



## Certificate No: MCS BBA 0195

**Technology:** MCS 012 – Pitched Roof Installation Kits

**Products:** S:FLEX Mounting Systems for Pitched Roofs

<b>Photovoltaic Mounting System for pitched roof structures for plain tiles with steel roof hooks</b>	
<b>Components</b>	Roof hook Biber complete Systemrail ST-AK 5/40 l=3150 Mid clamp AK 36-51 End clamp AK II Klick 30-50 Woodscrew 8x80 disc head T40 A2
<b>Installation Type</b>	Above Roof
<b>Permissible roof pitch (Angle °)</b>	30° - 75°
<b>Roofing substrate minimum requirements</b>	Plain tiled (double lapped product)
<b>Maximum design wind uplift resistance (kPa)</b> Calculated by dividing the characteristic wind uplift resistance by the partial safety factor shown below.	2.9
<b>Partial (safety) factor(s)</b>	1.0

<b>Photovoltaic Mounting System for pitched roof structures for tiled roofs with aluminium roof hooks</b>	
<b>Components</b>	Roof hook aluminium 100-7-45 complete Systemrail ST-AK 5/40 l=3150 Mid clamp AK 36-51 End clamp AK II Klick 30-50 Woodscrew 6x80 pan head AW30 A2
<b>Installation Type</b>	Above Roof
<b>Permissible roof pitch (Angle °)</b>	22° - 75°
<b>Roofing substrate minimum requirements</b>	Profiled or flat single lapped tiles
<b>Maximum design wind uplift resistance (kPa)</b> Calculated by dividing the characteristic wind uplift resistance by the partial safety factor shown below.	5.2
<b>Partial (safety) factor(s)</b>	1.0

<b>Photovoltaic Mounting System for fibre-cement, trapezoidal sheet and sandwich roofs with hangerbolts</b>	
<b>Components</b>	Hanger bolt M10x200 pure Bracket 60mm, M10 complete Systemrail ST-AK 5/40 l=3150 Mid clamp AK 36-51 End clamp AK II Klick 30-50
<b>Installation Type</b>	Above Roof
<b>Permissible roof pitch (Angle °)</b>	10° - 75°
<b>Roofing substrate minimum requirements</b>	Profiled metal sheets
<b>Maximum design wind uplift resistance (kPa)</b> Calculated by dividing the characteristic wind uplift resistance by the partial safety factor shown below.	5.2
<b>Partial (safety) factor(s)</b>	1.0

<b>Photovoltaic Mounting System for trapezoidal sheet roofs with sheet metal rails</b>	
<b>Components</b>	Systemrail ST-AK 1/12 l= 180 complete Self-drilling screw 4, 5x26 End clamp AK II Klick 30-50 Mid clamp AK 36-51
<b>Installation Type</b>	Above Roof
<b>Permissible roof pitch (Angle °)</b>	10° - 75°
<b>Roofing substrate minimum requirements</b>	Trapezoidal metal sheet system roofs
<b>Maximum design wind uplift resistance (kPa)</b> Calculated by dividing the characteristic wind uplift resistance by the partial safety factor shown below.	1.5
<b>Partial (safety) factor(s)</b>	1.25


S:FLEX GmbH  
Reinbecker Weg 9  
21029 Hamburg  
Germany

The BBA (British Board of Agrément) has issued this Microgeneration Certification Scheme (MCS) Certificate to the company and products named above, in recognition of the products' compliance with the MCS Scheme Requirements for the technology named above.

On behalf of the British Board of Agrément

Date of issue: 2 March 2018

*Certificate amended on 10 June 2021 due to format change.*



Claire Curtis-Thomas  
Chief Executive

*The BBA is a UKAS accredited product certification body – Number 0113. The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at [www.bbacerts.co.uk](http://www.bbacerts.co.uk). Readers MUST check the validity and latest issue number of this MCS Certificate by either referring to the BBA website or contacting the BBA directly.*

British Board of Agrément  
Bucknalls Lane  
Watford  
Herts WD25 9BA

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tel: 01923 665300  
[clientservices@bbacerts.co.uk](mailto:clientservices@bbacerts.co.uk)  
[www.bbacerts.co.uk](http://www.bbacerts.co.uk)