

# MCS Product Certification Certificate

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Issued by Kiwa Ltd

<b>Producer Name:</b>	<b>Schletter GmbH</b>
<b>Producer Address:</b>	Gewerbegebiet an der B15 Alustraße 1 Kirchdorf/Haag i OB 83527 Germany
<b>Manufacturer Name:</b>	<b>Schletter GmbH</b>
<b>Manufacturer Address:</b>	As Above
<b>Certificate Number:</b>	KIWA 00010
<b>Issue Number:</b>	2
<b>Date Issued:</b>	15 <sup>th</sup> August 2016
<b>Annual Review Date:</b>	18 <sup>th</sup> July
<b>Original/Amendment</b>	Original
<b>MCS Product Certification Scheme Standards</b>	MCS010, MCS011, MCS012 v2.1
<b>Model Designations</b>	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.

Signed on behalf of Kiwa Ltd

  
Mark Crowther – MCS Certification Director

Certificate



# Appendix to Certificate KIWA 00010

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Product Name	Model Name	MCS Certificate Number					
Standard System	Standard System	KIWA 00010/009 IK					
Range of Permissible Roof Pitch (degrees)	>17.5°						
Compatible Roof Coverings	Tiled roofs with wooden substructure						
Roofing Substrate For certified wind uplift resistance in sound timber	Min rafter size (hwx mm)	Roofing Substrate For certified wind uplift resistance in sound timber					
	<i>Attachments including minimum timber sizes must be in accordance with Schletter's guidance document "Edge distances of wood screwings"</i>						
Further notes on fixing (where relevant)	<i>Tiles may need to be ground in accordance with manufacturer instructions to ensure satisfactory fitting of mounting hooks.</i>						
Maximum Design Wind Uplift Calculated by dividing the characteristic wind uplift by the partial safety factor shown below	<i>Values are based on 4 roof hooks per m2 of solar panel</i>						
	<b>Roof Pitch (Degrees)</b>	<b>10</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>
	<b>Uplift resistance (kPa)</b>						
	<i>Universal</i>	2.88	2.88	2.84	2.8	2.76	2.72
	<i>Eco G</i>	1.84	1.84	1.96	1.96	1.96	1.96
	<i>Eco V</i>	1.96	2.04	2.12	2.16	2.2	2.24
	<i>Roof Hook EcoS Extra</i>	2.4	2.44	2.48	2.52	2.52	2.52
	<i>EcoS-135</i>	2.56	2.64	2.72	2.72	2.72	2.72
	<i>EcoS-135 bar 130</i>	2.16	2.2	2.24	2.24	2.24	2.24
	<i>EcoS-165</i>	2.48	2.56	2.64	2.72	2.72	2.72
	<i>Roof Hook EcoS-195</i>	2.44	2.52	2.6	2.64	2.68	2.68
	<i>Eco SV Extra</i>	2.44	2.52	2.6	2.64	2.68	2.68
	<i>Plain Tile (Basic)</i>	1.72	1.72	1.72	1.72	1.72	1.72
	<i>Plain Tile (Universal)</i>	2.24	2.24	2.24	2.24	2.24	2.24
Partial (safety) factor(s)	1.5						
Fire Classification	BS476-3:2004			Fire Classification			
	N/A			N/A			
Limitations on Fire Classification	<i>This kit is suitable for: Above roof installations over non-flammable outer roof covering only</i>						

