

Install the future!

Magic PV Solution: Innovative mounting systems for photovoltaic systems





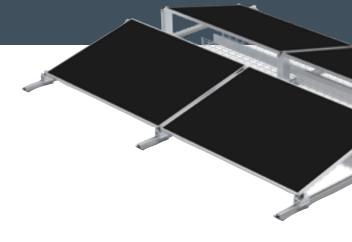
This is how safe solar can be!

With a photovoltaic system, continuous availability is of decisive significance. With OBO, you are always on the (b)right side: This is because we not only offer you a complete system for almost every electrical requirement of a photovoltaic system, but also future-oriented solutions for flexible installations. Leading the way are our innovative mounting systems for pitched roofs, flat roofs and free-standing systems: the Magic PV solution. For more efficiency from A to solar!



The benefits of the Magic PV solution

- Less work: A slim overall portfolio offers a simplified product selection and reduces warehouse storage to a minimum.
- More flexibility: With the Magic PV solution, countless customer-specific solutions and structural implementation options can be implemented.
- More security: Correct installation of all standard PV module dimensions is very simple.
- Versatile: The OBO systems can be adapted to different installation conditions with ease
- More future: Digital planning tools and an innovative product configurator provide support in advising your customers.



Magic PV Pitch Pitched roof systems

Most pitched roof systems are mounted on existing building roofs as so-called on-roof systems. Here, the PV modules are attached to the roof rafters using roof hooks, mounting rails and module clamps made of metal.



- Magic technology: Enables the profiles to be installed without screws or tools, thus saving time.
- Roof hook solution: Can be mounted on all standard pitched roof types and adjusted infinitely and down to the millimetre in all directions at any time.
- Universal clamp: Simultaneously functions as an intermediate or end clamp, covering a clamping range of 30–50 mm. For easy fixing of all standard PV modules.



Fewer components, less work.

The products for flat and pitched roof systems can be combined. This considerably reduces the number of individual components required.





Magic PV Flat flat roof systems

Photovoltaic systems can also be placed on flat roofs. The advantage here is that the PV modules can be mounted independently of a specific roof orientation. With the Magic PV Flat Basic and Magic PV Flat Pro systems, we offer the right solutions. Both systems feature the Magic click connection for screwless and tool-free installation.

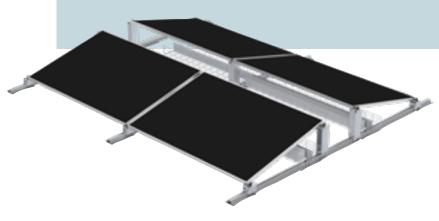


Magic PV Flat Basic

- Integrated system for cable routing and simultaneous ballasting
- Stepless system design thanks to flexible ridge gap
- Slender product portfolio with the greatest possible flexibility

Magic PV Flat Pro

- High-quality material selection and professional cable routing
- Flexible system components
- Uni-Base ballast system for variable weighting of the entire system





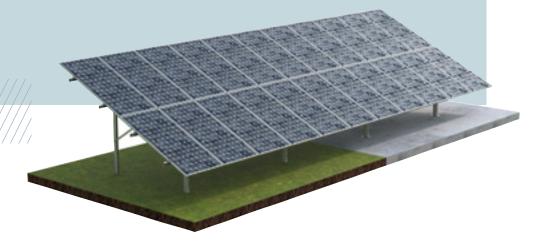


Magic PV Field Free-standing systems

Free-standing photovoltaics means the erection of PV modules on large areas not used for agriculture. Under favourable conditions, these photovoltaic systems can produce increased yields.

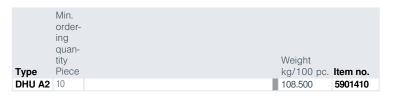


- The highest level of flexibility: Both rammed and anchored versions are available.
- Little installation work: We can offer you system components pre-mounted at the factory.
- Maximum mounting options: The profile with flexible length and perforation allows almost type of mounting. Besides the intended OBO terminals, also using standard fastening materials, such as standard bolts.

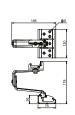




Universal roof hook for PV module mounting, tiled roof



Roof hook to mount photovoltaic modules on pitched roofs in combination with the TP 45 support profile. Suitable for tiled roofs. Lockable fastening on support profile. Mounting on rafters with TKS wafer-head screws. Roof hook can be infinitely adjusted horizontally and vertically using glands, correct spanner Torx 40. Height adjustment in the range of the roof slat between 40–54 mm, side adjustment option up to 76 mm, height adjustment of the support profile up to 18 mm.

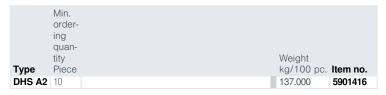




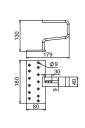
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Heavy roof hooks for PV module mounting, tiled roof



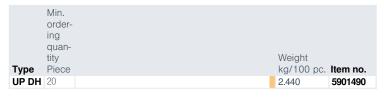
Heavy roof hook to mount photovoltaic modules on pitched roofs in combination with the TP 45 support profile. Suitable for tiled roofs. Fastening on support profile through bolt with hammer nut, type SKSHM A2. Mounting on rafters with TKS wafer-head screws.





PE

CE



Polyethylene support plate for the height compensation of roof hooks, as used during the mounting of PV modules on sloping roofs. Suitable for universal roof hooks and heavy-duty roof hooks. A combination of multiple support plates is possible. Plate thickness max. 2 mm.

183

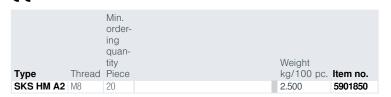
9x14 / 09 / 9x19



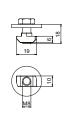
Support plate for ceiling hooks

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Bolt with hammer nut for PV module mounting



Bolt with hammer nut to fasten metal roof plates of make Lehmann to TP 45 support profiles.





Wafer-head screw for roof hooks









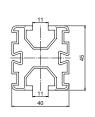
Туре	Length mm	Min. order- ing quan- tity Piece	Weight kg/100 pc.	Item no.
TKS 8x100 A2	100	100	2.377	5901800
TKS 8x120 A2	120	100	2.789	5901802
TKS 8x200 A2	200	50	4.452	5901804

Wafer-head screw for fastening roof hooks to rafters when mounting photovoltaic modules on pitched roofs. Matching Torx 40 key.

