CERTIFICATE

MCS Product Certificate

Date Issued	*9th December 2025*	**Annual review date**	*21st January*
Issue number	*11.1*	**Orignal/Amendment**	*Amendment*
Certificate number	*KIWA00041*	**Page**	*1 of 26*

MCS Product Certification Certificate

Issued by Kiwa Ltd

MCS Product Certification Scheme Standards – MCS010, MCS011, MCS012 Issue 3.0
Model designations – see Appendix

Producer:

Business Address:

GSE Integration
5 rue Morand
Batiment Energy 5
Centre d'affaire Morand
93400 Saint Ouen
France

Factory/Warehouse Address:

GSE Integration
3 Rue des Patis
Le Petit Quevilly
76140
France

Manufacturer:

As Above

Kiwa Ltd declares that the products detailed in the Appendix 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
Kiwa Ltd

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

UKAS PRODUCT CERTIFICATION 0217

MCS CERTIFIED

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Malvern View Business Park
Stella Way
Bishops Cleeve
Cheltenham
GL52 7DQ
United Kingdom
T +44 (0)1242 677877

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CERTIFICATE

The following products have been assessed and registered by Kiwa Ltd against the provisions of: MCS 010, MCS 011, MCS 012 Issue 3.0

Product Name	Model Name	MCS Certificate Number
GSE IN-ROOF System	Portrait Version 2012	KIWA00041/006 IK

Type	*Roof Integrated:* *System*				
Component (if an individual component)	*Components for this system are listed in ANNEX II*				
System/Component Description	*Polymer in roof mounting frames to support the PV modules with pressed steel clamps which retain the panels and provide the roof attachment.*				
Compatible Roof Coverings	• *Discontinuous* o *Profile concrete/clay tile* o *Plain concrete/clay tile* o *Slate (natural or synthetic)*				
Tests Undertaken	*Resistance to wind uplift*	*Yes / ~~No~~*			
	Fire performance	*Yes / ~~No~~*			
	Weather tightness	*Yes / ~~No~~*			
Compatible substructures	*Timber*				
Test Preparation	*Two pv modules on polymer in roof mounting frames on 25 mm X 50 mm wooden battens, each attached and clamped with two individual side clamps and two individual middle clamps*				
Maximum Design Wind Uplift Resistance	*2.02 kPa*	Partial (safety) factor(s)	*1.44*		
Failure Mode	*Ultimate Limit State* • *Failure in a timber component or pull out from a timber component*				
For certified wind uplift resistance in sound timber	*width 50 mm X depth 25 mm*				
Test Preparation	*Two pv modules on polymer in roof mounting frames on 25 mm X 50 mm wooden battens, each attached and clamped with two pairs of side clamps and two pairs of middle clamps.*				
Maximum Design Wind Uplift Resistance	*3.35 kPa*	Partial (safety) factor(s)	*1.1*		
Failure Mode	*Ultimate Limit State* • *Failure in a metal component*				
For certified wind uplift resistance in sound timber	*width 50 mm X depth 25 mm*				
Roof Covering	Type:	*Double Roman tiles*	Pitch:	*15°*	Head-lap	*60 mm (Single)*
	Maximum unprotected gap in reference roof covering (+/- 1mm)					*Not determined*
	Maximum unprotected gap with mounting system/component (+/- 1mm)					*Not determined*
	Minimum Permissible roof Pitch (°)					*15°*
Applied suction (kilopascal (kPa)) at leakage rate 10g/m2/5min	*Not determined*	Leakage observed after 2 min	*0 g*		
Fire Classification	$B_{ROOF}(t4)$				
Applicable solar Panels	*for this system are listed in ANNEX I*				

Signed on behalf of Kiwa Ltd



Mark Crowther - MCS Certification Director - Kiwa Ltd

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CERTIFICATE

The following products have been assessed and registered by Kiwa Ltd against the provisions of: MCS 010, MCS 011, MCS 012 Issue 3.0

Product Name	Model Name	MCS Certificate Number
GSE IN-ROOF System	Landscape Version 2012	KIWA00041/007 IK

