

Certificate of Approval

Certificate Number: MCS IK0218

Issue: 02

Mounting Systems GmbH

Mittenwalder Straße 9a
15834 Rangsdorf
Germany

having complied with the requirements of the following:

MCS 010: Issue 1.5

Generic Factory Production Control (FPC) Requirements
and

MCS 012: Issue 2.2

Product Certification Scheme Requirements: Pitched Roof
Installation Kits

is authorised to use the BRE Global Certification Mark and the MCS Certification Mark in association with the following products:

Products

Please see Appendix for details

This certificate and appendix is maintained and held in force through periodic review and verification

The products listed in this certificate and appendix are certified through the agreement between BRE Global Ltd. and TÜV Rheinland Energy GmbH




Signed for BRE Global Ltd.

Laura Critien
MCS Operations Manager

20 April 2018
Date of Issue

05 February 2015
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Appendix to Certificate No: MCS IK0218 Mounting Systems GmbH

Issue: 02

Products

Model	Description	Reference No.	
Alpha, Pitched ProLine (Mounting system with Roof Hooks)	Roof Installation Kit (Above roof)	MCS IK0218/01	
<i>Technical Information for the Alpha and Pitched ProLine with Roof Hooks:</i>			
Roof substrate:	timber rafters and batten (with pan tiles)		
Minimum Roof pitch:	20°		
Maximum design wind uplift:	2360.5 Pa (when used on 2 modules with a total of 8 fixings)		
Value of partial safety factor:	1.0		
<i>Components Alpha :</i>		<i>Components Pitched ProLine :</i>	
RH 170	MC FH 24-32mm bl	RH 170	MEC CS FH 50mm
Plywood screw	MC FH 32-46mm	Plywood screw	MEC CS FH 50mm bl
BR 13/58	MC FH 32-46mm bl	BR 4/35 CS	UvMEC CS FH 30-40mm
BR 13/58 bl	MC FH 46-51mm	BR 4/35 CS bl	UvMEC CS FH 30-40mm bl
Splice 13/58	MC FH 46-51mm bl	Splice ext.f. Br 4/35	UvMEC CS FH 33-45mm
MEC FH 33mm		MEC CS FH 31mm	UvMEC CS FH 33-45mm bl
MEC FH 35mm		MEC CS FH 31mm bl	UvMEC CS FH 38-50mm
MEC FH 35mm bl		MEC CS FH 33mm	UvMEC CS FH 38-50mm bl
MEC FH 38mm		MEC CS FH 33mm bl	MC CS FH 30-40mm
MEC FH 40mm		MEC CS FH 35mm	MC CS FH 30-40mm bl
MEC FH 40mm bl		MEC CS FH 35mm bl	MC CS FH 33-45mm
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MEC FH 42mm bl		MEC CS FH 40mm	MC CS FH 38-50mm
MEC FH 43mm		MEC CS FH 40mm bl	MC CS FH 38-50mm bl
MEC FH 45mm		MEC CS FH 42mm	
MEC FH 45mm bl		MEC CS FH 42mm bl	
MEC FH 46mm		MEC CS FH 45mm	
MEC FH 46mm bl		MEC CS FH 45mm bl	
MEC FH 50mm		MEC CS FH 46mm	
MEC FH 50mm bl		MEC CS FH 46mm bl	
MC FH 24-32mm			