Support profile for PV module mounting







Туре	Length mm	Min. order- ing quan- tity Piece	Weight kg/100 pc.	Item no.
TP 45 2350 ALU	2350	4	242.520	5900405
TP 45 4700 ALU	4700	4	485.040	5900410

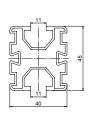
Support profile to mount photovoltaic modules on flat and pitched roofs. Flat roof mounting in combination with UniBase universal stand and STK and STL short and long supports. Lockable fastening of the profile on the stand with UniBase AMP adapter. Pitched roof mounting in combination with universal DHU roof hook. Lockable fastening of the profile on roof hooks. Screwable connection of multiple support profiles with LV 45 straight connectors and KV 45 cross-connectors. With 10 mm groove on both sides to accept slide nuts and universal and earthing clamps.

Support profile for PV module mounting









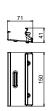
	Length	,	Weight	
Type	mm	Piece	kg/100 pc.	Item no.
TP 45 4700 ALU S	4700	4	485.040	5900412

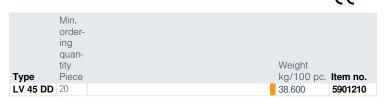
Support profile, black anodised, to mount photovoltaic modules on flat and pitched roofs. Flat roof mounting in combination with UniBase universal stand and STK and STL short and long supports. Lockable fastening of the profile on the stand with UniBase AMP adapter. Pitched roof mounting in combination with universal DHU roof hook. Lockable fastening of the profile on roof hooks. Screwable connection of multiple support profiles with LV 45 straight connectors and KV 45 cross-connectors. With 10 mm groove on both sides to accept slide nuts and universal and earthing clamps.

Straight connector for TP support profile









Straight connector for TP support profiles. Can be screwed on with Torx 30 spanner.



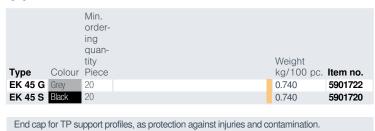
Cross-connector for TP support profiles



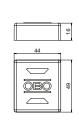




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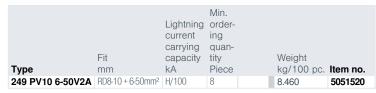






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Earthing terminal for PV mounting systems





- Lightning current-compatible up to 100 kA (10/350)
- Rapid mounting through integrated spring mechanism
- For round conductor fastening RD 8–10
- To fasten single/multi-wire cables: 6-50 mm²
- For profiles with 10 mm groove Meets the requirements of DIN EN 62561-1









Universal clamp for PV module mounting







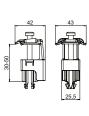
Universal clamp to mount photovoltaic modules on flat and pitched roofs, suitable as a clamp between 2 modules or as an end clamp. Lockable pre-fastening on TP 45 support profile and on STK and STL supports. Suitable for 10 mm slot width. Can be rotated through 90° after engaging. Lockable fastening of the PV module with Torx 30 wrench.

Universal clamp for PV module mounting



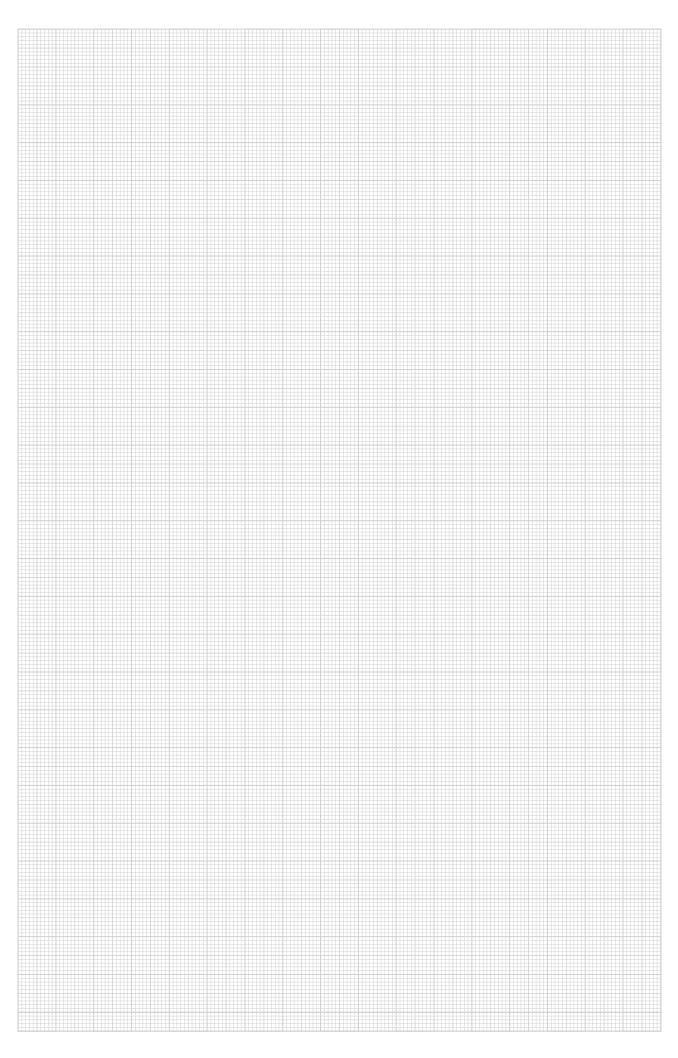






Туре	For frame height mm	Min. order- ing quan- tity Piece	Weight kg/100 pc.	Item no.
KLU A2 S	30-50	20	6.590	5901012

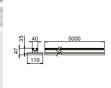
Universal clamp to mount photovoltaic modules on flat and pitched roofs, suitable as a clamp between 2 modules or as an end clamp. Lockable pre-fastening on TP 45 support profile and on STK and STL supports. Suitable for 10 mm slot width. Can be rotated through 90° after engaging. Lockable fastening of the PV module with Torx 30 wrench.



