111 95/ V4A	6933433	6006 48 9		401
MKSM 850 FS	500 1/ St / FS	5830399	6059 09 0		235						
MKSM 850 FT	500 1/ St / FT	5830467	6059 10 7		235						
MKSM 860 FS	600 1/ St / FS	5830405	6059 09 2		235					/100 m	
MKSM 860 FT	600 1/ St / FT	5830474	6059 10 9		235	MS 21 L 3M FT	41x21/ St / FT	5686293	1122 92 4		199
MKSMU 110 FS	100 1/ St / FS	5832003	6059 38 2		245	MS 21 L 6M FT	41x21/ St / FT	5686309	1122 92 6		199
MKSMU 110 FT	100 1/ St / FT	5832126	6059 39 9		245						
MKSMU 115 FS	150 1/ St / FS	5832010	6059 38 4		245	MS 41 LS 3M FT	41x41/ St / FT	5050735	1122 48 3		200
MKSMU 115 FT	150 1/ St / FT	5832133	6059 40 1		245	MS 41 LS 6M FT	41x41/ St / FT	5050742	1122 48 7		200
MKSMU 120 FS	200 1/ St / FS	5832027	6059 38 6		245						
MKSMU 120 FT	200 1/ St / FT	5832140	6059 40 3		245						
MKSMU 130 FS	300 1/ St / FS	5832065	6059 38 8		245					/pc.	
MKSMU 130 FT	300 1/ St / FT	5832188	6059 40 5		245	MW 45 SL10 FT	/ St / FT	6013692	6017 32 0		286
MKSMU 140 FS	400 1/ St / FS	5832072	6059 39 0		245	MW 45 SL10VA4301	/ V2A	6013753	6017 33 9		402
MKSMU 140 FT	400 1/ St / FT	5832195	6059 40 7		245						
MKSMU 150 FS	500 1/ St / FS	5832089	6059 39 2		245	MW 90 SL17 FT	/ St / FT	6013814	6017 34 7		286
MKSMU 150 FT	500 1/ St / FT	5832201	6059 40 9		245	MW 90 SL17VA4301	/ V2A	6012855	6016 27 8		403
MKSMU 160 FS	600 1/ St / FS	5832119	6059 39 4		245	MW 90 SL23 FT	/ St / FT	6013876	6017 35 5		286
MKSMU 160 FT	600 1/ St / FT	5832232	6059 41 1		245	MW 90 SL23VA4301	/ V2A	6012916	6016 30 8		403
MKSMU 610 FS	100 1/ St / FS	5831341	6059 23 0		226						
MKSMU 610 FT	100 1/ St / FT	5831419	6059 24 8		226						
MKSMU 615 FS	150 1/ St / FS	5831358	6059 23 2		226	MWA 12 11S FS	11053/ St / FS	6636853	6424 71 6		178
MKSMU 615 FT	150 1/ St / FT	5831426	6059 25 0		226	MWA 12 21S FS	21065/ St / FS	6636976	6424 73 2		178
MKSMU 620 FS	200 1/ St / FS	5831365	6059 23 4		226	MWA 12 31S FS	31075/ St / FS	6637034	6424 74 0		178
MKSMU 620 FT	200 1/ St / FT	5831433	6059 25 2		226	MWA 12 41S FS	41083/ St / FS	6637096	6424 75 9		178
MKSMU 630 FS	300 1/ St / FS	5831372	6059 23 7		226						
MKSMU 630 FT	300 1/ St / FT	5831440	6059 25 4		226						
MKSMU 640 FS	400 1/ St / FS	5831389	6059 23 9		226	MWAG 12 11 FS	11053/ St / FS	6324736	6424 60 0		180
MKSMU 640 FT	400 1/ St / FT	5831457	6059 25 6		226	MWAG 12 21 FS	21065/ St / FS	6325030	6424 60 8		180
MKSMU 650 FS	500 1/ St / FS	5831396	6059 24 1		226	MWAG 12 31 FS	31075/ St / FS	6325337	6424 61 6		180
MKSMU 650 FT	500 1/ St / FT	5831464	6059 25 8		226	MWAG 12 41 FS	41083/ St / FS	6325634	6424 62 4		180
MKSMU 660 FS	600 1/ St / FS	5831402	6059 24 3		226						
MKSMU 660 FT	600 1/ St / FT	5831471	6059 26 0		226						
MKSMU 810 FS	100 1/ St / FS	5831624	6059 30 8		237	MWAM 12 11 FS	11053/ St / FS	5438526	6424 55 0		179
MKSMU 810 FT	100 1/ St / FT	5831693	6059 32 5		237	MWAM 12 21 FS	21065/ St / FS	5438533	6424 55 2		179
MKSMU 815 FS	150 1/ St / FS	5831631	6059 31 0		237	MWAM 12 31 FS	31075/ St / FS	5438540	6424 55 4		179
MKSMU 815 FT	150 1/ St / FT	5831709	6059 32 7		237	MWAM 12 41 FS	41083/ St / FS	5438571	6424 55 6		179
MKSMU 820 FS	200 1/ St / FS	5831648	6059 31 2		237						
MKSMU 820 FT	200 1/ St / FT	5831716	6059 32 9		237						
MKSMU 830 FS	300 1/ St / FS	5831655	6059 31 4		237	RAAM 110 FS	100/ St / FS	5882039	6041 92 0		249
MKSMU 830 FT	300 1/ St / FT	5831723	6059 33 1		237	RAAM 110 FS	100/ St / FS	5882039	6041 92 0		266
MKSMU 840 FS	400 1/ St / FS	5831662	6059 31 6		237	RAAM 110 FT	100/ St / FT	5882091	6041 94 0		249
MKSMU 840 FT	400 1/ St / FT	5831730	6059 33 3		237	RAAM 110 FT	100/ St / FT	5882091	6041 94 0		266
MKSMU 850 FS	500 1/ St / FS	5831679	6059 31 8		237	RAAM 115 FS	150/ St / FS	5896067	6041 92 1		249
MKSMU 850 FT	500 1/ St / FT	5831747	6059 33 5		237	RAAM 115 FS	150/ St / FS	5896067	6041 92 1		266
MKSMU 860 FS	600 1/ St / FS	5831686	6059 32 0		237	RAAM 115 FT	150/ St / FT	5896074	6041 94 1		249
MKSMU 860 FT	600 1/ St / FT	5831754	6059 33 7		237	RAAM 115 FT	150/ St / FT	5896074	6041 94 1		266
						RAAM 120 FS	200/ St / FS	5882046	6041 92 2		249
						RAAM 120 FS	200/ St / FS	5882046	6041 92 2		266
MKSU 610 VA4301	1000,8/ V2A	6063970	6063 77 2	/m	386	RAAM 120 FT	200/ St / FT	5882107	6041 94 2		249
MKSU 620 VA4301	2000,8/ V2A	6064038	6063 78 0		386	RAAM 120 FT	200/ St / FT	5882107	6041 94 2		266
MKSU 630 VA4301	3000,8/ V2A	6064090	6063 79 9		386	RAAM 130 FS	300/ St / FS	5882053	6041 92 4		249
MKSU 640 VA4301	400 1/ V2A	6064151	6063 84 5		386	RAAM 130 FS	300/ St / FS	5882053	6041 92 4		266
MKSU 650 VA4301	500 1/ V2A	6064212	6063 86 1		386	RAAM 130 FT	300/ St / FT	5882114	6041 94 4		249
MKSU 660 VA4301	600 1/ V2A	6064274	6063 88 8		386	RAAM 130 FT	300/ St / FT	5882114	6041 94 4		266
						RAAM 140 FS	400/ St / FS	5882060	6041 92 6		249
						RAAM 140 FS	400/ St / FS	5882060	6041 92 6		266
						RAAM 140 FT	400/ St / FT	5882121	6041 94 6		249
MMS10X100	10 x 100/ ST / G	5964049	3498 15 8	/100 pc.	211	RAAM 140 FT	400/ St / FT	5882121	6041 94 6		266
MMS10X80	10 x 80/ ST / G	5963981	3498 12 3		211	RAAM 150 FS	500/ St / FS	5882077	6041 92 8		249
						RAAM 150 FS	500/ St / FS	5882077	6041 92 8		266
MMS6X50	6 x 5050/ ST / GC	5963929	3498 10 7		211	RAAM 150 FT	500/ St / FT	5882152	6041 94 8		249
						RAAM 150 FT	500/ St / FT	5882152	6041 94 8		266
MMS-ST6X60	M6 6 x 60/ St / G	5964162	3498 26 3		211	RAAM 160 FS	600/ St / FS	5882084	6041 93 0		249
						RAAM 160 FS	600/ St / FS	5882084	6041 93 0		266
						RAAM 160 FT	600/ St / FT	5882169	6041 95 0		249
						RAAM 160 FT	600/ St / FT	5882169	6041 95 0		266
MP 225 UNI FS	115 225/ ST / FS	5012245	7084 87 0	/pc.	252	RAAM 310 FS	100/ St / FS	5881353	6041 02 0		220
						RAAM 320 FS	200/ St / FS	5881513	6041 02 2		220
MP FL DD	235 120/ ST / DD	5163268	7085 10 8		253	RAAM 330 FS	300/ St / FS	5881520	6041 02 4		220
MP FL FS	235 120/ ST / FS	6146772	7084 75 7		253	RAAM 610 FS	100/ St / FS	5878568	6041 23 0		232
						RAAM 610 FS	100/ St / FS	5878568	6041 23 0		265
MP UNI DD	115 170/ ST / DD	5163312	7085 11 4		252	RAAM 610 FT	100/ St / FT	5878698	6041 25 0		232
MP UNI DD	115 170/ ST / DD	5163312	7085 11 4		280	RAAM 610 FT	100/ St / FT	5878698	6041 25 0		265
MP UNI FS	115 170/ ST / FS	6146895	7084 77 3		252	RAAM 610 VA4301	100/ V2A	5878797	6041 27 0		390
MP UNI FS	115 170/ ST / FS	6146895	7084 77 3		280	RAAM 610 VA4571	100/ V4A	5878865	6041 29 0		436

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Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
RAAM 615 FS	150/ St / FS	5878575	6041 23 2		232	RBM 45 620 FS	200/ St / FS	5881551	6041 04 4		231
RAAM 615 FS	150/ St / FS	5878575	6041 23 2		265	RBM 45 620 FT	200/ St / FT	5881629	6041 06 4		231
RAAM 615 FT	150/ St / FT	5878704	6041 25 2		232	RBM 45 620VA4301	200/ V2A	5881698	6041 08 4		390
RAAM 615 FT	150/ St / FT	5878704	6041 25 2		265	RBM 45 620VA4571	200/ V4A	5881766	6041 10 4		436
RAAM 615 VA4301	150/ V2A	5878803	6041 27 1		390	RBM 45 630 FS	300/ St / FS	5881568	6041 04 6		231
RAAM 615 VA4571	150/ V4A	5878872	6041 29 2		436	RBM 45 630 FT	300/ St / FT	5881636	6041 06 6		231
RAAM 620 FS	200/ St / FS	5878582	6041 23 4		232	RBM 45 630VA4301	300/ V2A	5881704	6041 08 6		390
RAAM 620 FS	200/ St / FS	5878582	6041 23 4		265	RBM 45 630VA4571	300/ V4A	5881773	6041 10 6		436
RAAM 620 FT	200/ St / FT	5878742	6041 25 4		232	RBM 45 640 FS	400/ St / FS	5881575	6041 04 8		231
RAAM 620 FT	200/ St / FT	5878742	6041 25 4		265	RBM 45 640 FT	400/ St / FT	5881643	6041 06 8		231
RAAM 620 VA4301	200/ V2A	5878810	6041 27 5		390	RBM 45 640VA4301	400/ V2A	5881711	6041 08 8		390
RAAM 620 VA4571	200/ V4A	5878889	6041 29 4		436	RBM 45 640VA4571	400/ V4A	5881780	6041 10 8		436
RAAM 630 FS	300/ St / FS	5878629	6041 23 6		232	RBM 45 650 FS	500/ St / FS	5881582	6041 05 0		231
RAAM 630 FS	300/ St / FS	5878629	6041 23 6		265	RBM 45 650 FT	500/ St / FT	5881650	6041 07 0		231
RAAM 630 FT	300/ St / FT	5878759	6041 25 7		232	RBM 45 650VA4301	500/ V2A	5881728	6041 09 0		390
RAAM 630 FT	300/ St / FT	5878759	6041 25 7		265	RBM 45 650VA4571	500/ V4A	5881797	6041 11 0		436
RAAM 630 VA4301	300/ V2A	5878827	6041 27 7		390	RBM 45 660 FS	600/ St / FS	5881599	6041 05 2		231
RAAM 630 VA4571	300/ V4A	5878926	6041 29 6		436	RBM 45 660 FT	600/ St / FT	5881667	6041 07 2		231
RAAM 640 FS	400/ St / FS	5878636	6041 23 8		232	RBM 45 660VA4301	600/ V2A	5881735	6041 09 2		390
RAAM 640 FS	400/ St / FS	5878636	6041 23 8		265	RBM 45 660VA4571	600/ V4A	5881803	6041 11 2		436
RAAM 640 FT	400/ St / FT	5878766	6041 25 9		232	RBM 45 810 FS	100/ St / FS	5879541	6041 41 0		240
RAAM 640 FT	400/ St / FT	5878766	6041 25 9		265	RBM 45 810 FT	100/ St / FT	5879657	6041 43 0		240
RAAM 640 VA4301	400/ V2A	5878834	6041 27 9		390	RBM 45 815 FS	150/ St / FS	5895749	6041 41 1		240
RAAM 640 VA4571	400/ V4A	5878933	6041 29 8		436	RBM 45 815 FT	150/ St / FT	5895770	6041 43 1		240
RAAM 650 FS	500/ St / FS	5878643	6041 24 0		232	RBM 45 820 FS	200/ St / FS	5879589	6041 41 2		240
RAAM 650 FS	500/ St / FS	5878643	6041 24 0		265	RBM 45 820 FT	200/ St / FT	5879664	6041 43 2		240
RAAM 650 FT	500/ St / FT	5878773	6041 26 1		232	RBM 45 830 FS	300/ St / FS	5879596	6041 41 4		240
RAAM 650 FT	500/ St / FT	5878773	6041 26 1		265	RBM 45 830 FT	300/ St / FT	5879701	6041 43 4		240
RAAM 650 VA4301	500/ V2A	5878841	6041 28 2		390	RBM 45 840 FS	400/ St / FS	5879602	6041 41 6		240
RAAM 650 VA4571	500/ V4A	5878940	6041 30 0		436	RBM 45 840 FT	400/ St / FT	5879718	6041 43 6		240
RAAM 660 FS	600/ St / FS	5878681	6041 24 2		232	RBM 45 850 FS	500/ St / FS	5879633	6041 41 8		240
RAAM 660 FS	600/ St / FS	5878681	6041 24 2		265	RBM 45 850 FT	500/ St / FT	5879725	6041 43 8		240
RAAM 660 FT	600/ St / FT	5878780	6041 26 3		232	RBM 45 860 FS	600/ St / FS	5879640	6041 42 0		240
RAAM 660 FT	600/ St / FT	5878780	6041 26 3		265	RBM 45 860 FT	600/ St / FT	5879756	6041 44 0		240
RAAM 660 VA4301	600/ V2A	5878858	6041 28 4		390	RBM 90 110 FS	100/ St / FS	5880547	6041 84 0		248
RAAM 660 VA4571	600/ V4A	5878988	6041 30 3		436	RBM 90 110 FT	100/ St / FT	5880547	6041 84 0		265
RAAM 810 FS	100/ St / FS	5880851	6041 57 0		240	RBM 90 110 FT	100/ St / FT	5880608	6041 86 0		248
RAAM 810 FT	100/ St / FT	5880912	6041 59 0		240	RBM 90 110 FT	100/ St / FT	5880608	6041 86 0		265
RAAM 815 FS	150/ St / FS	5895862	6041 57 1		240	RBM 90 115 FS	150/ St / FS	5896029	6041 84 1		248
RAAM 815 FT	150/ St / FT	5895893	6041 59 1		240	RBM 90 115 FS	150/ St / FS	5896029	6041 84 1		265
RAAM 820 FS	200/ St / FS	5880868	6041 57 2		240	RBM 90 115 FT	150/ St / FT	5896036	6041 86 1		248
RAAM 820 FT	200/ St / FT	5880929	6041 59 2		240	RBM 90 115 FT	150/ St / FT	5896036	6041 86 1		265
RAAM 830 FS	300/ St / FS	5880875	6041 57 4		240	RBM 90 120 FS	200/ St / FS	5880554	6041 84 2		248
RAAM 830 FT	300/ St / FT	5880967	6041 59 4		240	RBM 90 120 FS	200/ St / FS	5880554	6041 84 2		265
RAAM 840 FS	400/ St / FS	5880882	6041 57 6		240	RBM 90 120 FT	200/ St / FT	5880738	6041 86 2		248
RAAM 840 FT	400/ St / FT	5880974	6041 59 6		240	RBM 90 120 FT	200/ St / FT	5880738	6041 86 2		265
RAAM 850 FS	500/ St / FS	5880899	6041 57 8		240	RBM 90 130 FS	300/ St / FS	5880561	6041 84 4		248
RAAM 850 FT	500/ St / FT	5880981	6041 59 8		240	RBM 90 130 FS	300/ St / FS	5880561	6041 84 4		265
RAAM 860 FS	600/ St / FS	5880905	6041 58 0		240	RBM 90 130 FT	300/ St / FT	5880745	6041 86 4		248
RAAM 860 FT	600/ St / FT	5881025	6041 60 0		240	RBM 90 130 FT	300/ St / FT	5880745	6041 86 4		265
				/pc.		RBM 90 140 FS	400/ St / FS	5880578	6041 84 6		248
						RBM 90 140 FS	400/ St / FS	5880578	6041 84 6		265
RAZLA1505 FS	5050/ St / FS	5858348	6069 86 0		351	RBM 90 140 FT	400/ St / FT	5880752	6041 86 6		248
RAZLA1505 FT	5050/ St / FT	5858355	6069 86 2		351	RBM 90 140 FT	400/ St / FT	5880752	6041 86 6		265
RAZLA1505 VA4301	5050/ V2A	5858362	6069 86 4		351	RBM 90 150 FS	500/ St / FS	5880585	6041 84 8		248
RAZLA1510 FS	50100/ St / FS	5858379	6069 88 0		351	RBM 90 150 FS	500/ St / FS	5880585	6041 84 8		265
RAZLA1510 FT	50100/ St / FT	5858386	6069 88 2		352	RBM 90 150 FT	500/ St / FT	5880769	6041 86 8		248
RAZLA1510 VA4301	50100/ V2A	5858393	6069 88 4		352	RBM 90 150 FT	500/ St / FT	5880769	6041 86 8		265
						RBM 90 160 FS	600/ St / FS	5880592	6041 85 0		248
RB M90 160 FT	600/ St / FT	5880776	6041 87 0		248	RBM 90 160 FS	600/ St / FS	5880592	6041 85 0		265
RB M90 160 FT	600/ St / FT	5880776	6041 87 0		265	RBM 90 310 FS	100/ St / FS	5881322	6041 01 0		220
						RBM 90 320 FS	200/ St / FS	5881339	6041 01 2		220
RBM 45 110 FS	100/ St / FS	5880141	6041 75 0		248	RBM 90 330 FS	300/ St / FS	5881346	6041 01 4		220
RBM 45 110 FT	100/ St / FT	5880264	6041 78 0		248	RBM 90 610 FS	100/ St / FS	5881810	6041 13 0		231
RBM 45 115 FS	150/ St / FS	5895961	6041 75 1		248	RBM 90 610 FS	100/ St / FS	5881810	6041 13 0		265
RBM 45 115 FT	150/ St / FT	5895978	6041 78 1		248	RBM 90 610 FT	100/ St / FT	5881889	6041 15 0		231
RBM 45 120 FS	200/ St / FS	5880189	6041 75 2		248	RBM 90 610 FT	100/ St / FT	5881889	6041 15 0		265
RBM 45 120 FT	200/ St / FT	5880295	6041 78 2		248	RBM 90 610VA4301	100/ V2A	5881957	6041 18 0		390
RBM 45 130 FS	300/ St / FS	5880196	6041 75 4		248	RBM 90 610VA4571	100/ V4A	5878407	6041 20 0		436
RBM 45 130 FT	300/ St / FT	5880301	6041 78 4		248	RBM 90 615 FS	150/ St / FS	5881827	6041 13 2		231
RBM 45 140 FS	400/ St / FS	5880202	6041 75 6		248	RBM 90 615 FS	150/ St / FS	5881827	6041 13 2		265
RBM 45 140 FT	400/ St / FT	5880318	6041 78 6		248	RBM 90 615 FT	150/ St / FT	5881896	6041 15 2		231
RBM 45 150 FS	500/ St / FS	5880240	6041 75 8		248	RBM 90 615 FT	150/ St / FT	5881896	6041 15 2		265
RBM 45 150 FT	500/ St / FT	5880325	6041 78 8		248	RBM 90 615VA4301	150/ V2A	5878285	6041 18 2		390
RBM 45 160 FS	600/ St / FS	5880257	6041 76 0		248	RBM 90 615VA4571	150/ V4A	5878445	6041 20 2		436
RBM 45 160 FT	600/ St / FT	5880356	6041 79 0		248	RBM 90 620 FS	200/ St / FS	5881834	6041 13 4		231
RBM 45 310 FS	100/ St / FS	5877615	6041 00 0		220	RBM 90 620 FS	200/ St / FS	5881834	6041 13 4		265
RBM 45 320 FS	200/ St / FS	5881285	6041 00 2		220	RBM 90 620 FT	200/ St / FT	5881902	6041 15 4		231
RBM 45 330 FS	300/ St / FS	5881315	6041 00 4		220	RBM 90 620 FT	200/ St / FT	5881902	6041 15 4		265
RBM 45 610 FS	100/ St / FS	5881537	6041 04 0		231	RBM 90 620VA4301	200/ V2A	5878322	6041 18 4		390
RBM 45 610 FT	100/ St / FT	5881605	6041 06 0		231	RBM 90 620VA4571	200/ V4A	5878452	6041 20 4		436
RBM 45 610VA4301	100/ V2A	5881674	6041 08 0		390	RBM 90 630 FS	300/ St / FS	5881841	6041 13 6		231
RBM 45 610VA4571	100/ V4A	5881742	6041 10 0		436	RBM 90 630 FS	300/ St / FS	5881841	6041 13 6		265
RBM 45 615 FS	150/ St / FS	5881544	6041 04 2		231	RBM 90 630 FT	300/ St / FT	5881919	6041 15 6		231
RBM 45 615 FT	150/ St / FT	5881612	6041 06 2		231	RBM 90 630 FT	300/ St / FT	5881919	6041 15 6		265
RBM 45 615VA4301	150/ V2A	5881681	6041 08 2		390	RBM 90 630VA4301	300/ V2A	5878339	6041 18 6		390
RBM 45 615VA4571	150/ V4A	5881759	6041 10 2		436	RBM 90 630VA4571	300/ V4A	5878469	6041 20 6		436