Type	*Roof Integrated:* *System*				
Component (if an individual component)	*Balance of system in Annex II*				
System/Component Description	*Polymer in roof mounting frames to support the PV modules with pressed steel clamps which retain the panels and provide the roof attachment*				
Compatible Roof Coverings	• *Discontinuous* o *Profile concrete/clay tile* o *Plain concrete/clay tile* o *Slate (natural or synthetic)*				
Tests Undertaken	*Resistance to wind uplift*	*Yes / ~~No~~*			
	Fire performance	*Yes / ~~No~~*			
	Weather tightness	*Yes / ~~No~~*			
Compatible substructures	*Timber*				
Test Preparation	*Two pv modules on polymer in roof mounting frames on 25 mm X 50 mm wooden battens, each attached and clamped with two individual side clamps and two individual middle clamps*				
Maximum Design Wind Uplift Resistance	*2.02 kPa*	Partial (safety) factor(s)	*1.44*		
Failure Mode	*Ultimate Limit State* • *Failure in a timber component or pull out from a timber component*				
For certified wind uplift resistance in sound timber	*Tested with 25 mm X 50 mm wooden battens*				
Test Preparation	*Two pv modules on polymer in roof mounting frames on 25 mm X 50 mm wooden battens, each attached and clamped with two pairs of side clamps and two pairs of middle clamps.*				
Maximum Design Wind Uplift Resistance	*3.35 kPa*	Partial (safety) factor(s)	*1.1*		
Failure Mode	*Ultimate Limit State* • *Failure in a metal component*				
For certified wind uplift resistance in sound timber	*width 50 mm X depth 25 mm*				
Roof Covering	Type:	*Double Roman tiles*	Pitch:	*15°*	Head-lap: *60 mm (Single)*
	Maximum unprotected gap in reference roof covering (+/- 1mm)				*Not determined*
	Maximum unprotected gap with mounting system/component (+/- 1mm)				*Not determined*
	Minimum Permissible roof Pitch (°)				*15°*
Applied suction (kilopascal (kPa)) at leakage rate 10g/m2/5min	*Not determined*	Leakage observed after 2 min	*0 g*		
Fire Classification	$B_{ROOF}(t4)$				
Applicable solar panels	*for this system are listed in ANNEX I*				

Signed on behalf of Kiwa Ltd
Mark Crowther - MCS Certification Director - Kiwa Ltd



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CERTIFICATE

The following products have been assessed and registered by Kiwa Ltd against the provisions of: MCS 010, MCS 011, MCS 012

Product Name	Model Name	MCS Certificate Number
GSE IN-ROOF System	Portrait Version 2020	KIWA00041/008 IK

Type	*Roof Integrated:* *System*				
Component (if an individual component)	*Components for this system are listed in ANNEX II*				
System/Component Description	*Polymer in roof mounting frames to support the PV modules with pressed steel clamps which retain the panels and provide the roof attachment.*				
Compatible Roof Coverings	• *Discontinuous* o *Profile concrete/clay tile* o *Plain concrete/clay tile* o *Slate (natural or synthetic)*				
Tests Undertaken	*Resistance to wind uplift*	*Yes / ~~No~~*			
	Fire performance	*Yes / ~~No~~*			
	Weather tightness	*Yes / ~~No~~*			
Compatible substructures	*Timber*				
Test Preparation	*Two pv modules on polymer in roof mounting frames on 25 mm X 50 mm wooden battens, each attached and clamped with two individual side clamps and two individual middle clamps.*				
Maximum Design Wind Uplift Resistance	*2.02 kPa*	Partial (safety) factor(s)	*1.44*		
Failure Mode	*Ultimate Limit State* • *Failure in a timber component or pull out from a timber component*				
For certified wind uplift resistance in sound timber	*Tested with 25 mm X 50 mm wooden battens*				
Test Preparation	*Two pv modules on polymer in roof mounting frames on 25 mm X 50 mm wooden battens, each attached and clamped with two pairs of side clamps and two pairs of middle clamps.*				
Maximum Design Wind Uplift Resistance	*3.35 kPa*	Partial (safety) factor(s)	*1.1*		
Failure Mode	*Ultimate Limit State* • *Failure in a metal component*				
For certified wind uplift resistance in sound timber	*width 50 mm X depth 25 mm*				
Roof Covering	Type:	*Double Roman tiles*	Pitch:	*15°*	Head-lap	*60 mm (Single)*
	Maximum unprotected gap in reference roof covering (+/- 1mm)					*Not determined*
	Maximum unprotected gap with mounting system/component (+/- 1mm)					*Not determined*
	Minimum Permissible roof Pitch (°)					*15°*
Applied suction (kilopascal (kPa)) at leakage rate 10g/m2/5min	*Not determined*	Leakage observed after 2 min	*0 g*		
Fire Classification	$B_{ROOF}(t4)$				
Applicable solar panels	*for this system are listed in ANNEX I*				

Signed on behalf of Kiwa Ltd

Mark Crowther - MCS Certification Director - Kiwa Ltd



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CERTIFICATE

The following products have been assessed and registered by Kiwa Ltd against the provisions of: MCS 010, MCS 011, MCS 012

Product Name	Model Name	MCS Certificate Number
GSE IN-ROOF System	Landscape Version 2020	KIWA00041/009 IK

