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MCS Product Certification Certificate

Issued by Kiwa Ltd

Producer Name:	**Sunfixings Ltd**
Producer Address:	R3 Bourton Industrial Estate, Bourton on the Water Cheltenham GL54 2HQ
Manufacturer Name:	**Sunfixings Ltd**
Manufacturer Address:	As Above
Certificate Number:	KIWA 00013
Issue Number:	4
Date Issued:	5th December 2016
Annual Review Date:	28th May
Original/Amendment	Original
MCS Product Certification Scheme Standards	MCS010, MCS011, MCS012 v2.1
Model Designations	See Appendix

Declaration
Kiwa Ltd declares that the products detailed in the Annex have been assessed by Kiwa and meet the requirements of the above MCS Product Certification Standards.

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Signed on behalf of Kiwa Ltd

M I Crowther

Mark Crowther – MCS Certification Director

Kiwa Ltd
Kiwa House
Malvern View Business Park,
Stella Way, Bishops Cleeve,
Cheltenham, GL52 7DQ

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Appendix to Certificate KIWA00013

Product Name	Model Name	MCS Certificate Number
SUNFIXINGS Roof Hook System	SUNFIXINGS Roof Hook System	KIWA 00013/007 IK

Range of Permissible Roof Pitch (degrees)	*>20°*	
Compatible Roof Coverings	*Tiles*	
Roofing Substrate For certified wind uplift resistance in sound timber	Min rafter size (hxw mm)	Roofing Substrate For certified wind uplift resistance in sound timber
	For wooden rafters minimum size 150 mm x 55 mm	*Timber 25 mm x 38 mm*
Further notes on fixing (where relevant)	*Must be secured with wood screws supplied by Sunfixings UK Ltd.*	
Maximum Design Wind Uplift Calculated by dividing the characteristic wind uplift by the partial safety factor shown below	*5.9kPa - based on 3 roof attachments per m2 of solar panel*	
Partial (safety) factor(s)	*1*	
Fire Classification	BS476-3:2004	Fire Classification
	N/A	N/A
Limitations on Fire Classification	*This kit is suitable for:* *Above roof installations over non-flammable outer roof covering only*	

This certificate is subject to the producer continuing to comply with the Kiwa MCS Product Scheme Rules and ongoing Annual Surveillance.

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Product Name	Model Name	MCS Certificate Number
SUNFIXINGS Hanger Bolt System	SUNFIXINGS Hanger Bolt System	KIWA 00013/008 IK

Range of Permissible Roof Pitch (degrees)	*>10°*	
Compatible Roof Coverings	*Fibre-cement profiled sheets and metal profiled sheets over steel or timber sub-structures*	
Roofing Substrate For certified wind uplift resistance in sound timber	Min rafter size (hxw mm)	Roofing Substrate For certified wind uplift resistance in sound timber
	For wooden rafters minimum size 150 mm x 55 mm	*Tested on Zed profile (142 Z 16)*
Further notes on fixing (where relevant)	*0*	
Maximum Design Wind Uplift Calculated by dividing the characteristic wind uplift by the partial safety factor shown below	*7.6kPa - based on 2 roof attachments per m2 of solar panel*	
Partial (safety) factor(s)	*1*	
Fire Classification	BS476-3:2004	Fire Classification
	N/A	N/A
Limitations on Fire Classification	*This kit is suitable for:* *Above roof installations over non-flammable outer roof covering only*	

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Product Name	Model Name	MCS Certificate Number
SUNFIXINGS Standing Seam System	SUNFIXINGS Standing Seam System	KIWA 00013/009 IK

Range of Permissible Roof Pitch (degrees)	*>5°*	
Compatible Roof Coverings	*Standing seam type metal sheet roof coverings*	
Roofing Substrate For certified wind uplift resistance in sound timber	Min rafter size (hxw mm)	Roofing Substrate For certified wind uplift resistance in sound timber
	Tested on Euroclad Standingseam (Elite system 4	*Tested on Zed profile (142 Z 16)*
Further notes on fixing (where relevant)	*0*	
Maximum Design Wind Uplift Calculated by dividing the characteristic wind uplift by the partial safety factor shown below	*9.5kPa - based on 5 roof attachments per m2 of solar panel*	
Partial (safety) factor(s)	*1*	
Fire Classification	BS476-3:2004	Fire Classification
	N/A	N/A
Limitations on Fire Classification	*This kit is suitable for:* *Above roof installations over non-flammable outer roof covering only*	

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Product Name	Model Name	MCS Certificate Number
SUNFIXINGS Mounting Rail Direct	SUNFIXINGS Mounting Rail Direct	KIWA 00013/010 IK