# Type listing

Structure of the GTIN: Country code **40**      Manufacturer code **1219**      Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
RBM 90 640 FS	400/ St / FS	5881858	6041 13 8		231					/pc.	
RBM 90 640 FS	400/ St / FS	5881858	6041 13 8		265	RBV 620 S FT	200 1/ St / FT	5703747	7007 01 4		233
RBM 90 640 FT	400/ St / FT	5881926	6041 15 8		231	RBV 620 S VA4301	200 1/ V2A	5886181	7007 10 9		391
RBM 90 640 FT	400/ St / FT	5881926	6041 15 8		265	RBV 620 S VA4571	200 1/ V4A	5886587	7006 72 4		437
RBM 90 640VA4301	400/ V2A	5878346	6041 18 8		390	RBV 630 F FS	300 1/ Steel / FS	5047490	7007 06 7		233
RBM 90 640VA4571	400/ V4A	5878506	6041 20 8		436	RBV 630 F FT	300 1/ St / FT	5863298	7007 06 8		233
RBM 90 650 FS	500/ St / FS	5881865	6041 14 0		231	RBV 630 F VA4301	300 1/ V2A	5886129	7007 15 9		391
RBM 90 650 FS	500/ St / FS	5881865	6041 14 0		265	RBV 630 F VA4571	300 1/ V4A	5886488	7006 75 8		437
RBM 90 650 FT	500/ St / FT	5881933	6041 16 0		231	RBV 630 S FS	300 1/ Steel / FS	5047377	7007 01 7		233
RBM 90 650 FT	500/ St / FT	5881933	6041 16 0		265	RBV 630 S FT	300 1/ St / FT	5863342	7007 01 8		233
RBM 90 650VA4301	500/ V2A	5878384	6041 19 0		390	RBV 630 S VA4301	300 1/ V2A	5886198	7007 11 3		391
RBM 90 650VA4571	500/ V4A	5878513	6041 21 0		436	RBV 630 S VA4571	300 1/ V4A	5886594	7006 72 8		437
RBM 90 660 FS	600/ St / FS	5881872	6041 14 2		231	RBV 640 F FS	400 1/ Steel / FS	5047506	7007 07 1		233
RBM 90 660 FS	600/ St / FS	5881872	6041 14 2		265	RBV 640 F FT	400 1/ St / FT	5863304	7007 07 2		233
RBM 90 660 FT	600/ St / FT	5881940	6041 16 2		231	RBV 640 F VA4301	400 1/ V2A	5886136	7007 16 1		391
RBM 90 660 FT	600/ St / FT	5881940	6041 16 2		265	RBV 640 F VA4571	400 1/ V4A	5886501	7006 76 2		437
RBM 90 660VA4301	600/ V2A	5878391	6041 19 2		390	RBV 640 S FS	400 1/ Steel / FS	5047384	7007 02 1		233
RBM 90 660VA4571	600/ V4A	5878520	6041 21 2		436	RBV 640 S FT	400 1/ St / FT	5863380	7007 02 2		233
RBM 90 810 FS	100/ St / FS	5879886	6041 49 0		240	RBV 640 S VA4301	400 1/ V2A	5886204	7007 11 7		391
RBM 90 810 FT	100/ St / FT	5879978	6041 51 0		240	RBV 640 S VA4571	400 1/ V4A	5886600	7006 73 2		437
RBM 90 815 FS	150/ St / FS	5895800	6041 49 1		240	RBV 650 F FS	500 1/ Steel / FS	5047513	7007 07 5		233
RBM 90 815 FT	150/ St / FT	5895831	6041 51 1		240	RBV 650 F FT	500 1/ St / FT	5863311	7007 07 6		233
RBM 90 820 FS	200/ St / FS	5879893	6041 49 2		240	RBV 650 F VA4301	500 1/ V2A	5886143	7007 16 3		391
RBM 90 820 FT	200/ St / FT	5879985	6041 51 2		240	RBV 650 F VA4571	500 1/ V4A	5886532	7006 76 6		437
RBM 90 830 FS	300/ St / FS	5879909	6041 49 4		240	RBV 650 S FS	500 1/ Steel / FS	5047391	7007 02 5		233
RBM 90 830 FT	300/ St / FT	5879992	6041 51 4		240	RBV 650 S FT	500 1/ St / FT	5863397	7007 02 6		233
RBM 90 840 FS	400/ St / FS	5879947	6041 49 6		240	RBV 650 S VA4301	500 1/ V2A	5886235	7007 11 9		391
RBM 90 840 FT	400/ St / FT	5880004	6041 51 6		240	RBV 650 S VA4571	500 1/ V4A	5886617	7006 73 6		437
RBM 90 850 FS	500/ St / FS	5879954	6041 49 8		240	RBV 660 F FS	600 1/ Steel / FS	5047520	7007 07 9		233
RBM 90 850 FT	500/ St / FT	5880011	6041 51 8		240	RBV 660 F FT	600 1/ St / FT	5863328	7007 08 0		233
RBM 90 860 FS	600/ St / FS	5879961	6041 50 0		240	RBV 660 F VA4301	600 1/ V2A	5886174	7007 16 5		391
RBM 90 860 FT	600/ St / FT	5880028	6041 52 0		240	RBV 660 F VA4571	600 1/ V4A	5886549	7006 77 0		437
				/pc.		RBV 660 S FS	600 1/ Steel / FS	5047407	7007 02 9		233
						RBV 660 S FT	600 1/ St / FT	5863403	7007 03 0		233
RBV 110 F FS	100 1/ St / FS	5711810	7007 35 0		250	RBV 660 S VA4301	600 1/ V2A	5886242	7007 12 1		391
RBV 110 F FT	100 1/ St / FT	5850922	7007 46 8		250	RBV 660 S VA4571	600 1/ V4A	5886624	7006 74 0		437
RBV 110 S FS	100 1/ St / FS	5711711	7007 31 0		250	RBV 810 F FS	100 1/ St / FS	5711636	7007 27 0		242
RBV 110 S FT	100 1/ St / FT	5850908	7007 39 8		250	RBV 810 F FT	100 1/ St / FT	5863410	7007 27 1		242
RBV 120 F FS	200 1/ St / FS	5711827	7007 35 4		250	RBV 810 S FS	100 1/ St / FS	5711537	7007 23 0		241
RBV 120 F FT	200 1/ St / FT	5809210	7007 47 0		250	RBV 810 S FT	100 1/ St / FT	5863502	7007 23 1		241
RBV 120 S FS	200 1/ St / FS	5711728	7007 31 4		250	RBV 820 F FS	200 1/ St / FS	5711643	7007 27 4		242
RBV 120 S FT	200 1/ St / FT	5809197	7007 40 0		250	RBV 820 F FT	200 1/ St / FT	5863427	7007 27 5		242
RBV 130 F FS	300 1/ St / FS	5711834	7007 35 8		250	RBV 820 S FS	200 1/ St / FS	5711544	7007 23 4		241
RBV 130 F FT	300 1/ St / FT	5863649	7007 35 9		250	RBV 820 S FT	200 1/ St / FT	5863519	7007 23 5		241
RBV 130 S FS	300 1/ St / FS	5711759	7007 31 8		250	RBV 830 F FS	300 1/ St / FS	5711650	7007 27 8		242
RBV 130 S FT	300 1/ St / FT	5863618	7007 31 9		250	RBV 830 F FT	300 1/ St / FT	5863434	7007 27 9		242
RBV 140 F FS	400 1/ St / FS	5711841	7007 36 2		250	RBV 830 S FS	300 1/ St / FS	5711575	7007 23 8		241
RBV 140 F FT	400 1/ St / FT	5809227	7007 47 4		250	RBV 830 S FT	300 1/ St / FT	5863526	7007 23 9		241
RBV 140 S FS	400 1/ St / FS	5711766	7007 32 2		250	RBV 840 F FS	400 1/ St / FS	5711667	7007 28 2		242
RBV 140 S FT	400 1/ St / FT	5809203	7007 40 4		250	RBV 840 F FT	400 1/ St / FT	5863441	7007 28 3		242
RBV 150 F FS	500 1/ St / FS	5711872	7007 36 6		250	RBV 840 S FS	400 1/ St / FS	5711582	7007 24 2		241
RBV 150 F FT	500 1/ St / FT	5863687	7007 36 7		250	RBV 840 S FT	400 1/ St / FT	5863564	7007 24 3		241
RBV 150 S FS	500 1/ St / FS	5711773	7007 32 6		250	RBV 850 F FS	500 1/ St / FS	5711698	7007 28 6		242
RBV 150 S FT	500 1/ St / FT	5863625	7007 32 7		250	RBV 850 F FT	500 1/ St / FT	5863458	7007 28 7		242
RBV 155 F FS	550 1/ St / FS	5711889	7007 37 0		250	RBV 850 S FS	500 1/ St / FS	5711599	7007 24 6		241
RBV 155 F FT	550 1/ St / FT	5863694	7007 37 1		250	RBV 850 S FT	500 1/ St / FT	5863571	7007 24 7		241
RBV 155 S FS	550 1/ St / FS	5711780	7007 33 0		250	RBV 860 F FS	600 1/ St / FS	5711704	7007 29 0		242
RBV 155 S FT	550 1/ St / FT	5863632	7007 33 1		250	RBV 860 F FT	600 1/ St / FT	5863465	7007 29 1		242
RBV 305 F FS	50 1/ St / FS	5711469	7007 20 0		221	RBV 860 S FS	600 1/ St / FS	5711605	7007 25 0		241
RBV 305 S FS	50 1/ St / FS	5711414	7007 17 0		221	RBV 860 S FT	600 1/ St / FT	5863588	7007 25 1		241
RBV 310 F FS	100 1/ St / FS	5711476	7007 20 4		221						
RBV 310 S FS	100 1/ St / FS	5711421	7007 17 4		221	REV 110 DD	110/ ST / DD	6067817	6069 33 9		247
RBV 315 F FS	150 1/ St / FS	5711483	7007 20 8		221	REV 110 FS	110/ ST / FS	6066438	6067 99 9		247
RBV 315 S FS	150 1/ St / FS	5711438	7007 17 8		221	REV 35 FS	35/ ST / FS	6066254	6067 95 6		219
RBV 320 F FS	200 1/ St / FS	5711513	7007 21 2		221	REV 60 DD	60/ ST / DD	6337033	6069 41 0		230
RBV 320 S FS	200 1/ St / FS	5711445	7007 18 2		221	REV 60 FS	60/ ST / FS	6066315	6067 97 2		230
RBV 330 F FS	300 1/ St / FS	5711520	7007 21 6		221	REV 60 VA4301	60/ V2A	6066490	6068 02 2		389
RBV 330 S FS	300 1/ St / FS	5711452	7007 18 6		221	REV 60 VA4571	60/ V4A	5021483	6068 05 4		435
RBV 605 F FS	50 1/ Steel / FS	5047438	7007 05 1		233	REV 85 DD	85/ ST / DD	6067756	6069 32 0		239
RBV 605 F FT	50 1/ St / FT	5863281	7007 05 2		233	REV 85 FS	85/ ST / FS	6066377	6067 98 0		239
RBV 605 S FS	50 1/ Steel / FS	5047315	7007 00 1		233						
RBV 605 S FT	50 1/ St / FT	5863335	7007 00 2		233	RGBEV 110 FS	100/ ST / FS	6217274	7005 62 8		251
RBV 610 F FS	100 1/ Steel / FS	5047445	7007 05 5		233	RGBEV 110 FT	100/ ST / FT	6228799	7077 10 6		251
RBV 610 F FT	100 1/ St / FT	5476818	7007 05 6		233	RGBEV 120 FS	200/ ST / FS	6217335	7005 64 4		251
RBV 610 F VA4301	100 1/ V2A	5688563	7007 15 5		391	RGBEV 120 FT	200/ ST / FT	6228850	7077 20 3		251
RBV 610 F VA4571	100 1/ V4A	5886457	7006 75 0		437	RGBEV 130 FS	300/ ST / FS	6217397	7005 66 0		251
RBV 610 S FS	100 1/ Steel / FS	5047322	7007 00 5		233	RGBEV 130 FT	300/ ST / FT	6228911	7077 30 0		251
RBV 610 S FT	100 1/ St / FT	5703730	7007 00 6		233	RGBEV 140 FS	400/ ST / FS	6217458	7005 68 7		251
RBV 610 S VA4301	100 1/ V2A	5688556	7007 10 5		391	RGBEV 140 FT	400/ ST / FT	6228973	7077 40 8		251
RBV 610 S VA4571	100 1/ V4A	5886570	7006 72 0		437	RGBEV 150 FS	500/ ST / FS	6217519	7005 70 9		251
RBV 615 F FS	150 1/ Steel / FS	5047452	7007 05 9		233	RGBEV 150 FT	500/ ST / FT	6229031	7077 50 5		251
RBV 615 S FS	150 1/ Steel / FS	5047339	7007 00 9		233	RGBEV 155 FS	550/ ST / FS	6217571	7005 71 7		251
RBV 620 F FS	200 1/ Steel / FS	5047469	7007 06 3		233	RGBEV 155 FT	550/ ST / FT				

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RGBEV 330 FS	300/ ST / FS	6216499	7005 06 7	/pc.	221	RGV 85 FT	85/ ST / FT	6230891	7082 32 0	/pc.	239
RGBEV 610 FS	100/ ST / FS	6216550	7005 32 6		234						
RGBEV 610 FT	100/ ST / FT	6228072	7075 10 3		234	RKM 110 FS	100/ St / FS	5928041	7027 16 1		249
RGBEV 615 FS	150/ ST / FS	6500239	7005 33 4		234	RKM 110 FT	100/ St / FT	5928157	7027 18 1		249
RGBEV 615 FT	150/ ST / FT	6511877	7075 15 4		234	RKM 115 FT	110/ St / FT	5928164	7027 18 3		249
RGBEV 620 FS	200/ ST / FS	6216611	7005 34 2		234	RKM 120 FT	200/ St / FT	5928171	7027 18 5		249
RGBEV 620 FT	200/ ST / FT	6228133	7075 20 0		234	RKM 130 FT	300/ St / FT	5928188	7027 18 7		249
RGBEV 630 FS	300/ ST / FS	6216673	7005 36 9		234	RKM 140 FT	400/ St / FT	5928195	7027 18 9		249
RGBEV 630 FT	300/ ST / FT	6228195	7075 30 8		234	RKM 150 FS	150/ St / FS	5928058	7027 16 3		249
RGBEV 640 FS	400/ ST / FS	6216734	7005 38 5		234	RKM 150 FT	500/ St / FT	5928201	7027 19 1		249
RGBEV 640 FT	400/ ST / FT	6228256	7075 40 5		234	RKM 160 FT	600/ St / FT	5928218	7027 19 3		249
RGBEV 650 FS	500/ ST / FS	6216796	7005 40 7		234	RKM 200 FS	200/ St / FS	5928065	7027 16 5		249
RGBEV 650 FT	500/ ST / FT	6228317	7075 50 2		234	RKM 300 FS	300/ St / FS	5928072	7027 16 7		249
RGBEV 660 FS	600/ ST / FS	6216857	7005 42 3		234	RKM 310 FS	100/ St / FS	5929161	7027 24 1		221
RGBEV 660 FT	600/ ST / FT	6228379	7075 59 6		234	RKM 320 FS	200/ St / FS	5929178	7027 24 3		221
RGBEV 810 FS	100/ ST / FS	6216918	7005 46 6		242	RKM 330 FS	300/ St / FS	5929185	7027 24 5		221
RGBEV 810 FT	100/ ST / FT	6228430	7076 09 6		242	RKM 400 FS	400/ St / FS	5928089	7027 16 9		249
RGBEV 820 FS	200/ ST / FS	6216970	7005 48 2		242	RKM 500 FS	500/ St / FS	5928096	7027 17 1		249
RGBEV 820 FT	200/ ST / FT	6228492	7076 20 7		242	RKM 600 FS	600/ St / FS	5928102	7027 17 3		249
RGBEV 830 FS	300/ ST / FS	6217038	7005 50 4		242	RKM 610 FS	100/ St / FS	5927389	7027 00 1		232
RGBEV 830 FT	300/ ST / FT	6228553	7076 30 4		242	RKM 610 FT	100/ St / FT	5927471	7027 02 1		232
RGBEV 840 FS	400/ ST / FS	6217090	7005 52 0		242	RKM 610 VA4301	100/ V2A	5927594	7027 04 1		391
RGBEV 840 FT	400/ ST / FT	6228614	7076 40 1		242	RKM 610 VA4571	100/ V4A	5927693	7027 06 1		436
RGBEV 850 FS	500/ ST / FS	6217151	7005 54 7		242	RKM 615 FS	150/ St / FS	5927396	7027 00 3		232
RGBEV 850 FT	500/ ST / FT	6228676	7076 50 9		242	RKM 615 FT	150/ St / FT	5927488	7027 02 3		232
RGBEV 860 FS	600/ ST / FS	6217212	7005 56 3		242	RKM 615 VA4301	150/ V2A	5927600	7027 04 3		391
RGBEV 860 FT	600/ ST / FT	6228737	7076 60 6		242	RKM 615 VA4571	150/ V4A	5927709	7027 06 3		436
						RKM 620 FS	200/ St / FS	5927402	7027 00 5		232
RGBV 110 FS	100/ ST / FS	6218592	7006 62 4		250	RKM 620 FT	200/ St / FT	5927518	7027 02 5		232
RGBV 110 FT	100/ ST / FT	6230112	7081 10 3		250	RKM 620 VA4301	200/ V2A	5927648	7027 04 5		391
RGBV 120 FS	200/ ST / FS	6218653	7006 64 0		250	RKM 620 VA4571	200/ V4A	5927716	7027 06 5		436
RGBV 120 FT	200/ ST / FT	6230174	7081 20 0		250	RKM 630 FS	300/ St / FS	5927419	7027 00 7		232
RGBV 130 FS	300/ ST / FS	6218714	7006 66 7		250	RKM 630 FT	300/ St / FT	5927525	7027 02 7		232
RGBV 130 FT	300/ ST / FT	6230235	7081 30 8		250	RKM 630 VA4301	300/ V2A	5927655	7027 04 7		391
RGBV 140 FS	400/ ST / FS	6218776	7006 68 3		250	RKM 630 VA4571	300/ V4A	5927723	7027 06 7		436
RGBV 140 FT	400/ ST / FT	6230297	7081 40 5		250	RKM 640 FS	400/ St / FS	5927426	7027 00 9		232
RGBV 150 FS	500/ ST / FS	6218837	7006 70 5		250	RKM 640 FT	400/ St / FT	5927532	7027 02 9		232
RGBV 150 FT	500/ ST / FT	6230358	7081 50 2		250	RKM 640 VA4301	400/ V2A	5927662	7027 04 9		391
RGBV 155 FS	550/ ST / FS	6218899	7006 71 3		250	RKM 640 VA4571	400/ V4A	5927730	7027 06 9		436
RGBV 155 FT	550/ ST / FT	6230419	7081 55 3		250	RKM 650 FS	500/ St / FS	5927457	7027 01 1		232
RGBV 610 FS	100/ ST / FS	6217878	7006 32 2		233	RKM 650 FT	500/ St / FT	5927549	7027 03 1		232
RGBV 610 FT	100/ ST / FT	6229390	7079 10 9		233	RKM 650 VA4301	500/ V2A	5927679	7027 05 1		391
RGBV 610 VA4301	100/ V2A	6258499	7138 11 3		391	RKM 650 VA4571	500/ V4A	5927747	7027 07 1		436
RGBV 615 FS	150/ ST / FS	6500352	7006 33 0		233	RKM 660 FS	600/ St / FS	5927464	7027 01 3		232
RGBV 615 FT	150/ ST / FT	6984985	7079 14 1		233	RKM 660 FT	600/ St / FT	5927587	7027 03 3		232
RGBV 620 FS	200/ ST / FS	6217939	7006 34 9		233	RKM 660 VA4301	600/ V2A	5927686	7027 05 3		391
RGBV 620 FT	200/ ST / FT	6229451	7079 20 6		233	RKM 660 VA4571	600/ V4A	5927754	7027 07 3		436
RGBV 620 VA4301	200/ V2A	6258550	7138 12 1		391	RKM 810 FS	100/ St / FS	5927761	7027 08 1		241
RGBV 630 FS	300/ ST / FS	6217991	7006 36 5		233	RKM 810 FT	100/ St / FT	5927839	7027 10 1		241
RGBV 630 FT	300/ ST / FT	6229512	7079 30 3		233	RKM 815 FS	150/ St / FS	5927778	7027 08 3		241
RGBV 630 VA4301	300/ V2A	6258611	7138 14 8		391	RKM 815 FT	150/ St / FT	5927846	7027 10 3		241
RGBV 640 FS	400/ ST / FS	6218059	7006 38 1		233	RKM 820 FS	200/ St / FS	5927785	7027 08 5		241
RGBV 640 FT	400/ ST / FT	6229574	7079 40 0		233	RKM 820 FT	200/ St / FT	5927853	7027 10 5		241
RGBV 640 VA4301	400/ V2A	6258673	7138 15 6		391	RKM 830 FS	300/ St / FS	5927792	7027 08 7		241
RGBV 650	500/ V2A	6258734	7138 16 4		391	RKM 830 FT	300/ St / FT	5927860	7027 10 7		241
RGBV 650 FS	500/ ST / FS	6218110	7006 41 1		233	RKM 840 FS	400/ St / FS	5927808	7027 08 9		241
RGBV 650 FT	500/ ST / FT	6229635	7079 50 8		233	RKM 840 FT	400/ St / FT	5927877	7027 10 9		241
RGBV 660 FS	600/ ST / FS	6218172	7006 44 6		233	RKM 850 FS	500/ St / FS	5927815	7027 09 1		241
RGBV 660 FT	600/ ST / FT	6229697	7079 60 5		233	RKM 850 FT	500/ St / FT	5927884	7027 11 1		241
RGBV 660 VA4301	600/ V2A	6258796	7138 17 2		391	RKM 860 FS	600/ St / FS	5927822	7027 09 3		241
RGBV 810 FS	100/ ST / FS	6218233	7006 46 2		242	RKM 860 FT	600/ St / FT	5927891	7027 11 3		241
RGBV 810 FT	100/ ST / FT	6229758	7080 10 7		242						
RGBV 820 FS	200/ ST / FS	6218295	7006 48 9		242						
RGBV 820 FT	200/ ST / FT	6229819	7080 20 4		242						
RGBV 830 FS	300/ ST / FS	6218356	7006 50 0		242	RKSM 310 FS	1000,75/ St / FS	5390848	6047 41 7	/m	218
RGBV 830 FT	300/ ST / FT	6229871	7080 30 1		242	RKSM 320 FS	2000,75/ St / FS	5390855	6047 43 3		218
RGBV 840 FS	400/ ST / FS	6218417	7006 52 7		242	RKSM 330 FS	3000,75/ St / FS	5390862	6047 46 0		218
RGBV 840 FT	400/ ST / FT	6229932	7080 40 9		242	RKSM 610 FS	1000,75/ St / FS	5390879	6047 61 1		222
RGBV 850 FS	500/ ST / FS	6218479	7006 54 3		242						
RGBV 850 FT	500/ ST / FT	6229994	7080 50 6		242	RKSM 610 FT	1000,75/ St / FT	5903895	6047 61 2		222
RGBV 860 FS	600/ ST / FS	6218530	7006 57 8		242	RKSM 610 VA4301	1000,75/ V2A	5706083	6047 61 3		385
RGBV 860 FT	600/ ST / FT	6230051	7080 60 3		242	RKSM 610 VA4571	1000,75/ V4A	5706113	6047 61 4		432
						RKSM 615 FS	1500,75/ St / FS	5391197	6047 63 0		222
RGV 110 FS	110/ ST / FS	6230655	7082 03 7		247						
						RKSM 615 FT	1500,75/ St / FT	5903901	6047 63 1		222
RGV 110 FT	110/ ST / FT	6230952	7082 43 6		247	RKSM 615 VA4301	1500,75/ V2A	5706120	6047 63 2		385
						RKSM 615 VA4571	1500,75/ V4A	5706137	6047 63 3		432
RGV 35 FS	35/ ST / FS	6230471	7082 00 2		219						
RGV 60 FS	60/ ST / FS	6230532	7082 01 0		230	RKSM 620 FS	2000,75/ St / FS	5391203	6047 63 8		222
RGV 60 FT	60/ ST / FT	6230778	7082 22 3		230	RKSM 620 FT	2000,75/ St / FT	5903932	6047 63 9		222
RGV 60 VA4301	60/ V2A	6230839	7082 25 8		389	RKSM 620 VA4301	2000,75/ V2A	5706144	6047 64 0		385
RGV 60 VA4571	60/ V4A	6080113	7082 26 5		435	RKSM 620 VA4571	2000,75/ V4A	5706175	6047 64 1		432
RGV 85 FS	85/ ST / FS	6230594	7082 02 9		239	RKSM 630 FS	3000,75/ St / FS	5391210	6047 65 4		222



