

**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 System**

Single-sided roof system for all orientations with a maximum roof coverage without shading clearances with 10° inclination.

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

With a modified 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 for 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 after a maximum of 15,50 m in module row direction, as well as a min 30 mm to max. 150 mm in the direction of the base rails.

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: 1386 – 2067 mm

Module width: 990 mm - 1002 mm

The acting pull-out forces must not exceed 2750 Pa. 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 System includes the following materials:

No.	Item Description	Product Code	Quantity	Price/Unit in €	Total price in €
1	<b>K2 S Dome V Basis</b> Base component for the crest module supporting element LxWxH: 105x118x72.4 mm Material: EN AW-6063 T66	2002829			
2	<b>K2 S Dome V Peak</b> Upper component for the crest module supporting element LxWxH: 105x65x168 mm Material: EN AW-6063 T66	2002827			
3	<b>K2 Dome V SD</b> Module supporting element for valleys LxWxH: 76.3x65x54.6 mm Material: EN AW-6063 T66	2002828			
4	<b>K2 Dome V Rail</b> 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>			
5	<b>K2 Dome V Rail</b> 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>			
6	<b>K2 Windbreaker Dome S1000 1700 mm</b> For wind deflection on the backside to increase downforce. For module lengths between 1601 and 1700 mm Length: 1700 mm, Material: EN AW 5754  Alternative: <b>K2 Windbreaker Dome 1600 mm</b> For module lengths between 1386 and 1600 mm Length: 1600 mm, Material: EN AW 5754	1005843          2001119			

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	Alternative: <b>K2 Windbreaker Dome 2080</b> For module lengths between 1866 and 2067 mm Length: 2080 mm, Material: EN AW 5754	2002732			
7	<b>K2 S Dome V Windbreaker Screw Set</b> Screw set to fix the Windbreaker at the S Dome V Consisting of: - T-Bolt 28/15, M8x20, Material: stainless steel A2 (1.4301) - Washer (Ø 8.4x30x1.5 mm), Material: stainless steel A2 (1.4301) - Self-tapping hexagon nut M8, Material: stainless steel A2 (1.4301)	2002653			
8	<b>K2 Dome Mat V</b> Elastic building protection mat for K2 Dome V Rail LxWxH: 250x115.8x26.7 mm Material: EPDM	2002849			
9	<b>K2 DomeV Clip</b> Clip for assembling the module support elements LxWxH: 123.1x18x15.4 mm Material: 1.4310 (XCrNi18-8)	2002848			
10	<b>K2 MiniClamp MC 30-50 mm</b> For fastening modules to supporting elements Consisting of: - Middle clamp, Material: EN AW-6063 T66 (aluminium mill finish/black anodized) - Bolt with serrated underhead M8 similar DIN 912 / EN ISO 4762, Material: stainless steel A2 - Stance, Material: 6082 T6 - Stainless steel spring	2002558 (mill finish)  2002609 (black anodized)			

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11	<b>K2 MiniClamp EC 30-50 mm</b> For fastening modules to supporting elements Consisting of: - End clamp, Material: EN AW-6063 T66 (aluminium mill finish/black anodized) - Bolt with serrated underhead M8 similar DIN 912 / EN ISO 4762, Material: stainless steel A2 - Stance, Material: 6082 T6 - Stainless steel spring	2002559 (mill finish)  2002610 (black anodized)			
12	<b>MK2 Slot nut with clip</b> Slot nut to fix the supporting elements in the rail Material: stainless steel A2 (1.4301) and PA	1001643			
13	<b>Bolt with serrated underhead</b> M8x20, SW 6 mm similar DIN 912 / EN ISO 4762 To fix the supporting elements in the rail Material: stainless steel A2 (1.4301)	2001729			

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Additional components may be needed for ballast use					
14	<b>K2 SpeedPorter Dome V</b> Bent aluminium plate for ballast use LxWxH: 200x80x6mm: Material: Aluminium (EN AW-5754 H22/H23)	2002830			
15	<b>K2 Dome Porter</b> L-angle for ballast use, WxH: 30x30 mm Material: EN AW-6063 T66	2000081 (1750mm)  2001140 (2050mm)			
16	<b>K2 Aluminium shim</b> Aluminium shim for K2 Porter assembly on Dome V Rail, LxWxH: 100x50x4 mm Material: EN AW-6063 T66	1000789			
17	<b>K2 Dome Porter Screw Set</b> Screw set for K2 Porter Installation Consisting of: - 2 MK2 slot nut with clip, Material: stainless steel A2 (1.4301) and PA - 2 Bolts with serrated underhead M8x20, SW 6 mm similar DIN 912 / EN ISO 4762, Material: stainless steel A2 (1.4301)	2000155			
<b>Total</b>					

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