Support profile for PV module mounting, flat roof





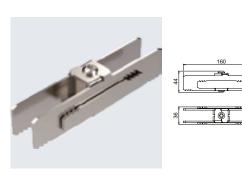


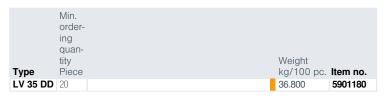


Non-slip support profile for PV module mounting on flat roofs. Basis for installation of short and long supports STK and STL. Screwable connection of multiple support profiles with LV 35 straight connectors.

Straight connector support profile, flat roof







Straight connector for connecting support profiles type TPF 35 for photovoltaic flat roof systems. Fastening with pre-installed M6 screw, screwable with Torx 30 key.

Earthing terminal for PV mounting systems









Туре	Fit mm	Lightning current carrying capacity kA	Min. order- ing quan- tity Piece	Weight kg/100 pc.	Item no.
249 PV10 6-50V2A	RD8-10 + 6-50mm ²	H/100	8	8.460	5051520

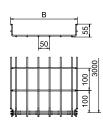
Pre-mounted earthing terminal for the inclusion of PV mounting systems in the equipotential bonding. Suitable for the inclusion of the PV mounting systems in an external lightning protection system.

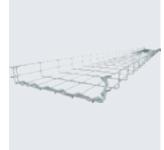
- Lightning current-compatible up to 100 kA (10/350)
- Rapid mounting through integrated spring mechanism
- For round conductor fastening RD 8–10
- To fasten single/multi-wire cables: 6-50 mm²
- For profiles with 10 mm groove
- Meets the requirements of DIN EN 62561-1



Mesh cable tray GR-Magic® 55

		Wire		Min. order- ing quan-		
	Width	Ø	Length	tity	Weight	
Туре	mm	mm	mm	m	kg/100 m	Item no.
GRM 55 200 FT	200	3.9	3000	3	102.000	6001420
GRM 55 300 FT	300	4.8	3000	3	200.667	6001424
GRM 55 400 FT	400	4.8	3000	3	245.000	6001428
GRM 55 500 FT	500	4.8	3000	3	288.333	6001432
GRM 55 600 FT	600	4.8	3000	3	331.333	6001436





Mesh cable tray with shaped connector of side height 55 mm.

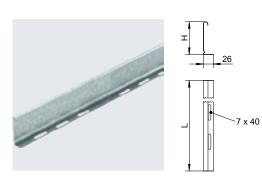
Magnetic shield insulation without cover 15 dB, with cover 25 dB.

You can find detailed information regarding the UL classification in the respective certification.

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50×100 mm (exception: GRM $55/50 = 20 \times 100$ mm).

Barrier strip 45



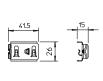


Гуре	Dim. H mm	Metal thick- ness mm		Min. order- ing quan- tity m		Weight kg/100 m	Item no.
TSG 45 DD	45	0.75	3000	3		46.812	6062321
Darriar atria	for con	aration	of cab	les of dit	ferent voltages or functions.		

Clamping piece for separating retainer fastening in GRM







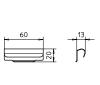
	Min. order- ing quan-	
	tity	Weight
Туре	Piece	kg/100 pc. Item no
KS GR A2	30	0.830 6062282

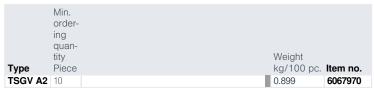
Clamping piece for fastening separating retainer in mesh cable trays.

Separating retainer connector









Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Screw set mesh cable tray, PV mounting system flat roof







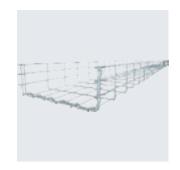


Fastening set for fastening mesh cable trays to support profiles type TPF 35 for PV mounting systems for flat roofs. Consisting of clamping piece, sliding nut and screw.



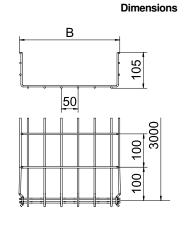
Mesh cable tray GR-Magic® 105

Туре	Width	Wire Ø mm	Min. order- ing quan- tity m	Weight kg/100 m	Item no.
GRM 105 200 FT	200	4.8	3	202.333	6002435
GRM 105 300 FT	300	4.8	3	244.000	6002437
GRM 105 400 FT	400	4.8	3	288.333	6002439
GRM 105 500 FT	500	4.8	3	335.000	6002443
GRM 105 600 FT	600	4.8	3	375.000	6002445



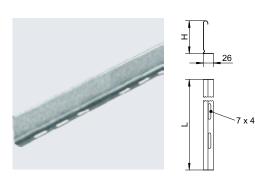
Mesh cable tray with shaped connector of side height 105 mm. Magnetic shield insulation without cover 15 dB, with cover 25 dB. No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50×100 mm.

Туре			Usable cross-section cm ²
GRM 105 200 FT			
GRM 105 300 FT	3000	300	268
GRM 105 400 FT	3000	400	363
GRM 105 500 FT	3000	500	459
GRM 105 600 FT	3000	600	554



Barrier strip 85



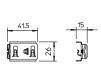


Туре	Dim. H mm	Metal thick- ness mm	Dim. L mm	Min. order- ing quan- tity m		Weight kg/100 m	Item no.
TSG 85 DD	85	0.75	3000	3		70.300	6062331
Barrier strip	for sep	aration	of cab	les of dit	ferent voltages or functions.		

Clamping piece for separating retainer fastening in GRM







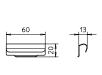
	Min. order- ing quan-	Weight	
Туре	tity Piece		c. Item no.
KS GR A2	30	0.830	6062282

Clamping piece for fastening separating retainer in mesh cable trays.

Separating retainer connector









Separating retainer connector for screwless connection of the TSG separating retainer in all side heights.

Screw set mesh cable tray, PV mounting system flat roof

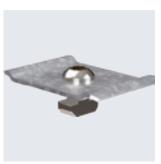
Min. ordering quantity

Piece

BF GR 20





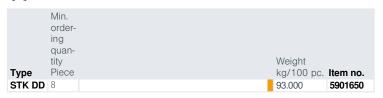




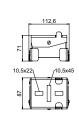
Fastening set for fastening mesh cable trays to support profiles type TPF 35 for PV mounting systems for flat roofs. Consisting of clamping piece, sliding nut and screw.



