

Certificate of Approval

Certificate Number: MCS IK0237

Issue: 01

Clenergy Europe Limited

Clenergy Court
Blisworth Hill Farm, Stoke Road
Blisworth
Northamptonshire
NN7 3DB

Having complied with the requirements of the following:

MCS 010-Issue 1.5

Factory Production Control Requirements
and

MCS 012: Issue 2.1

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.


Signed for BRE Global Ltd.

Laura Critien
Operations Manager, MCS

20 May 2016
Date of Issue

20 May 2016
Date of First Issue



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Appendix to Certificate No: MCS IK0237

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Products

Model	Description	Reference No.
PV-ezRack Trapezoidal	Roof Installation Kit (Above roof)	MCS IK0237/01
<p><i>Technical Information for the PV-ezRack Trapezoidal:</i></p> <p>Roof substrate: Trapezoidal profile metal sheet roof</p> <p>Minimum Roof pitch: 5°</p> <p>Maximum design wind uplift: 4791 N for a single fixing with 3 screws</p> <p>Value of partial safety factor: 1.1</p>		
<p><i>Components:</i></p> <p>ER-S-U/120 Trapezoidal U-support</p> <p>ER-U-S5.5*25 Self drilling screws</p> <p>ER-IC-ST 32, -35, -40, -45, -46, -50 Inter clamp</p> <p>ER-IC-ST 30B, -32B, -35B, -40B, -45B, -46B, -50B Inter clamp, black anodized</p> <p>ER-EC-ST35, -40, -45, -46, -50 End clamp</p> <p>ER-EC-ST30B, -35B, -40B, -45B, -46B, -50B End clamp, black anodized</p> <p>ER-R-PRO2560, -3405, -4200 SolarRoof Pro Rail, silver anodized</p> <p>ER-R-PRO2560B, -3405B, -4200B SolarRoof Pro Rail, black anodized</p> <p>ER-SP-ST SolarRoof Pro Rail splice</p> <p>ER-CC-PRO SolarRoof Pro cross rail connectors</p> <p>ER-C-PRO35 ezClip35 assembly</p> <p>ER-CAP-PRO/B, /G SolarRoof Pro cap for pro rail / black, /grey</p>		

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Model	Description	Reference No.
PV-ezRack Klip-Lok Standing Seam Clamp for rounded profile	Roof Installation Kit (Above roof)	MCS IK0237/02
Technical Information for the PV-ezRack Klip-Lok Standing Seam Clamp for rounded profile:		
Roof substrate:	Aluminium standing-seam roof, rounded profile (no penetration)	
Minimum Roof pitch:	5°	
Maximum design wind uplift:	2011 N for a single clamp	
Value of partial safety factor:	1.1	
Components:		
ER-I-16	Klip-Lok standing seam clamp for rounded profile standing seams	
ER-B-H8/20	Hexagon socket bolt, M8x20	
ER-IC-ST 32, -35, -40, -45, -46, -50	Inter clamp	
ER-IC-ST 30B, -32B, -35B, -40B, -45B, -46B, -50B	Inter clamp, black anodized	
ER-EC-ST35, -40, -45, -46, -50	End clamp	
ER-EC-ST30B, -35B, -40B, -45B, -46B, -50B	End clamp, black anodized	
ER-R-PRO2560, -3405, -4200	SolarRoof Pro Rail, silver anodized	
ER-R-PRO2560B, -3405B, -4200B	SolarRoof Pro Rail, black anodized	
ER-SP-ST	SolarRoof Pro Rail splice	
ER-CC-PRO	SolarRoof Pro cross rail connectors	
ER-C-PRO35	ezClip35 assembly	
ER-CAP-PRO/B, /G	SolarRoof Pro cap for pro rail / black, /grey	