# Type listing

Structure of the GTIN: Country code **40**

Manufacturer code **1219**

Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
				/m							
RKSM 630 FT	3000,75/ st / FT	5903949	6047 65 5		222	RTM 810 FT	100/ St / FT	5881414	6041 68 0		241
RKSM 630 VA4301	3000,75/ v2A	5706182	6047 65 6		385	RTM 815 FS	150/ St / FS	5895923	6041 66 1		241
RKSM 630 VA4571	3000,75/ v4A	5706199	6047 65 7		432	RTM 815 FT	150/ St / FT	5895930	6041 68 1		241
						RTM 820 FS	200/ St / FS	5881360	6041 66 2		241
RKSM 640 FS	4000,9/ st / FS	5391227	6047 68 9		222	RTM 820 FT	200/ St / FT	5881421	6041 68 2		241
						RTM 830 FS	300/ St / FS	5881377	6041 66 4		241
RKSM 640 FT	4000,9/ st / FT	5903956	6047 69 0		222	RTM 830 FT	300/ St / FT	5881438	6041 68 4		241
RKSM 640 VA4301	4000,9/ v2A	5706205	6047 69 1		385	RTM 840 FS	400/ St / FS	5881384	6041 66 6		241
RKSM 640 VA4571	4000,9/ v4A	5706236	6047 69 2		432	RTM 840 FT	400/ St / FT	5881445	6041 68 6		241
						RTM 850 FS	500/ St / FS	5881391	6041 66 8		241
RKSM 650 FS	5000,9/ st / FS	5391234	6047 71 9		222	RTM 850 FT	500/ St / FT	5881452	6041 68 8		241
						RTM 860 FS	600/ St / FS	5881407	6041 67 0		241
RKSM 650 FT	5000,9/ st / FT	5903963	6047 72 0		222	RTM 860 FT	600/ St / FT	5881469	6041 69 0		241
RKSM 650 VA4301	5000,9/ v2A	5706243	6047 72 1		385					/pc.	
RKSM 650 VA4571	5000,9/ v4A	5706250	6047 72 2		432	RV 607 FS	6075/ st / FS	6897070	6068 15 0		359
RKSM 660 FS	6000,9/ st / FS	5391241	6047 73 5		222						
						RVS 110 10 DD	100110/ ST / DD	5079088	6068 78 9		264
RKSM 660 FT	6000,9/ st / FT	5903994	6047 73 6		222	RVS 110 20 DD	200110/ ST / DD	5079118	6068 79 1		264
RKSM 660 VA4301	6000,9/ v2A	5706267	6047 73 7		385	RVS 110 30 DD	300110/ ST / DD	5079125	6068 79 3		264
RKSM 660 VA4571	6000,9/ v4A	5706298	6047 73 8		432	RVS 110 40 DD	400110/ ST / DD	5079132	6068 79 5		264
						RVS 110 50 DD	500110/ ST / DD	5079149	6068 79 7		264
RLVK 35 FS	35/ ST / FS	6065356	6067 08 5		219	RVS 110 55 DD	550110/ ST / DD	5079170	6068 79 9		264
RLVK 60 FS	60/ ST / FS	6065417	6067 09 3		230	RVS 60 10 DD	10060/ ST / DD	5079002	6068 77 1		264
						RVS 60 20 DD	20060/ ST / DD	5079019	6068 77 3		264
RLVK 60 FT	60/ ST / FT	6065899	6067 60 3		230	RVS 60 30 DD	30060/ ST / DD	5079026	6068 77 5		264
RLVK 60 VA4301	60/ v2A	6066018	6067 65 4		389	RVS 60 40 DD	40060/ ST / DD	5079057	6068 77 7		264
RLVK 60 VA4571	60/ v4A	6955459	6067 67 5		435	RVS 60 50 DD	50060/ ST / DD	5079064	6068 77 9		264
						RVS 60 60 DD	60060/ ST / DD	5079071	6068 78 1		264
RLVL 110 FS	110/ ST / FS	6065653	6067 13 1		247	RWEB 110 DD	110100/ ST / DD	6241033	7107 45 5		248
RLVL 110 FT	110/ ST / FT	6066193	6067 91 3		247	RWEB 110 FS	110100/ ST / FS	6242771	7111 09 6		248
RLVL 85 FS	85/ ST / FS	6065592	6067 12 3		239	RWEB 120 DD	110200/ ST / DD	6241095	7107 47 1		248
RLVL 85 FT	85/ ST / FT	6066131	6067 81 6		239	RWEB 120 FS	110200/ ST / FS	6242894	7111 20 7		248
						RWEB 130 DD	110300/ ST / DD	6241156	7107 50 1		248
RTM 110 FS	100/ St / FS	5882336	6042 01 0		249	RWEB 130 FS	110300/ ST / FS	6243013	7111 30 4		248
RTM 110 FT	100/ St / FT	5882428	6042 03 0		249	RWEB 140 DD	110400/ ST / DD	6241217	7107 53 6		248
RTM 115 FS	150/ St / FS	5896104	6042 01 1		249	RWEB 140 FS	110400/ ST / FS	6243136	7111 42 8		248
RTM 115 FT	150/ St / FT	5896135	6042 03 2		249	RWEB 150 DD	110500/ ST / DD	6241279	7107 55 2		248
RTM 120 FS	200/ St / FS	5882343	6042 01 2		249	RWEB 150 FS	110500/ ST / FS	6243198	7111 50 9		248
RTM 120 FT	200/ St / FT	5882466	6042 03 4		249	RWEB 155 DD	110550/ ST / DD	6241330	7107 56 0		248
RTM 130 FS	300/ St / FS	5882350	6042 01 4		249	RWEB 155 FS	110550/ ST / FS	6243259	7111 54 1		248
RTM 130 FT	300/ St / FT	5882473	6042 03 6		249	RWEB 305 FS	50/ ST / FS	6241392	7108 05 2		220
RTM 140 FS	400/ St / FS	5882367	6042 01 8		249	RWEB 310 FS	100/ ST / FS	6241453	7108 10 9		220
RTM 140 FT	400/ St / FT	5882480	6042 03 8		249	RWEB 320 FS	200/ ST / FS	6241514	7108 20 6		220
RTM 150 FS	500/ St / FS	5882404	6042 02 0		249	RWEB 330 FS	300/ ST / FS	6241576	7108 31 1		220
RTM 150 FT	500/ St / FT	5882527	6042 04 0		249						
RTM 160 FS	600/ St / FS	5882411	6042 02 2		249	RWEB 610 DD	60100/ St / DD	6982820	7106 10 6		231
RTM 160 FT	600/ St / FT	5882534	6042 04 2		249	RWEB 610 FS	60100/ ST / FS	6241637	7109 10 5		231
RTM 310 FS	100/ St / FS	5915386	6041 03 0		220	RWEB 610 VA4301	60100/ v2A	6242054	7109 81 4		390
RTM 320 FS	200/ St / FS	5915423	6041 03 2		220	RWEB 615 DD	60150/ St / DD	6308170	7106 11 0		231
RTM 330 FS	300/ St / FS	5915713	6041 03 4		220	RWEB 615 FS	60150/ ST / FS	6241699	7109 15 6		231
RTM 610 FS	100/ St / FS	5878995	6041 32 0		232	RWEB 620 DD	60200/ St / DD	6982769	7106 11 4		231
RTM 610 FT	100/ St / FT	5879121	6041 34 0		232	RWEB 620 FS	60200/ ST / FS	6241750	7109 20 2		231
RTM 610 VA4301	100/ v2A	5879282	6041 36 0		390	RWEB 620 VA4301	60200/ v2A	6242115	7109 83 0		390
RTM 610 VA4571	100/ v4A	5879411	6041 38 0		436	RWEB 630 DD	60300/ St / DD	6982707	7106 11 8		231
RTM 615 FS	150/ St / FS	5879008	6041 32 2		232	RWEB 630 FS	60300/ ST / FS	6241811	7109 29 6		231
RTM 615 FT	150/ St / FT	5879169	6041 34 2		232	RWEB 630 VA4301	60300/ v2A	6242177	7109 85 7		390
RTM 615 VA4301	150/ v2A	5879299	6041 36 3		390	RWEB 640 DD	60400/ St / DD	6024612	7106 12 2		231
RTM 615 VA4571	150/ v4A	5879428	6041 38 2		436	RWEB 640 FS	60400/ ST / FS	6241873	7109 40 7		231
RTM 620 FS	200/ St / FS	5879046	6041 32 4		232						
RTM 620 FT	200/ St / FT	5879176	6041 34 4		232	RWEB 640 VA4301	60400/ v2A	6242238	7109 87 3		390
RTM 620 VA4301	200/ v2A	5879305	6041 36 5		390	RWEB 650 DD	60500/ St / DD	6024735	7106 12 6		231
RTM 620 VA4571	200/ v4A	5879466	6041 38 4		436	RWEB 650 FS	60500/ ST / FS	6241934	7109 50 4		231
RTM 630 FS	300/ St / FS	5879053	6041 32 6		232						
RTM 630 FT	300/ St / FT	5879183	6041 34 8		232	RWEB 650 VA4301	60500/ v2A	6242290	7109 90 3		390
RTM 630 VA4301	300/ v2A	5879343	6041 36 7		390	RWEB 660 DD	60600/ St / DD	6034697	7106 13 0		231
RTM 630 VA4571	300/ v4A	5879473	6041 38 6		436						
RTM 640 FS	400/ St / FS	5879060	6041 32 8		232						
RTM 640 FT	400/ St / FT	5879220	6041 35 0		232						
RTM 640 VA4301	400/ v2A	5879350	6041 36 9		390						
RTM 640 VA4571	400/ v4A	5879480	6041 38 8		436						
RTM 650 FS	500/ St / FS	5879107	6041 33 0		232						
RTM 650 FT	500/ St / FT	5879237	6041 35 2		232						
RTM 650 VA4301	500/ v2A	5879367	6041 37 1		390						
RTM 650 VA4571	500/ v4A	5879527	6041 39 0		436						
RTM 660 FS	600/ St / FS	5879114	6041 33 2		232						
RTM 660 FT	600/ St / FT	5879244	6041 35 4		232						
RTM 660 VA4301	600/ v2A	5879404	6041 37 3		390						
RTM 660 VA4571	600/ v4A	5879534	6041 39 2		436						
RTM 810 FS	100/ St / FS	5881278	6041 66 0		241						

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Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
RWEB 660 FS	60600/ ST / FS	6241996	7109 60 1	/pc.	231	SKS 10X90 F	M10 x 9090/ st / F	6518470	6418 25 2	/100 pc.	170
RWEB 660 VA4301	60600/ v2A	6242351	7109 93 8		390	SKS 10X90 F	M10 x 9090/ st / F	6518470	6418 25 2		173
RWEB 810 DD	100/ ST / DD	6240678	7107 31 5		239	SKS 10X90 F	M10 x 9090/ st / F	6518470	6418 25 2		205
RWEB 810 FS	100/ ST / FS	6242412	7110 10 3		239	SKS 12X100 F	M12 x 100 100/ st / F	6204496	6418 29 5		177
RWEB 820 DD	200/ ST / DD	6240739	7107 33 1		239	SKS 12X100 F	M12 x 100 100/ st / F	6204496	6418 29 5		205
RWEB 820 FS	200/ ST / FS	6242474	7110 20 0		239	SKS 12X100VA430	M12 x 100 100/ v2A	6204618	6418 36 8		379
RWEB 830 DD	300/ ST / DD	6240791	7107 36 6		239	SKS 12X110 F	M12 x 110 110/ st / F	6204557	6418 31 7		177
RWEB 830 FS	300/ ST / FS	6242535	7110 30 8		239	SKS 12X110 F	M12 x 110 110/ st / F	6204557	6418 31 7		205
RWEB 840 DD	400/ ST / DD	6240852	7107 38 2		239	SKS 12X110VA430	M12 x 110 110/ v2A	6204670	6418 37 6		379
RWEB 840 FS	400/ ST / FS	6242597	7110 40 5		239	SKS 12X130 F	M12 x 130 130/ st / F	6479535	6408 47 8		177
RWEB 850 DD	500/ ST / DD	6240913	7107 40 4		239	SKS 12X130 F	M12 x 130 130/ st / F	6479535	6408 47 8		205
RWEB 850 FS	500/ ST / FS	6242658	7110 50 2		239	SKS 12X30 F	M12 x 30 30/ st / F	5258070	3163 09 1		205
RWEB 860 DD	600/ ST / DD	6240975	7107 42 0		239	SKS 12X40 F	M12 x 40 40/ st / F	5258131	3163 11 3		205
RWEB 860 FS	600/ ST / FS	6242719	7110 61 8		239	SKS 12X40 G F	M12 x 40 40/ st / F	5317418	3164 02 0		196
RWWL 35 FS	35/ ST / FS	6065479	6067 10 7		219	SKS 12X60 F	M12 x 60 60/ st / F	5258254	3163 15 6		205
RWWL 60 FS	60/ st / FS	6065530	6067 11 5		230	SKS 12X80 F	M12 x 80 80/ st / F	6204434	6418 28 7		177
RWWL 60 FT	60/ ST / FT	6065950	6067 61 1		230	SKS 12X80 F	M12 x 80 80/ st / F	6204434	6418 28 7		205
RWWL 60 VA4301	60/ v2A	6066070	6067 66 2		389	SKS 12X80 VA4301	M12 x 80 80/ v2A	6204373	6418 27 9		379
RWWL 60 VA4571	60/ v4A	6343157	6067 66 4		435						
SA CPS 4 FT	/ st / FT	5439448	6007 49 6	/pair	334	SKS 610 VA4301	100 1,5/ v2A	6120550	6056 73 5	/m	387
SAA CPS 4 FT	/ st / FT	5439479	6007 49 8		334	SKS 610 VA4571	100 1,5/ v4A	6050048	6056 75 0		433
SF 140 11 FT	/ ST / FT	6295814	6356 39 7	/pc.	365	SKS 620 VA4301	200 1,5/ v2A	6120611	6056 73 7		387
SH KAB 20 FS	20/ ST / FS	6649990	6015 42 5		279	SKS 620 VA4571	200 1,5/ v4A	6044887	6056 75 5		433
SH KAB 25 FS	25/ ST / FS	6650057	6015 43 3		279	SKS 630 VA4301	300 1,5/ v2A	6120673	6056 73 9		387
SH M10 FS	M10/ st / FS	6608539	6015 33 6		279	SKS 630 VA4571	300 1,5/ v4A	6050161	6056 75 7		433
SH M10 FT	M10/ ST / FT	6951970	6015 33 8		279	SKS 640 VA4301	400 1,5/ v2A	6120734	6056 74 2		387
SH M10 VA4401	M10/ v4A	6952038	6015 34 0		400	SKS 640 VA4571	400 1,5/ v4A	6050284	6056 75 9		433
SH M10 VA4401	M10/ v4A	6952038	6015 34 0		443	SKS 650 VA4301	500 1,5/ v2A	6120796	6056 74 4		387
SHU M12 DD	/ st / DD	5851868	6015 32 4		159	SKS 650 VA4571	500 1,5/ v4A	6050406	6056 76 1		433
SHU M12 FS	/ st / FS	5851844	6015 32 2		159	SKS 660 VA4301	600 1,5/ v2A	6120857	6056 74 6		387
SHU M12 VA4301	/ v2A	5851875	6015 32 6		372	SKS 660 VA4571	600 1,5/ v4A	6050529	6056 76 3		433
SHU M12 VA4571	/ v4A	5851882	6015 32 8		424						
SKH 110 OR	Pastel orange/ PE	5668015	6222 55 3	/pair	299	SKS 6X12 F	M6 x 10 12/ st / F	5255857	3156 49 4	/100 pc.	204
SKH 45 OR	Pastel orange/ PE	5667995	6222 50 2		291	SKS 6X20 F	M6 x 20 20/ st / F	5255970	3156 51 6		204
SKH 60 OR	Pastel orange/ PE	5668008	6222 53 7		295	SKS 6X30 F	M6 x 30 30/ st / F	5256038	3156 52 4		204
SKH 60 OR	Pastel orange/ PE	5668008	6222 53 7		331	SKS 8X16 F	M8 x 16 16/ st / F	5256571	3158 62 4		205
SKH 60 OR	Pastel orange/ PE	5668008	6222 53 7		404	SKS 8X20 F	M8 x 20 20/ st / F	5256632	3158 63 2		205
SKH 60 OR	Pastel orange/ PE	5668008	6222 53 7		414	SKS 8X30 F	M8 x 30 30/ st / F	5256694	3158 64 0		205
SKH 60 OR	Pastel orange/ PE	5668008	6222 53 7		444						
SKHW 110 OR	Pastel orange/ PE	5668022	6310 39 8		314	SKSM 110 FS	100 1,5/ st / FS	5829560	6059 61 4	/pc.	244
SKHW 110 OR	Pastel orange/ PE	5668022	6310 39 8		411	SKSM 110 FT	100 1,5/ st / FT	5829638	6059 63 1		244
SKHW 110 OR	Pastel orange/ PE	5668022	6310 39 8		447	SKSM 115 FS	150 1,5/ st / FS	5829577	6059 61 6		244
SKS 10X110 G	M10 x 110 110/ ST / G	6348794	6418 24 4	/100 pc.	158	SKSM 115 FT	150 1,5/ st / FT	5829645	6059 63 3		244
SKS 10X110 G	M10 x 110 110/ ST / G	6348794	6418 24 4		357	SKSM 120 FS	200 1,5/ st / FS	5829584	6059 61 8		244
SKS 10X120 F	M10 x 120 120/ st / F	5505631	3160 79 3		173	SKSM 120 FT	200 1,5/ st / FT	5829652	6059 63 5		244
SKS 10X120 F	M10 x 120 120/ st / F	5505631	3160 79 3		205	SKSM 130 FS	300 1,5/ st / FS	5829591	6059 62 0		244
SKS 10X25 F	M10 x 25 25/ st / F	5257233	3160 73 4		205	SKSM 130 FT	300 1,5/ st / FT	5829669	6059 63 7		244
SKS 10X30 F	M10 x 30 30/ st / F	5257295	3160 74 2		205	SKSM 140 FS	400 1,5/ st / FS	5829607	6059 62 2		244
SKS 10X40 F	M10 x 40 40/ st / F	5257356	3160 75 0		205	SKSM 140 FT	400 1,5/ st / FT	5829676	6059 63 9		244
SKS 10X60 F	M10 x 60 60/ st / F	6202157	6408 51 6		167	SKSM 150 FS	500 1,5/ st / FS	5829614	6059 62 4		244
SKS 10X60 F	M10 x 60 60/ st / F	6202157	6408 51 6		205	SKSM 150 FT	500 1,5/ st / FT	5829683	6059 64 1		244
SKS 10X80 F	M10 x 80 80/ st / F	6437474	6418 25 0		170	SKSM 160 FS	600 1,5/ st / FS	5829621	6059 62 6		244
SKS 10X80 F	M10 x 80 80/ st / F	6437474	6418 25 0		173	SKSM 160 FT	600 1,5/ st / FT	5829690	6059 64 3		244
SKS 10X80 F	M10 x 80 80/ st / F	6437474	6418 25 0		205	SKSM 610 FS	100 1,5/ st / FS	5832485	6059 45 6		225
SKS 10X80 VA4401	M10 x 80 80/ v4A	6822133	6418 24 8		374	SKSM 610 FT	100 1,5/ st / FT	5832607	6059 47 3		225
SKS 10X80 VA4401	M10 x 80 80/ v4A	6822133	6418 24 8		376	SKSM 615 FS	150 1,5/ st / FS	5832492	6059 45 8		225
SKS 10X80 VA4401	M10 x 80 80/ v4A	6822133	6418 24 8		426	SKSM 615 FT	150 1,5/ st / FT	5832614	6059 47 5		225
SKS 10X80 VA4401	M10 x 80 80/ v4A	6822133	6418 24 8		427	SKSM 620 FS	200 1,5/ st / FS	5832508	6059 46 0		225
SKS 10X80 VA4401	M10 x 80 80/ v4A	6822133	6418 24 8		427	SKSM 620 FT	200 1,5/ st / FT	5832621	6059 47 7		225
						SKSM 620 FT	200 1,5/ st / FT	5832621	6059 47 7		225
						SKSM 630 FS	300 1,5/ st / FS	5832546	6059 46 2		225
						SKSM 630 FT	300 1,5/ st / FT	5832669	6059 47 9		225
						SKSM 640 FS	400 1,5/ st / FS	5832553	6059 46 4		225
						SKSM 640 FT	400 1,5/ st / FT	5832676	6059 48 1		225
						SKSM 650 FS	500 1,5/ st / FS	5832560	6059 46 6		225
						SKSM 650 FT	500 1,5/ st / FT	5832683	6059 48 3		225
						SKSM 660 FS	600 1,5/ st / FS	5832591	6059 46 8		225
						SKSM 660 FT	600 1,5/ st / FT	5832713	6059 48 5		225
						SKSM 810 FS	100 1,5/ st / FS	5832966	6059 53 0		236
						SKSM 810 FT	100 1,5/ st / FT	5833086	6059 54 9		236
						SKSM 815 FS	150 1,5/ st / FS	5832973	6059 53 2		236
						SKSM 815 FT	150 1,5/ st / FT	5833093	6059 55 1		236
						SKSM 820 FS	200 1,5/ st / FS	5832980	6059 53 4		236
						SKSM 820 FT	200 1,5/ st / FT	5833109	6059 55 3		236
						SKSM 830 FS	300 1,5/ st / FS	5833024	6059 53 6		236
						SKSM 830 FT	300 1,5/ st / FT	5833147	6059 55 5		236
						SKSM 840 FS	400 1,5/ st / FS	5833031	6059 53 8		236