Short support for PV module mounting, flat roof



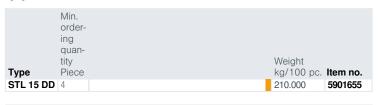
Short support to mount photovoltaic modules on flat roofs in combination with the TP 45/4700 support profile and KLU universal clamp. Slope angle 15°. Lockable fastening on support profile.



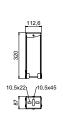




Long support for PV module mounting, flat roof



Long support to mount photovoltaic modules on flat roofs in combination with the TP 45/4700 support profile and KLU universal clamp. Slope angle $15\,^\circ$. Lockable fastening on support profile.

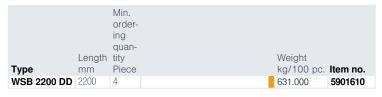




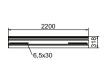
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Wind protection panel for photovoltaic systems



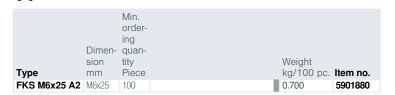
Wind protection panel for use with photovoltaic systems with south alignment and standard inclinations of 15°. As protection against wind loads during extreme wind conditions. Lockable and screwable fastening to STL 15 long support.





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Flat-head screw for wind protection plate



Flat-head screw with hexalobular internal to fasten wind protection plates to the STL 15 long support of the photovoltaic mounting systems for flat roofs. Matching Torx 30 key.

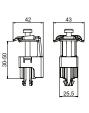




Universal clamp for PV module mounting







Туре	For frame height mm	Min. order- ing quan- tity Piece	Weight kg/100 pc.	Item no.
KLU A2	30-50	20	6.590	5901010

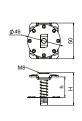
Universal clamp to mount photovoltaic modules on flat and pitched roofs, suitable as a clamp between 2 modules or as an end clamp. Lockable pre-fastening on TP 45 support profile and on STK and STL supports. Suitable for 10 mm slot width. Can be rotated through 90° after engaging. Lockable fastening of the PV module with Torx 30 wrench.

Intermediate clamp with spring for PV module mounting

A2







Туре	For frame height mm	Min. order- ing quan- tity Piece	Weight kg/100 pc.	Item no.
KLZ F 30 A2	30	50	6.330	5901063
KLZ F 25 A2	25	50	6.150	5901062
KLZ F 35 A2	35	50	6.620	5901064
KLZ F 40 A2	40	50	6.720	5901065

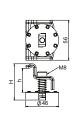
Intermediate clamp with spring for fastening photovoltaic modules on support profiles. Suitable for slot width 10 mm. Lockable fastening of the PV module with Allen key size 6.

End clamp with spring for PV module mounting



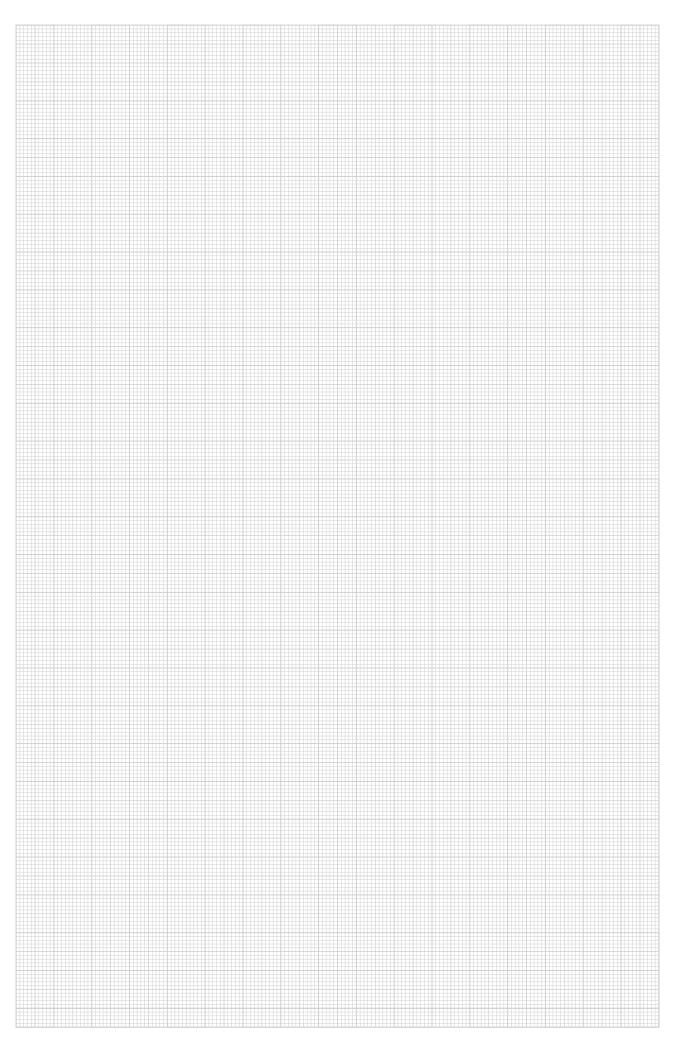






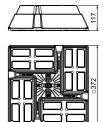
Type KLE F 30 A2 KLE F 25 A2	Min. order- ing quan- tity Piece 50 50	Weight kg/100 pc. 8.210 7.850	Item no. 5901093 5901092
KLE F 35 A2 KLE F 40 A2	50 50	8.770 9.620	5901094 5901095

End clamp with spring for fastening photovoltaic modules on support profiles. Suitable for slot width 10 mm. Lockable fastening of the PV module with Allen key size 6.



UniBase universal stand



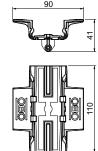


Туре	Length mm		Height mm		Min. order- ing quan- tity Piece	Weight kg/100 pc.	Item no.
UniBase 10	372	372	117	5	8	91.500	5403393

Universal stand for ballasting with standard blocks up to a dimension of 200 x 100 x 100 mm. Can be used on flat roofs, e.g. for mounting PV mounting systems or for cable routing with cable trays or with mesh cable trays in conjunction with roof cable holder 165 MBG HGRM. Blocks not contained in the scope of delivery.

