

MCS Product Certification Certificate

Page 1 of 9 Issued by Kiwa Ltd

Producer Name:

Schletter GmbH

Producer Address:

Alustraße 1 Kirchdorf/Haag i OB

Gewerbegebiet an der B15

83527

Germany

Manufacturer Name:

Schletter GmbH

Manufacturer Address:

As Above

Certificate Number:

KIWA 00010

Issue Number:

2

Date Issued:

15th August 2016

Annual Review Date:

18th July

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.



Kiwa Ltd Kiwa House Malvern View Business Park, Stella Way, Bishops Cleeve,

Cheltenham, GL52 7DQ

Signed on behalf of Kiwa Ltd

Mark Crowther - MCS Certification Director



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| Product Name | Model Na | me | | MCS Certificate Number | | | | | |
|---|---|------------|------------------------------------|---|---------------------------------|------|------------|--|--|
| Standard System | Standard Sy | | KIW | A 0001 | 0/009 11 | < | | | |
| Range of Permissible Roof Pitch (degrees) | >17.5° | | | | | | | | |
| Compatible Roof Coverings | Tiled roofs with wooden substructure | | | | | | | | |
| Roofing Substrate | Min rafter size (hxw | mm) | | For certifin sound | | | | | |
| For certified wind uplift resistance in sound timber | Attachments including timber sizes must be accordance with Science document distances of wood s | | timber siz accordar guidance | ents includ zes must l ace with S documer s of wood | be in chletter's at "Edge | | | | |
| Further notes on fixing (where relevant) | Tiles may need to be instructions to ensur | | | | | | | | |
| | Values are based or | 1 4 roof h | ooks | per m2 of s | solar pane | | | | |
| | Roof Pitch | 10 | 20 | 30 | 40 | 50 | 60 | | |
| | (Degrees) | | | | | | | | |
| | | | | Uplift resistance (kPa) | | Pa) | EXE | | |
| | Universal | 2.88 | 2.8 | | 2.8 | 2.76 | 2.72 | | |
| | Eco G | 1.84 | 1.8 | | 1.96 | 1.96 | 1.96 | | |
| | Eco V | 1.96 | 2.0 | | 2.16 | 2.2 | 2.24 | | |
| Maximum Design Wind Uplift Calculated by dividing the | Roof Hook EcoS Extra | 2.4 | 2.4 | 4 2.48 | 2.52 | 2.52 | 2.52 | | |
| characteristic wind uplift by the | EcoS-135 | 2.56 | 2.6 | 4 2.72 | 2.72 | 2.72 | 2.72 | | |
| partial safety factor shown below | EcoS-135 bar 130 | 2.16 | 2.2 | 2.24 | 2.24 | 2.24 | 2.24 | | |
| | EcoS-165 | 2.48 | 2.5 | 6 2.64 | 2.72 | 2.72 | 2.72 | | |
| | Roof Hook EcoS-195 | 2.44 | 2.5 | 2 2.6 | 2.64 | 2.68 | 2.68 | | |
| | Eco SV Extra | 2.44 | 2.5 | 2 2.6 | 2.64 | 2.68 | 2.68 | | |
| | Plain Tile (Basic) | 1.72 | 1.7 | 2 1.72 | 1.72 | 1.72 | 1.72 | | |
| | Plain Tile (Universal) | 2.24 | 2.2 | 4 2.24 | 2.24 | 2.24 | 2.24 | | |
| Partial (safety) factor(s) | 1.5 | | | | | | | | |
| Fire Classification | BS476-3:2004 | | | Fire Class | sification | | | | |
| Fire Classification | N/A | | 4.0 | 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