# Type listing

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
SKSM 840 FT	400 1,5/ St / FT	5833154	6059 55 7		236					/m	
SKSM 850 FS	500 1,5/ st / FS	5833048	6059 54 0		236	SLG 450 NS 6 FS	5002/ Steel / FS	5063841	6200 63 2		291
SKSM 850 FT	500 1,5/ st / FT	5833161	6059 55 9		236	SLG 450 NS FT	5002/ Steel / FT	5063933	6200 65 5		291
SKSM 860 FS	600 1,5/ st / FS	5833079	6059 54 2		236	SLG 460 NS 3 FS	6002/ Steel / FS	5063636	6200 55 2		291
SKSM 860 FT	600 1,5/ st / FT	5833192	6059 56 1		236	SLG 460 NS 6 FS	6002/ Steel / FS	5063872	6200 63 5		291
SKSMU 110 FS	100 1,5/ st / FS	5833925	6059 83 6		246	SLG 460 NS FT	6002/ Steel / FT	5063940	6200 65 8		291
SKSMU 110 FS	100 1,5/ st / FS	5833925	6059 83 6		263	SLG 620 NS FT	2002/ St / FT	5695578	6207 99 1		330
SKSMU 110 FT	100 1,5/ st / FT	5833925	6059 83 6		246	SLG 630 NS FT	3002/ St / FT	5695585	6207 99 3		330
SKSMU 110 FT	100 1,5/ st / FT	5834045	6059 85 3		263	SLG 640 NS FT	4002/ St / FT	5695592	6207 99 5		330
SKSMU 115 FS	150 1,5/ st / FS	5833932	6059 83 8		246	SLG 650 NS FT	5002/ St / FT	5695608	6207 99 7		330
SKSMU 115 FS	150 1,5/ st / FS	5833932	6059 83 8		263	SLG 660 NS FT	6002/ St / FT	5695615	6207 99 9		330
SKSMU 115 FT	150 1,5/ st / FT	5834052	6059 85 5		246						
SKSMU 115 FT	150 1,5/ st / FT	5834052	6059 85 5		263						
SKSMU 120 FS	200 1,5/ st / FS	5833949	6059 84 0		246	SLH 42 FT	2000/ ST / FT	6582136	7103 61 1		201
SKSMU 120 FS	200 1,5/ st / FS	5833949	6059 84 0		263	SLH 62 FT	3000/ ST / FT	6468911	7103 64 3		201
SKSMU 120 FT	200 1,5/ st / FT	5834069	6059 85 7		246						
SKSMU 120 FT	200 1,5/ st / FT	5834069	6059 85 7		263						
SKSMU 130 FS	300 1,5/ st / FS	5833987	6059 84 2		246	SLL 620 CPS 4 FS	2006000/ St / FS	5433965	6010 62 0		330
SKSMU 130 FS	300 1,5/ st / FS	5833987	6059 84 2		263	SLL 620 CPS 4 FT	2006000/ St / FT	5434047	6010 63 0		330
SKSMU 130 FT	300 1,5/ st / FT	5834106	6059 85 9		246	SLL 630 CPS 4 FS	3006000/ St / FS	5433972	6010 62 2		330
SKSMU 130 FT	300 1,5/ st / FT	5834106	6059 85 9		263	SLL 630 CPS 4 FT	3006000/ St / FT	5434085	6010 63 2		330
SKSMU 140 FS	400 1,5/ st / FS	5833994	6059 84 4		246	SLL 640 CPS 4 FS	4006000/ St / FS	5433989	6010 62 4		330
SKSMU 140 FS	400 1,5/ st / FS	5833994	6059 84 4		263	SLL 640 CPS 4 FT	4006000/ St / FT	5434092	6010 63 4		330
SKSMU 140 FT	400 1,5/ st / FT	5834113	6059 86 1		246	SLL 650 CPS 4 FS	5006000/ St / FS	5434023	6010 62 6		330
SKSMU 140 FT	400 1,5/ st / FT	5834113	6059 86 1		263	SLL 650 CPS 4 FT	5006000/ St / FT	5434108	6010 63 6		330
SKSMU 150 FS	500 1,5/ st / FS	5834007	6059 84 6		246	SLL 660 CPS 4 FS	6006000/ St / FS	5434030	6010 62 8		330
SKSMU 150 FS	500 1,5/ st / FS	5834007	6059 84 6		263	SLL 660 CPS 4 FT	6006000/ St / FT	5434146	6010 63 8		330
SKSMU 150 FT	500 1,5/ st / FT	5834120	6059 86 3		246						
SKSMU 150 FT	500 1,5/ st / FT	5834120	6059 86 3		263	SLM 50 C40 10 FT	10003000/ ST / FT	6168613	6010 54 7		332
SKSMU 160 FS	600 1,5/ st / FS	5834038	6059 84 8		246	SLM 50 C40 11 FT	11003000/ ST / FT	6168552	6010 55 5		332
SKSMU 160 FS	600 1,5/ st / FS	5834038	6059 84 8		263	SLM 50 C40 12 FT	12003000/ ST / FT	6168491	6010 56 3		332
SKSMU 160 FT	600 1,5/ st / FT	5834151	6059 86 5		246	SLM 50 C40 2 FT	2003000/ ST / FT	6146116	6010 46 6		332
SKSMU 160 FT	600 1,5/ st / FT	5834151	6059 86 5		263	SLM 50 C40 3 FT	3003000/ ST / FT	6146178	6010 47 4		332
SKSMU 610 FS	100 1,5/ st / FS	5829843	6059 68 8		227	SLM 50 C40 4 FT	4003000/ ST / FT	6146239	6010 48 2		332
SKSMU 610 FS	100 1,5/ st / FS	5829843	6059 68 8		262	SLM 50 C40 5 FT	5003000/ ST / FT	6146291	6010 49 0		332
SKSMU 610 FT	100 1,5/ st / FT	5829911	6059 70 5		227	SLM 50 C40 6 FT	6003000/ ST / FT	6168859	6010 50 4		332
SKSMU 610 FT	100 1,5/ st / FT	5829911	6059 70 5		262	SLM 50 C40 7 FT	7003000/ ST / FT	6168798	6010 51 2		332
SKSMU 615 FS	150 1,5/ st / FS	5829850	6059 69 0		227	SLM 50 C40 8 FT	8003000/ ST / FT	6168736	6010 52 0		332
SKSMU 615 FS	150 1,5/ st / FS	5829850	6059 69 0		262	SLM 50 C40 9 FT	9003000/ ST / FT	6168675	6010 53 9		332
SKSMU 615 FT	150 1,5/ st / FT	5829928	6059 70 7		227						
SKSMU 615 FT	150 1,5/ st / FT	5829928	6059 70 7		262	SLS 80 C40 10 FT	10006000/ ST / FT	6011599	6013 46 5		335
SKSMU 620 FS	200 1,5/ st / FS	5829867	6059 69 2		227	SLS 80 C40 11 FT	11006000/ ST / FT	6011650	6013 47 3		335
SKSMU 620 FS	200 1,5/ st / FS	5829867	6059 69 2		262	SLS 80 C40 12 FT	12006000/ ST / FT	6011711	6013 48 1		335
SKSMU 620 FT	200 1,5/ st / FT	5830634	6059 70 9		227	SLS 80 C40 2 FT	2006000/ ST / FT	6358632	6013 38 4		335
SKSMU 620 FT	200 1,5/ st / FT	5830634	6059 70 9		262	SLS 80 C40 3 FT	3006000/ ST / FT	6358694	6013 39 2		335
SKSMU 630 FS	300 1,5/ st / FS	5829874	6059 69 4		227	SLS 80 C40 4 FT	4006000/ ST / FT	6011230	6013 40 6		335
SKSMU 630 FS	300 1,5/ st / FS	5829874	6059 69 4		262	SLS 80 C40 5 FT	5006000/ ST / FT	6011292	6013 41 4		335
SKSMU 630 FT	300 1,5/ st / FT	5830641	6059 71 1		227	SLS 80 C40 6 FT	6006000/ ST / FT	6011353	6013 42 2		335
SKSMU 630 FT	300 1,5/ st / FT	5830641	6059 71 1		262	SLS 80 C40 7 FT	7006000/ ST / FT	6011414	6013 43 0		335
SKSMU 640 FS	400 1,5/ st / FS	5829881	6059 69 6		227	SLS 80 C40 8 FT	8006000/ ST / FT	6011476	6013 44 9		335
SKSMU 640 FS	400 1,5/ st / FS	5829881	6059 69 6		262	SLS 80 C40 9 FT	9006000/ ST / FT	6011537	6013 45 7		335
SKSMU 640 FT	400 1,5/ st / FT	5830658	6059 71 3		227	SLS 80 W40 10 FT	10006000/ ST / FT	6012138	6013 90 2		335
SKSMU 640 FT	400 1,5/ st / FT	5830658	6059 71 3		262	SLS 80 W40 4 FT	4006000/ ST / FT	6011773	6013 84 8		335
SKSMU 650 FS	500 1,5/ st / FS	5829898	6059 69 8		227	SLS 80 W40 5 FT	5006000/ ST / FT	6011834	6013 85 6		335
SKSMU 650 FS	500 1,5/ st / FS	5829898	6059 69 8		262	SLS 80 W40 6 FT	6006000/ ST / FT	6011896	6013 86 4		335
SKSMU 650 FT	500 1,5/ st / FT	5830665	6059 71 5		227	SLS 80 W40 7 FT	7006000/ ST / FT	6011957	6013 87 2		335
SKSMU 650 FT	500 1,5/ st / FT	5830665	6059 71 5		262	SLS 80 W40 8 FT	8006000/ ST / FT	6012015	6013 88 0		335
SKSMU 660 FS	600 1,5/ st / FS	5829904	6059 70 0		227	SLS 80 W40 9 FT	9006000/ ST / FT	6012077	6013 89 9		335
SKSMU 660 FS	600 1,5/ st / FS	5829904	6059 70 0		262						
SKSMU 660 FT	600 1,5/ st / FT	5830672	6059 71 7		227						
SKSMU 660 FT	600 1,5/ st / FT	5830672	6059 71 7		262	SSLB 100 DD	85/ ST / DD	6095247	7070 30 6	/pc.	252
SKSMU 810 FS	100 1,5/ st / FS	5833444	6059 76 2		238	SSLB 100 DD	85/ ST / DD	6095247	7070 30 6		310
SKSMU 810 FT	100 1,5/ st / FT	5833567	6059 77 9		238	SSLB 100 DD	85/ ST / DD	6095247	7070 30 6		313
SKSMU 815 FS	150 1,5/ st / FS	5833451	6059 76 4		238						
SKSMU 815 FT	150 1,5/ st / FT	5833574	6059 78 1		238	SSLB 100 FS	85/ St / FS	6079971	7070 20 5		252
SKSMU 820 FS	200 1,5/ st / FS	5833468	6059 76 6		238	SSLB 100 FS	85/ St / FS	6079971	7070 20 5		310
SKSMU 820 FT	200 1,5/ st / FT	5833581	6059 78 3		238	SSLB 100 FS	85/ St / FS	6079971	7070 20 5		313
SKSMU 830 FS	300 1,5/ st / FS	5833505	6059 76 8		238						
SKSMU 830 FT	300 1,5/ st / FT	5833628	6059 78 5		238	SSLB 100 VA4301	85/ V2A	6095728	7070 35 3		391
SKSMU 840 FS	400 1,5/ st / FS	5833512	6059 77 0		238	SSLB 100 VA4571	85/ V4A	5021520	7070 39 0		437
SKSMU 840 FT	400 1,5/ st / FT	5833635	6059 78 7		238	SSLB 150 DD	135/ ST / DD	6095308	7070 31 0		252
SKSMU 850 FS	500 1,5/ st / FS	5833529	6059 77 2		238	SSLB 150 DD	135/ ST / DD	6095308	7070 31 0		310
SKSMU 850 FT	500 1,5/ st / FT	5833642	6059 78 9		238	SSLB 150 DD	135/ ST / DD	6095308	7070 31 0		313
SKSMU 860 FS	600 1,5/ st / FS	5833550	6059 77 4		238						
SKSMU 860 FT	600 1,5/ st / FT	5833673	6059 79 1		238	SSLB 150 FS	135/ St / FS	6094820	7070 20 9		252
				/m		SSLB 150 FS	135/ St / FS	6094820	7070 20 9		310
						SSLB 150 FS	135/ St / FS	6094820	7070 20 9		313
SLG 420 NS 3 FS	2002/ Steel / FS	5063575	6200 54 0		291						
SLG 420 NS 6 FS	2002/ Steel / FS	5063780	6200 62 3		291	SSLB 200 DD	185/ ST / DD	6095360	7070 31 4		252
SLG 420 NS FT	2002/ Steel / FT	5063889	6200 64 6		291	SSLB 200 DD	185/ ST / DD	6095360	7070 31 4		310
SLG 430 NS 3 FS	3002/ Steel / FS	5063582	6200 54 3		291	SSLB 200 DD	185/ ST / DD	6095360	7070 31 4		313
SLG 430 NS 6 FS	3002/ Steel / FS	5063827	6200 62 6		291						
SLG 430 NS FT	3002/ Steel / FT	5063896	6200 64 9		291	SSLB 200 FS	185/ St / FS	6094882	7070 21 3		252
SLG 440 NS 3 FS	4002/ Steel / FS	5063599	6200 54 6		291	SSLB 200 FS	185/ St / FS	6094882	7070 21 3		310



Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	
SSLB 200 VA4301	185/ V2A	6095780	7070 36 1	/pc.	410	TGK 30 42 FT	/ ST / FT	6014415	6018 96 3	/pc.	191	
SSLB 200 VA4301	185/ V2A	6095780	7070 36 1		391	TGK 30 42 FT	/ ST / FT	6014415	6018 96 3		336	
SSLB 200 VA4571	185/ V4A	5021582	7070 39 2		437							
SSLB 300 DD	285/ ST / DD	6095421	7070 31 8		252							/pair
SSLB 300 DD	285/ ST / DD	6095421	7070 31 8		310	TKHL-25 FT	25/ ST / FT	6579259	6355 81 2		195	
SSLB 300 DD	285/ ST / DD	6095421	7070 31 8		313	TKH-S-30 FT	30/ ST / FT	6114610	6355 80 4		195	
SSLB 300 FS	285/ ST / FS	6094943	7070 21 7		252	TKS-L-25 FT	25/ ST / FT	6579075	6355 80 8		195	
SSLB 300 FS	285/ ST / FS	6094943	7070 21 7		310	TKS-S-30 FT	30/ ST / FT	6114498	6355 80 0		195	
SSLB 300 FS	285/ ST / FS	6094943	7070 21 7		313							/pc.
SSLB 300 VA4301	285/ V2A	6095841	7070 36 5		409	TPB 100 FS	1,5/ ST / FS	5523666	6357 50 6		158	
SSLB 300 VA4301	285/ V2A	6095841	7070 36 5		410	TPB 100 FS	1,5/ ST / FS	5523666	6357 50 6		357	
SSLB 300 VA4301	285/ V2A	6095841	7070 36 5		391	TPB 100 VA4301	1,5/ V2A	5523673	6357 51 6		372	
SSLB 300 VA4571	285/ V4A	5021605	7070 39 4		437	TPB R FS	1,5,0,8/ ST / FS	5523680	6357 53 6		158	
SSLB 400 DD	385/ ST / DD	6095483	7070 32 2		252	TPB R FS	1,5,0,8/ ST / FS	5523680	6357 53 6		357	
SSLB 400 DD	385/ ST / DD	6095483	7070 32 2		310	TPB R VA4301	1,5,0,8/ V2A	5523727	6357 53 8		372	
SSLB 400 DD	385/ ST / DD	6095483	7070 32 2	313								
SSLB 400 FS	385/ ST / FS	6095001	7070 22 1	252	TPD 145 FS	145 100-100 / ST / FS	6198610	6363 80 6	162			
SSLB 400 FS	385/ ST / FS	6095001	7070 22 1	310								
SSLB 400 FS	385/ ST / FS	6095001	7070 22 1	313	TPD 145 FT	145 100-100 / ST / FT	5076858	6363 86 1	162			
SSLB 400 VA4301	385/ V2A	6095902	7070 36 9	409	TPD 245 FS	245 200-200 / ST / FS	6198672	6363 81 4	162			
SSLB 400 VA4301	385/ V2A	6095902	7070 36 9	410								
SSLB 400 VA4301	385/ V2A	6095902	7070 36 9	391	TPD 245 FT	245 200-200 / ST / FT	5076865	6363 86 5	162			
SSLB 400 VA4571	385/ V4A	5021766	7070 39 6	437								
SSLB 500 DD	485/ ST / DD	6095544	7070 32 6	252	TPD 345 FS	345 300-300 / ST / FS	6198733	6363 82 2	162			
SSLB 500 DD	485/ ST / DD	6095544	7070 32 6	310								
SSLB 500 DD	485/ ST / DD	6095544	7070 32 6	313	TPD 345 FT	345 300-300 / ST / FT	5076896	6363 86 9	162			
SSLB 500 FS	485/ ST / FS	6095063	7070 22 5	252	TPD 445 FS	445 400-400 / ST / FS	5460381	6363 82 6	162			
SSLB 500 FS	485/ ST / FS	6095063	7070 22 5	310	TPD 545 FS	545 500-500 / ST / FS	5460428	6363 82 9	162			
SSLB 500 FS	485/ ST / FS	6095063	7070 22 5	313								
SSLB 500 VA4301	485/ V2A	6095964	7070 37 3	409	TPDG 145 FS	145 100-100 / ST / FS	6511754	6365 90 6	163			
SSLB 500 VA4301	485/ V2A	6095964	7070 37 3	410	TPDG 145 FT	145 100-100 / ST / FT	5076902	6365 97 7	163			
SSLB 500 VA4301	485/ V2A	6095964	7070 37 3	391	TPDG 145 VA4301	145 100-100 / V2A	5617747	6365 98 9	370			
SSLB 500 VA4571	485/ V4A	5021711	7070 39 8	437	TPDG 195 FS	195 150-150 / ST / FS	6042609	6365 91 4	163			
SSLB 550 DD	535/ ST / DD	6095605	7070 33 0	252	TPDG 195 VA4301	195 150-150 / V2A	5617754	6365 99 1	370			
SSLB 550 DD	535/ ST / DD	6095605	7070 33 0	310	TPDG 245 FS	245 200-200 / ST / FS	6511815	6365 92 2	163			
SSLB 550 DD	535/ ST / DD	6095605	7070 33 0	313	TPDG 245 FT	245 200-200 / ST / FT	5076919	6365 98 1	163			
SSLB 550 FS	535/ ST / FS	6095124	7070 22 9	252	TPDG 245 VA4301	245 200-200 / V2A	5617761	6365 99 3	370			
SSLB 550 FS	535/ ST / FS	6095124	7070 22 9	310	TPDG 345 FS	345 300-300 / ST / FS	6984329	6365 94 9	163			
SSLB 550 FS	535/ ST / FS	6095124	7070 22 9	313	TPDG 345 FT	345 300-300 / ST / FT	5076926	6365 98 5	163			
SSLB 550 FS	535/ ST / FS	6095124	7070 22 9	310	TPDG 345 VA4301	345 300-300 / V2A	5617778	6365 99 5	370			
SSLB 550 FS	535/ ST / FS	6095124	7070 22 9	313								
SSLB 600 DD	585/ ST / DD	6095667	7070 33 4	252	TPS 3000 FS	3000/ ST / FS	6282739	6364 80 2	166			
SSLB 600 DD	585/ ST / DD	6095667	7070 33 4	310								
SSLB 600 DD	585/ ST / DD	6095667	7070 33 4	313	TPS 445 FS	445/ ST / FS	6199334	6364 32 2	164			
SSLB 600 FS	585/ ST / FS	6095186	7070 23 3	252	TPS 445 FT	445/ ST / FT	6473717	6364 40 3	164			
SSLB 600 FS	585/ ST / FS	6095186	7070 23 3	310	TPS 445 VA4301	445/ V2A	5617730	6364 84 8	370			
SSLB 600 FS	585/ ST / FS	6095186	7070 23 3	313								
SSLB 600 VA4301	585/ V2A	6096022	7070 38 1	409	TPS 545 FS	545/ ST / FS	6199396	6364 34 9	164			
SSLB 600 VA4301	585/ V2A	6096022	7070 38 1	410	TPS 545 FT	545/ ST / FT	6473779	6364 50 0	164			
SSLB 600 VA4301	585/ V2A	6096022	7070 38 1	391	TPS 545 VA4301	545/ V2A	5617860	6364 85 0	370			
SSLB 600 VA4571	585/ V4A	5021827	7070 40 0	437								
SSV FT	2 23 x 23 x 100/ ST / FT	6064755	6066 04 6	366	TPS 645 FS	645/ ST / FS	6199457	6364 36 5	164			
SSV VA4301	2 23 x 23 x 100/ V2A	6064816	6066 05 4	420	TPS 645 FT	645/ ST / FT	6473830	6364 60 8	164			
SV DD	2 86 x 23/ ST / DD	6084432	6066 94 1	366	TPS 645 VA4301	645/ V2A	5617877	6364 85 2	370			
SV VA4301	2 86 x 23/ V2A	6065233	6066 93 3	420								
SVLB RST20i3 BL	82 x 35/ PA	5892298	6069 78 7	349	TPS KS OR	Pastel orange/ PE	5668084	6364 62 5	166			
SVLS RST20i3 BL	79 x 35/ PA	5892304	6069 78 9	349	TPSA 145 FS	145 100/ ST / FS	6198979	6364 10 1	165			
T D 200 FT	200/ ST / FT	6446414	6239 77 3	304	TPSA 145 FT	145 100-100 / ST / FT	6473892	6364 65 9	165			
T D 300 FT	300/ ST / FT	6446476	6239 78 1	304	TPSA 145 VA4301	145 100-100 / V2A	5733157	6364 87 1	371			
T D 400 FT	400/ ST / FT	6446537	6239 80 3	304								
T D 500 FT	500/ ST / FT	6446599	6239 81 1	304	TPSA 195 FS	195 150/ ST / FS	6199037	6364 15 2	165			
T D 600 FT	600/ ST / FT	6446650	6239 83 8	304	TPSA 195 FT	195 150-150 / ST / FT	6555673	6364 68 3	165			
T5012 M5x13 G	M5/ ST / G	5052999	1140 01 9	207	TPSA 245 FS	245 200/ ST / FS	6199099	6364 20 9	165			
T5012 O.S. M5 G	M5/ ST / G	5053057	1140 21 3	207	TPSA 245 FT	245 200-200 / ST / FT	6473953	6364 66 7	165			
				207	TPSA 245 VA4301	245 200-200 / V2A	5733164	6364 87 6	371			
				207	TPSA 345 FS	345 300/ ST / FS	6199273	6364 30 6	165			
				207	TPSA 345 FT	345 300-300 / ST / FT	6474011	6364 67 5	165			
				207	TPSA 345 VA4301	345 300-300 / V2A	5733171	6364 88 1	371			
				207	TPSAG 145 FS	145 100-100 / ST / FS	6627554	6366 01 5	166			
				207	TPSAG 145 FT	145 100-100 / ST / FT	5076957	6366 13 1	166			
				207	TPSAG 145 VA4301	145 100-100 / V2A	5617785	6366 14 5	371			
				207	TPSAG 195 FS	195 150-150 / ST / FS	6627615	6366 02 3	166			

# Type listing

Structure of the GTIN: Country code **40** Manufacturer code **1219** Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
TPSAG 195 FT	195150-150 / ST / FT	5076964	6366 13 5	/pc.	166	TSGV VA4310	/ V2A 5694724	6067 97 0	/pc.	246	
TPSAG 195 VA4301	195150-150 / V2A	5617792	6366 14 6		371	TSGV VA4310	/ V2A 5694724	6067 97 0		264	
TPSAG 245 FS	245200-200 / ST / FS	6545353	6366 03 1		166	TSGV VA4310	/ V2A 5694724	6067 97 0		270	
TPSAG 245 FT	245200-200 / ST / FT	5076971	6366 13 9		166	TSGV VA4310	/ V2A 5694724	6067 97 0		273	
TPSAG 245 VA4301	245200-200 / V2A	5617808	6366 14 8		371	TSGV VA4310	/ V2A 5694724	6067 97 0		274	
TPSAG 345 FS	345300-300 / ST / FS	6545292	6366 06 6		166	TSGV VA4310	/ V2A 5694724	6067 97 0		284	
TPSAG 345 FT	345300-300 / ST / FT	5076988	6366 14 3		166	TSGV VA4310	/ V2A 5694724	6067 97 0		292	
TPSAG 345 VA4301	345300-300 / V2A	5617815	6366 14 9		371	TSGV VA4310	/ V2A 5694724	6067 97 0		296	
						TSGV VA4310	/ V2A 5694724	6067 97 0		300	
TPSG 3000 FS	3000/ ST / FS	6079032	6366 09 0		166	TSGV VA4310	/ V2A 5694724	6067 97 0		309	
TPSG 3000 FT	3000/ st / FT	5424925	6366 09 3		166	TSGV VA4310	/ V2A 5694724	6067 97 0		312	
						TSGV VA4310	/ V2A 5694724	6067 97 0		315	
						TSGV VA4310	/ V2A 5694724	6067 97 0		318	
TrayFix		5738428	5403 10 0	/100 pc.	281	TSGV VA4310	/ V2A 5694724	6067 97 0		323	
						TSGV VA4310	/ V2A 5694724	6067 97 0		387	
						TSGV VA4310	/ V2A 5694724	6067 97 0		388	
						TSGV VA4310	/ V2A 5694724	6067 97 0		398	
				/m		TSGV VA4310	/ V2A 5694724	6067 97 0		405	
TSG 110 DD	1103000/ st / DD	5694700	6062 33 5		246	TSGV VA4310	/ V2A 5694724	6067 97 0		408	
TSG 110 DD	1103000/ st / DD	5694700	6062 33 5		263	TSGV VA4310	/ V2A 5694724	6067 97 0		412	
TSG 110 DD	1103000/ st / DD	5694700	6062 33 5		312	TSGV VA4310	/ V2A 5694724	6067 97 0		433	
TSG 110 DD	1103000/ st / DD	5694700	6062 33 5		318	TSGV VA4310	/ V2A 5694724	6067 97 0		434	
TSG 110 DD	1103000/ st / DD	5694700	6062 33 5		323	TSGV VA4310	/ V2A 5694724	6067 97 0		442	
TSG 110 FS	1103000/ st / FS	5694588	6062 12 2		246	TSGV VA4310	/ V2A 5694724	6067 97 0		445	
TSG 110 FS	1103000/ st / FS	5694588	6062 12 2		263						
TSG 110 FS	1103000/ st / FS	5694588	6062 12 2		312	US 3 100 FS	10002/ St / FS	6223572	6342 31 8	169	
TSG 110 FS	1103000/ st / FS	5694588	6062 12 2		318	US 3 100 VA4301	10002/ V2A	5705727	6342 46 0	373	
TSG 110 FS	1103000/ st / FS	5694588	6062 12 2		323	US 3 100 VA4571	10002/ V4A	5705833	6342 49 1	425	
TSG 110 VA4301	1103000/ V2A	5778431	6062 25 5		408	US 3 150 FS	15002/ St / FS	6223633	6342 32 8	169	
TSG 110 VA4301	1103000/ V2A	5778431	6062 25 5		412	US 3 150 VA4301	15002/ V2A	5705765	6342 46 3	373	
TSG 135 DD	1353000/ st / DD	5694717	6062 33 8		312	US 3 150 VA4571	15002/ V4A	5705840	6342 49 4	425	
TSG 135 DD	1353000/ st / DD	5694717	6062 33 8		318	US 3 20 FS	2002/ St / FS	6221776	6342 30 2	169	
TSG 135 DD	1353000/ st / DD	5694717	6062 33 8		323	US 3 200 FS	20002/ St / FS	6224296	6342 33 8	169	
TSG 135 FS	1353000/ st / FS	5694595	6062 13 2		312	US 3 200 VA4301	20002/ V2A	5705772	6342 46 6	373	
TSG 135 FS	1353000/ st / FS	5694595	6062 13 2		318	US 3 200 VA4571	20002/ V4A	5705871	6342 49 7	425	
TSG 135 FS	1353000/ st / FS	5694595	6062 13 2		323	US 3 30 FS	3002/ St / FS	6222018	6342 30 4	169	
TSG 30 DD	303000/ st / DD	5694663	6062 31 4		270	US 3 30 VA4301	3002/ V2A	5705703	6342 45 5	373	
TSG 30 DD	303000/ st / DD	5694663	6062 31 4		284	US 3 30 VA4571	3002/ V4A	5705789	6342 48 5	425	
TSG 30 DD	303000/ st / DD	5694663	6062 31 4		292	US 3 300 FS	30002/ St / FS	5710905	6342 34 0	169	
TSG 30 FS	303000/ st / FS	5694496	6062 05 0		218	US 3 40 FS	4002/ St / FS	6222070	6342 30 6	169	
TSG 30 FS	303000/ st / FS	5694496	6062 05 0		270	US 3 50 FS	5002/ St / FS	6222315	6342 30 8	169	
TSG 30 FS	303000/ st / FS	5694496	6062 05 0		284	US 3 50 VA4301	5002/ V2A	5705710	6342 45 7	373	
TSG 30 FS	303000/ st / FS	5694496	6062 05 0		292	US 3 50 VA4571	5002/ V4A	5705826	6342 48 8	425	
TSG 30 VA4301	303000/ V2A	5694502	6062 05 2		397	US 3 60 FS	6002/ St / FS	6222377	6342 31 0	169	
TSG 30 VA4571	303000/ V4A	5694533	6062 05 4		441	US 3 600 FS	60002/ St / FS	6224418	6342 34 5	169	
TSG 45 DD	453000/ st / DD	5694670	6062 32 1		228	US 3 600 FT	60002/ St / FT	6225491	6342 45 0	169	
TSG 45 DD	453000/ st / DD	5694670	6062 32 1		273	US 3 600 FT	60002/ ST / FT	6225491	6342 45 0	333	
TSG 45 DD	453000/ st / DD	5694670	6062 32 1		296	US 3 600 VA4301	60002/ V2A	5706373	6342 46 8	373	
TSG 45 FS	453000/ st / FS	5694489	6062 03 3		228	US 3 600 VA4571	60002/ V4A	5618478	6342 50 5	425	
TSG 45 FS	453000/ st / FS	5694489	6062 03 3		273	US 3 70 FS	7002/ St / FS	6222438	6342 31 2	169	
TSG 45 FS	453000/ st / FS	5694489	6062 03 3		296	US 3 80 FS	8002/ St / FS	6222490	6342 31 4	169	
TSG 45 VA4301	453000/ V2A	5694441	6062 02 5		388	US 3 90 FS	9002/ St / FS	6223510	6342 31 6	169	
TSG 45 VA4301	453000/ V2A	5694441	6062 02 5		397						
TSG 45 VA4301	453000/ V2A	5694441	6062 02 5		405	US 3 K 100 FT	10002/ St / FT	6225132	6342 36 8	168	
TSG 45 VA4571	453000/ V4A	5694472	6062 02 8		434						
TSG 45 VA4571	453000/ V4A	5694472	6062 02 8		445	US 3 K 100VA4301	10002/ V2A	5705437	6342 41 7	373	
TSG 60 DD	603000/ st / DD	5694687	6062 32 7		222	US 3 K 100VA4571	10002/ V4A	5705697	6342 39 7	424	
TSG 60 DD	603000/ st / DD	5694687	6062 32 7		228						
TSG 60 DD	603000/ st / DD	5694687	6062 32 7		263	US 3 K 110 FT	11002/ St / FT	6225378	6342 37 0	168	
						US 3 K 120 FT	12002/ St / FT	6225439	6342 37 2	168	
TSG 60 FS	603000/ st / FS	5694540	6062 06 8		222	US 3 K 20 FT	2002/ St / FT	6224470	6342 35 1	168	
TSG 60 FS	603000/ st / FS	5694540	6062 06 8		228						
TSG 60 FS	603000/ st / FS	5694540	6062 06 8		263	US 3 K 20VA4301	2002/ V2A	5705352	6342 40 1	373	
						US 3 K 20VA4571	2002/ V4A	5705635	6342 37 5	424	
TSG 60 VA4301	603000/ V2A	5694557	6062 08 4		387						
TSG 60 VA4571	603000/ V4A	5694564	6062 08 6		433	US 3 K 30 FT	3002/ St / FT	6224531	6342 35 3	168	
TSG 60 VA4571	603000/ V4A	5694564	6062 08 6		441						
TSG 85 DD	853000/ st / DD	5694694	6062 33 1		238	US 3 K 30VA4301	3002/ V2A	5705369	6342 40 3	373	
TSG 85 DD	853000/ st / DD	5694694	6062 33 1		274	US 3 K 30VA4571	3002/ V4A	5395355	6342 53 0	424	
TSG 85 DD	853000/ st / DD	5694694	6062 33 1		300						
TSG 85 DD	853000/ st / DD	5694694	6062 33 1		309	US 3 K 40 FT	4002/ St / FT	6224593	6342 35 5	168	
TSG 85 DD	853000/ st / DD	5694694	6062 33 1		315						
TSG 85 FS	853000/ st / FS	5694571	6062 11 4		238	US 3 K 40VA4301	4002/ V2A	5705376	6342 40 5	373	
TSG 85 FS	853000/ st / FS	5694571	6062 11 4		274	US 3 K 40VA4571	4002/ V4A	5705642	6342 37 9	424	
TSG 85 FS	853000/ st / FS	5694571	6062 11 4		300						
TSG 85 FS	853000/ st / FS	5694571	6062 11 4		309	US 3 K 50 FT	5002/ St / FT	6224654	6342 35 7	168	
TSG 85 FS	853000/ st / FS	5694571	6062 11 4		315						
TSG 85 VA4301	853000/ V2A	5694601	6062 17 3		397	US 3 K 50VA4301	5002/ V2A	5705383	6342 40 7	373	
TSG 85 VA4301	853000/ V2A	5694601	6062 17 3		408	US 3 K 50VA4571	5002/ V4A	5705659	6342 38 1	424	
TSG 85 VA4301	853000/ V2A	5694601	6062 17 3		412						
						US 3 K 60 FT	6002/ St / FT	6224715	6342 35 9	168	
TSGV VA4310	/ V2A 5694724	6067 97 0		/pc.	218	US 3 K 60VA4301	6002/ V2A	5705390	6342 40 9	373	
TSGV VA4310	/ V2A 5694724	6067 97 0			222	US 3 K 60VA4571	6002/ V4A	5618461	6342 38 9	424	
TSGV VA4310	/ V2A 5694724	6067 97 0			229						
TSGV VA4310	/ V2A 5694724	6067 97 0			238	US 3 K 70 FT	7002/ St / FT	6224777	6342 36 2	168	