Adapter for TP 45 support profile





Туре	Min. order- ing quan- tity Piece	Weight kg/100 pc.	Item no.
UniBase TMP	16	4.200	5403397

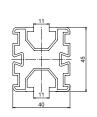
Adapter for TP 45 support profile, for mounting on UniBase universal stand. Toolless mounting through snapping. With side holes for optional screwing. Toolless mounting and dismantling of the support profile possible. With non-slip support surface.

Support profile for PV module mounting



ASA





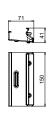
order- ing quan- Length tity Type mm Piece	Weight kg/100 pc.	Item no.
TP 45 2350 ALU 2350 4	242.520	5900405
TP 45 4700 ALU 4700 4	485.040	5900410

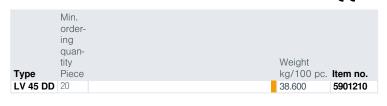
Support profile to mount photovoltaic modules on flat and pitched roofs. Flat roof mounting in combination with UniBase universal stand and STK and STL short and long supports. Lockable fastening of the profile on the stand with UniBase AMP adapter. Pitched roof mounting in combination with universal DHU roof hook. Lockable fastening of the profile on roof hooks. Screwable connection of multiple support profiles with LV 45 straight connectors and KV 45 cross-connectors. With 10 mm groove on both sides to accept slide nuts and universal and earthing clamps.

Straight connector for TP support profile









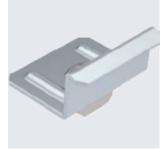
Straight connector for TP support profiles. Can be screwed on with Torx 30 spanner.



Cross-connector for TP support profiles



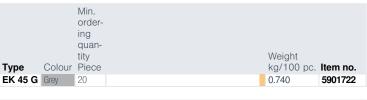




Support profile end cap

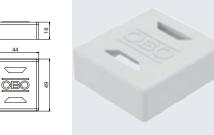
PE

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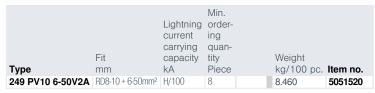
End cap for TP support profiles, as protection against injuries and contamination.





A2

Earthing terminal for PV mounting systems



Pre-mounted earthing terminal for the inclusion of PV mounting systems in the equipotential bonding. Suitable for the inclusion of the PV mounting systems in an external lightning protection system.

- Lightning current-compatible up to 100 kA (10/350)
- Rapid mounting through integrated spring mechanism
- For round conductor fastening RD 8–10
- To fasten single/multi-wire cables: 6-50 mm²
- For profiles with 10 mm groove Meets the requirements of DIN EN 62561-1

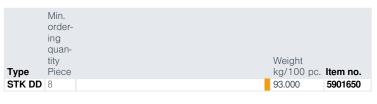




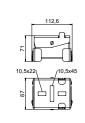




Short support for PV module mounting, flat roof



Short support to mount photovoltaic modules on flat roofs in combination with the TP 45/4700 support profile and KLU universal clamp. Slope angle 15°. Lockable fastening on support profile.

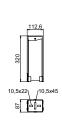




Long support for PV module mounting, flat roof





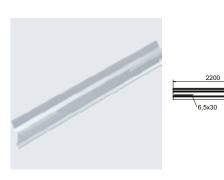


Туре	Min. order- ing quan- tity Piece	Weight	c. Item no.
STL 15 DD	4	210.000	5901655

Long support to mount photovoltaic modules on flat roofs in combination with the TP 45/4700 support profile and KLU universal clamp. Slope angle $15^\circ.$ Lockable fastening on support profile.

Wind protection panel for photovoltaic systems







Wind protection panel for use with photovoltaic systems with south alignment and standard inclinations of 15°. As protection against wind loads during extreme wind conditions. Lockable and screwable fastening to STL 15 long support.

Flat-head screw for wind protection plate









		Min. order- ing		
	Dimen-	quan-		
	sion	tity	Weight	
Туре	mm	Piece	kg/100 pc.	Item no.
FKS M6x25 A2	M6x25	100	0.700	5901880

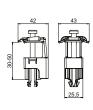
Flat-head screw with hexalobular internal to fasten wind protection plates to the STL 15 long support of the photovoltaic mounting systems for flat roofs. Matching Torx 30 key.

Universal clamp for PV module mounting









Туре	For frame height	Min. order- ing quan- tity Piece	Weight kg/100 pc.	Item no.
KLU A2	30-50	20	6.590	5901010

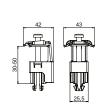
Universal clamp to mount photovoltaic modules on flat and pitched roofs, suitable as a clamp between 2 modules or as an end clamp. Lockable pre-fastening on TP 45 support profile and on STK and STL supports. Suitable for 10 mm slot width. Can be rotated through 90° after engaging. Lockable fastening of the PV module with Torx 30 wrench.



Universal clamp for PV module mounting

Type	For frame height	Min. order- ing quan- tity Piece	Weight	Item no
Type	mm	Piece	kg/100 pc.	Item no.
KLU A2 S	30-50	20	6.590	5901012

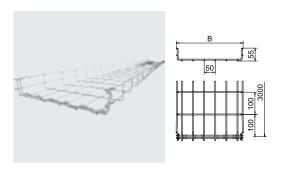
Universal clamp to mount photovoltaic modules on flat and pitched roofs, suitable as a clamp between 2 modules or as an end clamp. Lockable pre-fastening on TP 45 support profile and on STK and STL supports. Suitable for 10 mm slot width. Can be rotated through 90° after engaging. Lockable fastening of the PV module with Torx 30 wrench.





Mesh cable tray GR-Magic® 55





	Width	Wire Ø	Length	Min. order- ing quan- tity	Weight	
Туре	mm	mm	mm	m	kg/100 m	Item no.
GRM 55 50 FT	50	3.9	3000	3	72.333	6001415
GRM 55 100 FT	100	3.9	3000	3	74.667	6001416
GRM 55 150 FT	150	3.9	3000	3	90.000	6001418
GRM 55 200 FT	200	3.9	3000	3	102.000	6001420
GRM 55 200 4.8FT	200	4.8	3000	3	156.667	6001421
GRM 55 300 FT	300	4.8	3000	3	200.667	6001424
GRM 55 400 FT	400	4.8	3000	3	245.000	6001428
GRM 55 500 FT	500	4.8	3000	3	288.333	6001432
GRM 55 600 FT	600	4.8	3000	3	331.333	6001436

Mesh cable tray with shaped connector of side height 55 mm.

