

JA Solar 450W N-type Bifacial Double Glass Traceable LB All Black with MC4



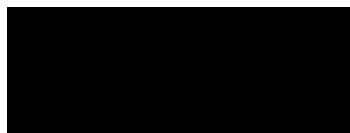
16/02/2026



- 450W
- Efficiency: 22.3%
- Width: 1,134mm
- Height: 1,762mm

Quick Find: **24175**

Part Code: **JAM54D-41-450-LB-TS-AB-MC4**



Powered by the latest MBB n-type solar cell and half-cell configuration, these modules have higher output power, lower LID, better weak illumination response and better temperature coefficient.

Features:

- Higher power generation better LCOE
- Better weak illumination response
- N-type with very lower LID
- Better Temperature Coefficient

Warranty:

- 25-year product warranty
- 30-year linear power output warranty

Specifications

Brand	JA Solar
Cell Type	Monocrystalline
Connection Type	MC4
Dimensions	1762 x 1134 x 30 mm
Frame	Black
Glass	1.6mm/1.6mm
IP Rating	IP68
Maximum Power	450
Module Efficiency (%)	22.5
Operating Temperature	-40°C to 85°C



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Technology

BiFacial

Wattage

450 W

Price list

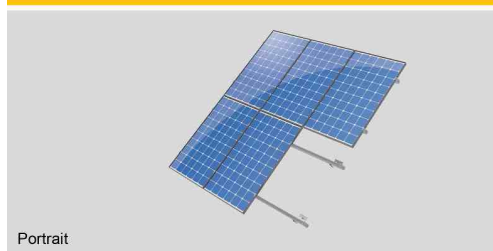
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ValkPitched Slimline - roof hooks

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
729530T	Alu. Slimline dakhaak (Twist for portrait)	0,207	20	€ 4,47 £ 4,02	
729531	Alu Slimline roof hook 40-50mm - Twist + hammerhead bolt + flange nut	0,208	20	€ 4,46 £ 4,01	
729540T	Alu. Slimline roof hook- Adjustable (Twist for portrait)	0,287	20	€ 6,78 £ 6,10	
729541	Alu Slimline roof hook 35-59mm - Adjustable twist + hammerhead bolt + flange nut	0,288	20	€ 7,11 £ 6,40	

Smartline

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
739003	Plastic shim 3mm for Smartline roof hook	0,004	750	€ 0,18 £ 0,12	
747831	Ss Smartline roof hook + hammerhead bolt + flange nut	0,377	40	€ 5,77 £ 5,19	
747832	Ss Smartline roof hook - twist + hammerhead bolt + flange nut	0,377	30	€ 6,36 £ 5,72	

ValkPitched Strongline - roof hooks

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
747844	Ss Strongline roof hook - 3x adjustable + hammerhead bolt + flange nut	0,734	30	€ 10,10 £ 9,09	
747845	Ss Strongline roof hook - 3x adjustable - twist + hammerhead bolt + flange nut	0,734	30	€ 11,46 £ 10,31	

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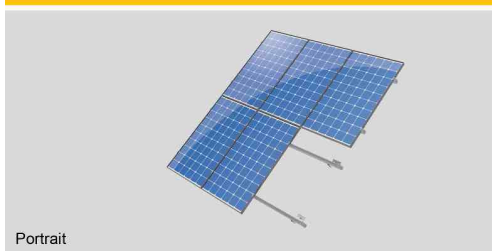
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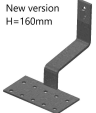
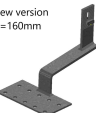


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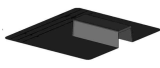
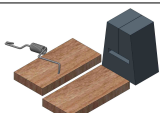
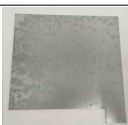
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Strongline Heavy Duty

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
739004	Plastic shim 3mm for Strongline Heavy Duty roof hook	0,022	125	€ 0,51 £ 0,36	
747838	Galv. Strongline Heavy Duty roof hook + hammerhead bolt + flange nut	0,765	25	€ 7,75 £ 6,98	New version H=160mm 
747839	Galv. Strongline Heavy Duty roof hook - twist + hammerhead bolt + flange nut	1,040	25	€ 9,92 £ 8,93	New version H=160mm 