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Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
US 3 K 70VA4301	7002/ V2A	5705406	6342 41 1	/pc.	373	US 5 K 30 FT	3002,5/ st / FT	6536719	6341 53 5	/pc.	171
US 3 K 70VA4571	7002/ V4A	5705666	6342 39 1		424	US 5 K 30 VA4301	3002,5/ V2A	6644230	6341 36 2		375
US 3 K 80 FT	8002/ st / FT	6225019	6342 36 4		168	US 5 K 30 VA4571	3002,5/ V4A	6815593	6341 21 3		426
US 3 K 80VA4301	8002/ V2A	5705413	6342 41 3		373	US 5 K 40 FT	4002,5/ st / FT	6536658	6341 54 3		171
US 3 K 80VA4571	8002/ V4A	5705673	6342 39 3		424	US 5 K 40 VA4301	4002,5/ V2A	6350292	6341 36 6		375
US 3 K 90 FT	9002/ st / FT	6225071	6342 36 6		168	US 5 K 40 VA4571	4002,5/ V4A	6815654	6341 21 7		426
US 3 K 90VA4301	9002/ V2A	5705420	6342 41 5		373	US 5 K 50 FT	5002,5/ st / FT	6536597	6341 55 1		171
US 3 K 90VA4571	9002/ V4A	5705680	6342 39 5		424	US 5 K 50 VA4301	5002,5/ V2A	6350414	6341 37 0		375
US 3 K 110 VA4571	11002/ V4A	5912873	6342 39 6		424	US 5 K 50 VA4571	5002,5/ V4A	6815715	6341 22 1		426
US 3 K 120 VA4571	2/ V4A	5912880	6342 39 8		424	US 5 K 60 FT	6002,5/ st / FT	6536535	6341 57 8		171
US 3 KS OR	Pastel orange/ PE	5668039	6338 45 8	/pc.	168	US 5 K 60 VA4301	6002,5/ V2A	6350476	6341 37 4		375
US 3 KS OR	Pastel orange/ PE	5668039	6338 45 8		333	US 5 K 60 VA4571	6002,5/ V4A	6815890	6341 22 5		426
US 3 KS OR	Pastel orange/ PE	5668039	6338 45 8		373	US 5 K 70 FT	7002,5/ st / FT	6536474	6341 58 6		171
US 3 KS OR	Pastel orange/ PE	5668039	6338 45 8		425	US 5 K 70 VA4301	7002,5/ V2A	6350537	6341 37 8		375
US 5 100 FT	10002,5/ st / FT	6284177	6340 96 2		172	US 5 K 70 VA4571	7002,5/ V4A	6816194	6341 22 8		426
US 5 100 FT	10002,5/ st / FT	6284177	6340 96 2		332	US 5 K 80 FT	8002,5/ st / FT	6536412	6341 59 4		171
US 5 100 VA4301	10002,5/ V2A	6082094	6341 13 3		375	US 5 K 80 VA4301	8002,5/ V2A	6350599	6341 38 2		375
US 5 110 VA4301	11002,5/ V2A	6082155	6341 13 7		375	US 5 K 80 VA4571	8002,5/ V4A	6816316	6341 23 3		426
US 5 120 VA4301	12002,5/ V2A	6082216	6341 14 1		375	US 5 K 90 FT	9002,5/ st / FT	6536351	6341 60 8		171
US 5 150 FT	15002,5/ st / FT	6437597	6340 96 6		172	US 5 K 90 VA4301	9002,5/ V2A	6624492	6341 38 6		375
US 5 150 FT	15002,5/ st / FT	6437597	6340 96 6		332	US 5 K 90 VA4571	9002,5/ V4A	6816439	6341 23 7		426
US 5 20 FT	2002,5/ st / FT	6959006	6340 88 1		172	US 5 KS OR	Pastel orange/ PE	5668046	6338 46 2		171
US 5 20 FT	2002,5/ st / FT	6959006	6340 88 1		332	US 5 KS OR	Pastel orange/ PE	5668046	6338 46 2		332
US 5 20 VA4301	2002,5/ V2A	6081554	6341 10 1		375	US 5 KS OR	Pastel orange/ PE	5668046	6338 46 2		375
US 5 200 FT	20002,5/ st / FT	6437658	6340 97 0		172	US 5 KS OR	Pastel orange/ PE	5668046	6338 46 2		426
US 5 200 FT	20002,5/ st / FT	6437658	6340 97 0		332	US 7 100 FT	10004/ st / FT	6188178	6340 18 0		175
US 5 30 FT	3002,5/ st / FT	6959068	6340 90 3		172	US 7 100 FT	10004/ st / FT	6188178	6340 18 0		333
US 5 30 FT	3002,5/ st / FT	6959068	6340 90 3		332	US 7 100 VA4301	10004/ V2A	6189434	6341 81 0		378
US 5 30 VA4301	3002,5/ V2A	6081615	6341 10 5		375	US 7 110 FT	11004/ st / FT	6188239	6340 19 9		175
US 5 30 VA4571	3002,5/ V4A	5020981	6341 05 3		427	US 7 110 FT	11004/ st / FT	6188239	6340 19 9		333
US 5 300 FT	30002,5/ st / FT	6446957	6340 98 9		172	US 7 120 FT	12004/ st / FT	6188291	6340 20 2		175
US 5 300 FT	30002,5/ st / FT	6446957	6340 98 9		332	US 7 120 FT	12004/ st / FT	6188291	6340 20 2		333
US 5 300 VA4301	30002,5/ V2A	6082278	6341 15 2		375	US 7 130 FT	13004/ st / FT	6188352	6340 21 0		175
US 5 300 VA4571	30002,5/ V4A	5022305	6341 07 3		427	US 7 130 FT	13004/ st / FT	6188352	6340 21 0		333
US 5 40 FT	4002,5/ st / FT	6959129	6340 91 1		172	US 7 140 FT	14004/ st / FT	6188413	6340 22 9		175
US 5 40 FT	4002,5/ st / FT	6959129	6340 91 1		332	US 7 140 FT	14004/ st / FT	6188413	6340 22 9		333
US 5 40 VA4301	4002,5/ V2A	6081677	6341 10 9		375	US 7 150 FT	15004/ st / FT	6188475	6340 23 7		175
US 5 40 VA4571	4002,5/ V4A	6181995	6341 05 5		427	US 7 150 FT	15004/ st / FT	6188475	6340 23 7		333
US 5 50 FT	5002,5/ st / FT	6959181	6340 93 8		172	US 7 150 VA4301	15004/ V2A	6189731	6341 86 1		378
US 5 50 FT	5002,5/ st / FT	6959181	6340 93 8		332	US 7 160 FT	16004/ st / FT	6188536	6340 24 5		175
US 5 50 VA4301	5002,5/ V2A	6081738	6341 11 3		375	US 7 160 FT	16004/ st / FT	6188536	6340 24 5		333
US 5 50 VA4571	5002,5/ V4A	6182053	6341 05 7		427	US 7 170 FT	17004/ st / FT	6188598	6340 25 3		175
US 5 60 FT	6002,5/ st / FT	6601752	6340 94 6		172	US 7 170 FT	17004/ st / FT	6188598	6340 25 3		333
US 5 60 FT	6002,5/ st / FT	6601752	6340 94 6		332	US 7 180 FT	18004/ st / FT	6188659	6340 26 1		175
US 5 60 VA4571	6002,5/ V4A	6183319	6341 05 9		427	US 7 180 FT	18004/ st / FT	6188659	6340 26 1		333
US 5 600 FT	60002,5/ st / FT	6437719	6340 99 7		172	US 7 190 FT	19004/ st / FT	6188710	6340 28 8		175
US 5 600 FT	60002,5/ st / FT	6437719	6340 99 7		332	US 7 190 FT	19004/ st / FT	6188710	6340 28 8		333
US 5 70 FT	7002,5/ st / FT	6043927	6340 95 0		172	US 7 20 FT	2004/ st / FT	6187690	6340 01 6		175
US 5 70 FT	7002,5/ st / FT	6043927	6340 95 0		332	US 7 20 FT	2004/ st / FT	6187690	6340 01 6		333
US 5 70 VA4301	7002,5/ V2A	6081851	6341 12 1		375	US 7 200 FT	20004/ st / FT	6188772	6340 29 6		175
US 5 80 FT	8002,5/ st / FT	6044047	6340 95 4		172	US 7 200 FT	20004/ st / FT	6188772	6340 29 6		333
US 5 80 FT	8002,5/ st / FT	6044047	6340 95 4		332	US 7 200 VA4301	20004/ V2A	6190034	6341 95 0		378
US 5 80 VA4301	8002,5/ V2A	6081912	6341 12 5		375	US 7 30 FT	3004/ st / FT	6187751	6340 03 2		175
US 5 80 VA4571	8002,5/ V4A	6237135	6341 06 3		427	US 7 30 FT	3004/ st / FT	6187751	6340 03 2		333
US 5 90 FT	9002,5/ st / FT	6044160	6340 95 8		172	US 7 300 FT	30004/ st / FT	6188895	6340 37 7		175
US 5 90 FT	9002,5/ st / FT	6044160	6340 95 8		332	US 7 300 FT	30004/ st / FT	6188895	6340 37 7		333
US 5 90 VA4301	9002,5/ V2A	6081974	6341 12 9		375	US 7 300 VA4301	30004/ V2A	6190096	6341 96 9		378
US 5 90 VA4571	9002,5/ V4A	6183371	6341 06 5		427	US 7 40 FT	4004/ st / FT	6187812	6340 05 9		175
US 5 K 100 FT	10002,5/ st / FT	6536290	6341 61 6		171	US 7 40 FT	4004/ st / FT	6187812	6340 05 9		333
US 5 K 100VA4301	10002,5/ V2A	6350711	6341 39 0		375	US 7 400 FT	40004/ st / FT	6458233	6340 39 3		175
US 5 K 100VA4571	10002,5/ V4A	6459919	6341 24 1		426	US 7 400 FT	40004/ st / FT	6458233	6340 39 3		333
US 5 K 110 FT	11002,5/ st / FT	6536238	6341 62 4		171	US 7 50 FT	5004/ st / FT	6187874	6340 07 5		175
US 5 K 110VA4301	11002,5/ V2A	6350773	6341 39 4		375	US 7 50 FT	5004/ st / FT	6187874	6340 07 5		333
US 5 K 110VA4571	11002,5/ V4A	6816552	6341 24 5		426	US 7 50 VA4301	5004/ V2A	6189137	6341 76 4		378
US 5 K 120 FT	12002,5/ st / FT	6536177	6341 63 2		171	US 7 60 FT	6004/ st / FT	6187935	6340 09 1		175
US 5 K 120VA4301	12002,5/ V2A	6350834	6341 39 8		375	US 7 60 FT	6004/ st / FT	6187935	6340 09 1		333
US 5 K 120VA4571	12002,5/ V4A	6816613	6341 24 9		426	US 7 600 FT	60004/ st / FT	6188833	6340 31 8		175
US 5 K 20 FT	2002,5/ st / FT	6536771	6341 52 7		171	US 7 600 FT	60004/ st / FT	6188833	6340 31 8		333
US 5 K 20 VA4301	2002,5/ V2A	6477135	6341 35 8		375	US 7 600 VA4301	60004/ V2A	6190157	6341 99 3		378
US 5 K 20 VA4571	2002,5/ V4A	6815531	6341 20 9		426	US 7 70 FT	7004/ st / FT	6187997	6340 11 3		175

# Type listing

Structure of the GTIN: Country code **40**    Manufacturer code **1219**    Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
US 7 70 FT	7004/ st / FT	6187997	6340 11 3	/pc.	333	WAAD 600 FS	600 1,5/ st / FS	6080656	6231 91 6	/pc.	320
US 7 80 FT	8004/ st / FT	6188055	6340 14 8		175						
US 7 80 FT	8004/ st / FT	6188055	6340 14 8		333	WB 30 75 FT	/ st / FT	6014712	6019 61 7		331
US 7 90 FT	9004/ st / FT	6188116	6340 16 4		175	WB 30 75 VA4301	/ V2A	6014774	6019 66 8		415
US 7 90 FT	9004/ st / FT	6188116	6340 16 4		333						
US 7 K 100 FT	10004/ st / FT	6187034	6339 18 2		174	WDBRL 90 20 DD	2001/ st / DD	6504015	6231 52 7		320
US 7 K 100VA4301	10004/ V2A	6185894	6338 69 0		377	WDBRL 90 20 FS	2001/ st / FS	6503711	6231 46 2		320
US 7 K 110 FT	11004/ st / FT	6187096	6339 19 0		174	WDBRL 90 30 DD	3001/ st / DD	6504077	6231 53 5		320
US 7 K 110VA4301	11004/ V2A	6185955	6338 70 4		377	WDBRL 90 30 FS	3001/ st / FS	6503773	6231 47 0		320
US 7 K 120 FT	12004/ st / FT	6187157	6339 20 4		174	WDBRL 90 40 DD	4001/ st / DD	6504138	6231 54 3		320
US 7 K 120VA4301	12004/ V2A	6186013	6338 71 2		377	WDBRL 90 40 FS	4001/ st / FS	6503834	6231 48 9		320
US 7 K 130 FT	13004/ st / FT	6187218	6339 21 2		174	WDBRL 90 50 DD	5001/ st / DD	6504190	6231 55 1		320
US 7 K 140 FT	14004/ st / FT	6187270	6339 22 0		174	WDBRL 90 50 FS	5001/ st / FS	6503896	6231 49 7		320
US 7 K 140VA4301	14004/ V2A	6186136	6338 73 9		377	WDBRL 90 60 DD	6001/ st / DD	6504251	6231 57 8		320
US 7 K 150 FT	15004/ st / FT	6187331	6339 23 9		174	WDBRL 90 60 FS	6001/ st / FS	6503957	6231 50 0		320
US 7 K 150VA4301	15004/ V2A	6186198	6338 74 7		377						
US 7 K 160 FT	16004/ st / FT	6187393	6339 24 7		174	WDKRL 200 DD	2001/ st / DD	6505210	6231 80 2		321
US 7 K 170 FT	17004/ st / FT	6187454	6339 25 5		174	WDKRL 300 DD	3001/ st / DD	6505272	6231 81 0		321
US 7 K 180 FT	18004/ st / FT	6187515	6339 26 3		174	WDKRL 400 DD	4001/ st / DD	6505333	6231 82 9		321
US 7 K 190 FT	19004/ st / FT	6187577	6339 27 1		174	WDKRL 500 DD	500 1,25/ st / DD	6505395	6231 83 7		321
US 7 K 20 FT	2004/ st / FT	6186556	6339 01 8		174	WDKRL 600 DD	600 1,25/ st / DD	6505456	6231 84 5		321
US 7 K 20 VA4301	2004/ V2A	6185412	6338 60 7		377						
US 7 K 200 FT	20004/ st / FT	6187638	6339 29 8		174	WDR 317 A VA4301	/ V2A	6175390	6232 43 4		325
US 7 K 200VA4301	20004/ V2A	6186495	6338 80 1		377	WDR 317 VA4301	/ V2A	6170296	6227 62 7		321
US 7 K 30 FT	3004/ st / FT	6186617	6339 03 4		174						
US 7 K 30 VA4301	3004/ V2A	6185474	6338 61 5		377					/m	
US 7 K 40 FT	4004/ st / FT	6186679	6339 05 0		174	WDR 1116 20 DD	2001/ st / DD	6072613	6227 60 0		320
US 7 K 40 VA4301	4004/ V2A	6185535	6338 62 3		377	WDR 1116 20 FS	2001/ st / FS	6169696	6227 42 2		320
US 7 K 50 FT	5004/ st / FT	6186730	6339 07 7		174	WDR 1116 20 V2A	200 1,5/ V2A	5751267	6227 36 0		413
US 7 K 50 VA4301	5004/ V2A	6185597	6338 63 1		377	WDR 1116 30 DD	3001/ st / DD	6072736	6227 60 4		320
US 7 K 60 FT	6004/ st / FT	6186792	6339 09 3		174	WDR 1116 30 FS	3001/ st / FS	6169757	6227 43 0		320
US 7 K 60 VA4301	6004/ V2A	6185658	6338 65 8		377	WDR 1116 30 V2A	300 1,5/ V2A	5751304	6227 36 2		413
US 7 K 70 FT	7004/ st / FT	6186853	6339 11 5		174	WDR 1116 40 DD	4001/ st / DD	6072910	6227 60 8		320
US 7 K 70 VA4301	7004/ V2A	6185719	6338 66 6		377	WDR 1116 40 FS	4001/ st / FS	6169818	6227 44 9		320
US 7 K 80 FT	8004/ st / FT	6186914	6339 13 1		174	WDR 1116 40 V2A	400 1,5/ V2A	5751311	6227 36 4		413
US 7 K 80 VA4301	8004/ V2A	6185771	6338 67 4		377	WDR 1116 50 DD	500 1,5/ st / DD	6073092	6227 61 2		320
US 7 K 90 FT	9004/ st / FT	6186976	6339 16 6		174	WDR 1116 50 FS	500 1,5/ st / FS	6169870	6227 45 7		320
US 7 K 90 VA4301	9004/ V2A	6185832	6338 68 2		377	WDR 1116 50 V2A	500 1,5/ V2A	5751328	6227 36 6		413
US 7 KS OR	Pastel orange/ PE	5668060	6338 49 7		174	WDR 1116 60 DD	600 1,5/ st / DD	6073276	6227 61 6		320
US 7 KS OR	Pastel orange/ PE	5668060	6338 49 7		334	WDR 1116 60 FS	600 1,5/ st / FS	6169931	6227 46 5		320
US 7 KS OR	Pastel orange/ PE	5668060	6338 49 7		377	WDR 1116 60 V2A	600 1,5/ V2A	5751359	6227 36 8		413
VF AZK 50 DD	/ st / DD	6046089	6066 62 3		353					/pc.	
VF AZK 50 DD	/ st / DD	6046089	6066 62 3		363	WDTRL 200 DD	2001/ st / DD	6504619	6231 66 7		320
VF AZK 50 FS	/ st / FS	5049623	6066 61 5		353	WDTRL 300 DD	3001/ st / DD	6504671	6231 67 5		320
VF AZK 50 FS	/ st / FS	5049623	6066 61 5		363	WDTRL 400 DD	4001/ st / DD	6504732	6231 68 3		320
VF AZK 50 VA4301	/ V2A	5863861	6066 62 9		418	WDTRL 500 DD	500 1,25/ st / DD	6977420	6231 69 1		320
VF AZK FT	/ st / FT	6064991	6066 55 0		353	WDTRL 600 DD	600 1,25/ st / DD	6977482	6231 70 5		320
VF AZK FT	/ st / FT	6064991	6066 55 0		363						
VF AZK VA4301	/ V2A	6065059	6066 56 9		418	WEAS 110 FS	110/ st / FS	5242512	6098 47 5		309
VF AZK VA4571	50/ V4A	5866206	6066 57 1		449	WEAS 110 FT	110/ st / FT	5242529	6098 47 9		309
						WEAS 110 VA4301	110/ V2A	5242536	6098 48 3		409
						WEAS 110 VA4301	110/ V2A	5242536	6098 48 3		413
VIS 8 FT	/ st / FT	6014231	6018 30 0	/pc.	189	WEAS 160 FS	160/ st / FS	5242543	6098 86 0		313
VIS 8 FT	/ st / FT	6014231	6018 30 0		335	WEAS 160 FT	160/ st / FT	5242550	6098 86 4		313
						WEAS 160 VA4301	160/ V2A	5696346	6098 86 8		410
VL-3Q1.5 10 SW		5122500	6108 10 9		356					/m	
VL-3Q1.5 15 SW		5122586	6108 11 4		356						
VL-3Q1.5 3 SW		5122340	6108 10 2		356	WESP 50 20 BK	30004/ ST	6239955	7105 66 5		200
VL-3Q1.5 5 SW		5122395	6108 10 4		356	WESP 60 15 BK	30004/ ST	6240012	7105 96 7		200
VL-3Q2.5 10 SW		5123248	6108 15 9		356						
VL-3Q2.5 15 SW		5123354	6108 16 4		356						
VL-3Q2.5 3 SW		5123118	6108 15 2		356					/pc.	
VL-3Q2.5 5 SW		5123163	6108 15 4		356	WH GRM35 FT	3550/ st / FT	5863014	6016 44 3		278
						WH GRM35 VA4401	3550/ V4A	5863021	6016 44 5		400
VUS 3 FT	/ st / FT	6229154	6018 51 3		169					/m	
VUS 3 FT	/ st / FT	6229154	6018 51 3		333	WKL 2020 FT	2002,5/ st / FT	6174799	6232 02 7		322
VUS 3 VA4301	/ V2A	5706007	6018 51 7		374	WKL 2030 FT	3002,5/ st / FT	6174850	6232 03 5		322
VUS 3 VA4571	/ V4A	5618454	6018 52 0		425	WKL 2040 FT	4002,5/ st / FT	6174911	6232 04 3		322
VUS 5 FT	/ st / FT	6446896	6018 50 5		172	WKL 2050 FT	5002,5/ st / FT	6174973	6232 05 1		322
VUS 5 FT	/ st / FT	6446896	6018 50 5		332	WKL 2060 FT	6002,5/ st / FT	6175031	6232 07 8		322
VUS 7 FT	/ st / FT	6014293	6018 37 8		175						
VUS 7 FT	/ st / FT	6014293	6018 37 8		334	WKLD 2020 DD	2003000/ st / DD	6073450	6232 38 0		325
VUS 7 VA4301	/ V2A	6014354	6018 40 8		378	WKLD 2030 DD	3003000/ st / DD	6073634	6232 38 4		325
						WKLD 2040 DD	4003000/ st / DD	6073696	6232 38 8		325
WAAD 200 DD	200 1,5/ st / DD	6080717	6231 92 2		320	WKLD 2050 DD	5003000/ st / DD	6073757	6232 39 2		325
WAAD 200 FS	200 1,5/ st / FS	6080410	6231 90 0		320	WKLD 2060 DD	6003000/ st / DD	6073993	6232 39 6		325
WAAD 300 DD	300 1,5/ st / DD	6080779	6231 92 6		320						
WAAD 300 FS	300 1,5/ st / FS	6080472	6231 90 4		320	WKLG 1120 FS	2002/ st / FS	6883035	6311 00 8		314
WAAD 400 DD	400 1,5/ st / DD	6080830	6231 93 0		320	WKLG 1120 FT	2002/ st / FT	6883332	6311 05 9		314
WAAD 400 FS	400 1,5/ st / FS	6080533	6231 90 8		320	WKLG 1120 VA4301	2002/ V2A	5037262	6311 20 2		411
WAAD 500 DD	500 1,5/ st / DD	6080892	6231 93 4		320	WKLG 1120 VA4571	2002/ V4A	5403128	6311 22 5		446
WAAD 500 FS	500 1,5/ st / FS	6080595	6231 91 2		320	WKLG 1130 FS	3002/ st / FS	6883097	6311 01 2		314
WAAD 600 DD	600 1,5/ st / DD	6080953	6231 93 8		320	WKLG 1130 FT	3002/ st / FT	6883394	6311 06 3		314