Magnetic shield insulation without cover 15 dB, with cover 25 dB.

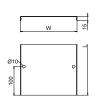
You can find detailed information regarding the UL classification in the respective certification

No additional connection components are required for the mesh cable tray, it is simply interlocked. The grid width is 50×100 mm (exception: GRM $55/50 = 20 \times 100$ mm).

Cover for mesh cable tray, latchable







	Width	,		Weight	
Туре	mm	m	_	kg/100 m	
DGRR 50 FT	50	3		52.333	6001820
DGRR 100 FT	98	3		83.000	6001822
DGRR 150 FT	148	3		116.333	6001824
DGRR 200 FT	198	3		149.667	6001826
DGRR 300 FT	298	3		216.333	6001828
DGRR 400 FT	398	3		282.667	6001830
DGRR 500 FT	498	3		349.667	6001832
DGRR 600 FT	598	3		418.000	6001834

With transverse bead from 400 mm width.

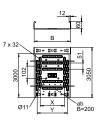
Lockable cover for mesh cable trays of type GR and GRM. Protects cables from damage, contamination and moisture from above. Suitable for industrial areas such as mechanical engineering

When using covers outdoors, additional measures against the influence of wind may need to be taken.

Cable tray RKS-Magic® 60







	Width	Metal thick- ness		Min. order- ing quan- tity	Weight	
Туре	mm	mm	BS	m	kg/100 m	Item no.
RKSM 610 FT	100	1.00	*	3	197.410	6047612
RKSM 615 FT	150	1.00	*	3	236.984	6047631
RKSM 620 FT	200	1.00	*	3	251.115	6047639
RKSM 630 FT	300	1.00	8	3	356.295	6047655
RKSM 640 FT	400	1.00	è	3	437.180	6047690
RKSM 650 FT	500	1.00		3	518.295	6047720
RKSM 660 FT	600	1.00		3	599.443	6047736

Cable tray with integrated quick fastening system. The usable length of the cable tray is $3,000 \ \text{mm}$.

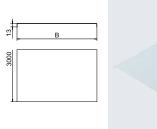
The cable tray has continuous side perforations of 7×20 mm for the installation of additional connection and mounting components.

The perforation for direct threaded rod suspension has a diameter of 11 mm.



Unperforated cover







Cover for cable trays and mesh cable trays.

When using covers outdoors, additional measures against the influence of wind must be taken.

Transverse bead from 500 mm width.

A2 2B

CE

Min. ordering quantity Type Piece DK DRLU A2 30 Min. Pack Weight Piece kg/100 pc. Item no. Item no. 8 30 0.842 6052810

Cover clamp for secure fastening of covers on cable trays and cable ladders. At least 6 cover clamps should be mounted for each 3 metres of cover.





Cover clamp

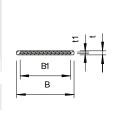
A2 K

ϵ

	Avg. breaking load		Dim. B	Dim.	Dim. B1	Min. order- ing quan- tity	Pack	Weight		
Type	kN	Colour	mm	mm	mm	m	m	kg/100 m	Item no.	
SBR 8 A2K	1.16	Jet black	9.3	1	8	40	40	1.704	6490192	

Tightening strap made of rustproof steel with plastic jacketing to fasten cables on cable support systems.

SBR 8 tightening strap



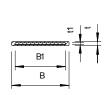


A2 K

CE

Туре	Avg. breaking load kN	Colour		Pack m	Weight kg/100 m	Item no.
SBR 15 A2K	4.19	Jet black	25	25	7.628	6490282

Tightening strap made of rustproof steel with plastic jacketing to fasten cables on cable support systems.





SBR 15 tightening strap

SBV 8 tightening strap lock









Туре	Colour	Min. order- ing quan- tity Piece		Weight kg/100 pc.	Item no.
SBV 8 A2	stainless steel	100	100	0.250	6490942

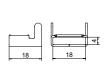
Tightening strap lock made of rustproof steel, suitable for portfolio with 8 mm width.

SBV 15 tightening strap lock

A2 2







Туре	Colour	Min. order- ing quan- tity Piece		Weight kg/100 pc.	Item no.
SBV 15 A2	stainless steel	100	100	0.564	6490964

Tightening strap lock made of rustproof steel, suitable for a range of products with a 15 mm width.

Metal strip clips, wide





Type MBS 075 A2	Length mm	Width mm	Min. order- ing quan- tity Piece 25	Weight kg/100 pc.	Item no. 7203109
MBS 100 A2 MBS 120 A2		12 12	25 25	2.550 3.000	7203111 7203113
MBS 150 A2	1500	12	25	3.670	7203115

Metal strip clips, narrow





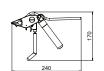
Туре	Length	Width	Min. order- ing quan- tity Piece	Weight kg/100 pc.	ltem no.
MBS 015 A2	150	7.9	100	0.380	7203099
MBS 030 A2	300	7.9	100	0.610	7203103
MBS 045 A2	450	7.9	50	0.820	7203105
MBS 061 A2	610	7.9	50	1.080	7203107



Spring chuck

Туре	Item no.
576	6498027

Clamping tool for all OBO tightening straps in conjunction with appropriate tightening strap locks. With high clamping force, ratchet function, shortening unit and round grips for pleasant handling.





St

Туре	Item no.
MBS-Z	7203120
	_

High-quality spring chuck with cutting tool for metal strip clips, type MBS.

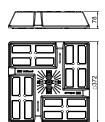
Pliers for metal strip clips



UniBase universal stand

Туре	Length mm	Width mm	Height mm		Min. order- ing quan- tity Piece	Weight kg/100 pc.	Item no.
UniBase 6	372	372	78	5	16	81.000	5403391

Universal stand for ballasting with standard blocks up to a dimension of $200 \times 100 \times 100$ mm. Can be used on flat roofs, e.g. for mounting PV mounting systems or for cable routing with cable trays or with mesh cable trays in conjunction with roof cable holder 165 MBG HGRM. Blocks not contained in the scope of delivery.

