Certificate of Approval

Certificate Number: MCS IK0193 Issue: 03

Wagner Renewables Ltd.
Unit 3, Keynor Farm
Sidlesham
West Sussex
PO20 7LL, UK

Having complied with the requirements of the following:

MCS 010-Issue 1.5
Factory Production Control Requirements
and
MCS 012: Issue 1.2
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.

Signed for BRE Global Ltd.	John Holden Business Group Manager	02 June 2017 Date of Issue	20 June 2014 Date of First Issue

BRE Global Ltd., Garston, Watford WD25 9XX.
T: +44 (0)333 321 8811 F: +44 (0)1923 664603 E: enquiries@breglobal.com
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Appendix to Certificate No: MCS IK0193

Issue: 03

Wagner Renewables Ltd.

Product(s)

Model	Description	Reference No.
TRIC A On Roof Mounting System	Roof Installation Kit (Above Roof)	MCS IK0193/01

Which includes the following components:

Roof Anchors
TRIC P A2 Top Bracket
TRIC P A2 HV Top Bracket
TRIC TR Fix Roof Bracket
TRIC P Alu HVN Top Bracket
TRIC P Low STV UK Bracket
TRIC P STV KF Top Bracket
TRIC BE Roof Bracket for wood
TRIC BE Roof Bracket for steel
TRIC KA Roof Bracket for wood
TRIC KA Roof Bracket for fibre cement sheet roofs

Rails
TRIC LDC Mounting Rail
TRIC HDC Mounting Rail

Clamp
TRIC Clip Module Fastener

Technical information for TRIC A On Roof Mounting System:

SYSTEM	
Maximum design wind uplift:	2992.5Pa
Value of partial safety factor:	1.1
COMPONENTS	
TRIC P A2 Bracket	
Roof substrate:	Timber rafters (rafter size should be adequate to resist applied wind load and comply with current building regulations of the country in which installed)
Minimum roof pitch:	10°
Maximum design wind uplift:	513.2N
Value of partial safety factor:	1.0
TRIC P A2 HV Bracket	
Roof substrate:	Timber rafters (rafter size should be adequate to resist applied wind load and comply with current building regulations of the country in which installed)
Minimum roof pitch:	10°
Maximum design wind uplift:	538.5N
Value of partial safety factor:	1.0
TRIC TR Fix Trapezoidal Bracket	
Roof substrate:	Corrugated tin roof
Minimum roof pitch:	10°
Maximum design wind uplift:	2418.4N
Value of partial safety factor:	1.25

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TRIC P Alu HVN Bracket	
Roof substrate:	Timber rafters (rafter size should be adequate to resist applied wind load and comply with current building regulations of the country in which installed)
Minimum roof pitch:	10°
Maximum design wind uplift:	544.5 N
Value of partial safety factor:	1.0
TRIC P Low Galv UK Bracket	
Roof substrate:	Timber rafters (rafter size should be adequate to resist applied wind load and comply with current building regulations of the country in which installed)
Minimum roof pitch:	10°
Maximum design wind uplift:	941.9 N
Value of partial safety factor:	1.0
TRIC P STV KF Bracket	
Roof substrate:	Timber rafters (rafter size should be adequate to resist applied wind load and comply with current building regulations of the country in which installed)
Minimum roof pitch:	10°
Maximum design wind uplift:	1355.9 N
Value of partial safety factor:	1.0
TRIC KA Roof Bracket for wood/ TRIC KA Roof Bracket for fibre cement sheet roofs	
Roof substrate:	Timber rafter (rafter size should be adequate to resist applied wind load and comply with current building regulations of the country in which installed)
Minimum roof pitch:	10°
Maximum design wind uplift:	7494 N
Value of partial safety factor:	1.44
TRIC BE Roof Bracket for wood	
Roof substrate:	Timber rafter (rafter size should be adequate to resist applied wind load and comply with current building regulations of the country in which installed)
Minimum roof pitch:	10°
Maximum design wind uplift:	4507 N
Value of partial safety factor:	1.44
TRIC BE Roof Bracket for steel	
Roof substrate:	Steel purlin
Minimum roof pitch:	10°
Maximum design wind uplift:	1790 N
Value of partial safety factor:	1.0

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