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Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
WKLK 1130 VA4301	3002/ V2A	5037293	6311 20 6	/m	411	WLB 90 114VA4301	400/ V2A	6901999	6312 54 3	/pc.	413
WKLK 1130 VA4571	2/ V4A	5866282	6311 22 7		446	WLB 90 114VA4571	400/ V4A	5910312	6312 55 4		446
WKLK 1140 FS	4002/ ST / FS	6883158	6311 01 6		314	WLB 90 115 FS	500/ ST / FS	6302055	6312 36 5		315
WKLK 1140 FT	4002/ ST / FT	6883455	6311 06 7		314	WLB 90 115 FT	500/ ST / FT	6302352	6312 46 2		315
WKLK 1140 VA4301	4002/ V2A	5037309	6311 21 0		411	WLB 90 115VA4301	500/ V2A	6121274	6312 54 5		413
WKLK 1140 VA4571	4002/ V4A	5403135	6311 22 9		446	WLB 90 115VA4571	500/ V4A	5910329	6312 55 6		446
WKLK 1150 FS	5002/ ST / FS	6883219	6311 02 0		314	WLB 90 116 FS	600/ ST / FS	6302116	6312 37 3		315
WKLK 1150 FT	5002/ ST / FT	6883516	6311 07 1		314	WLB 90 116 FT	600/ ST / FT	6302413	6312 47 0		315
WKLK 1150 VA4301	5002/ V2A	5037316	6311 21 4		411	WLB 90 116VA4301	600/ V2A	6121335	6312 54 7		413
WKLK 1150 VA4571	2/ V4A	5866329	6311 23 1		446	WLB 90 116VA4571	600/ V4A	5910350	6312 55 8		446
WKLK 1160 FS	6002/ ST / FS	6883271	6311 02 4		314	WLB 90 162 FS	200/ ST / FS	6171798	6229 33 6		319
WKLK 1160 FT	6002/ ST / FT	6883578	6311 07 5		314	WLB 90 162 FT	200/ ST / FT	6172092	6229 42 5		319
WKLK 1160 VA4301	6002/ V2A	5037323	6311 21 8		411	WLB 90 162VA4301	200/ V4A	5910084	6229 50 0		447
WKLK 1160 VA4571	6002/ V4A	5403142	6311 23 3		446	WLB 90 163 FS	300/ ST / FS	6171859	6229 34 4		319
WKLK 1620 FS	2002/ ST / FS	6169092	6227 02 3		317	WLB 90 163 FT	300/ ST / FT	6172153	6229 43 3		319
WKLK 1620 FT	2002/ ST / FT	6169399	6227 12 0		317	WLB 90 163VA4571	300/ V4A	5910114	6229 50 2		447
WKLK 1620 VA4571	2002/ V4A	5909965	6227 17 0		447	WLB 90 164 FS	400/ ST / FS	6171910	6229 35 2		319
WKLK 1630 FS	3002/ ST / FS	6169153	6227 03 1		317	WLB 90 164 FT	400/ ST / FT	6172214	6229 44 1		319
WKLK 1630 FT	3002/ ST / FT	6169450	6227 13 9		317	WLB 90 164VA4571	400/ V4A	5910121	6229 50 4		447
WKLK 1630 VA4571	3002/ V4A	5909996	6227 17 2		447	WLB 90 165 FS	500/ ST / FS	6171972	6229 36 0		319
WKLK 1640 FS	4002/ ST / FS	6169214	6227 05 8		317	WLB 90 165 FT	500/ ST / FT	6172276	6229 46 8		319
WKLK 1640 FT	4002/ ST / FT	6169511	6227 14 7		317	WLB 90 165VA4571	500/ V4A	5910138	6229 50 6		447
WKLK 1640 VA4571	4002/ V4A	5910008	6227 17 4		447	WLB 90 166 FS	600/ ST / FS	6172030	6229 37 9		319
WKLK 1650 FS	5002/ ST / FS	6169276	6227 06 6		317	WLB 90 166 FT	600/ ST / FT	6172337	6229 47 6		319
WKLK 1650 FT	5002/ ST / FT	6169573	6227 15 5		317	WLB 90 166VA4571	600/ V4A	5910145	6229 50 8		447
WKLK 1650 VA4571	5002/ V4A	5910015	6227 17 6		447	WLB 90 2020 FT	200/ ST / FT	6176298	6233 42 2		324
WKLK 1660 FS	6002/ ST / FS	6169337	6227 07 4		317	WLB 90 2030 FT	300/ ST / FT	6176359	6233 43 0		324
WKLK 1660 FT	6002/ ST / FT	6169634	6227 16 3		317	WLB 90 2040 FT	400/ ST / FT	6176410	6233 44 9		324
WKLK 1660 VA4571	6002/ V4A	5910022	6227 17 8		447	WLB 90 2050 FT	500/ ST / FT	6176472	6233 45 7		324
						WLB 90 2060 FT	600/ ST / FT	6176533	6233 46 5		324
WKLK 2020 FT	200/ Steel / FT	6176892	6233 72 4	/pc.	324	WLB 90 162 FT	200/ ST / FT	6173891	6230 42 3		319
WKLK 2030 FT	300/ Steel / FT	6176953	6233 73 2		324	WLB 90 163 FT	300/ ST / FT	6174553	6230 73 3		319
WKLK 2040 FT	400/ Steel / FT	6177011	6233 74 0		324	WLB 90 164 FT	400/ ST / FT	6174614	6230 74 1		319
WKLK 2050 FT	500/ Steel / FT	6177073	6233 75 9		324	WLB 90 165 FT	500/ ST / FT	6174676	6230 76 8		319
WKLK 2060 FT	600/ Steel / FT	6177134	6233 76 7		324	WLB 90 166 FT	600/ ST / FT	6174737	6230 77 6		319
WKSJ 120 FS	2002/ ST / FS	6351435	6098 11 1	/m	308	WLB 90 162 FT	200/ ST / FT	6173891	6230 42 3		319
WKSJ 120 FT	2002/ ST / FT	6351732	6098 14 1		308	WLB 90 163 FT	300/ ST / FT	6173952	6230 43 1		319
WKSJ 120 VA 4301	2002/ V2A	5683506	6098 16 1		407	WLB 90 164 FT	400/ ST / FT	6174010	6230 45 8		319
WKSJ 130 FS	3002/ ST / FS	6351497	6098 11 5		308	WLB 90 165 FT	500/ ST / FT	6174072	6230 46 6		319
WKSJ 130 FT	3002/ ST / FT	6370030	6098 14 5		308	WLB 90 166 FT	600/ ST / FT	6174133	6230 47 4		319
WKSJ 130 VA 4301	3002/ V2A	5683513	6098 16 5		407	WLK 1120 FT	200/ ST / FT	6303311	6312 93 4		316
WKSJ 140 FS	4002/ ST / FS	6351558	6098 11 9		308	WLK 1130 FT	300/ ST / FT	6303373	6312 94 2		316
WKSJ 140 FT	4002/ ST / FT	6034277	6098 14 9		308	WLK 1140 FT	400/ ST / FT	6303434	6312 95 0		316
WKSJ 140 VA 4301	4002/ V2A	5683520	6098 16 9		407	WLK 1150 FT	500/ ST / FT	6303496	6312 96 9		316
WKSJ 150 FS	5002/ ST / FS	6351619	6098 12 3		308	WLK 1160 FT	600/ ST / FT	6303557	6312 97 7		316
WKSJ 150 FT	5002/ ST / FT	6034031	6098 15 3		308	WLT 1120 FS	200/ ST / FS	6302475	6312 63 2		316
WKSJ 150 VA 4301	5002/ V2A	5683568	6098 17 3		407	WLT 1120 FT	200/ ST / FT	6302710	6312 71 3		316
WKSJ 160 FS	6002/ ST / FS	6351671	6098 12 7		308	WLT 1120 VA4301	/ V2A	6121397	6312 80 2		413
WKSJ 160 FT	6002/ ST / FT	6033973	6098 15 7		308	WLT 1120 VA4571	200/ V4A	5910367	6312 81 5		446
WKSJ 160 VA 4301	6002/ V2A	5683575	6098 17 7		407	WLT 1130 FS	300/ ST / FS	6302536	6312 64 0		316
WKSJ 162 FS	2002/ ST / FS	6334810	6098 50 1		311	WLT 1130 FT	300/ ST / FT	6302772	6312 72 1		316
WKSJ 162 FT	2002/ ST / FT	6810734	6098 55 0		311	WLT 1130 VA4301	/ V2A	6121458	6312 80 4		413
WKSJ 162 VA 4301	2002/ V2A	5683582	6098 57 1		409	WLT 1130 VA4571	300/ V4A	5910374	6312 81 7		446
WKSJ 163 FS	3002/ ST / FS	6812059	6098 50 5		311	WLT 1140 FS	400/ ST / FS	6302598	6312 65 9		316
WKSJ 163 FT	3002/ ST / FT	6766390	6098 55 4		311	WLT 1140 FT	400/ ST / FT	6302833	6312 74 8		316
WKSJ 163 VA 4301	3002/ V2A	5683599	6098 57 3		409	WLT 1140 VA4301	/ V2A	6121519	6312 80 6		413
WKSJ 164 FS	4002/ ST / FS	6808939	6098 50 9		311	WLT 1140 VA4571	400/ V4A	5910381	6312 81 9		446
WKSJ 164 FT	4002/ ST / FT	6766451	6098 55 8		311	WLT 1150 FS	500/ ST / FS	6304271	6312 66 7		316
WKSJ 164 VA 4301	4002/ V2A	5683605	6098 57 5		409	WLT 1150 FT	500/ ST / FT	6302895	6312 75 1		316
WKSJ 165 FS	5002/ ST / FS	6808397	6098 51 3		311	WLT 1150 VA4301	/ V2A	6121571	6312 80 8		413
WKSJ 165 FT	5002/ ST / FT	6656059	6098 56 2		311	WLT 1150 VA4571	500/ V4A	5910435	6312 82 1		446
WKSJ 165 VA 4301	5002/ V2A	5683612	6098 57 7		409	WLT 1160 FS	600/ ST / FS	6302659	6312 67 5		316
WKSJ 166 FS	6002/ ST / FS	6808335	6098 51 7		311	WLT 1160 FT	600/ ST / FT	6302956	6312 76 4		316
WKSJ 166 FT	6002/ ST / FT	6656295	6098 56 6		311	WLT 1160 VA4301	/ V2A	6783250	6312 81 0		413
WKSJ 166 VA 4301	6002/ V2A	5683629	6098 57 9		409	WLT 1160 VA4571	600/ V4A	5910442	6312 82 3		446
						WLT 1620 FT	200/ ST / FT	6172696	6229 72 7		319
						WLT 1620 VA4571	200/ V4A	5910183	6229 82 0		448
WKV 35 FS	35/ ST / FS	6050116	6043 03 8	/pc.	219	WLT 1630 FT	300/ ST / FT	6172757	6229 73 5		319
WKV 60 FS	60/ ST / FS	6050178	6043 06 2		230	WLT 1630 VA4571	300/ V4A	5910190	6229 82 2		448
						WLT 1640 FT	400/ ST / FT	6172818	6229 74 3		319
WKV 60 FT	60/ ST / FT	6990382	6042 91 0		230	WLT 1640 VA4571	400/ V4A	5910206	6229 82 4		448
						WLT 1650 FT	500/ ST / FT	6172870	6229 75 1		319
WLB 90 112 FS	200/ ST / FS	6301874	6312 33 0		315	WLT 1650 VA4571	500/ V4A	5910237	6229 82 6		448
WLB 90 112 FT	200/ ST / FT	6302178	6312 43 8		315	WLT 1660 FT	600/ ST / FT	6172931	6229 77 8		319
WLB 90 112VA4301	200/ V2A	6121151	6312 53 9		413	WLT 1660 VA4571	600/ V4A	5910244	6229 82 8		448
WLB 90 112VA4571	200/ V4A	5910251	6312 55 0		446	WLT 2020 FT	200/ ST / FT	6176595	6233 62 7		324
WLB 90 113 FS	300/ ST / FS	6301935	6312 34 9		315	WLT 2030 FT	300/ ST / FT	6176656	6233 63 5		324
WLB 90 113 FT	300/ ST / FT	6302239	6312 44 6		315	WLT 2040 FT	400/ ST / FT	6176717	6233 64 3		324
WLB 90 113VA4301	300/ V2A	6121212	6312 54 1		413	WLT 2050 FT	500/ ST / FT	6176779	6233 65 1		324
WLB 90 113VA4571	300/ V4A	5910268	6312 55 2		446	WLT 2060 FT	600/ ST / FT	6176830	6233 67 8		324
WLB 90 114 FS	400/ ST / FS	6301997	6312 35 7		315						
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# Type listing

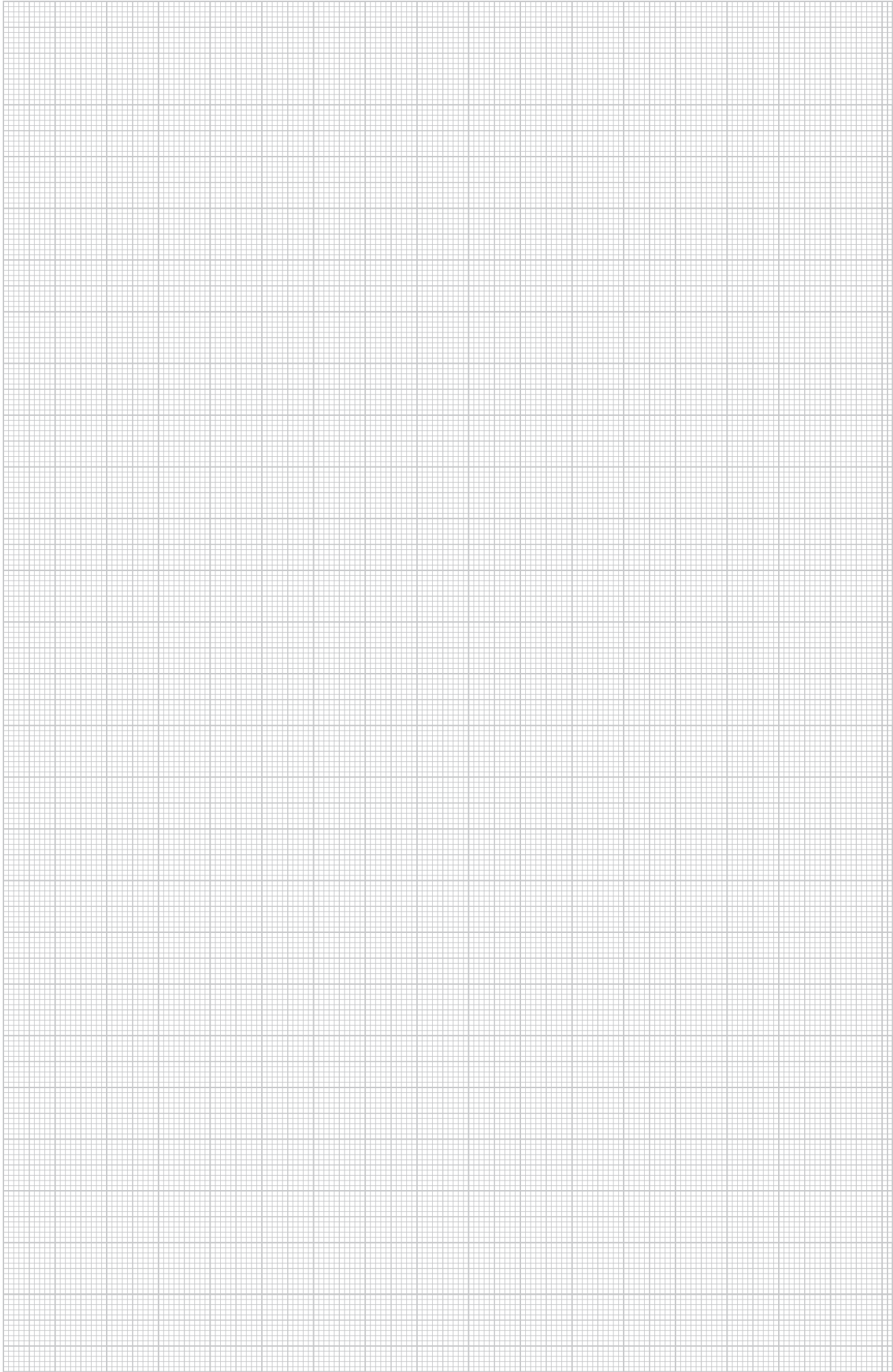
Structure of the GTIN: Country code **40**