Type	*Roof Integrated: System*				
Component (if an individual component)	*Balance of system in Annex II*				
System/Component Description	*Polymer in roof mounting frames.*				
Compatible Roof Coverings	• *Discontinuous* o *Profile concrete/clay tile* o *Plain concrete/clay tile* o *Slate (natural or synthetic)*				
Tests Undertaken	*Resistance to wind uplift*	*Yes / ~~No~~*			
	Fire performance	*Yes / ~~No~~*			
	Weather tightness	*Yes / ~~No~~*			
Compatible substructures	*Timber*				
Test Preparation	*Two pv modules on polymer in roof mounting frames on 25 mm X 50 mm wooden battens, each attached and clamped with two individual side clamps and two individual middle clamps*				
Maximum Design Wind Uplift Resistance	*2.02 kPa*	Partial (safety) factor(s)	*1.44*		
Failure Mode	*Ultimate Limit State* • *Failure in a timber component or pull out from a timber component*				
For certified wind uplift resistance in sound timber	*width 50 mm X depth 25 mm*				
Test Preparation	*Two pv modules on polymer in roof mounting frames on 25 mm X 50 mm wooden battens, each attached and clamped with two pairs of side clamps and two pairs of middle clamps.*				
Maximum Design Wind Uplift Resistance	*3.35 kPa*	Partial (safety) factor(s)	*1.1*		
Failure Mode	*Ultimate Limit State* • *Failure in a metal component*				
For certified wind uplift resistance in sound timber	*width 50 mm X depth 25 mm*				
Roof Covering	Type:	*Double Roman tiles*	Pitch:	*15°*	Head-lap: *60 mm (Single)*
	Maximum unprotected gap in reference roof covering (+/- 1mm)				*Not determined*
	Maximum unprotected gap with mounting system/component (+/- 1mm)				*Not determined*
	Minimum Permissible roof Pitch (°)				*15°*
Applied suction (kilopascal (kPa)) at leakage rate 10g/m2/5min	*Not determined*	Leakage observed after 2 min	*0 g*		
Fire Classification	$B_{ROOF}(t4)$				
Applicable solar panels	*for this system are listed in ANNEX I*				

Signed on behalf of Kiwa Ltd
Mark Crowther - MCS Certification Director - Kiwa Ltd



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CERTIFICATE

The following products have been assessed and registered by Kiwa Ltd against the provisions of: MCS 010, MCS 011, MCS 012

Product Name	Model Name	MCS Certificate Number
GSE IN-ROOF System	Half Portrait Version 2022	KIWA00041/010 IK

Type	*Roof Integrated: System*				
Component (if an individual component)	*Balance of system in Annex II*				
System/Component Description	*Polymer in roof mounting frames to support the PV modules with pressed steel clamps which retain the panels and provide the roof attachment*				
Compatible Roof Coverings	• *Discontinuous* o *Profile concrete/clay tile* o *Plain concrete/clay tile* o *Slate (natural or synthetic)*				
Tests Undertaken	*Resistance to wind uplift*	*Yes / ~~No~~*			
	Fire performance	*Yes / ~~No~~*			
	Weather tightness	*Yes / ~~No~~*			
Compatible substructures	*Timber*				
Test Preparation	*Two pv modules on polymer in roof mounting frames on 25 mm X 50 mm wooden battens, each attached and clamped with two individual side clamps and two individual middle clamps*				
Maximum Design Wind Uplift Resistance	*2.02 kPa*	Partial (safety) factor(s)	*1.44*		
Failure Mode	*Ultimate Limit State* • *Failure in a timber component or pull out from a timber component*				
For certified wind uplift resistance in sound timber	*width 50 mm X depth 25 mm*				
Test Preparation	*Two pv modules on polymer in roof mounting frames on 25 mm X 50 mm wooden battens, each attached and clamped with two pairs of side clamps and two pairs of middle clamps.*				
Maximum Design Wind Uplift Resistance	*3.35 kPa*	Partial (safety) factor(s)	*1.1*		
Failure Mode	*Ultimate Limit State* • *Failure in a metal component*				
For certified wind uplift resistance in sound timber	*width 50 mm X depth 25 mm*				
Roof Covering	Type:	*Double Roman tiles*	Pitch:	*15°*	Head-lap	*60 mm (Single)*
	Maximum unprotected gap in reference roof covering (+/- 1mm)					*Not determined*
	Maximum unprotected gap with mounting system/component (+/- 1mm)					*Not determined*
	Minimum Permissible roof Pitch (°)					*15°*
Applied suction (kilopascal (kPa)) at leakage rate 10g/m2/5min	*Not determined*	Leakage observed after 2 min	*0*		
Fire Classification	$B_{ROOF}(t4)$				
Applicable solar panels	*for this system are listed in ANNEX I*				

Signed on behalf of Kiwa Ltd
Mark Crowther - MCS Certification Director - Kiwa Ltd



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CERTIFICATE

The following products have been assessed and registered by Kiwa Ltd against the provisions of: MCS 010, MCS 011, MCS 012

Product Name	Model Name	MCS Certificate Number
GSE IN-ROOF System	Landscape Evolution (half landscape)	KIWA00041/011 IK