SpeedFlash®

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
747775	Speedflash for slate roof hook	0,245	20	€ 20,00 £ 18,00	
747776	Speedflash mounting material	0,644	20	€ 20,50 £ 18,45	
747779	SpeedFlash Shield - One-off purchase application tool for installation of Speedflash	0,236	48	€ 3,50 £ 3,15	
747869	ValkPitched - Slate roof hook - Speed	0,390	50	€ 8,86 £ 7,98	
747870	ValkPitched - Slate roof hook - Speed twist	0,430	40	€ 9,59 £ 8,63	

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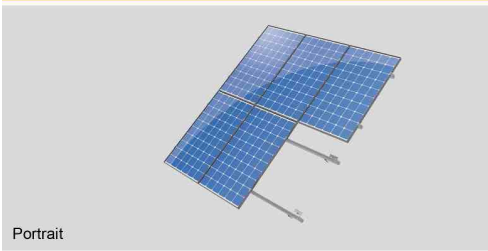
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ValkPitched - roof hooks for plain tiles

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
747867	Ss plain tile roof hook + hammerhead bolt + flange nut	0,425	40	€ 9,09 £ 8,18	
747868	Ss plain tile roof hook - twist + hammerhead bolt + flange nut	0,467	40	€ 10,37 £ 9,33	

ValkPitched - roof hooks for bitumen roofs

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
747879	Ss bitumen roof hook + hammerhead bolt + flange nut	0,370	50	€ 5,80 £ 5,22	
747884	Ss bitumen roof hook - twist + hammerhead bolt + flange nut	0,414	50	€ 7,77 £ 6,99	

Wooden shingles

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
75400730	Construction wood 18x95 L=730mm - impregnated	0,832	250	€ 3,12 £ 2,81	
75404500	Construction wood 18x95 L=4500mm - impregnated	5,130	264	€ 21,78 £ 19,60	

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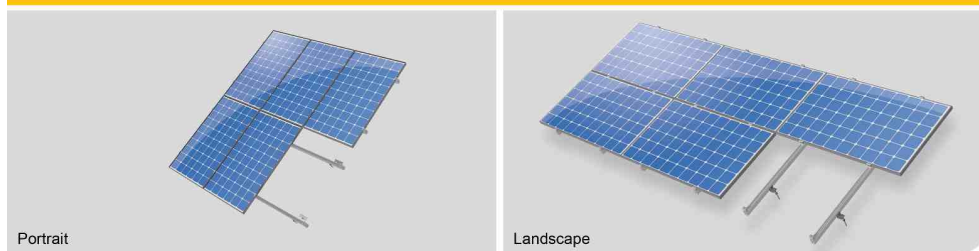
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ValkPitched Corrugated - mounting bracket for corrugated roofs

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
747901	Mounting bracket for corrugated roofs (rubber base element and aluminium bracket). Pre-assembled including hammerhead bolt and locknut.	0,109	150	€ 4,99 £ 4,49	
774390	Stainless steel bolt 7x110mm for corrugated roofs - FIS system	0,037	100	€ 1,23 £ 1,11	
774391	Stainless steel bolt 7x130mm for corrugated roofs - FIS system	0,037	100	€ 1,66 £ 1,49	
774392	Stainless steel bolt 7x150mm for corrugated roofs - FIS system	0,051	100	€ 1,74 £ 1,57	

ValkPitched - hanger bolts for wooden purlins

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
747915	Ss hanger bolt - M10x200mm (wooden purlin)	0,100	50	€ 2,56 £ 2,30	
747917	Ss hanger bolt - M10x250mm (wooden purlin)	0,125	50	€ 3,89 £ 3,50	
747920	Ss hanger bolt - M12x250mm (wooden purlin)	0,314	50	€ 4,94 £ 4,45	
747922	Ss hanger bolt - M12x350mm (wooden purlin)	0,387	50	€ 8,41 £ 7,57	

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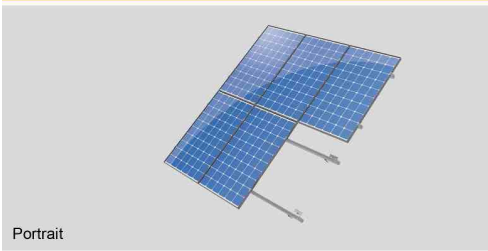
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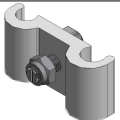
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ValkPitched - hanger bolts for steel purlins