Range of Permissible Roof Pitch (degrees)	*>10°*	
Compatible Roof Coverings	*Trapezoid profiled metal sheet roof coverings, minimum thickness 0.5mm*	
Roofing Substrate For certified wind uplift resistance in sound timber	Min rafter size (hxw mm)	Roofing Substrate For certified wind uplift resistance in sound timber
	For wooden rafters minimum size 150 mm x 55 mm	*Tested on Zed profile (142 Z 16)*
Further notes on fixing (where relevant)	*0*	
Maximum Design Wind Uplift Calculated by dividing the characteristic wind uplift by the partial safety factor shown below	*9.5kPa - based on 16 roof attachments per m2 of solar panel*	
Partial (safety) factor(s)	*1*	
Fire Classification	BS476-3:2004	Fire Classification
	N/A	*N/A*
Limitations on Fire Classification	*This kit is suitable for:* *Above roof installations over non-flammable outer roof covering only*	

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Product Name	Model Name	MCS Certificate Number
SUNFIXINGS In Roof System	SUNFIXINGS In Roof System	KIWA 00013/011 IK

Range of Permissible Roof Pitch (degrees)	*>10°*	
Compatible Roof Coverings	*Any over metal or wood sub-structures as the system replaces the roof covering with trapezoidal profiled metal sheets*	
Roofing Substrate For certified wind uplift resistance in sound timber	Min rafter size (hxw mm)	Roofing Substrate For certified wind uplift resistance in sound timber
	For wooden rafters minimum size 150 mm x 55 mm	*Tested on Zed profile (142 Z 16)*
Further notes on fixing (where relevant)	*Must be installed with materials defined by Sunfixings for the stated fire rating to apply.*	
Maximum Design Wind Uplift Calculated by dividing the characteristic wind uplift by the partial safety factor shown below	*9.5kPa - based on 16 roof attachments per m2 of solar panel*	
Partial (safety) factor(s)	*1*	
Fire Classification	BS476-3:2004	Fire Classification
	0	*BROOF(t4)*
Limitations on Fire Classification	*0*	

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Product Name	Model Name	MCS Certificate Number
SUNFIXINGS Pitched Roof System	SUNFIXINGS Pitched Roof System	KIWA 00013/012 IK

Range of Permissible Roof Pitch (degrees)	*>20°*	
Compatible Roof Coverings	*Tiles over timber sub-structures*	
Roofing Substrate For certified wind uplift resistance in sound timber	Min rafter size (hxw mm)	Roofing Substrate For certified wind uplift resistance in sound timber
	For wooden rafters minimum size 150 mm x 55 mm	*Timber 25 mm x 38 mm*
Further notes on fixing (where relevant)	*Must be secured with wood screws supplied by Sunfixings UK Ltd.*	
Maximum Design Wind Uplift Calculated by dividing the characteristic wind uplift by the partial safety factor shown below	*2.6 kPa - based on 3 roof attachments per m2 of solar panel*	
Partial (safety) factor(s)	*1*	
Fire Classification	BS476-3:2004	Fire Classification
	N/A	*N/A*
Limitations on Fire Classification	*This kit is suitable for:* *Above roof installations over non-flammable outer roof covering only*	

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Product Name	Model Name	MCS Certificate Number
SUNFIXINGS Hook Plate System	SUNFIXINGS Hook Plate System	KIWA 00013/013 IK

Range of Permissible Roof Pitch (degrees)	>10°	
Compatible Roof Coverings	1. Plywood deck 2. Insulation over plywood deck 3. Insulation over trapezoid steel deck 4. Insulation over concrete deck	
Roofing Substrate For certified wind uplift resistance in sound timber	Min rafter size (hxw mm)	Roofing Substrate For certified wind uplift resistance in sound timber
	1. For wooden rafters 155mm x 55mm 2. For wooden rafters 155mm x 55mm 3. For wooden rafters 155mm x 55mm 4. N/A	1. Minimum plywood thickness 15mm 2. Minimum plywood thickness 15mm 3. N/A 4. N/A
Further notes on fixing (where relevant)	*1. Secured with at least eight, 4.8 mm x 35 mm, stainless steel screws; PJM-tec AG 7160 , or, Ejot TKR 4.8* *2. Secured with at least eight, 4.8 mm x 35 mm, stainless steel screws; Ejot TKR 4.8 with HTK thermal tube* *3. Secured with at least eight, 4.8 mm x 35 mm, stainless steel screws; Ejot TKR 4.8 with HTK thermal tube* *4. Secured with at least eight, 6.3 mm x 35 mm, stainless steel screws; Ejot FBS-R 6.3 with Eco Tek thermal tube*	
Maximum Design Wind Uplift Calculated by dividing the characteristic wind uplift by the partial safety factor shown below	9.522kN for four roof attachments each fixed with at least eight of the specified screws. Equivalent to 5.0kPa with 1.9m2 of panels mounted on these attachments using 40x40 mounting rail and clamps as specified by Sunfixings Ltd.	
Partial (safety) factor(s)	1.1	
Fire Classification	BS476-3:2004	Fire Classification
	N/A	N/A
Limitations on Fire Classification	This kit is suitable for: Above roof installations over outer roof coverings with an appropriate fire rating only	

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