

**Low ballast single 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 10° inclination.

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

Ensure a thermal gap (distance between module blocks) after a maximum of 11 meter 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: 1386 – 2067 mm

Module width: 950 -1100 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:

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Phone: +49 7159-42059 - 0

E-Mail: [info@k2-systems.de](mailto:info@k2-systems.de) – Web: [www.k2-systems.com](http://www.k2-systems.com)

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The S-Dome System includes the following materials:

No.	Item Description	Product Code	Quantity	Price/Unit in €	Total price in €
1	<b>K2 SpeedRail 22</b> Base rail Height: 22,5 mm Width: 36 mm Material: EN AW-6063 T66	<i>Depending on length</i>			
2	<b>K2 Flat Connector Set</b> Mounting rail connector for connecting two K2 SpeedRails. components: ▶ FlatConnector, Material: EN AW-6063 T66 ▶ 2 Bolt with serrated underhead M8 similar DIN 912 / EN ISO 4762, Material: stainless steel A2 ▶ MK2 Slot nut with clip Material: stainless steel A2 (1.4301) and PA	1006039			
3	<b>Dome building protection mat</b> 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)			
4	<b>Dome SD building protection mats</b> 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	2001740  2001739 (laminated with a triplex aluminium foil on the underside)			

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	with a triplex aluminium foil on the underside				
5	<b>K2 Dome S1000 2.0</b> Module supporting element for crests Width: 65 mm, Material: EN AW-6063 T66 (aluminium mill finish)	2001967			
6	<b>K2 Dome SD 2.0</b> Module supporting element for valleys Width: 65 mm Material: EN AW-6063 T66	2001968			
7	<b>K2 Universal-module end clamp OneEnd</b> for fastening module on mounting rails. Module frame height: 30-42 mm. Consisting of: <ul style="list-style-type: none"> <li>▶ 1 Module end clamp, Material: aluminium mill finish/ black anodised</li> <li>▶ 1 AluStance 15, Material: aluminium EN AW-6063 T66</li> <li>▶ 1 K2 Allen bolt with serrated under head M8x45, Material: stainless steel A2 (1.4301)</li> <li>▶ 1 square nut M8x15 Material: stainless steel A2 (1.4301)</li> <li>▶ 1 plastic cage, Material: POM / black</li> </ul> <p>Alternative to Universal Module Middle Clamp OneMid:</p> <b>K2 Module end clamp standard Set</b> for fastening module on mounting rails. Consisting of: <ul style="list-style-type: none"> <li>▶ 1 Module end clamp standard, Material: EN AW-6063 T66 (aluminium mill finish/ black anodised)</li> <li>▶ 1 Allen bolt with serrated under head M8, similar</li> </ul>	2002514 (aluminium mill finish)  2002589 (black anodised)			

*Depending on module frame height*

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	<p>DIN 912/EN ISO 4762, Material: stainless steel A2 (1.4301)</p> <ul style="list-style-type: none"> <li>▶ 1 MK2 slot nut with clip, Material: stainless steel A2 (1.4301) and PA</li> <li>▶ 1 stainless steel spring</li> </ul>				
8	<p><b>K2 Modulemiddleclamp XS Set</b> For fastening the modules to supporting elements Consisting of:</p> <ul style="list-style-type: none"> <li>▶ 1 Middle clamp XS, Material: EN AW-6063 T66 (aluminium mill finish/ black anodised)</li> <li>▶ 1 K2 Allen bolt with serrated under head M8, similar DIN 912/EN ISO 4762, Material: stainless steel A2 (1.4301)</li> <li>▶ 1 MK2 slot nut with clip, Material: stainless steel A2 (1.4301) and PA</li> <li>▶ 1 Stainless steel spring</li> </ul>	<i>Depending on module frame height</i>			
9	<p><b>MK2 Slot nut with clip</b> Nut for mounting the module support elements in the base rail. Material: stainless steel A2 (1.4301) and PA</p>	1001643			
10	<p><b>Bolt with serrated underhead</b> M8x20 similar DIN 912 / EN ISO 4762 for mounting the module support elements in the base rail. Material: stainless steel A2 (1.4301)</p>	2001729			
11	<p><b>K2 Windbreaker Dome</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</p>	1005843			

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	<i>Alternative:</i> <b>K2 Windbreaker Dome 1600 mm</b> For module lengths between 1386 and 1600 mm Length: 1600 mm, Material: EN AW 5754	2001119			
	<i>Alternative:</i> <b>K2 Windbreaker Dome 2080</b> For module lengths between 1866 and 2067 mm Length: 2080 mm, Material: EN AW 5754	2002732			
12	<b>K2 Washer 8,4x30x1,5 mm</b> For the windbreaker mounting Material: Stainless steel A2	1000273			
13	<b>Bolt with serrated underhead</b> M8x16 similar DIN 912 / EN ISO 4762 for the windbreaker mounting. Material: stainless steel A2 (1.4301)	2001735			
Additional components may be needed for ballast use					
14	<b>K2 SpeedPorter</b> Bent aluminium plate for ballast use Material: aluminium (EN AW-5754 H111)	2002300			
15	<b>K2 Dome Porter</b> L-angle for ballast use, BxH: 30x30 mm Material: Aluminium EN AW-6063 T66	2000081 (1750mm) 2001140 (2050mm)			
16	<b>MK2 Slot nut with clip</b> Nut for mounting the module support elements in the base rail. Material: stainless steel A2 (1.4301) and PA	1001643			
17	<b>Bolt with serrated underhead</b> M8x20 similar DIN 912 / EN ISO 4762 for mounting the module support elements in the base rail. Material: stainless steel A2 (1.4301)	2001729			

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Additional material may be needed for mounting trapezoidal sheet metal roofs					
18	<b>K2 SpeedClip</b> Module supporting element for mounting K2 SpeedRails on trapezoidal sheet metal roofs, Material: glass fibre reinforced polyamide, EPDM	1001164			
19	<b>K2 self-tapping screw</b> For installing the SpeedClip bracket, Dimensions: 6x38 mm Sealing washer: Ø 16 mm, Material: stainless steel A2 (1.4301) and EPDM (Z-14.4-426)	1005193			
20	<b>K2 SpeedConnector Set</b> Rail connector for connecting two K2 SpeedRails with three drilled holes for flexible assembly. Consisting of: ▶ 1 SpeedConnector, Material: Aluminium EN AW-6063 T66 ▶ 2 countersunk-head drilling screws, 4.8x16 mm, Material: stainless steel A2 (1.4301) with TX 25 drive	1003571			
21	<b>K2 SpeedLock Set</b> Locking device to install K2 SpeedRail and regulate thermal expansion. ▶ 1 SpeedLock Material: Aluminium EN AW-6063 T66 ▶ 1 Hexagon socket countersunk-head screw M8x20 DIN 7991, Material: stainless steel A2 (1.4301) ▶ 1 MK2 slot nut with clip, Material: stainless steel A2 (1.4301) and PA	1003558			
<b>Total</b>					

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