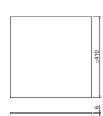




Building protection mat, flat roof

Туре	Length mm	Width	Height mm	Min. order- ing quan- tity Piece	Weight kg/100 pc.	Item no.
UniBase BSM	410	410	6	16	14.000	5403402
UniBase BSM ALU	410	410	6	16	14.000	5403404

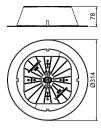
Building protection mat as an underlay under stands of type UniBase 6 + UniBase 10 for flat roof PV mounting systems, as protection of the roof seal on flat roofs according to DIN 18531. Also suitable for height compensation of the PV mounting system. Made of recycled material; depending on the version, also available with aluminium lining.





UniBase universal stand for gluing





Type	Dim. D Ø mm	Height mm		,	Weight kg/100 pc.	Item no.
UniBase Glue	314	78	5	16	39.400	5403395

Universal stand for gluing on flat roofs. Can be used for routing cables with cable trays or mesh cable trays in conjunction with 165 MBG HGRM roof conductor holders. Gluing collar must be selected according to the substrate.

Mesh cable tray adapter for roof conductor holder



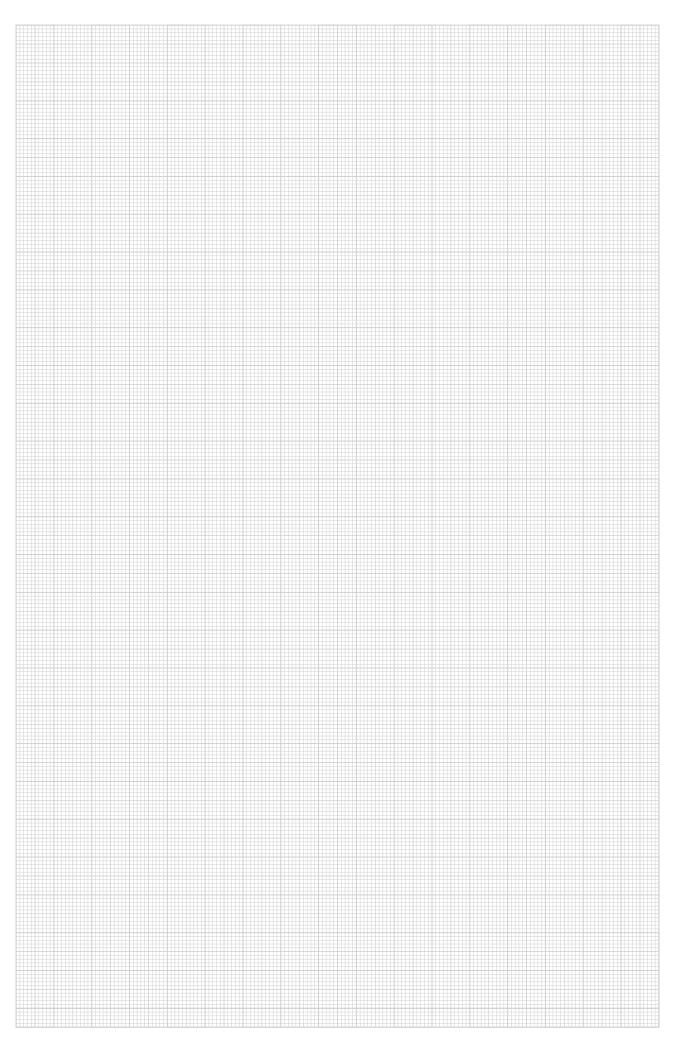
ASA





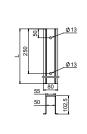


- Adapter for GR-Magic® mesh cable trays with a mesh width of 50 mm or 20 mm
- For fastening to type 165 MBG 8-10 and UniBase
- Mounting without tools
- From polypropylene, black, UV-resistant and weatherproof
 Toolless installation



Ramming pile, free-standing system





Туре	Length mm	Min. order- ing quan- tity Piece		Weight	Item no.
RP 1800 FT	1800	1	9	970.000	5900106
RP 2300 FT	2300	1	1	1,240.000	5900110

Ramming pile as a bracket for pre-mounted supports to mount free-standing photovoltaic systems. Mounting in the earth through ramming.

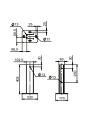
Stand, free-standing system

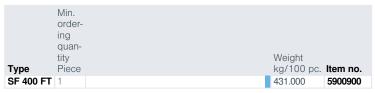




FT







Stand as a bracket for pre-mounted supports to mount free-standing PV systems. Mounting on concrete foundations with M16 bolt ties. Fastening material must be ordered separately.

Pre-mounted supports for PV module mounting, free-standing system







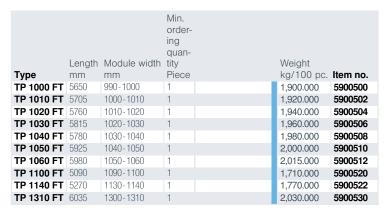


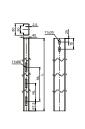
Type	Angle α	Dim. H mm	Dim. L mm	Dim. I mm	Module height mm	Min. order- ing quan- tity Piece	Weight kg/100 pc.	Item no.
VT 10S FT	10	1.38	2.71	2.27	1600 - 1850		2.900.000	5901550
VT 10M FT	10	1.41	3.12	2.27	1850-2100	1	3,150.000	5901552
VT 10L FT	10	1.45	3.49	2.27	2100-2400	1	3,350.000	5901554
VT 25S FT	25	2.00	2.52	2.09	1600 - 1850	1	3,250.000	5901556
VT 25M FT	25	2.09	2.90	2.09	1850-2100	1	3,450.000	5901558
VT 25L FT	25	2.16	3.24	2.09	2100-2400	1	3,650.000	5901560
VT 30S FT	30	2.19	2.41	1.99	1600 - 1850	1	3,350.000	5901562
VT 30M FT	30	2.29	2.78	1.99	1850-2100	1	3,550.000	5901564
VT 30L FT	30	2.29	2.78	1.99	1850-2100	1	3,750.000	5901566

Pre-mounted support in small, medium or large size to mount free-standing photovoltaic systems in combination with support profiles and end/connection clamps. Mounting with ramming piles in the earth or with stands on concrete foundations.



