

Low ballast single-sided mounting for flat roofs

Product: _____

Location: _____

Customer: _____

K2 Systems - low ballast single-sided mounting system for flat roof installations.

K2 S-Dome V 15° System

Single-sided roof system for all orientations with 15° inclination.

Aerodynamically optimised with a windbreaker on the back side enabling low ballast.

Geometry for the improved absorption of tolerances.

For concrete, membrane and bitumen roofs with low ballast, as well as gravel roofs and green roofs.

Simple installation thanks to easy accessibility from above with few system components.

Flexible EPDM support pad:

- compensates of tolerances
- Better friction coefficient reduces ballasting

Attractive price and shipping advantages thanks to short rails with an integrated ballast tray and slim design. Low transport volume reduces logistics costs.

Ensure a thermal gap (distance between module blocks) after a maximum of 15,50 in the direction of the module rows and the base rail.

The flow of rainwater must not be hindered.

A minimum distance of 600 mm from roof edges must be maintained.

For framed modules and horizontal module orientation use the following dimensions:

Frame height: 30 mm - 50 mm

Module length: 1550 – 1760 / 1880 – 2100 mm

Module width: 950 -1053 mm

For corner clamping approved modules must be used; for a list of approved modules see the following link: <http://www.k2-systems.uk.com/downloads/approved-module-list.html>

Statistically verified solution using the K2 Base planning software according to Eurocode 9.
Load assumptions according to EUROCODE 1. Wind tunnel tested.

Supplier:

K2 Systems GmbH, Industriestraße 18, 71272 Renningen

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The S-Dome V 15° System includes the following materials:

No.	Item Description	Product Code	Quantity	Price/Unit in €	Total price in €
1	K2 Dome V Rail Base rail with the option of ballast support Height: 23.5 mm Width: 123 mm, Material: EN AW-6063 T66	<i>Depending on length</i>			
2	K2 S Dome V 15° Set Pre-assembled module support element for the S-Dome V 15° system. The set consists of: ▶ 1x S-Dome V 15 Base (2003059), Aluminium EN AW-6063 T66 ▶ 1x Dome V Clip (2002848), stainless steel (1.4310) ▶ 1x Dome V Peak (2003060), Aluminium EN AW-6063 T66	2003171			
3	K2 Dome V 15° SD Module supporting element for valleys LxWxH: 76,3x65x57,27 mm Material: Aluminium EN AW-6063 T66	2003061			
4	K2 Dome Mat V Support Pad. Flexible function to absorb tolerances and protect the roof cover. LxWxH: 250x114.8x26.7 mm Material: EPDM	2002849			
5	K2 MiniClamp MC Universal middle clamp set for mounting solar modules with a frame height of 30-50 mm on the module support elements. Consisting of: ▶ 1 Middle clamp MC 30-50 mm Solo, Material: EN AW-6063 T66 (aluminium mill finish/black anodized) ▶ 1 MiniClamp Stance; Material: Material: EN AW-	2002558 (mill finish) 2002609 (black anodized)			

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	6082 T6 (aluminium mill finish/black anodized) <ul style="list-style-type: none"> ▶ 1 Bolt with serrated underhead M8 similar DIN 912 / EN ISO 4762, Material: stainless steel A2 ▶ Stainless steel spring 				
6	K2 MiniClamp EC Universal end clamp set for mounting solar modules with a frame height of 30-50 mm on the module support elements. Consisting of: <ul style="list-style-type: none"> ▶ 1 MiniClamp EC 30-50 mm Solo; Material: EN AW-6063 T66 (aluminium mill finish/black anodized) ▶ 1 MiniClamp Stance; Material: Material: EN AW-6082 T6 (aluminium mill finish/black anodized) ▶ 1 Bolt with serrated underhead M8 similar DIN 912 / EN ISO 4762, Material: stainless steel A2 ▶ Stainless steel spring 	2002559 (mill finish) 2002610 (black anodized)			
7	MK2 Slot nut with clip Nut for mounting the module support elements in the base rail. Material: stainless steel A2 (1.4301) and PA	1001643			
8	Bolt with serrated underhead M8x20 similar DIN 912 / EN ISO 4762 for mounting the module support elements in the base rail. Material: stainless steel A2 (1.4301)	2001729			
9	K2 Dome Windbreaker deflector) for wind deflection on the reverse side of the K2 S-Dome System (increase downforce). Material: 1.0242 (S250GD + ZM310)	2003134 (60-cells) 2003135 (72-cells)			

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10	Thread-forming metal screw 6.0x25 Screw set to fix the Windbreaker at the S Dome V Material: Stainless Steel A2, EPDM	1005207			
Additional components may be needed for ballast use					
11	K2 SpeedPorter Dome V placing additional ballast on the K2 Dome V Systems. LxWxH: 200x80x6mm: Material: Aluminium (EN AW- 5754 H22/H23)	2002830			
12	K2 Dome Porter L-angle for ballast use, BxH: 30x30 mm Material: Aluminium EN AW- 6063 T66	2003079 (60-cells) 2003080 (72-cells)			
13	K2 Aluminium shim Aluminium shim for K2 Porter assembly on Dome V Rail, LxWxH: 100x50x4 mm Material: Aluminium EN AW- 6063 T66	1000789			
Total					

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