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



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| Product Name | Model Nam | Model Name MC | | | | | rtificate Number | | | |
|--|---|--------------------------------------|-----------|---|--------------------------------|----------------------------------|------------------|--|--|--|
| Rapid 2+ System | Rapid 2+ Syst | KIWA | 00010 | /0010 | IK | | | | | |
| Range of Permissible Roof Pitch (degrees) | >25° | | | | | | | | | |
| Compatible Roof Coverings | Tiled roofs with woods | Tiled roofs with wooden substructure | | | | | | | | |
| Roofing Substrate | Min rafter size (hxw m | m) | | Roofing For cert resistan | ified win | d uplift | oer | | | |
| For certified wind uplift resistance in sound timber | Attachments including timber sizes must be i accordance with Schle guidance document "E distances of wood sch | n etter's Edge | | Attachm minimun in accor guidanc distance | n timber dance w e docun | sizes m vith Schl nent "Ed | etter's Ige | | | |
| Further notes on fixing (where relevant) | Tiles may need to be ginstructions to ensure | satisfac | tory fitt | ing of mo | unting h | ooks. | | | | |
| | Values are based on 4 Roof Pitch (Degrees) | 1 roof ho | oks pe | 20 30 40 50 | | | | | | |
| | Uplift resistance (kPa) | | | | | | | | | |
| | Rapid 2+ 45 | 3.36 | 3.32 | 3.24 | 3.16 | 3.08 | 3 | | | |
| Maximum Design Wind Uplift | Rapid 2+ 45V | 1.96 | 1.92 | 1.88 | 1.84 | 1.8 | 1.76 | | | |
| Calculated by dividing the | Rapid 2+ 35 | 3.4 | 3.36 | 3.36 | 3.2 | 3.12 | 3.08 | | | |
| characteristic wind uplift by the | Rapid 2+ 55 | 3.36 | 3.32 | 3.24 | 3.16 | 3.08 | 3 | | | |
| partial safety factor shown | Rapid 2+ Universal | 1.96 | 1.92 | 1.88 | 1.84 | 1.8 | 1.76 | | | |
| below | Rapid 2+ Max | 4.32 | 4.32 | | 4.24 | 4.2 | 4.16 | | | |
| | Rapid 2+ Max 35 | 4.32 | 4.32 | 4.28 | 4.24 | 4.2 | 4.16 | | | |
| | Rapid 2+ MaxV | 5.96 | 1.92 | | 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 | | | | | 200 | | | | |
| Fire Classification | BS476-3:2004 | | | Fire Clas | sificatio | n | | | | |
| | N/A | | | N/A | | | 100 | | | |
| 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.



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



Mark Crowther - MCS Certification Director



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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 | Min rafter size (hxw mm) | For | ofing Su certified ound tir | d wind | | resista | nce | | | |
| 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 | | | | | | | | | |
| | Values are based on 4 roof hook | | | | | | | | | |
| | Roof Pitch (Degrees) | 10 | 20 | 30 | 40 | 50 | 60 | | | |
| | Uplift resistance (kPa) | | | | | | | | | |
| | 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 | | | |
| Maximum Design Wind Uplift Calculated by dividing the | Seam Clamp 520 Zambelli RibRoof 465 Alu | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | | | |
| characteristic wind uplift by the partial safety factor shown | Seam Clamp Zambelli RibRoof KlickTop | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | | | |
| below | 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 | 08 | 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 | Classifi | cation | | | | | | |
| | 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





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





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| Product Name | Model Name | | | MC | MCS Certificate Number | | | | | |
|--|--|---|----------|------------|------------------------|-------------------------------------|--------|-------|--|--|
| FixE | FixE | | | K | IWA 0 | 0010/0 | 012 IK | | | |
| Range of Permissible Roof Pitch (degrees) | >10° | | | | | | | | | |
| Compatible Roof Coverings | Cement fibre or meta | l profile roofs o | ver wood | or meta | ıl sub-sti | ructures | | | | |
| Roofing Substrate | Min rafter size (hxw n | Min rafter size (hxw mm) Roofing Substrate For certified wind uplift resistance timber | | | | | | | | |
| For certified wind uplift resistance in sound timber | timber sizes must be with Schletter's guida | Attachments including minimum timber sizes must be in accordance with Schletter's guidance document "Edge distances of wood screwings" | | | | nt guidance document "Edge distance | | | | |
| Further notes on fixing (where relevant) | Ø 10 indicates fixed w Ø 12 indicates fixed w | rith Wood scre | w ø10 de | pth leff = | = 60 mm | | | | | |
| | Values are based on 4 roof attachments Roof Pitch (Degrees) | | | 712 OT SOI | ar pane | 40 | 50 | 60 | | |
| | Roof Pitch (Degrees) 10 20 30 40 | | | | | | | | | |
| | 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 | | |
| Maximum Design Wind Uplift | FixE size 2 C24 Ø 10 | 111210-200 | 5.2 | 5.12 | 5.04 | 4.96 | 4.88 | 4.8 | | |
| Calculated by | FixE size 2 C24 Ø 12 | 111212-000 | 5.2 | 5.12 | 5.04 | 4.96 | 4.88 | 4.8 | | |
| dividing the | Hanger Bolt Kit | 110010 | 11.20 | 11.12 | 11.04 | 10.96 | 10.88 | 10.8 | | |
| characteristic wind | Hanger Bolt Kit | 110012 | 13.20 | 13.12 | 13.04 | 12.96 | 12.88 | 12.8 | | |
| uplift by the partial safety factor shown | Fastening Kit | 111110 | 1.88 | 1.80 | 1.72 | 1.64 | 1.56 | 1.48 | | |
| below | 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 C | lassifica | tion | | | Marie | | |
| FILE CIASSIIICATION | N/A | | N/A | | | | | | | |
| Limitations on Fire Classification | This kit is suitable for: Above roof installation | s over non-flar | nmable o | uter root | coverin | g 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