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Model	Description	Reference No.
PV-ezRack Klip-Lok Standing Seam Clamp for flat profile	Roof Installation Kit (Above roof)	MCS IK0237/03
<p><i>Technical Information for the PV-ezRack Klip-Lok Standing Seam Clamp for flat profile:</i></p> <p>Roof substrate: Aluminium standing-seam roof, flat profile (no penetration)</p> <p>Minimum Roof pitch: 5°</p> <p>Maximum design wind uplift: 2066 N for a single clamp</p> <p>Value of partial safety factor: 1.1</p> <p><i>Components:</i></p> <p>ER-I-17 Klip-Lok standing seam clamp for flat profile standing seams</p> <p>ER-B-H8/20 Hexagon socket bolt, M8x20</p> <p>ER-IC-ST 32, -35, -40, -45, -46, -50 Inter clamp</p> <p>ER-IC-ST 30B, -32B, -35B, -40B, -45B, -46B, -50B Inter clamp, black anodized</p> <p>ER-EC-ST35, -40, -45, -46, -50 End clamp</p> <p>ER-EC-ST30B, -35B, -40B, -45B, -46B, -50B End clamp, black anodized</p> <p>ER-R-PRO2560, -3405, -4200 SolarRoof Pro Rail, silver anodized</p> <p>ER-R-PRO2560B, -3405B, -4200B SolarRoof Pro Rail, black anodized</p> <p>ER-SP-ST SolarRoof Pro Rail splice</p> <p>ER-CC-PRO SolarRoof Pro cross rail connectors</p> <p>ER-C-PRO35 ezClip35 assembly</p> <p>ER-CAP-PRO/B, /G SolarRoof Pro cap for pro rail / black, /grey</p>		

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Model	Description	Reference No.
PV-ezRack Timber Hanger Bolt	Roof Installation Kit (Above roof)	MCS IK0237/04
<i>Technical Information for the PV-ezRack Timber Hanger Bolt:</i>		
Roof substrate:	Metal roof sheet with 50mm x 150mm grade C16 timber rafter	
Minimum Roof pitch:	5°	
Maximum design wind uplift:	2269 N for a single bolt	
Value of partial safety factor:	1.1	
<i>Components:</i>		
ER-HB-10/200A	PV-ez Timber Hanger Bolt	
ER-IC-ST 32, -35, -40, -45, -46, -50	Inter clamp	
ER-IC-ST 30B, -32B, -35B, -40B, -45B, -46B, -50B	Inter clamp, black anodized	
ER-EC-ST35, -40, -45, -46, -50	End clamp	
ER-EC-ST30B, -35B, -40B, -45B, -46B, -50B	End clamp, black anodized	
ER-R-PRO2560, -3405, -4200	SolarRoof Pro Rail, silver anodized	
ER-R-PRO2560B, -3405B, -4200B	SolarRoof Pro Rail, black anodized	
ER-SP-ST	SolarRoof Pro Rail splice	
ER-CC-PRO	SolarRoof Pro cross rail connectors	
ER-C-PRO35	ezClip35 assembly	
ER-CAP-PRO/B, /G	SolarRoof Pro cap for pro rail / black, /grey	

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Model	Description	Reference No.
PV-ezRack SolarRoof Pro roof hook system	Roof Installation Kit (Above roof)	MCS IK0237/05
Technical Information for the PV-ezRack SolarRoof Pro roof hook system:		
Roof substrate:	Timber rafters and battens with pan tiles or slates	
Minimum Roof pitch:	15°	
Maximum design wind uplift:	1207 Pa (with 2 PV modules and 6 Hooks) or 3223 N	
Value of partial safety factor:	1.0	
Components:		
ER-I-PRO/01	SolarRoof Pro Universal Hook for Interlocking Tiles (507 N per hook)	
ER-I-PRO/01A	SolarRoof Pro Universal Hook for Interlocking Tiles (486 N per hook)	
ER-I-PRO/01AL	SolarRoof Pro Universal Hook for Interlocking Tiles (268 N per hook)	
ER-I-PRO/02	SolarRoof Pro Universal Hook for Plain Tiles (231 N per hook)	
ER-I-PRO/04	SolarRoof Pro Universal Hook for Slates (399 N per hook)	
ER-I-PRO/07	SolarRoof Pro Universal Hook for Plain Tiles (344 N per hook)	
ER-IC-ST 32, -35, -40, -45, -46, -50	Inter clamp	
ER-IC-ST 30B, -32B, -35B, -40B, -45B, -46B, -50B	Inter clamp, black anodized	
ER-EC-ST35, -40, -45, -46, -50	End clamp	
ER-EC-ST30B, -35B, -40B, -45B, -46B, -50B	End clamp, black anodized	
ER-R-PRO2560, -3405, -4200	SolarRoof Pro Rail, silver anodized	
ER-R-PRO2560B, -3405B, -4200B	SolarRoof Pro Rail, black anodized	
ER-SP-ST	SolarRoof Pro Rail splice	
ER-CC-PRO	SolarRoof Pro cross rail connectors	
ER-C-PRO35	ezClip35 assembly	
ER-CAP-PRO/B, /G	SolarRoof Pro cap for pro rail / black, /grey	
-	Genius SolarFlash shroud	

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