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
747930	Ss hanger bolt - M10x176mm (steel purlin, range 30-75mm)	0,100	50	€ 8,80 £ 7,92	
747932	Ss hanger bolt - M10x201mm (steel purlin, range 55-100mm)	0,120	50	€ 10,29 £ 9,26	
747934	Ss hanger bolt - M10x226mm (steel purlin, range 80-125mm)	0,130	50	€ 10,03 £ 9,03	
747938	Ss hanger bolt - M10x276mm (steel purlin, range 130-175mm)	0,160	50	€ 11,70 £ 10,53	

ValkPitched - hanger bolt clamp

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
721100	Alu hanger bolt clamp + hammerhead bolt + lock nut	0,070	250	€ 1,65 £ 1,49	

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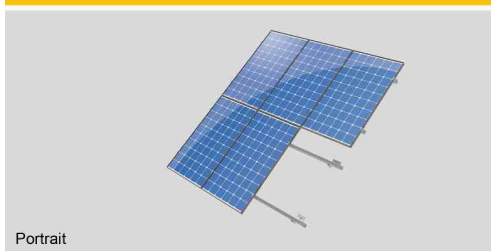
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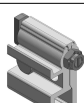
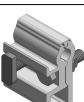


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ValkPitched - standing seam clamps

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
727772	S-5-B Mini clamp for double-folded standing copper seam	0,164	40	€ 50,00 £ 45,00	
727778	S-5-E Mini double-folded standing seam clamp	0,164	100	€ 16,07 £ 14,46	
727780	Alu standing seam clamp straight	0,164	100	€ 16,07 £ 14,46	
727795	Alu. clamp for round standing seam (profiles vertical)	0,118	100	€ 3,91 £ 3,52	
727796	Alu. clamp for round standing seam (profiles horizontal)	0,192	75	€ 7,29 £ 6,56	
727799	Ss. E-Sadel for S-5-E mini. Suitable for use on copper standing seam roofs	0,011	100	€ 4,56 £	
727800	Standing seam clamp horizontal mounting of Side++ profiles. Suitable for flat seams.	0,157	125	€ 3,91 £ 3,52	
727801	Alu standing seam clamp for vertical mounting of Side++ profiles	0,157	125	€ 4,50 £ 4,05	

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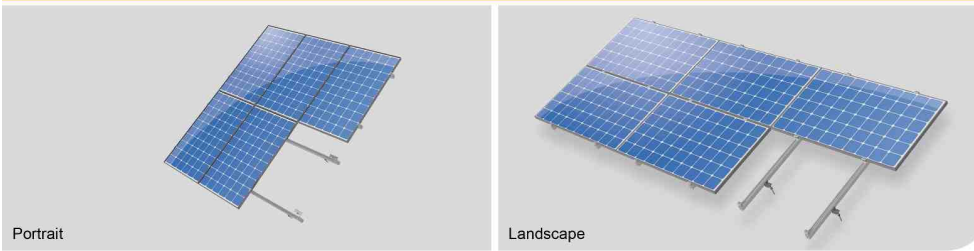
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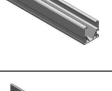
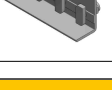
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ValkPitched - Side++ profiles - natural colour					
Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
701701220	Alu Side++ profile L=1220 mm XXL Length suitable for panel width 1134mm.	1,105	84	€ 15,65 £ 14,09	
701702370	Alu. Side++ profile L=2370 mm XXL Length suitable for two panels with width 1134mm.	2,147	84	€ 29,50 £ 26,55	
701703520	Alu. Side++ profile L=3520 mm XXL Length suitable for three panels with width 1134mm.	3,187	84	€ 40,15 £ 36,14	
701704670	Alu Side++ profile L=4670 mm XXL Length suitable for four panels with width 1134mm.	4,229	84	€ 53,11 £ 47,80	
701705820	Alu. Side++ profile L=5820 mm XXL Length suitable for five panels with width 1134mm.	5,270	84	€ 67,82 £ 61,05	
724863	Alu coupling for Side++ profile with 4x hammerhead bolt M8x20mm	0,154	125	€ 3,98 £ 3,58	