ME Coutte

Mark Crowther – MCS Certification Director





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





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| Model Name MCS Certificate Num | | | | | Nump | er | | | | |
|---|--|---|--|--|---|---|---|--|--|--|
| | | 700 E | KIWA 00010/013 IK | | | | | | | |
| >7.5° | >7.5° | | | | | | | | | |
| Trapezoid metal profi | Trapezoid metal profile roofs over wood or metal sub-structures | | | | | | | | | |
| Min rafter size (hxw m | Min rafter size (hxw mm) | | | | Roofing Substrate For certified wind uplift resistance in sound timber | | | | | |
| timber sizes must be a accordance with Schle guidance document "L | Attachments including minimum timber size must be in accordance with Schletter's guidance document "Edge distances of woo screwings" | | | | | | | | | |
| Ø 12 indicates fixed w | rith Wood scre | w ø10 c | lepth lef | f = 60 m | m | | | | | |
| Values are based on 4 | 1 roof attachm | ents pei | m2 of s | solar par | iel | | | | | |
| Roof pitch (degrees) | | 10 | 20 | 30 | 40 | 50 | 60 | | | |
| FixT Upstand type | Part No. | Market | U | plift resist | ance (kF | Pa) | | | | |
| 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 Ø12 | 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 | 24430 | 1.96 | | 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 | | | |
| 1.5 | | | | | | 1. | | | | |
| BS476-3:2004 | | | assificat | ion | | | | | | |
| N/A | | N/A | | | | | | | | |
| Above roof installations | | | | | | | | | | |
| | Trapezoid metal profil Min rafter size (hxw m Attachments including timber sizes must be is accordance with Schle guidance document "Edistances of wood scription" of 10 indicates fixed with 21 indicates fixed with 22 ind | Trapezoid metal profile roofs over vimilar accordance with Schletter's guidance document "Edge distances of wood screwings" Ø 10 indicates fixed with Wood screwings are based on 4 roof attachmark and type are part of the | Trapezoid metal profile roofs over wood or a contimber size (hxw mm) Attachments including minimum timber sizes must be in accordance with Schletter's guidance document "Edge distances of wood screwings" Ø 10 indicates fixed with Wood screw Ø10 continuous of the fixed with Wood screw | Trapezoid metal profile roofs over wood or metal substitute of the timber of timber. Attachments including minimum timber sizes must be in accordance with Schletter's guidance document "Edge distances of wood screwings" Ø 10 indicates fixed with Wood screw ø10 depth left Ø 12 indicates fixed with Wood screw ø10 depth left Values are based on 4 roof attachments per m2 of structure of the fixed with Wood screw ø10 depth left Values are based on 4 roof attachments per m2 of structure of the fixed with Wood screw ø10 depth left Values are based on 4 roof attachments per m2 of structure of the fixed with Wood screw ø10 depth left Values are based on 4 roof attachments per m2 of structure of the fixed with Wood screw ø10 depth left Values are based on 4 roof attachments per m2 of structure of