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

Signed on behalf of Kiwa Ltd

  
Mark Crowther – MCS Certification Director



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Product Name	Model Name	MCS Certificate Number					
Rapid 2+ System	Rapid 2+ System	KIWA 00010/0010 IK					
Range of Permissible Roof Pitch (degrees)	>25°						
Compatible Roof Coverings	Tiled roofs with wooden substructure						
Roofing Substrate For certified wind uplift resistance in sound timber	Min rafter size (h x w mm)	Roofing Substrate For certified wind uplift resistance in sound timber					
	Attachments including minimum timber sizes must be in accordance with Schletter's guidance document "Edge distances of wood screwings"	Attachments including minimum timber sizes must be in accordance with Schletter's guidance document "Edge distances of wood screwings"					
Further notes on fixing (where relevant)	Tiles may need to be ground in accordance with manufacturer instructions to ensure satisfactory fitting of mounting hooks.						
Maximum Design Wind Uplift Calculated by dividing the characteristic wind uplift by the partial safety factor shown below	Values are based on 4 roof hooks per m <sup>2</sup> of solar panel						
	<b>Roof Pitch (Degrees)</b>	<b>10</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>
	<b>Uplift resistance (kPa)</b>						
	Rapid 2+ 45	3.36	3.32	3.24	3.16	3.08	3
	Rapid 2+ 45V	1.96	1.92	1.88	1.84	1.8	1.76
	Rapid 2+ 35	3.4	3.36	3.36	3.2	3.12	3.08
	Rapid 2+ 55	3.36	3.32	3.24	3.16	3.08	3
	Rapid 2+ Universal	1.96	1.92	1.88	1.84	1.8	1.76
	Rapid 2+ Max	4.32	4.32	4.28	4.24	4.2	4.16
	Rapid 2+ Max 35	4.32	4.32	4.28	4.24	4.2	4.16
Rapid 2+ Max V	5.96	1.92	1.88	1.84	1.8	1.76	
Rapid 2+ Max 150	4.32	4.32	4.28	4.24	4.2	4.16	
Rapid 2+ Slate 75	4.04	4.04	4.04	4.04	4.04	4.04	
Rapid 2+ Slate 125	4.6	4.6	4.6	4.6	4.6	4.6	
Partial (safety) factor(s)	1.5						
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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Signed on behalf of Kiwa Ltd

*M Z Crowther*

Mark Crowther – MCS Certification Director

Certificate



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

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Product Name	Model Name	MCS Certificate Number					
Standing Seam Clamps	Standing Seam Clamps	KIWA 00010/011 IK					
Range of Permissible Roof Pitch (degrees)	>5°						
Compatible Roof Coverings	Metal roofs with standing seams						
Roofing Substrate For certified wind uplift resistance in sound timber	Min rafter size (hwx mm)	Roofing Substrate For certified wind uplift resistance in sound timber					
	Specific clamps to be used on standing seam type defined by Schletter.	N/A					
Further notes on fixing (where relevant)	N/A						
Maximum Design Wind Uplift Calculated by dividing the characteristic wind uplift by the partial safety factor shown below	Values are based on 4 roof hooks per m2 of solar panel						
	<b>Roof Pitch (Degrees)</b>	<b>10</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>
	<b>Uplift resistance (kPa)</b>						
	Seam Clamp 503	2.4	2.4	2.4	2.4	2.4	2.4
	Seam Clamp 510 KalZip	2.4	2.4	2.4	2.4	2.4	2.4
	Seam Clamp 510 KalZip für KlickTop	2.4	2.4	2.4	2.4	2.4	2.4
	Seam Clamp 520 Zambelli RibRoof 465 Alu	1.8	1.8	1.8	1.8	1.8	1.8
	Seam Clamp Zambelli RibRoof KlickTop	1.8	1.8	1.8	1.8	1.8	1.8
	Seam Clamp 522-A Zambelli RibRoof 500 Alu	2.4	2.4	2.4	2.4	2.4	2.4
	Seam Clamp Zambelli RibRoof 500 KlickTop	2.4	2.4	2.4	2.4	2.4	2.4
	Seam Clamp 524 Fischer Klip Tec 52-400 Alu	0.8	0.8	0.8	0.8	0.8	0.8
	Seam Clamp Fischer Klip 52-400 KlickTop	0.8	0.8	0.8	0.8	0.8	0.8
Partial (safety) factor(s)	1.5						
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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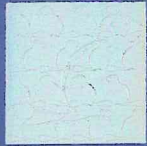
Product Name	Model Name	MCS Certificate Number						
FixE	FixE	KIWA 00010/0012 IK						
Range of Permissible Roof Pitch (degrees)	>10°							
Compatible Roof Coverings	Cement fibre or metal profile roofs over wood or metal sub-structures							
Roofing Substrate For certified wind uplift resistance in sound timber	Min rafter size (h x w mm)	Roofing Substrate For certified wind uplift resistance in sound timber						
	Attachments including minimum timber sizes must be in accordance with Schletter's guidance document "Edge distances of wood screwings"	Attachments including minimum timber sizes must be in accordance with Schletter's guidance document "Edge distances of wood screwings"						
Further notes on fixing (where relevant)	<p>Ø 10 indicates fixed with Wood screw ø10 depth leff = 60 mm                      Ø 12 indicates fixed with Wood screw ø10 depth leff = 60 mm</p>							
Maximum Design Wind Uplift Calculated by dividing the characteristic wind uplift by the partial safety factor shown below	Values are based on 4 roof attachments per m2 of solar panel							
	Roof Pitch (Degrees)		10	20	30	40	50	60
	FixE Upstand type	Part No.	Uplift resistance (kPa)					
	FixE size 1 S320	111006-000	4	3.96	3.92	3.84	3.8	3.76
	FixE size 2 S320	111007-000	5.2	5.16	5.04	4.96	4.88	4.8
	FixE size 3 S320	111008-000	7.68	7.64	7.6	7.56	7.52	7.48
	FixE size 2 C24 Ø 10	111210-200	5.2	5.12	5.04	4.96	4.88	4.8
	FixE size 2 C24 Ø 12	111212-000	5.2	5.12	5.04	4.96	4.88	4.8
	Hanger Bolt Kit	110010	11.20	11.12	11.04	10.96	10.88	10.8
	Hanger Bolt Kit	110012	13.20	13.12	13.04	12.96	12.88	12.8
	Fastening Kit	111110	1.88	1.80	1.72	1.64	1.56	1.48
	Fastening Kit	111112	2.68	2.6	2.52	2.44	2.36	2.28
	Fastening Kit	111010	2.20	2.12	2.04	1.96	1.88	1.8
	Fastening Kit	111012	3.80	3.72	3.64	3.56	3.48	3.4
	FixPlan	114001-0	2.68	2.6	2.52	2.44	2.36	2.28
FixPlan	114001-1	3.80	3.72	3.64	3.56	3.48	3.4	
Twin-fastening Kit	111210	5.20	5.12	5.04	4.96	4.88	4.8	
Twin-fastening Kit	111212	5.20	5.12	5.04	4.96	4.88	4.8	
Partial (safety) factor(s)	1.5							
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.

