

Low ballast single-sided mounting for flat roofs

Product: _____

Location: _____

Customer: _____

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

K2 D-Dome V System

Double-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: max. 2080 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:

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The D-Dome V System includes the following materials:

No.	Item Description	Product Code	Quantity	Price/Unit in €	Total price in €
1	K2 D Dome V Basis Base component for the crest module supporting element LxWxH: 130x118x46 mm Material: EN AW-6063 T66	2002847			
2	K2 D Dome V Peak Upper component for the crest module supporting element LxWxH: 57.5x65x168 mm Material: EN AW-6063 T66	2002846			
3	K2 Dome V SD Module supporting element for valleys LxWxH: 76.3x65x54.6 mm Material: EN AW-6063 T66	2002828			
4	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>			
5	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>			
6	K2 Dome Mat V Elastic building protection mat for K2 Dome V Rail LxWxH: 250x113x25.5 mm Material: EPDM	2002849			
7	K2 Dome V Clip Clip for assembling the module support elements LxWxH: 121.6x18x16.6 Material: 1.4310 (XCrNi18-8)	2002848			

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8	K2 MiniClamp MC 30-50 mm 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)			
9	K2 MiniClamp EC 30-50 mm 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)			
10	MK2 Slot nut with clip For fastening modules to supporting elements, Material: stainless steel A2 (1.4301) and PA	1001643			
11	Bolt with serrated underhead M8x20, SW 6 mm similar DIN 912 / EN ISO 4762 For fastening modules to supporting elements, Material: stainless steel A2 (1.4301)	2001729			
Additional components may be needed for ballast use					
12	K2 SpeedPorter Dome V Bent aluminium plate for ballast use LxWxH: 200x80x6mm: Material: Aluminium (EN AW-5754 H22/H23)	2002830			
13	K2 Dome Porter L-angle for ballast use,	2000081 (1750mm)			

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	BxH: 30x30 mm Material: EN AW-6063 T66	2001140 (2050mm)			
14	K2 Aluminium shim Aluminium shim for K2 Porter assembly on Dome V Rail, LxWxH: 100x50x4 mm Material: EN AW-6063 T66	1000789			
15	K2 Dome Porter Screw Set 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			
Total					

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