Support profile for PV module mounting, free-standing system



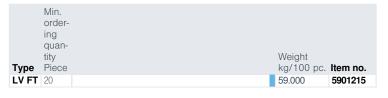




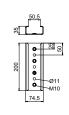
Support profile to mount photovoltaic modules on free-standing systems. Mounting of support profile on pre-mounted supports with KV FT cross-connectors. Mounting of the PV modules on the support profile with end and/or connection clamps. Connection of multiple support profiles with LV FT straight connectors and KV FT cross-connectors, screw-on.



Straight connector for support profiles, free-standing system



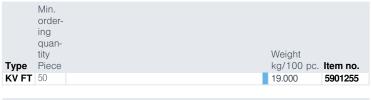
Straight connector to connect support profiles for free-standing photovoltaic systems. Fastening with pre-installed M6 screw, screw-on with Torx 30 wrench.



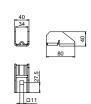


St FT

Cross-connector for TP support profiles, free-standing system



Cross-connector to connect support profiles for free-standing photovoltaic systems. Fastening with pre-installed M8 screw, screw-on with Torx 40 wrench.



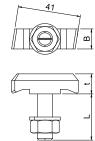


Hook-head screw









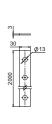
Туре	Min. order- ing quan- tity Piece	Weight kg/100 pc.	Item no.
MS50HB M12x30 A4	50	9.000	1148276
MS50HB M12x60 A4	25	11.650	1148280
		_	

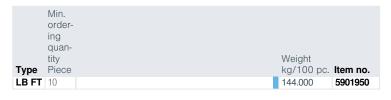
Hook-head screw for use with MS5030 profile rail

Perforated strip for PV free-standing system







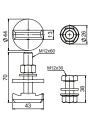


Perforated strip for cross-connecting the rear supports of pre-mounted supports type VT 10/25/30. For stiffening PV mounting systems free-standing. Fastening with screw set for perforated strip type SVLB. Fastening material not included in scope of delivery.

Screw set for perforated strip





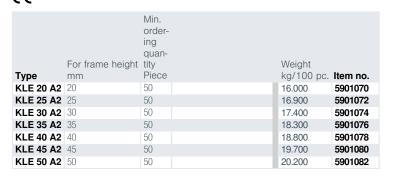


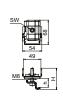
	Min. order-		
	ing		
	quan-		
	tity	Weight	
Type	Piece	kg/100 pc.	Item no.
SVLB	1	23.800	5901960

Screw set consisting of hexagon head screws M12, hexagon nuts with flange M12, hook-head screw and washers, for fastening perforated strips type LB FT to support profiles of the PV mounting system free-standing.



End clamp for PV module mounting, free-standing system



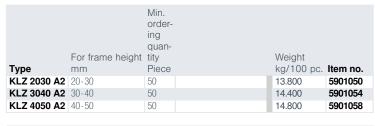


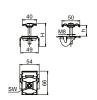


End clamp for fastening photovoltaic modules on support profiles of free-standing systems. Lockable pre-fastening of the module frames on the support profile. Suitable for slot width 10 mm. Lockable fastening of the PV module with Torx 30 wrench.



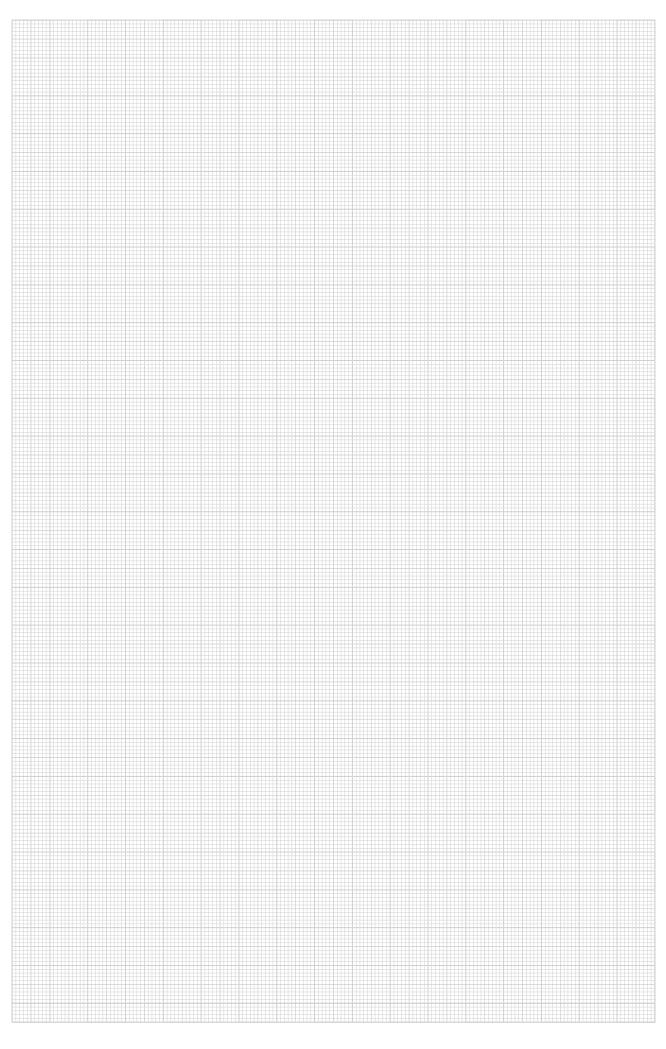
Intermediate clamp for PV module mounting, free-standing system







Connection clamp for fastening photovoltaic modules on support profiles of free-standing systems. Lockable pre-fastening of the module frames on the support profile. Suitable for slot width 10 mm. Lockable fastening of the PV module with Torx 30 wrench.



You can find additional information on the OBO Magic PV Solution mounting systems at **obo.eu/photovoltaik**

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