

Low Ballast Double-sided Mounting for Flat Roofs

Product: _____
 Location: _____
 Customer: _____

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

K2 D-Dome System

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

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

Ensure a thermal gap after a maximum of 11 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 and 300 mm from other impediments (eg light domes, vents or other rising structural components) must be maintained.

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

Frame height: 30 mm - 50 mm

Module length: max. 2067 mm

Module width: 950 mm - 1100 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.

The D-Dome System includes the following materials:

No.	Item Description	Product Code	Quantity	Price/Unit in €	Total price in €
1	K2 Dome D1000 2.0 Module supporting element for crests, cut free of burrs Width: 65 mm, Material: EN AW-6063 T66 (aluminium mill finish)	2001962			
2	K2 Dome SD 2.0 Module supporting element for valleys Width: 65 mm Material: EN AW-6063 T66	2001968			
3	K2 SpeedRail 22 Mounting rails Height: 22.5 mm	<i>Depending on length</i>			

Supplier:

K2 Systems GmbH, Industriestraße 18, 71272 Renningen

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	Width: 36 mm, Material: EN AW-6063 T66				
4	<p>K2 FlatConnector Set</p> <p>Mounting rail connector for joining two K2 SpeedRails Consisting of:</p> <ul style="list-style-type: none"> - FlatConnector, Material: EN AW-6063 T66 - 2 bolts with serrated underhead M8x20, SW 6 mm similar DIN 912 / EN ISO 4762, Material: stainless steel A2 (1.4301) - MK2 – slot nut with clip, Material: stainless steel A2 (1.4301) and PA 	1006039			
5	<p>K2 Universal module clamp OneEnd</p> <p>For fastening module on mounting rails Consisting of:</p> <ul style="list-style-type: none"> - End clamp, Material: aluminium mill finish/black anodized - AluStance 15, Material: aluminium - K2 bolt with serrated underhead, Material: stainless steel A2 (1.4301) and PA - Square nut M8x15, Material: stainless steel A2 (1.4301) - Plastic cage VK 15 - Stainless steel spring <p>Alternative: K2 End Clamp Standard Set</p> <p>For fastening module on mounting rails Consisting of:</p> <ul style="list-style-type: none"> - 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 (1.4301) and PA - MK2 slot nut with clip, 	2002514/2002589			

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	Material: stainless steel A2 (1.4301) and PA - Stainless steel spring				
6	K2 Middle Clamps XS Set For fastening the modules to supporting elements Consisting of: - Middle clamp XS, Material: EN AW-6063 T66 (aluminium mill finish/black anodized) - Bolt with serrated underhead M8, SW 6 mm similar DIN 912 / EN ISO 4762, Material: stainless steel A2 (1.4301) - MK2 slot nut with clip, Material: stainless steel A2 (1.4301) and PA	<i>Depending on module frame height</i>			
7	MK2 Slot nut with clip For fastening modules to supporting elements, Material: stainless steel A2 (1.4301) and PA	1001643			
8	Bolt with serrated under head M8x20, SW 6 mm similar DIN 912/EN ISO 4762 For fastening modules to supporting elements, Material: stainless steel A2 (1.4301)	2001729			
9	Dome building protection mat For roof cladding protection for bituminous flat roof covering or use with membrane roofs. For protection against punctual load entry and mechanical damage caused by the mounting system stand Dimensions: 470x180x18 mm, Material: PUR-bonded rubber granules; optionally laminated with a triplex aluminium foil on the underside	2001696 2001695 (laminated with a triplex aluminium foil on the underside)			
10	Dome SD building protection mats	2001740			

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	For roof cladding protection for bituminous flat roof covering or use with membrane roofs. For protection against punctual load entry and mechanical damage caused by the mounting system stand Dimensions: 160x180x18 mm, Material: PUR-bonded rubber granules; optionally laminated with a triplex aluminium foil on the underside	2001739 (laminated with a triplex aluminium foil on the underside)			
Additional components may be needed for ballast use					
11	K2 Short Porter Set L-angle for ballast use Consisting of: - 2 K2 Short Porter Material: EN AW-6063 T66 - 2 MK2 slot nut with clip Material: stainless steel A2 (1.4301) and PA - Hexagon socket countersunk-head screw M8x20, Material: stainless steel A2 (1.4301)	2001946			
12	K2 SpeedPorter Bent aluminium plate for ballast use Material: aluminium (EN AW-5754 H111)	2002300			
13	K2 Porter L-angle for ballast use Material: EN AW-6063 T66	2000081 (1750mm) 2001140 (2050mm)			
14	K2 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			

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Additional material may be needed for mounting trapezoidal sheet metal roofs

15	K2 SpeedClip Bracket for SpeedRail installation on trapezoidal sheet metal roofs, Material: Glass fibre reinforced polyamide, EPDM	1001164			
16	K2 Self-tapping screw For installing the SpeedClip bracket Dimensions: 6x36 mm / 6x38 mm Sealing washer: Ø 16 mm, Material: stainless steel A2, EPDM (Z-14.4-426)	1001622//1005193			
17	K2 SpeedConnector Set Rail connector for connecting two mounting rails Consisting of: - 1 SpeedConnector, Material: EN AW-6063 T66 - 2 countersunk-head drilling screws Dimensions: 4.8x16 mm, TX 25, Material: stainless steel A2 (1.4301)	1003571			
18	K2 SpeedLock Set Locking device to regulate thermal expansion and mounting rail installation Consisting of: - 1 SpeedLock, Material: EN AW-6063 T66 - 1 MK2 slot nut with clip, Material: stainless steel A2 (1.4301) and PA - 1 Hexagon socket countersunk-head screw M8x20, Material: stainless steel A2 (1.4301)	1003558			
Total					

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