Type	*Roof Integrated:* *System*				
Component (if an individual component)	*Balance of system in Annex II*				
System/Component Description	*Polymer in roof mounting frames to support the PV modules with pressed steel clamps which retain the panels and provide the roof attachment*				
Compatible Roof Coverings	• *Discontinuous* o *Profile concrete/clay tile* o *Plain concrete/clay tile* o *Slate (natural or synthetic)*				
Tests Undertaken	*Resistance to wind uplift*	*Yes / ~~No~~*			
	Fire performance	*Yes / ~~No~~*			
	Weather tightness	*Yes / ~~No~~*			
Compatible substructures	*Timber*				
Test Preparation	*Two pv modules on polymer in roof mounting frames on 25 mm X 50 mm wooden battens, each attached and clamped with two individual side clamps and two individual middle clamps*				
Maximum Design Wind Uplift Resistance (give in kPa for full system to kN for components)	*2.25 kPa*	Partial (safety) factor(s)	*1.44*		
Failure Mode	*Ultimate Limit State* • *Failure in a timber component or pull out from a timber component*				
For certified wind uplift resistance in sound timber	*width 49 mm X depth 24 mm*				
Roof Covering	Type:	*Double Roman tiles*	Pitch:	*15°*	Head-lap	*150 mm (single)*
	Maximum unprotected gap in reference roof covering (+/- 1mm)					*Not determined*
	Maximum unprotected gap with mounting system/component (+/- 1mm)					*Not determined*
	Minimum Permissible roof Pitch (°)					*15°*
Applied suction (kilopascal (kPa)) at leakage rate 10g/m2/5min	*Not determined*	Leakage observed after 2 min	*0*		
Fire Classification	$B_{ROOF}(t4)$				
Applicable solar panels	*for this system are listed in ANNEX I*				

Signed on behalf of Kiwa Ltd
Mark Crowther - MCS Certification Director - Kiwa Ltd

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

CERTIFICATE

The following PV modules have been identified as providing a BROOF(t4) fire classification when installed with the products covered by this certificate:

PV module manufacturer	PV module model names	MCS Certificate Number
Hanwha Q CELLS GmbH	Q.PEAK DUO BLK-G9 330 Q.PEAK DUO BLK-G9 335 Q.PEAK DUO BLK-G9 340 Q.PEAK DUO BLK-G9 345 Q.PEAK DUO BLK-G9+ 330 Q.PEAK DUO BLK-G9+ 335 Q.PEAK DUO BLK-G9+ 340 Q.PEAK DUO BLK-G9+ 345 Q.PEAK DUO ML-G9 380 Q.PEAK DUO ML-G9 385 Q.PEAK DUO ML-G9 390 Q.PEAK DUO ML-G9 395 Q.PEAK DUO ML-G9+ 380 Q.PEAK DUO ML-G9+ 385 Q.PEAK DUO ML-G9+ 390 Q.PEAK DUO ML-G9+ 395 Q.PEAK DUO BLK ML-G9 365 Q.PEAK DUO BLK ML-G9 370 Q.PEAK DUO BLK ML-G9 375 Q.PEAK DUO BLK ML-G9 380 Q.PEAK DUO BLK ML-G9 385 Q.PEAK DUO BLK ML-G9+ 365 Q.PEAK DUO BLK ML-G9+ 370 Q.PEAK DUO BLK ML-G9+ 375 Q.PEAK DUO BLK ML-G9+ 380 Q.PEAK DUO BLK ML-G9+ 385	MCS PV0062/512 MCS PV0062/513 MCS PV0062/514 MCS PV0062/515 MCS PV0062/516 MCS PV0062/517 MCS PV0062/518 MCS PV0062/519 MCS PV0062/520 MCS PV0062/521 MCS PV0062/522 MCS PV0062/523 MCS PV0062/524 MCS PV0062/525 MCS PV0062/526 MCS PV0062/527 MCS PV0062/528 MCS PV0062/529 MCS PV0062/530 MCS PV0062/531 MCS PV0062/532 MCS PV0062/533 MCS PV0062/534 MCS PV0062/535 MCS PV0062/536 MCS PV0062/537
Hanwha Q CELLS GmbH	Q.PEAK DUO XL-G9 455 - Q.PEAK DUO XL-G9 460 Q.PEAK DUO XL-G9.2 455 - Q.PEAK DUO XL-G9.2 460 Q.PEAK DUO XL-G9.3 455 - Q.PEAK DUO XL-G9.3 460	MCS PV0062/538 - MCS PV0062/539 MCS PV0062/540 -MCS PV0062/541 MCS PV0062/542 - MCS PV0062/543
Hanwha Q CELLS GmbH	Q.PEAK DUO-G6 340 Q.PEAK DUO-G6 345 Q.PEAK DUO-G6 350 Q.PEAK DUO-G6 355 Q.PEAK DUO-G8 345 Q.PEAK DUO-G8 350 Q.PEAK DUO-G8 355	MCS PV0062/463 MCS PV0062/464 MCS PV0062/465 MCS PV0062/466 MCS PV0062/480 MCS PV0062/481 MCS PV0062/482
LONGi Green Energy Technology Co., Ltd.	LR4-60HPB-xxxM LR4-60HPH-350M LR4-60HPH-355M LR4-60HPH-360M LR4-60HPH-365M LR4-60HPH-370M LR4-60HPH-375M	BABT 8771-02/01 BABT 8771-06/01-350W BABT 8771-06/01-355W BABT 8771-06/01-360W BABT 8771-06/01-365W BABT 8771-06/01-370W BABT 8771-06/01-375W
LONGi Green Energy Technology Co., Ltd.	LR6-60HPB-xxxM, (xxx=300-320, in 5W steps) LR6-60HPH-xxxM, (xxx=300-325, in 5W steps) LR6-60PB-xxxM	BABT 8771-01/00 BABT 8771-04/00 BABT 8771-11/00
Perlight Solar Co., Ltd.	PLM-xxxM-60 pcs 6" (where xxx = 220W - 300W in increments of 5W) PLM-xxxMB-60 pcs 6" (where xxx = 220W - 300W in increments of 5W) PLM-xxxM-60 pcs 6" (where xxx = 220W - 320W in increments of 5W) PLM-xxxMB-60 pcs 6" (where xxx = 220W - 320W in increments of 5W) PLM-xxxP-60 pcs 6" (where xxx = 190W - 295W in increments of 5W) PLM-xxxPB-60 pcs 6" (where xxx = 270W - 295W in increments of 5W) PLM-xxxPB-60 pcs 6" (where xxx = 195W - 295W in increments of 5W)	BBA 0005/1066 to BBA 0005/1082 BBA 0005/1189 to BBA 0005/1205 BBA 0005/2259 to BBA 0005/2262 BBA 0005/2263 to BBA 0005/2266 BBA 0005/1751 to BBA 0005/1772 BBA 0005/1888 to BBA 0005/1893 BBA 0005/2244 to BBA 0005/2258