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Alpha, Pitched ProLine (Mounting system with Roof Hooks)	Roof Installation Kit (Above Roof)	MCS IK0218/02																																																																																				
<p><i>Technical Information for the Alpha and Pitched ProLine with Roof Hooks:</i></p> <p>Roof substrate: timber rafters and batten (with plain tiles or slates) Minimum Roof pitch: 25° Maximum design wind uplift: 2000 Pa (when used on 2 modules with a total of 8 fixings) Value of partial safety factor: 1.0</p>																																																																																						
<p><i>Components Alpha :</i></p> <table border="0"> <tr><td>RH flate tile</td><td>MEC FH 50mm</td></tr> <tr><td>RH for slate</td><td>MEC FH 50mm bl</td></tr> <tr><td>Bracket f. slate/flat tile RH</td><td>MC FH 24-32mm</td></tr> <tr><td>Plywood screw</td><td>MC FH 24-32mm bl</td></tr> <tr><td>BR 13/58</td><td>MC FH 32-46mm</td></tr> <tr><td>BR 13/58 bl</td><td>MC FH 32-46mm bl</td></tr> <tr><td>Splice 13/58</td><td>MC FH 46-51mm</td></tr> <tr><td>MEC FH 33mm</td><td>MC FH 46-51mm bl</td></tr> <tr><td>MEC FH 35mm</td><td></td></tr> <tr><td>MEC FH 35mm bl</td><td></td></tr> <tr><td>MEC FH 38mm</td><td></td></tr> <tr><td>MEC FH 40mm</td><td></td></tr> <tr><td>MEC FH 40mm bl</td><td></td></tr> <tr><td>MEC FH 42mm</td><td></td></tr> <tr><td>MEC FH 42mm bl</td><td></td></tr> <tr><td>MEC FH 43mm</td><td></td></tr> <tr><td>MEC FH 45mm</td><td></td></tr> <tr><td>MEC FH 45mm bl</td><td></td></tr> <tr><td>MEC FH 46mm</td><td></td></tr> <tr><td>MEC FH 46mm bl</td><td></td></tr> </table>		RH flate tile	MEC FH 50mm	RH for slate	MEC FH 50mm bl	Bracket f. slate/flat tile RH	MC FH 24-32mm	Plywood screw	MC FH 24-32mm bl	BR 13/58	MC FH 32-46mm	BR 13/58 bl	MC FH 32-46mm bl	Splice 13/58	MC FH 46-51mm	MEC FH 33mm	MC FH 46-51mm bl	MEC FH 35mm		MEC FH 35mm bl		MEC FH 38mm		MEC FH 40mm		MEC FH 40mm bl		MEC FH 42mm		MEC FH 42mm bl		MEC FH 43mm		MEC FH 45mm		MEC FH 45mm bl		MEC FH 46mm		MEC FH 46mm bl		<p><i>Components Pitched ProLine :</i></p> <table border="0"> <tr><td>RH flate tile</td><td>MEC CS FH 46mm bl</td></tr> <tr><td>RH for slate</td><td>MEC CS FH 50mm</td></tr> <tr><td>Bracket f. slate/flat tile RH</td><td>MEC CS FH 50mm bl</td></tr> <tr><td>Plywood screw</td><td>UvMEC CS FH 30-40mm</td></tr> <tr><td>BR 4/35 CS</td><td>UvMEC CS FH 30-40mm bl</td></tr> <tr><td>BR 4/35 CS bl</td><td>UvMEC CS FH 33-45mm</td></tr> <tr><td>Splice ext.f. Br 4/35</td><td>UvMEC CS FH 33-45mm bl</td></tr> <tr><td>MEC CS FH 31mm</td><td>UvMEC CS FH 38-50mm</td></tr> <tr><td>MEC CS FH 31mm bl</td><td>UvMEC CS FH 38-50mm bl</td></tr> <tr><td>MEC