Side++ profile - black					
Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
701702370ZW	Alu. Side++ profile L=2370 mm XXL ZW - black coated Length suitable for two panels with width 1134mm.	2,147	84	€ 42,30 £ 38,07	
701702370ZWG	Alu. Side++ profile L=2370 mm XXL ZW - black coated Length suitable for two panels with width 1134mm.	2,147	84	€ 42,30 £ 38,07	

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Couplings

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
724053	Alu mounting clamp 50mm for cross rail Side++ with Side++ profile	0,150	100	€ 3,40 £ 3,06	
724054	Alu mounting clamp 60mm for cross rail C+ with Side++ profile	0,150	100	€ 9,72 £ 8,75	

ValkPitched Elevated - accessories

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
724075	Alu counter plate with ss bolt M8x75mm for elevated system	0,084	200	€ 1,90 £ 1,71	

ValkPitched - panel clamp (range 28-50mm) natural colour

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
721550	Alu mid panel clamp for alu profile - T30 - clamping range 28-40mm	0,051	150	€ 2,30 £ 2,07	
721552	End panel clamp for alu profile - T30 - clamping range 28-40mm	0,075	100	€ 3,01 £ 2,71	

ValkPitched - panel clamp (range 28-50mm) black

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
721550ZW	Alu mid clamp alu profile 28-40 - black	0,053	150	€ 2,42 £ 2,18	
721552ZW	Alu endclamp alu profile 28-40mm - black	0,075	100	€ 3,25 £ 2,93	

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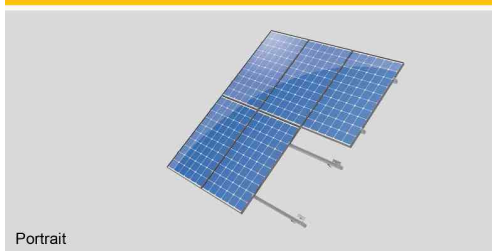
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ValkPitched - panel clamp for frameless panels

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
721588	Alu. clamp middle for frameless panels L=200mm alu profile for Side++ and trapezoidal profile - Lenght = 200mm for panel thickness 5 to 8mm	0,238	30	€ 7,42 £ 6,68	
721589	Alu end clamp glass panel (frameless) for Side++ and trapezoidal profile - Length = 200 mm. For panel thickness 5 to 8 mm.	0,172	40	€ 6,80 £ 6,12	

Fastening materials - screws, bolts and nuts

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
773360	Ss torx-screw 5,5x58mm - T30	0,008	200	€ 0,31 £ 0,28	
773361	Ss torx-screw 6,0x60 - T25	0,008	100	€ 0,82 £ 0,74	
773840	Ss torx-screw 5,5x38mm - T30	0,005	200	€ 0,31 £ 0,28	
774005	Ss lock-nut M8	0,005	250	€ 0,18 £ 0,16	
774006	Ss flange nut M8	0,007	200	€ 0,19 £ 0,17	
774020	Ss. tap bolt M8x20mm	0,012	300	€ 0,39 £ 0,35	
774225	Ss hammerhead bolt M8x25mm	0,013	1600	€ 0,63 £ 0,57	
774380	Ss torx-screw 8,0x80mm - T40	0,019	100	€ 1,13 £ 1,02	

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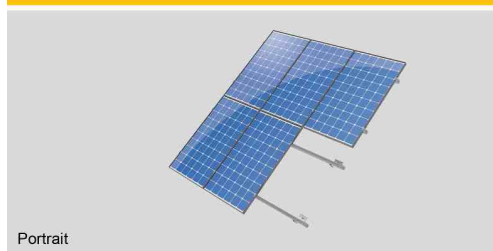
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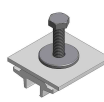