Manufacturer code **1219**

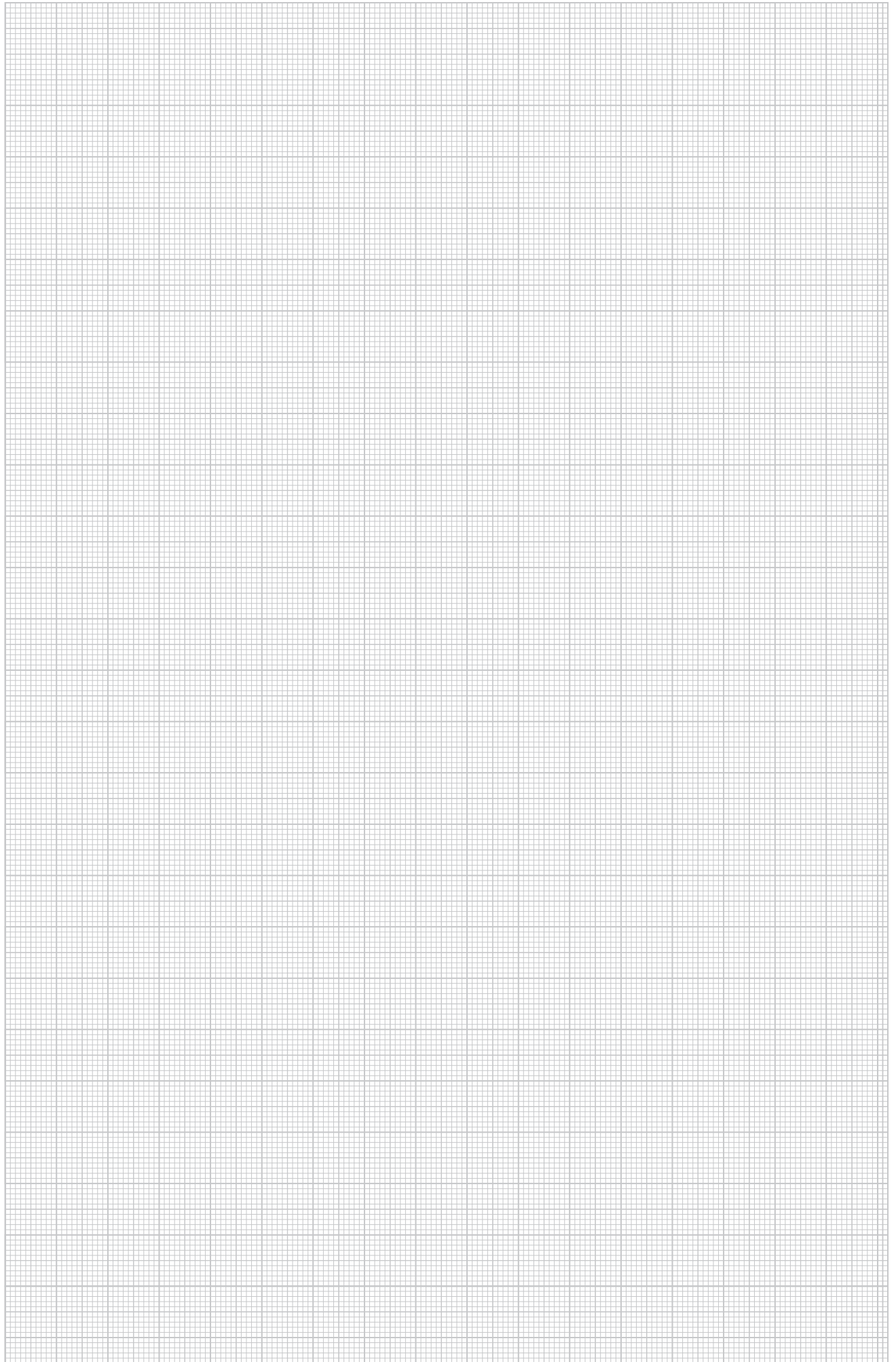
Individual GTIN **5647589**

Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page	Type	Dimensions/Colour/Div.	GTIN	Art. no.	Price	Page
WP 30 35 FT	2000/ ST / FT	6199754	6373 10 0	/pc.	200	WRWV 160 A V2A	160/ V2A	5696353	6227 86 8	/pc.	410
						WRWV 160 I FS	160/ ST / FS	6170951	6227 90 2		311
						WRWV 160 I FS	160/ ST / FS	6170951	6227 90 2		317
WP 40 65 FT	5000/ ST / FT	6199693	6373 07 0	/m	200	WRWV 160 I FT	160/ ST / FT	6171019	6227 91 0		311
WP 40 65 VA4301	5000/ V2A	6199631	6373 06 2		382	WRWV 160 I FT	160/ ST / FT	6171019	6227 91 0		317
						WRWV 160 I V2A	160/ V2A	5696360	6227 91 4		410
						WRWV 200 A FT	200/ ST / FT	6175758	6232 60 4		322
WPK SL OR	Pastel orange/ PE	5668107	6372 89 8	/pc.	200	WRWV 200 I FT	200/ ST / FT	6175819	6232 61 2		322
WPK SL OR	Pastel orange/ PE	5668107	6372 89 8		383	WRWV 200 V FT	200/ ST / FT	6175932	6232 66 3		323
WPK SR OR	Pastel orange/ PE	5668091	6372 88 1		200	WRWVK 110 FS	110/ ST / FS	6309610	6091 37 7		308
WPK SR OR	Pastel orange/ PE	5668091	6372 88 1		383	WRWVK 110 FS	110/ ST / FS	6309610	6091 37 7		314
						WRWVK 110 VA4301	110/ V2A	6309672	6091 39 3		308
WRAA 120 FS	200/ ST / FS	6352395	6098 40 5		309	WRWVK 110 VA4301	110/ V2A	6309672	6091 39 3		314
WRAA 120 FT	200/ ST / FT	6001033	6098 44 5		309	WRWVK 110 VA4301	110/ V2A	6309672	6091 39 3		408
WRAA 130 FS	300/ ST / FS	6352456	6098 40 9		309	WRWVK 110 VA4301	110/ V2A	6309672	6091 39 3		412
WRAA 130 FT	300/ ST / FT	6001095	6098 44 9		309	WRWVK 160 FS	160/ St / FS	5767701	6227 83 2		311
WRAA 140 FS	400/ ST / FS	6352517	6098 41 3		309	WRWVK 160 FS	160/ St / FS	5767701	6227 83 2		317
WRAA 140 FT	400/ ST / FT	6001156	6098 45 3		309	WRWVK 160 VA4301	160/ V2A	5767923	6227 83 6		311
WRAA 150 FS	500/ ST / FS	6352579	6098 41 7		309	WRWVK 160 VA4301	160/ V2A	5767923	6227 83 6		317
WRAA 150 FT	500/ ST / FT	6001217	6098 45 7		309	WRWVK 160 VA4301	160/ V2A	5767923	6227 83 6		410
WRAA 160 FS	600/ ST / FS	6000975	6098 42 1		309						
WRAA 160 FT	600/ ST / FT	6001279	6098 46 1		309	WSK 40 100 FT	954/ ST / FT	6007455	6008 10 0		336
WRAA 162 FS	200/ ST / FS	6656653	6098 80 0		313	WSK 40 110 FT	1054/ ST / FT	6007516	6008 11 9		336
WRAA 162 FT	200/ ST / FT	6335770	6098 82 7		313	WSK 40 120 FT	1154/ ST / FT	6007578	6008 12 7		336
WRAA 163 FS	300/ ST / FS	6656714	6098 80 4		313	WSK 40 40 FT	354/ ST / FT	6007097	6008 04 6		336
WRAA 163 FT	300/ ST / FT	6335831	6098 83 1		313	WSK 40 50 FT	454/ ST / FT	6007158	6008 05 4		336
WRAA 164 FS	400/ ST / FS	6335596	6098 80 8		313	WSK 40 60 FT	554/ ST / FT	6007219	6008 06 2		336
WRAA 164 FT	400/ ST / FT	6335893	6098 83 5		313	WSK 40 70 FT	654/ ST / FT	6007271	6008 07 0		336
WRAA 165 FS	500/ ST / FS	6335657	6098 81 2		313	WSK 40 80 FT	754/ ST / FT	6007332	6008 08 9		336
WRAA 165 FT	500/ ST / FT	6656776	6098 83 9		313	WSK 40 90 FT	854/ ST / FT	6007394	6008 09 7		336
WRAA 166 FS	600/ ST / FS	6335718	6098 81 6		313						
WRAA 166 FT	600/ ST / FT	6657018	6098 84 3		313	WW 100 15 FS	/ ST / FS	6608591	6015 36 0		161
						WW 100 20 FS	/ ST / FS	6608652	6015 37 9		161
WRB 90 120 FS	200/ Steel / FS	6033676	6098 30 4		309						
WRB 90 120 FT	200/ ST / FT	6352159	6098 34 4		309						
WRB 90 130 FS	300/ Steel / FS	6351916	6098 30 8		309	ZSF		5518419	2362 97 0		213
WRB 90 130 FT	300/ ST / FT	6352210	6098 34 8		309						
WRB 90 140 FS	400/ Steel / FS	6351978	6098 31 2		309						
WRB 90 140 FT	400/ ST / FT	6624737	6098 35 2		309						
WRB 90 150 FS	500/ Steel / FS	6352036	6098 31 6		309						
WRB 90 150 FT	500/ ST / FT	6352272	6098 35 6		309						
WRB 90 160 FS	600/ Steel / FS	6352098	6098 32 0		309						
WRB 90 160 FT	600/ ST / FT	6352333	6098 36 0		309						
WRB 90 162 FS	200/ Steel / FS	6335237	6098 70 3		312						
WRB 90 162 FT	200/ ST / FT	6335534	6098 73 0		312						
WRB 90 163 FS	300/ Steel / FS	6335299	6098 70 7		312						
WRB 90 163 FT	300/ ST / FT	6656417	6098 73 4		312						
WRB 90 164 FS	400/ Steel / FS	6335350	6098 71 1		312						
WRB 90 164 FT	400/ ST / FT	6656479	6098 73 8		312						
WRB 90 165 FS	500/ Steel / FS	6335411	6098 71 5		312						
WRB 90 165 FT	500/ ST / FT	6656530	6098 74 2		312						
WRB 90 166 FS	600/ Steel / FS	6335473	6098 71 9		312						
WRB 90 166 FT	600/ ST / FT	6656592	6098 74 6		312						
WRGV 110 FS	110/ ST / FS	6299294	6091 31 8		308						
WRGV 110 FS	110/ ST / FS	6299294	6091 31 8		315						
WRGV 110 FT	110/ ST / FT	6299355	6091 33 4		308						
WRGV 110 FT	110/ ST / FT	6299355	6091 33 4		315						
WRGV 110 VA4301	110/ V2A	6897018	6091 33 8		408						
WRGV 110 VA4301	110/ V2A	6897018	6091 33 8		412						
WRGV 160 FS	160/ ST / FS	6171071	6227 95 3		312						
WRGV 160 FS	160/ ST / FS	6171071	6227 95 3		318						
WRGV 160 FT	160/ ST / FT	6171132	6227 96 1		312						
WRGV 160 FT	160/ ST / FT	6171132	6227 96 1		318						
WRGV 160 VA4301	160/ V2A	5696407	6227 96 5		410						
WRV 200 FT	200/ ST / FT	6175574	6232 50 7		322						
WRVL 110 FS	110/ ST / FS	6299171	6091 16 4		308						
WRVL 110 FS	110/ ST / FS	6299171	6091 16 4		314						
WRVL 110 FT	110/ ST / FT	6299232	6091 18 0		308						
WRVL 110 FT	110/ ST / FT	6299232	6091 18 0		314						
WRVL 110 VA4301	110/ V2A	6901814	6091 22 9		407						
WRVL 110 VA4301	110/ V2A	6901814	6091 22 9		411						
WRVL 110 VA4571	110/ V4A	5403074	6091 23 4		446						
WRVL 160 FS	160/ ST / FS	6170470	6227 70 8		311						
WRVL 160 FS	160/ ST / FS	6170470	6227 70 8		317						
WRVL 160 FT	160/ ST / FT	6170531	6227 71 6		311						
WRVL 160 FT	160/ ST / FT	6170531	6227 71 6		317						
WRVL 160 VA4301	160/ V2A	5684107	6227 72 4		409						
WRVL 160 VA4571	160/ V4A	5910077	6227 73 0		447						
WRWV 160 A FS	160/ ST / FS	6170838	6227 85 6		312						
WRWV 160 A FS	160/ ST / FS	6170838	6227 85 6		318						
WRWV 160 A FT	160/ ST / FT	6170890	6227 86 4		312						
WRWV 160 A FT	160/ ST / FT	6170890	6227 86 4		318						

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**Terms and conditions of sale and delivery**  
of OBO BETTERMANN GmbH & Co. KG, OBO BETTERMANN Projekt und Systemtechnik GmbH  
and OBO Befestigungselemente GmbH, Menden.

1. All our supplies and services shall be governed exclusively by the following terms and conditions, including our additional terms and conditions for cable tray business transactions. Any terms and conditions of business and purchasing of the customer shall be valid only if we have acknowledged them in writing. Our quotations are without engagement; they are mere invitations to submit contract offers. Any and all transactions and agreements, including those entered into by our employees and agents shall only be binding upon our written confirmation or invoicing. The foregoing provision shall also apply to any modifications of the agreed formal requirements.

2. The documents and data pertaining to the quotation, such as illustrations, brochures, drawings, dimensions, loading capacity values and weight details are approximate only, unless they are expressly stipulated to be binding.

Samples are non-binding samples for inspection. Any purchase according to sample will be subject to customary deviations and deviations resulting from normal production processes. The properties of the sample shall be no guaranteed quality of the purchase object unless expressly stated otherwise in the confirmation of order. Samples must be returned to us at the latest within four weeks in perfect condition. If they are not returned within this period in proper condition, we shall be entitled to charge the purchase price for the sample in accordance with our current price list. All information on our products, in particular the illustrations, drawings, weight, dimension and performance data included in our quotations and printed matter shall be regarded as approximate average values and shall not represent any quality guarantee.

With regard to products made according to customer drawings, samples and other instructions of the customer, we will not provide any warranty nor assume any liability for the due and proper functioning of the product or for any other defects if and to the extent they are based upon the customer's specifications. The customer shall indemnify us from any third party claims, including claims for product liability as may be asserted against us for damages resulting from the products unless we have caused such damages by intent or gross negligence. The customer shall warrant that the manufacture and supply of products made in accordance with his instructions will not infringe any proprietary rights of third parties. Should any proprietary rights be asserted against us, we shall be entitled, without any legal review of the third party claims, to withdraw from the contract after hearing the customer, unless the third party withdraws the claims asserted against us under its proprietary rights within eight days by written declaration. The customer shall compensate us for any damage sustained as a result of the assertion of proprietary rights. In case of withdrawal, the work we have carried out so far shall be remunerated. Further rights under the statutory provisions shall not be affected thereby.

Any moulds, tools and design data produced by us for the execution of the order shall be our exclusive property. Unless expressly agreed otherwise, the customer shall not have any claims thereto, even if he has contributed to the costs of producing any such moulds, tools and design data.

3. The packing, shipping route and means of transportation shall be left to our discretion in the absence of any other agreements. They shall be charged at their cost price. We will take back undamaged cases, when being returned carriage paid, at 2/3 of the amount invoiced. The one-way or pool pallets used for transport shall be either exchanged upon taking delivery or returned. The smallest packing units stocked and listed may not be broken up for rationalisation reasons. In case of orders for different quantities, the nearest packing unit will be supplied.

We reserve the right to deviate from the agreed delivery quantity, in particular in the case of custom-made products, to a customary extent or in conformity with national or international standards. In case of a demand for adhering to a precise quantity, an express reference is necessary and subject to confirmation.

Master and call orders shall oblige the customer to accept the total quantity on which the master/call order is based. Where no particular call orders are specified in the contract, the total quantity of the master call order must be called within twelve months. If the customer fails to adhere to call deadlines, we shall be entitled to deliver and charge the total quantity in full after four weeks from written notice with reference to the consequences of any failure to call. Our rights arising from any default of the customer shall not be affected thereby.

4. Unless otherwise agreed, our prices are quoted ex works and do not include packing and insurance. The value added tax at the rate applicable on the date of dispatch will be added to our prices. The purchaser shall ensure the correctness of his VAT identification number, which he must notify to us immediately without being asked. He shall undertake to inform both us and the competent domestic tax authority without delay of any change in his name, address and VAT identification number.

Delivery shall be franco domicile within Germany, i.e. carriage and packing prepaid, if the net order value is in excess of € 1,200. For small orders below € 100 (net excluding value added tax), we shall invoice a lower quantity surcharge of € 10 (net) per order. Upon transfer of our supplies and services to a carrier or forwarding agent, at the latest upon their leaving our warehouse or supply plant, the risk shall pass to the recipient, even in case of deliveries free place of destination.

5. Delivery periods and delivery deadlines shall be approximate only unless we have expressly stated in writing that they are binding. Delivery periods shall commence upon receipt of our confirmation of order, but not before clarification of all execution details, ex place of delivery. The customer shall only be entitled to withdraw from the contract after having granted a reasonable extension of time. We reserve the right to make partial deliveries. Claims for damages and reimbursement of expenses - for any reason whatsoever - shall be subject to the provisions set out in article 10.

In the event of any circumstances that are beyond our control within the scope of normal operating risks and obstruct or make impracticable any delivery, we shall be entitled to suspend delivery by the duration of such obstruction plus a reasonable start-up period or to withdraw from the contract for the part not yet fulfilled. The purchaser can demand a statement from us as to whether we wish to deliver within a reasonable period or withdraw. If we fail to make such a statement, the purchaser may withdraw. Our notice to the purchaser shall be deemed to be sufficient evidence that we have been prevented from delivering.

Delivery time is extended in case of such events as labour disputes, strikes and lockouts, orders from the authorities, difficulties with the procurement of materials, spoiled work or post-processing, shutdowns and staff shortage as well as shortage of means of transport, and general occurrence of unforeseen events beyond our scope of influence, by the length of duration of these events.

6. Payments shall be made upon receipt of invoice less a 3% cash discount for payment within 10 days or net after 30 days from date of invoice. Erection work and all paid labour work must be paid within 10 days without deduction of any cash discount. In case of non-cash payments, the date of the credit note will be deemed to be the date of receipt of payment. Payments received shall always be credited first against costs, then against interest and then against the earliest liability. Cheques and bills of exchange shall only be accepted as means of payment.

Any payment by bill of exchange shall be subject to a prior separate and written agreement, whereby all bill costs shall be borne by the customer and no discount can be granted. The customer shall have no right to refuse performance and no right of retention - for any legal reason whatsoever - unless we have acknowledged his claim beforehand in writing or his claim has the force of law.

The customer shall only be entitled to set off claims which have the force of law, are undisputed or acknowledged by us in writing.

7. We shall retain title to the goods supplied by us until all our claims arising from our business transactions with the customer have been satisfied - current account clause - and all bills of exchange or cheques submitted for payment by the customer have been honoured.

Any treatment or processing of goods subject to our retention of title (reserved goods) shall be carried out for us as the manufacturer in accordance with § 950 BGB (German Civil Code) without any obligation on our part. If our reserved goods are to be regarded as the main item or the main item is owned by the customer, full title to the new item shall pass to us when it is created. In other cases, we shall acquire a co-ownership interest in the new item in the proportion of the sales value of our reserved goods to the other goods used for the new item at the time of processing, intermingling, joining or mixing. The customer shall take custody of our ownership or co-ownership interest free of charge; it shall be treated as reserved goods.

Before transfer of title, our goods shall be neither pledged nor assigned as collateral without our prior consent. In addition, any third party rights or pledges shall be notified to us immediately and we shall be given all details and provided all documents necessary for intervention; otherwise the customer must bear our loss. In the latter case, our total claims against the customer shall also be immediately payable.

The customer shall be entitled to sell or to use our reserved goods in the ordinary course of business subject to the condition that the relevant claims are transferred in accordance with article 8 below. This right shall lapse upon the customer's failure to promptly meet his payment obligations towards us or in the event of any cheque or bill protests or his suspension of payments. In such cases, we shall be entitled to take back the goods provisionally at

the customer's expense and to sell them at our duly exercised discretion after a corresponding reminder has been sent to the customer. We will then pass the due amount to the customer's credit.

8. If our goods are sold before payment of our claim, the customer shall be obliged to retain our title against his purchaser until the goods have been paid for in full by the purchaser. The claim arising against the purchaser from such resale as well as any other ancillary rights or security interests of the customer resulting from the sale and any claims for compensation in case of damage to or destruction of our reserved property, including the relevant insurance sum shall hereby be assigned to us. We hereby accept this assignment. Where our co-ownership interest is sold, the relevant claims shall be assigned in the amount corresponding to the value of our interest.

The customer shall, at our request, inform us of his purchasers, notify them of the assignment made and provide us with any and all documents required to assert our rights.

As long as the customer meets his contractual obligations without delay, he shall be authorised to collect the claims assigned. He shall keep the amounts collected on our behalf separately and remit them to us immediately as soon and as far as our claims become due. The authorisation shall lapse in case of any cheque or bill protest of the customer or his definite suspension of payments. The customer shall bear the costs incurred for any action taken against third parties and shall advance them upon request.

If the security provided to us by the retention of title and the anticipatory assignment should exceed the claims to be secured by more than 20%, we shall, at the customer's request, release paid supplies of our choice. Upon payment of all our claims by the customer, assigned claims shall pass to the customer.

9. Any complaints for obvious defects regarding the quantity or quality of our supplies and services that are identifiable upon careful inspection shall without delay, but at the latest within the period of limitation of eight days from arrival of the goods at the address of the customer or the person appointed by him, be notified in writing to us, not to our representatives. Slight deviations in dimensions and designs within the scope of defined technical tolerances shall not give rise to any right of complaint. Any rejected goods may only be returned to us with our prior written authorisation.

In case of justified complaints within the prescribed period, we shall, at our option, take remedial action by way of subsequent performance, by rectifying the defect, supplying non-defective goods or providing a credit note for the lower value calculated.

We shall be entitled to refuse subsequent performance in accordance with the statutory provisions. If we refuse subsequent performance, if any subsequent performance remains unsuccessful or if the customer cannot be reasonably expected to accept any subsequent performance, the latter shall be entitled to withdraw from the contract in compliance with the provisions of the following sentences. The customer shall only be entitled to withdraw from the contract - where a withdrawal is not excluded by law - upon the unsuccessful expiry of a reasonable period for subsequent performance set by him, unless this period was not required under the statutory provisions (§§ 281 para. 2, 323 para. 2, 440, 441 para. 1 BGB (German Civil Code)).

In case of his withdrawal, the customer shall be liable for any deterioration, destruction or loss of use resulting from any negligence or intent on his part. Any claims for damages or reimbursement of expenses of the customer shall be subject to the provisions set out in article 10.

In the case of any fraudulent concealment of a defect or in the case of any provision of a quality guarantee for the goods sold at the time of the passing of risk within the meaning of § 444 BGB (German Civil Code) (seller's declaration that the object sold has a specific property at the time of the passing of risk and that the seller, regardless of any fault on his part, intends to be answerable for any and all consequences resulting from its absence), the customer's rights shall be exclusively governed by the statutory provisions.

We shall - in addition to the statutory grounds for refusal - also be entitled to refuse subsequent performance if and as long as the customer fails to send us, at our request, the rejected goods or a sample thereof; the customer shall have no right of withdrawal for any such refusal. We may further refuse any subsequent performance if the goods concerned have been altered or modified without our consent unless the customer can prove that the defect was not caused by such alteration or modification.

The limitation period for any claims arising from defects shall be one year; in the case of goods which have been used in accordance with their intended purpose for a building and have caused its defectiveness, the limitation period shall be two years. The provisions of §§ 478, 479 BGB (German Civil Code) on recourse in the chain of suppliers shall not be affected thereby.

10. In the case of a pre-contractual, contractual or non-contractual breach of duty, including unsatisfactory delivery, tortious conduct and producer's liability, we shall only be liable for compensatory damages and reimbursement of expenses - subject to further contractual or statutory liability requirements - in the case of intent, gross negligence or slightly negligent breach of a material contractual duty (contractual duty the infringement of which jeopardises the fulfilment of the object of the contract). However - except in the case of intent - our liability shall be limited to the typical contractual damage that was foreseeable at the time the contract was entered into.

The purchaser shall not be permitted to make a claim for expenses incurred in vain. Except for any breach of material duties, our liability for slight negligence shall be excluded, but in any case be limited to the amount of the purchase price.

Any claim asserted by the customer or a third party for payment of a contractual penalty shall be excluded.

With regard to damages caused by delay, we shall only be liable for slight negligence up to the amount of 5% of the purchase price agreed with us.

The exclusions and limitations of liability set forth above shall not apply in the event that a guarantee is given with respect to the quality of the object sold within the meaning of § 444 BGB (German Civil Code) if a defect is fraudulently concealed or in the event of injury to life, physical injury or injury to health, or strict liability under the German Product Liability Act.

Any and all claims for damages against us, for any legal reason whatsoever, shall become statute-barred at the latest after one year from delivery of the goods to the customer, in the case of tortious liability from the time of knowledge, or grossly negligent ignorance, of the circumstances giving rise to the claim and the person liable to pay damages. This provision shall not apply in the case of liability for intent and in the event that a guarantee is given for the quality of the object sold, in the case of fraudulent concealment of a defect or in the event of injury to life, physical injury or injury to health, or strict liability under the German Product Liability Act. Any shorter limitation periods shall take precedence.

11. We shall be entitled to process and store any customer data obtained with regard to or in connection with the business relationship in accordance with the German Federal Data Protection Act, irrespective of whether such data is provided by the purchaser himself or by any third parties.

12. Place of performance for delivery and payment is Menden/Sauerland. The court of competent jurisdiction for any and all disputes, including disputes with regard to bills of exchange and cheques, is the Local Court (Amtsgericht) of Menden or, at our option, the District Court (Landgericht) of Arnsberg, irrespective of the value of the object in dispute. We shall, however, also be entitled to take legal proceedings against the customer at the place of his registered office.

German law shall be exclusively applicable. The application of international purchase laws is hereby excluded.

Should, for any reason whatsoever, individual provisions of our terms and conditions of sale and delivery be invalid, the validity and binding nature of the other provisions shall not be affected thereby. The customer agrees, that the invalid provision shall be replaced by a valid provision that comes as close as possible to the economic meaning of the invalid provision.

13. The prices of products made of brass and copper are subject to certain fluctuations that are based on the relevant DEL listings. The prices of our brass articles are based on a DEL listing of € 150 for Ms 58, those of our copper products on a DEL value for electrolyte copper of € 200.

In case of any increase or reduction in these prices by more than € 15, a five per cent surcharge or deduction shall be made for each 15 points. The calculation of any such surcharges or deductions shall be based on the DEL listing of the date of our receipt of the order.

Valid from January 2010



#### **QR-Code**

With the QR Code you have direct access to our products on the Internet.

You can find further information on the QR Code at [www.obo-bettermann.com](http://www.obo-bettermann.com).

#### **OBO BETTERMANN GmbH & Co. KG**

P.O. Box 1120  
58694 Menden, Germany

#### **Customer Service Germany**

Tel. +49 (0)2373 891 500  
Fax +49 (0)2373 897 777  
E-mail: [info@obo.de](mailto:info@obo.de)

[www.obo-bettermann.com](http://www.obo-bettermann.com)

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