the fixed with Wood screw ø10 depth left Values are based on 4 roof attachments per m2 of structure of the fixed with Wood screw ø10 depth left Values are based on 4 roof attachments per m2 of structure of the fixed with Wood screw ø10 depth left Values are based on 4 roof attachments per m2 of structure of the fixed with Wood screw ø10 depth left Values are based on 4 roof attachments per m2 of structure of the fixed with Wood screw ø10 depth left Values are based on 4 roof attachments per m2 of structure of the fixed with Wood screw ø10 depth left values of the fixed with Wood screw ø10 depth left values of the fixed with Wood screw ø10 depth left values of the fixed with Wood screw ø10 depth left values of the fixed with Wood screw ø10 depth left values of guidance doctor screwings" Roof pitch (degrees) | Trapezoid metal profile roofs over wood or metal sub-struct. Min rafter size (hxw mm) Attachments including minimum timber sizes must be in accordance with Schletter's guidance document "Edge distances of wood screwings" Ø 10 indicates fixed with Wood screw ø10 depth leff = 60 m Ø 12 indicates fixed with Wood screw ø10 depth leff = 60 m Values are based on 4 roof attachments per m2 of solar par Roof pitch (degrees) FixT Upstand type Part No. Uplift resist FixT Size 1 S320 113004-000 4 3.96 3.92 FixT Size 5 S320 113004-000 7.68 7.64 7.6 FixT Size 1 C24 Ø 10 113004-000 11 10.96 10.92 FixT Size 3 C24 Ø 10 113004-000 17.4 17.36 17.32 FixT Size 3 C24 Ø 10 113004-000 17.4 17.36 17.32 FixT Size 5 C24 Ø 10 113008-000 30 30 30 FixT Size 5 C24 Ø 10 113008-000 32 32 32 32 FixT Size 5 C24 Ø 10 113008-000 32 32 32 32 FixT Size 5 C24 Ø 10 113008-000 30 30 30 FixT Size 5 C24 Ø 10 113008-000 30 30 30 FixT Size 5 C24 Ø 10 113008-000 32 32 32 32 FixT Size 5 C24 Ø 10 113008-000 32 32 32 32 FixT Size 5 C24 Ø 10 113008-000 36 36 36 36 Hanger Bolt Kit 110010 11.20 11.12 11.04 Hanger Bolt Kit 110010 11.20 11.12 11.04 Fastening Kit 11110 2.20 2.12 2.04 Fastening Kit 11110 2.20 2.12 2.04 Fastening Kit 11110 3.80 3.72 3.64 FixPlan 114001-0 2.68 2.6 2.52 FixPlan 114001-0 3.80 3.72 3.64 FixPlan 114001-1 3.80 3.72 3.64 FixPlan 114001-1 3.80 3.72 3.64 Twin-fastening Kit 11121 5.20 5.12 5.04 Twin-fastening Kit 11121 5.20 5.12 5.04 This kit is suitable for: Above roof installations over non-flammable outer roof cover | Trapezoid metal profile roofs over wood or metal sub-structures Min rafter size (hxw mm) Attachments including minimum timber sizes must be in accordance with Schletter's guidance document "Edge distances of wood screwings" Ø 10 indicates fixed with Wood screw Ø10 depth leff = 60 mm Ø 12 indicates fixed with Wood screw Ø10 depth leff = 60 mm Values are based on 4 roof attachments per m2 of solar panel Roof pitch (degrees) FixT Upstand type Part No. FixT Size 1 S320 FixT Size 3 S320 FixT Size 5 S320 FixT Size 5 S320 FixT Size 1 C24 Ø 10 FixT Size 1 C24 Ø 10 FixT Size 3 C24 Ø 10 FixT Size 3 C24 Ø 10 FixT Size 5 C24 Ø | No. No. | | | |

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Signed on behalf of Kiwa Ltd