Signed on behalf of Kiwa Ltd



Mark Crowther – MCS Certification Director



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Product Name	Model Name	MCS Certificate Number						
FixT	FixT	KIWA 00010/013 IK						
Range of Permissible Roof Pitch (degrees)	>7.5°							
Compatible Roof Coverings	Trapezoid metal profile roofs over wood or metal sub-structures							
Roofing Substrate For certified wind uplift resistance in sound timber	Min rafter size (h x w mm)	Roofing Substrate For certified wind uplift resistance in sound timber						
	Attachments including minimum timber sizes must be in accordance with Schletter's guidance document "Edge distances of wood screwings"	Attachments including minimum timber sizes must be in accordance with Schletter's guidance document "Edge distances of wood screwings"						
Further notes on fixing (where relevant)	Ø 10 indicates fixed with Wood screw ø10 depth left = 60 mm Ø 12 indicates fixed with Wood screw ø10 depth left = 60 mm							
Maximum Design Wind Uplift Calculated by dividing the characteristic wind uplift by the partial safety factor shown below	Values are based on 4 roof attachments per m2 of solar panel							
	<b>Roof pitch ( degrees)</b>		<b>10</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>
	<b>FixT Upstand type</b>	<b>Part No.</b>	<b>Uplift resistance (kPa)</b>					
	FixT Size 1 S320	113004-000	4	3.96	3.92	3.84	2.6	3.76
	FixT Size 3 S320	113006-000	7.68	7.64	7.6	7.56	7.52	7.48
	FixT Size 5 S320	113008-000	5.48	9.44	9.4	9.36	9.32	9.28
	FixT Size 1 C24 Ø 10	113004-000	11	10.96	10.92	10.88	10.84	10.8
	FixT Size 1 C24 Ø 12	113004-000	17.4	17.36	17.32	17.28	17.24	17.2
	FixT Size 3 C24 Ø 10	113006-000	22	21.96	21.92	21.88	21.84	21.8
	FixT Size 3 C24 Ø 12	113006-000	30	30	30	30	30	30
	FixT Size 5 C24 Ø 10	113008-000	32	32	32	32	32	32
	FixT Size 5 C24 Ø 12	113008-000	36	36	36	36	36	36
	Hanger Bolt Kit	110010	11.20	11.12	11.04	10.96	10.88	10.8
	Hanger Bolt Kit	110012	13.20	13.12	13.04	12.96	12.88	12.8
	Fastening Kit	111110	1.88	1.80	1.72	1.64	1.56	1.48
Fastening Kit	111112	2.68	2.6	2.52	2.44	2.36	2.28	
Fastening Kit	111010	2.20	2.12	2.04	1.96	1.88	1.8	
Fastening Kit	111012	3.80	3.72	3.64	3.56	3.48	3.4	
FixPlan	114001-0	2.68	2.6	2.52	2.44	2.36	2.28	
FixPlan	114001-1	3.80	3.72	3.64	3.56	3.48	3.4	
Twin-fastening Kit	111210	5.20	5.12	5.04	4.96	4.88	4.8	
Twin-fastening Kit	111212	5.20	5.12	5.04	4.96	4.88	4.8	
Partial (safety) factor(s)	1.5							
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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Signed on behalf of Kiwa Ltd