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Shanghai JA Solar Tech Co Ltd.	JAM60S10-xxx/PR (xxx=315 to 345 in 5W steps) JAM60S10-xxx/MR (xxx=320 to 340 in 5W steps) JAM60S10-xxx/MR (where xxx=325-345 in 5W steps) JAM60S10-325/MR JAM60S10-330/MR JAM60S10-335/MR JAM60S10-340/MR JAM60S10-345/MR JAM60S10-xxx/PR JAM60S10-315/PR JAM60S10-320/PR JAM60S10-325/PR JAM60S10-330/PR JAM60S10-335/PR JAM60S10-340/PR JAM60S10-345/PR JAM60S10-330/MB JAM60S10-335/MB JAM60S10-340/MB JAM60S10-345/MB JAM60S10-320/BP JAM60S10-325/BP JAM60S10-330/BP	BABT 8515-152 BABT 8515-165 BABT 8515-165-R1 BABT 8515-165-R1-325W BABT 8515-165-R1-330W BABT 8515-165-R1-335W BABT 8515-165-R1-340W BABT 8515-165-R1-345W BABT 8515-200 BABT 8515-200-315W BABT 8515-200-320W BABT 8515-200-325W BABT 8515-200-330W BABT 8515-200-335W BABT 8515-200-340W BABT 8515-200-345W BABT 8515-202-330W BABT 8515-202-335W BABT 8515-202-340W BABT 8515-202-345W BABT 8515-204-320W BABT 8515-204-325W BABT 8515-204-330W
Shanghai JA Solar Tech Co Ltd.	JAM60S17-xxx/PR (xxx=315 to 345 in 5W steps) JAM60S17-xxx/PR (where xxx=315-325 in 5W steps) JAM60S17-315/PR JAM60S17-320/PR JAM60S17-325/PR JAM60S17-xxx/MR (xxx=320 to 340 in 5W steps) JAM60S17-xxx/MR (where xxx=315-325 in 5W steps) JAM60S17-315/MR JAM60S17-320/MR JAM60S17-325/MR JAM60S17-330/MR JAM60S17-335/MR	BABT 8515-163 BABT 8515-163-R1 BABT 8515-163-R1-315W BABT 8515-163-R1-320W BABT 8515-163-R1-325W BABT 8515-164 BABT 8515-164-R1 BABT 8515-164-R1-315W BABT 8515-164-R1-320W BABT 8515-164-R1-325W BABT 8515-210-330W BABT 8515-210-335W
Shanghai JA Solar Tech Co Ltd.	JAM60S20-355/MR JAM60S20-360/MR JAM60S20-365/MR JAM60S20-370/MR JAM60S20-375/MR JAM60S20-380/MR JAM60S20-385/MR JAM60S20-390/MR	BABT 8515-208-R27-355W BABT 8515-208-R27-360W BABT 8515-208-R27-365W BABT 8515-208-R27-370W BABT 8515-208-R27-375W BABT 8515-208-R27-380W BABT 8515-208-R27-385W BABT 8515-208-R27-390W
Shanghai JA Solar Tech Co Ltd.	JAM60S21-355/MR JAM60S21-360/MR JAM60S21-365/MR JAM60S21-370/MR JAM60S21-375/MR	BABT 8515-224-355W BABT 8515-224-360W BABT 8515-224-365W BABT 8515-224-370W BABT 8515-224-375W
Sharp Electronics GmbH	NU-JC320B NU-JC330	BABT8775-001 BABT8775-002
Sunpower Corp.	SPR-MAX2-340 1690x1046x40 SPR-MAX2-350 1690x1046x40 SPR-MAX2-360 1690x1046x40 SPR-MAX3-400 1690x1046x40 SPR-MAX3-395 1690x1046x40 SPR-MAX3-370 1690x1046x40 SPR-MAX3-390 1690x1046x40	MCS PV0102/92 & MCS PV0280/46 MCS PV0102/93 & MCS PV0280/47 MCS PV0102/94 & MCS PV0280/48 MCS PV0102/100 & MCS PV0280/54 MCS PV0102/105 & MCS PV0280/59 MCS PV0102/98 & MCS PV0280/52 MCS PV0102/99 & MCS PV0280/53