Mark Crowther - MCS Certification Director





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







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| Product Name | M | odel Nam | е | | N | ICS C | ertifica | ate Nu | mber | |
|---|--|---|------|-------|---------|--|----------|--------|---------|--|
| SingleFix-V | S | SingleFix-V | | | | KIW | 4 0001 | 0/014 | IK | |
| | | | | | | | | | | |
| Range of Permissible Roof Pitch (degrees) | >7.5° | >7.5° | | | | | | | | |
| Compatible Roof Coverings | The second secon | Trapezoid metal profile roofs over wood or metal sub- structures | | | | | | | sub- | |
| Roofing Substrate For certified wind uplift resistance in sound | Min rafter size (hxw mm) | | | or | certifi | ing Substrate ertified wind uplift resistance und timber | | | | |
| timber | N/A | 1 | V/A | 4 | | | | | | |
| Further notes on fixing (where relevant) | N/A | N/A | | | | | | | | |
| Maximum Design Wind Uplift | Values panel | are based | on 4 | 4 ro | of att | achme | nts pe | r m2 o | f solar | |
| Calculated by dividing the characteristic wind | Roof pitch (degrees) | | 10 |) | 20 | 30 | 40 | 50 | 60 | |
| uplift by the partial safety factor shown | Clamp type | Part No. | | | Upi | lift resist | ance (k | Pa) | | |
| below | Single Fix V | 113009- 200 | 3.5 | 2 | 3.48 | 3.44 | 3.40 | 3.36 | 3.32 | |
| Partial (safety) factor(s) | 1.5 | | | | | | | | | |
| Fire Classification | BS476-3:2004 Fire Classification | | | | | | | | | |
| Fire Classification | N/A | | N | 1/A | | | | | | |
| Limitations on Fire Classification | Committee of the second | is suitable oof installa only | | IS 01 | ver no | on-flan | nmable | outer | roof | |

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

MCS UKAS PRODUCT CRETIFICATION

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

MZ Contre

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° | >7.5° | | | | | | | | | |
|---|--|--|--------|---------|-------------|---------|---------|------|--|--|--|
| Compatible Roof Coverings | Trapezoid m structures | Trapezoid metal profile roofs over wood or metal sub- structures | | | | | | | | | |
| Roofing Substrate For certified wind uplift resistance in | Min rafter siz | Min rafter size (hxw mm) Roofing Substrate For certified wind uplift resistance in sound timber | | | | | | ance | | | |
| sound timber | N/A | | N// | 4 | | | | | | | |
| Further notes on fixing (where relevant) | N/A | | | | | | | | | | |
| Maximum Design Wind Uplift Calculated by | Values are b panel | ased on 4 | roof a | ttachm | ents p | er m2 | of sola | r | | | |
| dividing the | Roof pitch (de | grees) | 10 | 20 | 30 | 40 | 50 | 60 | | | |
| characteristic wind | Clamp type | Part No. | | Up. | lift resist | ance (k | Pa) | | | | |
| uplift by the partial safety factor shown | Fix 2000 Klick Top | 113001- 000 | 4.72 | 4.68 | 4.64 | 4.60 | 4.56 | 4.52 | | | |
| below | | | | | | | | | | | |
| Partial (safety) factor(s) | 1.5 | | | | | | | | | | |
| Fire Classification | BS476-3:200 | 4 | Fire | e Class | ificatio | n | | | | | |
| THE Classification | N/A | | N/A | 1 | | | | | | | |
| Limitations on Fire Classification | This kit is suit Above roof in covering only | stallations | over | non-fla | mmab | le oute | r roof | | | | |

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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 structures | Trapezoid metal profile roofs over wood or metal sub- structures | | | | | | | | |
| Roofing Substrate For certified wind uplift resistance in | Min rafter s | Min rafter size (hxw mm) Roofing Substrate For certified wind uplif resistance in sound tin | | | | | | r | | |
| sound timber | N/A | | | N/A | | | | | | |
| Further notes on fixing (where relevant) | NA | NA | | | | | | | | |
| Maximum Design Wind Uplift | Values are panel | based on | 4 roc | of attach | ments | per m | 2 of sc | olar | | |
| Calculated by | Roof pitch (a | legrees) | 10 | 20 | 30 | 40 | 50 | 60 | | |
| dividing the characteristic wind | Clamp type | Part No. | | Uplift resistance (kPa) | | | | | | |
| uplift by the partial safety factor shown | ClampFit H | 130004- 001 | 1.76 | 1.74 | 1.72 | 1.70 | 1.68 | 1.66 | | |
| below | | | | | | | | | | |
| Partial (safety) factor(s) | 1.5 | | | | | | | | | |
| Fire Classification | BS476-3:20 | 004 | H | ire Cla | ssificat | ion | | | | |
| Fire Classification | N/A | | 1 | V/A | | | | | | |
| Limitations on Fire Classification | This kit is so Above roof covering on | installatio | | er non-i | flamma | able ou | iter roc | of | | |

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

Malvern View Business Park, Stella Way, Bishops Cleeve, Cheltenham. GL52 7DQ

Kiwa Ltd Kiwa House Mark Crowther - MCS Certification Director