  
Mark Crowther – MCS Certification Director

Certificate




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Product Name	Model Name	MCS Certificate Number					
SingleFix-V	SingleFix-V	KIWA 00010/014 IK					
Range of Permissible Roof Pitch (degrees)	>7.5°						
Compatible Roof Coverings	Trapezoid metal profile roofs over wood or metal sub-structures						
Roofing Substrate For certified wind uplift resistance in sound timber	Min rafter size (h x w mm)	Roofing Substrate For certified wind uplift resistance in sound timber					
	N/A	N/A					
Further notes on fixing (where relevant)	N/A						
Maximum Design Wind Uplift Calculated by dividing the characteristic wind uplift by the partial safety factor shown below	Values are based on 4 roof attachments per m <sup>2</sup> of solar panel						
	Roof pitch (degrees)	10	20	30	40	50	60
	Clamp type	Part No.	Uplift resistance (kPa)				
Single Fix V	113009-200	3.52	3.48	3.44	3.40	3.36	3.32
Partial (safety) factor(s)	1.5						
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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Signed on behalf of Kiwa Ltd

  
Mark Crowther – MCS Certification Director



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Product Name	Model Name	MCS Certificate Number
Fix 2000 KlickTop	Fix 2000 KlickTop	KIWA 00010/015 IK

Range of Permissible Roof Pitch (degrees)	>7.5°							
Compatible Roof Coverings	Trapezoid metal profile roofs over wood or metal sub-structures							
Roofing Substrate For certified wind uplift resistance in sound timber	Min rafter size (h x w mm)	Roofing Substrate For certified wind uplift resistance in sound timber						
	N/A	N/A						
Further notes on fixing (where relevant)	N/A							
Maximum Design Wind Uplift Calculated by dividing the characteristic wind uplift by the partial safety factor shown below	Values are based on 4 roof attachments per m <sup>2</sup> of solar panel							
	Roof pitch (degrees)		10	20	30	40	50	60
	Clamp type	Part No.	Uplift resistance (kPa)					
Fix 2000 Klick Top	113001-000	4.72	4.68	4.64	4.60	4.56	4.52	
Partial (safety) factor(s)	1.5							
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.

Signed on behalf of Kiwa Ltd

*M Zentz*

Mark Crowther – MCS Certification Director



Certificate



Kiwa Ltd  
Kiwa House  
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Product Name	Model Name	MCS Certificate Number
ClampFit-H	ClampFit-H	KIWA 00010/016 IK

Range of Permissible Roof Pitch (degrees)	>7.5°						
Compatible Roof Coverings	Trapezoid metal profile roofs over wood or metal sub-structures						
Roofing Substrate For certified wind uplift resistance in sound timber	Min rafter size (h x w mm)	Roofing Substrate For certified wind uplift resistance in sound timber					
	N/A	N/A					
Further notes on fixing (where relevant)	NA						
Maximum Design Wind Uplift Calculated by dividing the characteristic wind uplift by the partial safety factor shown below	Values are based on 4 roof attachments per m2 of solar panel						
	Roof pitch (degrees)	10	20	30	40	50	60
	Clamp type	Part No.	Uplift resistance (kPa)				
ClampFit H	130004-001	1.76	1.74	1.72	1.70	1.68	1.66
Partial (safety) factor(s)	1.5						
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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Signed on behalf of Kiwa Ltd

*M Z Crowther*

Mark Crowther – MCS Certification Director

Certificate