Portrait



Landscape

Service items

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
729520	Alu. angle for roof hook	0,025	250	€ 1,16 £ 1,04	
733020	Plastic panel alignment pin - set	0,013	100	€ 0,65 £ 0,59	
739006	Plastic cover middle clamp - black	0,004	200	€ 0,84 £ 0,76	
739007	Plastic cover end clamp - black	0,009	100	€ 1,05 £ 0,95	
739012	Plastic drainage clip. for frame height 25-30 mm.	0,010	250	€ 0,92 £ 0,83	
739013	Plastic drainage clip. for frame height 30-36 mm.	0,011	250	€ 0,92 £ 0,83	
739052	Black plastic end cap for Side++ and trapezoidal profile	0,046	150	€ 2,79 £ 2,51	
774223	Alu clamp for power optimizer/micro inverter - for Side++ and trapezoidal profile	0,082	150	€ 2,87 £ 2,58	

Torx bits

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
789530	Torx bit T30	0,050	25	€ 0,74 £ 0,67	

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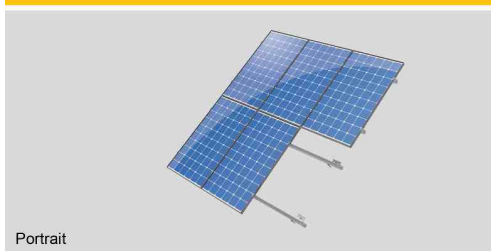
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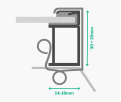
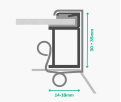
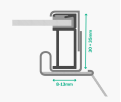
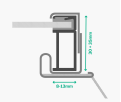
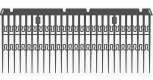
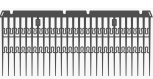


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BirdBlocker

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
756004	BirdBlocker Installation Tool Lenght: 200mm, Width 10mm, Thickness: 2mm	0,350	1	€ 16,87 £ 15,19	
756007	BirdBlocker Boxclips-50s 11x30x14-18 (50 pcs)	0,003	50	€ 15,73 £ 14,16	
756008	BirdBlocker Boxclips-50s 11x35x14-18 (50 pcs)	0,003	50	€ 16,45 £ 14,81	
756009	BirdBlocker Boxclips-50s 11x30x8-13 (50 pcs)	0,003	50	€ 19,31 £ 17,37	
756010	BirdBlocker Boxclips-50s 11x35x8-13 (50 pcs)	0,003	50	€ 20,02 £ 18,02	
756012	BirdBlocker EVO H=200mm L=30m (60 x 0,5mtr + 250 clips)	6,200	60	€ 334,62 £ 301,16	
756013	BirdBlocker EVO H=125mm L=30m (60 x 0,5mtr + 250 clips)	3,900	60	€ 250,39 £ 225,35	
756022	BirdBlocker EVO H=200mm L=30m - Pre-clipped (60 x 0,5mtr + 50 clips)	6,200	48	€ 367,37 £ 330,63	
756023	BirdBlocker EVO H=125mm L=30m - Pre-clipped (60 x 0,5mtr + 50 clips)	3,900	60	€ 284,52 £ 256,07	

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Price list

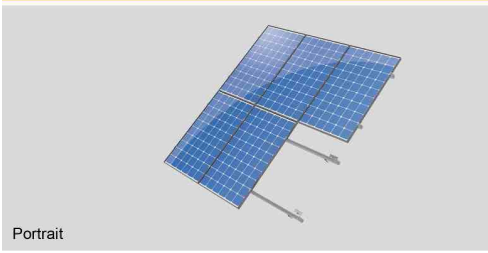
ValkPitched - Clamp

VAN DER VALK



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ValkCableCare - Cable and connector clamps

Article number	Description	Weight per unit (kg)	Standard packaging [units]	Gross price	
732001	Ss cable clamp small	0,002	500	€ 0,17 £ 0,15	
732005	Ss cable clamp large for Side++ profile	0,004	150	€ 0,68 £ 0,61	
738201	Stainless steel connector clamp for mounting to panel frame	0,006	100	€ 0,53 £ 0,48	
739063	Plastic cable entry roof tiles	0,050	100	€ 1,50 £ 1,30	
760505	Clip with cable tie attachment on the side of the clip. Cable tie at right angles to profile. For profile thickness 3.0-6.0 mm	0,197	100	€ 1,13 £ 1,02	
762803	Ss. multi-functional equipotential bonding clamp	0,050	50	€ 8,29 £ 7,46	

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