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PV module manufacturer	PV module model names	MCS Certificate Number
Trina Solar Co., Ltd.	TSM-325DE06M(II) 1698x1004x35 TSM-330DE06M(II) 1698x1004x35 TSM-335DE06M(II) 1698x1004x35 TSM-325DE06M.08(II) 1698x1004x35 TSM-330DE06M.08(II) 1698x1004x35 TSM-335DE06M.08(II) 1698x1004x35 TSM-315DD06M.05(II) 1698x1004x35 TSM-320DD06M.05(II) 1698x1004x35 TSM-325DD06M.05(II) 1698x1004x35 TSM-330DD06M.05(II) 1698x1004x35 TSM-335DD06M.05(II) 1698x1004x35 TSM-340DE06M(II) 1698x1004x35 TSM-335DE06M(II) 1690x996x35 TSM-340DE06M(II) 1690x996x35 TSM-340DE06M.08(II) 1698x1004x35 TSM-330DE06M.08(II) 1690x996x35 TSM-335DE06M.08(II) 1690x996x35 TSM-340DE06M.08(II) 1690x996x35 TSM-320DD06M.05(II) 1690x996x35 TSM-325DD06M.05(II) 1690x996x35 TSM-330DD06M.05(II) 1690x996x35 TSM-345DE06M.08(II) 1690x996x35 TSM-345DE06M.08(II) 1698x1004x35 TSM-335DD06M.05(II) 1690x996x35 TSM-340DD06M.05(II) 1690x996x35 TSM-335DD06M.05(II) 1698x1004x35 TSM-340DD06M.05(II) 1698x1004x35	MCS PV0183/1697 MCS PV0183/1698 MCS PV0183/1699 MCS PV0183/1700 MCS PV0183/1701 MCS PV0183/1702 MCS PV0183/1703 MCS PV0183/1704 MCS PV0183/1705 MCS PV0183/1706 MCS PV0183/1707 MCS PV0183/1747 MCS PV0183/1748 MCS PV0183/1749 MCS PV0183/1750 MCS PV0183/1751 MCS PV0183/1752 MCS PV0183/1753 MCS PV0183/1754 MCS PV0183/1755 MCS PV0183/1756 MCS PV0183/1791 MCS PV0183/1792 MCS PV0183/1793 MCS PV0183/1794 MCS PV0183/1795 MCS PV0183/1796
Trina Solar Co., Ltd.	TSM-355DE08M(II) 1763x1040x35 - TSM-370DE08M(II) 1763x1040x35 TSM-355DE08M.08(II) 1763x1040x35 - TSM-375DE08M.08(II) 1763x1040x35 TSM-375DE08M(II) 1763x1040x35 - TSM-380DE08M(II) 1763x1040x35 TSM-380DE08M.08(II) 1763x1040x35 TSM-355DE08M.08(II) 1763x1040x40 - TSM-370DE08M.08(II) 1763x1040x40 TSM-375DE08M(II) 1763x1040x40 - TSM-380DE08M(II) 1763x1040x40 TSM-375DE08M.08(II) 1763x1040x40 - TSM-380DE08M.08(II) 1763x1040x40	MCS PV0183/1761 to MCS PV0183/1764 MCS PV0183/1769 to MCS PV0183/1773 MCS PV0183/1774 to MCS PV0183/1775 MCS PV0183/1776 MCS PV0183/1765 to MCS PV0183/1768 MCS PV0183/1777 to MCS PV0183/1778 MCS PV0183/1779 to MCS PV0183/1780
Trina Solar Co Ltd	Trina Solar Vertex TSM-xxxDE09.0y (x=Power; y={8 ; 5}	MCS PV0183/1805 to MCS PV0183/1810 MCS PV0183/1811 to MCS PV0183/1816 MCS PV0183/1817 to MCS PV0183/1822 MCS PV0183/1823 to MCS PV0183/1828 MCS PV0183/1829 to MCS PV0183/1834 MCS PV0183/1835 to MCS PV0183/1840
Shanghai JA Solar Tech Co Ltd	JA Solar JAM54S30-xxx/MR/yyyy (xxx = Power ; yyyy = Voltage)	BABT 8515-229-390W BABT 8515-229-395W BABT 8515-229-400W BABT 8515-229-405W BABT 8515-229-410W BABT 8515-229-415W BABT 8515-230-390W BABT 8515-230-395W BABT 8515-230-400W BABT 8515-230-405W BABT 8515-230-410W BABT 8515-230-415W BABT 8515-231-390W BABT 8515-231-395W BABT 8515-231-400W BABT 8515-231-405W BABT 8515-231-410W BABT 8515-231-415W
Shanghai JA Solar Tech Co Ltd	JA Solar JAM54S31-xxx/MR/yyyy (xxx = Power ; yyyy = Voltage	BABT 8515-232-385W BABT 8515-232-390W BABT 8515-232-395W BABT 8515-232-400W BABT 8515-232-405W BABT 8515-233-385W BABT 8515-233-390W BABT 8515-233-395W BABT 8515-233-400W BABT 8515-233-405W BABT 8515-234-385W BABT 8515-234-390W BABT 8515-234-395W BABT 8515-234-400W BABT 8515-234-405W

