

**Mounting system for trapezoidal sheet metal roofs**

Product: \_\_\_\_\_

Location: \_\_\_\_\_

Customer: \_\_\_\_\_

**K2 Systems** – Mounting system for trapezoidal sheet metal roofing**K2 SpeedRail System**

The proven long rail system for trapezoidal sheet applications as well as floating suspension with controlled thermal linear expansion. Over 1 GW installed worldwide.

All-rounder with only 4 installation steps – also suitable for high loads. Portrait or Landscape assembly (in cross bracing or with AddOn).

With building approval: Z-14.4-603

Sheet steel thickness from 0.4 mm

Aluminium sheet thickness from 0.5 mm

For all framed modules with dimensions from 30 mm to 50 mm.

A thermal separation is recommended after 6.10 m and required after 8.80 m. A minimum spacing of 3-5 cm is required for the thermal cut between two rails.

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 SpeedRail System includes the following materials:

| No. | Item Description   | Product Code               | Quantity | Price/Unit in € | Total price in € |
|-----|--|----------------------------|----------|-----------------|------------------|
| 1   | <b>K2 SpeedRail 22</b><br>Mountingrail<br>height: 22,5 mm<br>width: 39 mm<br>Material: EN AW-6063 T66  | <i>Depending on length</i> |          |                 |                  |
| 2   | <b>K2 SpeedClip</b><br>Module supporting element for mounting K2 SpeedRails on trapezoidal sheet metal roofs, Material: glass fibre reinforced polyamide, EPDM   | 1001164                    |          |                 |                  |
| 3   | <b>K2 self-tapping screw</b><br>For installing the SpeedClip bracket, Dimensions: 6x38 mm<br>Sealing washer: Ø 16 mm,<br>Material: stainless steel A2 (1.4301) and EPDM (Z-14.4-426)   | 1005193                    |          |                 |                  |
| 4   | <b>K2 SpeedConnector Set</b><br>Rail connector for connecting two K2 SpeedRails with three drilled holes for flexible assembly.<br>Consisting of:<br>▶ 1 SpeedConnector, Material: Aluminium EN AW-6063 T66<br>▶ 2 countersunk-head drilling screws, 4.8x16 mm, Material: stainless steel A2 (1.4301) with TX 25 drive               | 1003571                    |          |                 |                  |
| 5   | <b>K2 SpeedLock Set</b><br>Locking device to install K2 SpeedRail and regulate thermal expansion.<br>▶ 1 SpeedLock Material: Aluminium EN AW-6063 T66<br>▶ 1 Hexagon socket countersunk-head screw M8x20 DIN 7991, Material: stainless steel A2 (1.4301)<br>▶ 1 MK2 slot nut with clip, Material: stainless steel A2 (1.4301) and PA | 1003558                    |          |                 |                  |

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| <b>Module mounting portrait installation</b> |   |  |  |  |  |
|--|---|--|--|--|--|
| 6  | <p><b>K2 Universal-module middle clamp OneMid</b> for fastening module on mounting rails<br/>Module frame height: 30-42 mm<br/>Consisting of:</p> <ul style="list-style-type: none"> <li>▶ 1 Middle 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>2003071<br/>(aluminium mill finish)</p> <p>2003072<br/>(black anodised)</p> |  |  |  |
| 7  | <p>Alternative to Universal Module Middle Clamp OneMid:<br/><b>K2 Modulemiddleclamp XS Set</b><br/>For fastening the modules to supporting elements<br/>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> | <p><i>Depending on module frame height</i></p>                                 |  |  |  |
| 8  | <p><b>K2 Universal-module end clamp OneEnd</b> for fastening module on mounting rails.<br/>Module frame height: 30-42 mm.<br/>Consisting of:</p>  | <p>2002514<br/>(aluminium mill finish)</p> <p>2002589<br/>(black anodised)</p> |  |  |  |

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|   |  |   |  |  |  |
|---|--|---|--|--|--|
|   | <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>  |   |  |  |  |
| 9   | <p>Alternative to Universal Module Middle Clamp OneMid: <b>K2 Module end clamp standard Set</b> for fastening module on mounting rails.<br/>Consisting of:</p> <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 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> |  |  |  |
| <b>Module mounting landscape installation</b> |  |   |  |  |  |
| 10  | <p><b>K2 AddOn</b><br/>Enables grid or shared-rail installation without additional rails or clamps,<br/>Material: glass fibre reinforced polyamide</p>   | 1005530                                 |  |  |  |
| 11  | <p><b>MK2 slot nut with clip</b><br/>For fastening AddOn and end clamp to mounting rails, Material: stainless steel A2 (1.4301) and PA</p>   | 1001643                                 |  |  |  |

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|              |   |   |  |  |  |
|--------------|---|---|--|--|--|
| 12           | <b>K2 Module end clamp standard</b> for fastening modules to supporting elements, Material: EN AW-6063 T66 (aluminium mill finish/ black anodized)  | <i>Depending on module frame height</i> |  |  |  |
| 13           | <b>K2 Modulmittelklemme Standard</b> for fastening modules to supporting elements, Material: EN AW-6063 T66 (aluminium mill finish/ black anodized) | <i>Depending on module frame height</i> |  |  |  |
| 14           | <b>K2 Allen bolt with serrated underhead</b> M8 DIN EN ISO 4762<br>Material: stainless steel A2 (1.4301), drive: 6 mm                               | <i>Depending on module frame height</i> |  |  |  |
| <b>Total</b> |   |   |  |  |  |

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