

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 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 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 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 (e.g. 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: 1386 – 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 S-Dome System includes the following materials:

No.	Item Description	Product Code	Quantity	Price/Unit in €	Total price in €
1	K2 Dome S1000 2.0 Module supporting element	2001967			

Supplier:

K2 Systems GmbH, Industriestraße 18, 71272 Renningen

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	for crests, cut free of burrs Width: 65 mm, Material: EN AW-6063 T66 (aluminium mill finish)				
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 Width: 39 mm, Material: EN AW-6063 T66	<i>Depending on length</i>			
4	K2 FlatConnector Set Mounting rail connector for joining two K2 SpeedRails Consisting of: - FlatConnector, Material: EN AW-6063 T66 - 2 bolts with serrated under head 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	K2 Windbreaker Dome 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: K2 Windbreaker Dome 1600 mm For module lengths between 1386 and 1600 mm Length: 1600 mm, Material: EN AW 5754	1005843 2001119			

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	<p>Alternative: K2 Windbreaker Dome 2080</p> <p>For module lengths between 1866 and 2067 mm Length: 2080 mm, Material: EN AW 5754</p>	2002732			
6	<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, Material: stainless steel A2 (1.4301) and PA - Stainless steel spring 	2002514/2002589			
7	<p>K2 Middle Clamps XS Set</p> <p>For fastening the modules to supporting elements</p>	<i>Depending on module frame height</i>			

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	<p>Consisting of:</p> <ul style="list-style-type: none"> - 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 				
8	<p>MK2 Slot nut with clip</p> <p>For fastening modules to supporting elements, Material: stainless steel A2 (1.4301) and PA</p>	1001643			
9	<p>Bolt with serrated underhead</p> <p>M8x20, SW 6 mm similar DIN 912 / EN ISO 4762 For fastening modules to supporting elements, Material: stainless steel A2 (1.4301)</p>	2001729			
10	<p>Dome building protection mats</p> <p>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</p>	2001696 2001695 (laminated with a triplex aluminium foil on the underside)			
11	<p>Dome SD building protection mats</p> <p>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</p>	2001740 2001739 (laminated with a triplex aluminium foil on the underside)			

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	mounting system stand Dimensions: 160x180x18 mm, Material: PUR-bonded rubber granules; optionally laminated with a triplex aluminium foil on the underside				
Additional components may be needed for ballast use					
12	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 (1.4301) and PA - Hexagon socket countersunk-head screw M8x20, Material: stainless steel A2 (1.4301)	2001946			
13	K2 SpeedPorter Bent aluminium plate for ballast use Material: aluminium (EN AW-5754 H111)	2002300			
14	K2 Dome Porter L-angle for ballast use, Material: EN AW-6063 T66	2000081 (1750mm) 2001140 (2050mm)			
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			
Additional material may be needed for mounting trapezoidal sheet metal roofs					
16	K2 SpeedClip Bracket for SpeedRail installation on trapezoidal sheet metal roofs,	1001164			

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	Material: glass fibre reinforced polyamide and EPDM				
17	K2 Self-tapping screw For installing the SpeedClip bracket Dimensions: 6x36 mm / 6x38 mm Sealing washer: Ø 16 mm, Material: stainless steel A2 and EPDM (Z-14.4-426)	1001622/1005193			
18	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			
19	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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