CS FH 33mm</td><td>MC CS FH 30-40mm</td></tr> <tr><td>MEC CS FH 33mm bl</td><td>MC CS FH 30-40mm bl</td></tr> <tr><td>MEC CS FH 35mm</td><td>MC CS FH 33-45mm</td></tr> <tr><td>MEC CS FH 35mm bl</td><td>MC CS FH 33-45mm bl</td></tr> <tr><td>MEC CS FH 38mm</td><td>MC CS FH 38-50mm</td></tr> <tr><td>MEC CS FH 38mm bl</td><td>MC CS FH 38-50mm bl</td></tr> <tr><td>MEC CS FH 40mm</td><td></td></tr> <tr><td>MEC CS FH 40mm bl</td><td></td></tr> <tr><td>MEC CS FH 42mm</td><td></td></tr> <tr><td>MEC CS FH 42mm bl</td><td></td></tr> <tr><td>MEC CS FH 45mm</td><td></td></tr> <tr><td>MEC CS FH 45mm bl</td><td></td></tr> <tr><td>MEC CS FH 46mm</td><td></td></tr> </table>	RH flate tile	MEC CS FH 46mm bl	RH for slate	MEC CS FH 50mm	Bracket f. slate/flat tile RH	MEC CS FH 50mm bl	Plywood screw	UvMEC CS FH 30-40mm	BR 4/35 CS	UvMEC CS FH 30-40mm bl	BR 4/35 CS bl	UvMEC CS FH 33-45mm	Splice ext.f. Br 4/35	UvMEC CS FH 33-45mm bl	MEC CS FH 31mm	UvMEC CS FH 38-50mm	MEC CS FH 31mm bl	UvMEC CS FH 38-50mm bl	MEC CS FH 33mm	MC CS FH 30-40mm	MEC CS FH 33mm bl	MC CS FH 30-40mm bl	MEC CS FH 35mm	MC CS FH 33-45mm	MEC CS FH 35mm bl	MC CS FH 33-45mm bl	MEC CS FH 38mm	MC CS FH 38-50mm	MEC CS FH 38mm bl	MC CS FH 38-50mm bl	MEC CS FH 40mm		MEC CS FH 40mm bl		MEC CS FH 42mm		MEC CS FH 42mm bl		MEC CS FH 45mm		MEC CS FH 45mm bl		MEC CS FH 46mm	
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Alpha, Pitched ProLine (Mounting System with Hanger Bolts)	Roof Installation Kit (Above Roof)	MCS IK0218/03	
<i>Technical Information for the Alpha and Pitched ProLine Hanger Bolt system:</i>			
Roof substrate:	Profiled metal sheet		
Minimum Roof pitch:	5°		
Maximum design wind uplift:	2860.5.8 Pa (when used on 2 modules with a total of 8 fixings)		
Value of partial safety factor:	1.0		
<i>Components Alpha :</i>		<i>Components Pitched ProLine :</i>	
H-bolt	MEC FH 50mm bl	H-bolt	MEC CS FH 50mm
L-bracket	MC FH 24-32mm	L-bracket	MEC CS FH 50mm bl
L-bracket streng	MC FH 24-32mm bl	L-bracket streng	UvMEC CS FH 30-40mm
Bracket f. H-bolt	MC FH 32-46mm	Bracket f. H-bolt	UvMEC CS FH 30-40mm bl
BR 13/58	MC FH 32-46mm bl	BR 4/35 CS	UvMEC CS FH 33-45mm
BR 13/58 bl	MC FH 46-51mm	BR 4/35 CS bl	UvMEC CS FH 33-45mm bl
Splice 13/58	MC FH 46-51mm bl	Splice ext.f. Br 4/35	UvMEC CS FH 38-50mm
MEC FH 33mm		MEC CS FH 31mm	UvMEC CS FH 38-50mm bl
MEC FH 35mm		MEC CS FH 31mm bl	MC CS FH 30-40mm
MEC FH 35mm bl		MEC CS FH 33mm	MC CS FH 30-40mm bl
MEC FH 38mm		MEC CS FH 33mm bl	MC CS FH 33-45mm
MEC FH 40mm		MEC CS FH 35mm	MC CS FH 33-45mm bl
MEC FH 40mm bl		MEC CS FH 35mm bl	MC CS FH 38-50mm
MEC FH 42mm		MEC CS FH 38mm	MC CS FH 38-50mm bl
MEC FH 42mm bl		MEC CS FH 38mm bl	
MEC FH 43mm		MEC CS FH 40mm	