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PV module manufacturer	PV module model names	MCS Certificate Number
SolarEdge Technologies Ltd.	SolarEdge Smart Module yPVxxx-R60DzMG (xxx = Power ; y = {S,Ø} ; z = {B,W})	BABT8787-101-345W to BABT8787-101-370W BABT8787-102-345W to BABT8787-102-370W BABT8787-103-345W to BABT8787-103-370W BABT8787-104-345W to BABT8787-104-370W
Hanwha Q CELLS GmbH	Q.PEAK DUO zzz ML-Gy {y = 10 ; 10+} , {zzz = BLK ; Ø}	MCS PV0062/562 - MCS PV0062/568 MCS PV0062/569 - MCS PV0062/575 MCS PV0062/576 - MCS PV0062/582 MCS PV0062/583 - MCS PV0062/589 MCS PV0062/590 - MCS PV0062/596 MCS PV0062/597 - MCS PV0062/603 MCS PV0062/604 - MCS PV0062/610 MCS PV0062/611 - MCS PV0062/617
Hanwha Q CELLS GmbH	Q.PEAK DUO zzz ML-Gy {y = 11 ; 11+} , {zzz = BLK ; Ø}	MCS PV0062/634 - MCS PV0062/639 MCS PV0062/640 - MCS PV0062/645 MCS PV0062/646 - MCS PV0062/651 MCS PV0062/652 - MCS PV0062/657
European Energy World, S.L.	Eurener MEPVxxx V1(xxx = power}	BABT8806-105-390W to BABT8806-105-415W
European Energy World, S.L.	Eurener MEPVxxx X (xxx = power}	BABT8806-103-295W to BABT8806-103-380W
Hengdian Group DMEGC Magnetics Co., Ltd.	DM380M10-54HBB DM385M10-54HBB DM390M10-54HBB DM395M10-54HBB DM400M10-54HBB DM405M10-54HBB DM410M10-54HBB DM415M10-54HBB	BABT 8586-217-380W BABT 8586-217-385W BABT 8586-217-390W BABT 8586-217-395W BABT 8586-217-400W BABT 8586-217-405W BABT 8586-217-410W BABT 8586-217-415W
Phono Solar Technology Co., Ltd	PS385M6H-18/VH PS390M6H-18/VH PS395M6H-18/VH PS400M6H-18/VH PS405M6H-18/VH PS410M6H-18/VH PS415M6H-18/VH PS385M6-18/VH PS390M6-18/VH PS395M6-18/VH PS400M6-18/VH PS405M6-18/VH PS410M6-18/VH PS415M6-18/VH	BABT8758-164-385W BABT8758-164-390W BABT8758-164-395W BABT8758-164-400W BABT8758-164-405W BABT8758-164-410W BABT8758-164-415W BABT8758-174-385W BABT8758-174-390W BABT8758-174-395W BABT8758-174-400W BABT8758-174-405W BABT8758-174-410W BABT8758-174-415W