MEC FH 45mm		MEC CS FH 40mm bl	
MEC FH 45mm bl		MEC CS FH 42mm	
MEC FH 46mm		MEC CS FH 42mm bl	
MEC FH 46mm bl		MEC CS FH 45mm	
MEC FH 50mm		MEC CS FH 45mm bl	
		MEC CS FH 46mm	
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Model	Description	Reference No.	
Tau, Trapeze ProLine (Mounting System with side and top fixing)	Roof Installation Kit (Above Roof)	MCS IK0218/04	
<i>Technical Information for the Tau and Trapeze ProLine side and top fixing system:</i>			
Roof substrate:	Profiled metal sheet		
Minimum roof pitch:	5°		
Maximum design wind uplift:	2693.8 Pa (when used on 2 modules and fixed on each high bead)		
Value of partial safety factor:	1.0		
<i>Components Tau :</i>		<i>Components Trapeze ProLine :</i>	
Tau rail	MC FH 24-32mm	BR 1/21 CS	MEC CS FH 46mm bl
Tau Splice	MC FH 24-32mm bl	Splice ext.f. BR 1/21 CS	MEC CS FH 50mm
Side fix. clip	MC FH 32-46mm	Side fix. clip	MEC CS FH 50mm bl
Top fix clip	MC FH 32-46mm bl	Top fix clip	UvMEC CS FH 30-40mm
EJOTfast	MC FH 46-51mm	EJOTfast	UvMEC CS FH 30-40mm bl
MEC FH 33mm	MC FH 46-51mm bl	MEC CS FH 31mm	UvMEC CS FH 33-45mm
MEC FH 35mm		MEC CS FH 31mm bl	UvMEC CS FH 33-45mm bl
MEC FH 35mm bl		MEC CS FH 33mm	UvMEC CS FH 38-50mm
MEC FH 38mm		MEC CS FH 33mm bl	UvMEC CS FH 38-50mm bl
MEC FH 40mm		MEC CS FH 35mm	MC CS FH 30-40mm
MEC FH 40mm bl		MEC CS FH 35mm bl	MC CS FH 30-40mm bl
MEC FH 42mm		MEC CS FH 38mm	MC CS FH 33-45mm
MEC FH 42mm bl		MEC CS FH 38mm bl	MC CS FH 33-45mm bl
MEC FH 43mm		MEC CS FH 40mm	MC CS FH 38-50mm
MEC FH 45mm		MEC CS FH 40mm bl	MC CS FH 38-50mm bl
MEC FH 45mm bl		MEC CS FH 42mm	
MEC FH 46mm		MEC CS FH 42mm bl	
MEC FH 46mm bl		MEC CS FH 45mm	
MEC FH 50mm		MEC CS FH 45mm bl	
MEC FH 50mm bl		MEC CS FH 46mm	

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Model	Description	Reference No.
Trapeze ProLine (Mounting System with direct fixing profile)	Roof Installation Kit (Above Roof)	MCS IK0218/05
<i>Technical Information for the Trapeze ProLine direct fixing profile system:</i>		
Roof substrate:	Profiled metal sheet	
Minimum Roof pitch:	5°	
Maximum design wind uplift:	2360.5 Pa (when used on 2 modules and with a total of 6 fixings)	
Value of partial safety factor:	1.0	
<i>Components:</i>		
BR 1/15 CS landsc.	MEC CS FH 46mm bl	
EJOTfast	MEC CS FH 50mm	
MEC CS FH 31mm	MEC CS FH 50mm bl	
MEC CS FH 31mm bl	UvMEC CS FH 30-40mm	
MEC CS FH 33mm	UvMEC CS FH 30-40mm bl	
MEC CS FH 33mm bl	UvMEC CS FH 33-45mm	
MEC CS FH 35mm	UvMEC CS FH 33-45mm bl	
MEC CS FH 35mm bl	UvMEC CS FH 38-50mm	
MEC CS FH 38mm	UvMEC CS FH 38-50mm bl	
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MEC CS FH 45mm bl		
MEC CS FH 46mm		

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