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PV module manufacturer	PV module model names	MCS Certificate Number
LONGi Green Energy Technology Co., Ltd.	LR5-54HPB-390M	BABT8771-30/00-390W
	LR5-54HPB-395M	BABT8771-30/00-395W
	LR5-54HPB-400M	BABT8771-30/00-400W
	LR5-54HPB-405M	BABT8771-30/00-405W
	LR5-54HPB-410M	BABT8771-30/00-410W
	LR5-54HPB-415M	BABT8771-30/00-415W
	LR5-54HPB-420M	BABT8771-30/00-420W
	LR5-54HPB-425M	BABT8771-30/00-425W
	LR5-54HPH-395M	BABT8771-32/00-395W
	LR5-54HPH-400M	BABT8771-32/00-400W
	LR5-54HPH-405M	BABT8771-32/00-405W
	LR5-54HPH-410M	BABT8771-32/00-410W
	LR5-54HPH-415M	BABT8771-32/00-415W
	LR5-54HPH-420M	BABT8771-32/00-420W
	LR5-54HPH-425M	BABT8771-32/00-425W
	LR5-54HPH-430M	BABT8771-32/00-430W
	LR5-54HPH-435M	BABT8771-32/00-435W
	LR5-54HIH-395M	BABT8771-31/00-395W
	LR5-54HIH-400M	BABT8771-31/00-400W
	LR5-54HIH-405M	BABT8771-31/00-405W
	LR5-54HIH-410M	BABT8771-31/00-410W
	LR5-54HIH-415M	BABT8771-31/00-415W
	LR5-54HIH-420M	BABT8771-31/00-420W
	LR5-54HIH-425M	BABT8771-31/00-425W
	LR5-54HIH-430M	BABT8771-31/00-430W
	LR5-54HIH-435M	BABT8771-31/00-435W
	LR5-54HIB-390M	BABT8771-29/00-390W
	LR5-54HIB-395M	BABT8771-29/00-395W
	LR5-54HIB-400M	BABT8771-29/00-400W
	LR5-54HIB-405M	BABT8771-29/00-405W
	LR5-54HIB-410M	BABT8771-29/00-410W
	LR5-54HIB-415M	BABT8771-29/00-415W
	LR5-54HIB-420M	BABT8771-29/00-420W
	LR5-54HIB-425M	BABT8771-29/00-425W
	LR5-54HTH-405M	BABT8771-33/00-405W
	LR5-54HTH-410M	BABT8771-33/00-410W
	LR5-54HTH-415M	BABT8771-33/00-415W
	LR5-54HTH-420M	BABT8771-33/00-420W
	LR5-54HTH-425M	BABT8771-33/00-425W
	LR5-54HTH-430M	BABT8771-33/00-430W
	LR5-54HTH-435M	BABT8771-33/00-435W
	LR5-54HTH-440M	BABT8771-33/00-440W
	LR5-54HTH-445M	BABT8771-33/00-445W
	LR5-54HTH-450M	BABT8771-33/00-450W
	LR5-54HTB-400M	BABT8771-34/00-400W
	LR5-54HTB-405M	BABT8771-34/00-405W
	LR5-54HTB-410M	BABT8771-34/00-410W
	LR5-54HTB-415M	BABT8771-34/00-415W
	LR5-54HTB-420M	BABT8771-34/00-420W
	LR5-54HTB-425M	BABT8771-34/00-425W
	LR5-54HTB-430M	BABT8771-34/00-430W
	LR5-54HTB-435M	BABT8771-34/00-435W
	LR5-54HTB-440M	BABT8771-34/00-440W

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PV module manufacturer	PV module model names	MCS Certificate Number
WuXi Suntech Power Co Ltd	STP390S-C54/Umh	BBA 0198/485
	STP395S-C54/Umh	BBA 0198/486
	STP400S-C54/Umh	BBA 0198/487
	STP405S-C54/Umh	BBA 0198/488
	STP410S-C54/Umh	BBA 0198/489
	STP390S-C54/Umhb	BBA 0198/490
	STP395S-C54/Umhb	BBA 0198/491
	STP400S-C54/Umhb	BBA 0198/492
	STP405S-C54/Umhb	BBA 0198/493
	STP410S-C54/Umhb	BBA 0198/494
	STP390S-C54/Umhm	BBA 0198/495
	STP395S-C54/Umhm	BBA 0198/496
	STP400S-C54/Umhm	BBA 0198/497
	STP405S-C54/Umhm	BBA 0198/498
	STP410S-C54/Umhm	BBA 0198/499
	STP415S-C54/Umhm	BBA 0198/509
	STP420S-C54/Umhm	BBA 0198/510
	STP425S-C54/Umhm	BBA 0198/511
	STP430S-C54/Umhm	BBA 0198/512
	STP435S-C54/Umhm	BBA 0198/513
	STP415S-C54/Umhb	BBA 0198/514
	STP420S-C54/Umhb	BBA 0198/515
	STP425S-C54/Umhb	BBA 0198/516
	STP430S-C54/Umhb	BBA 0198/517
	STP435S-C54/Umhb	BBA 0198/518
	STP405S-C54/Nmhm+	BBA 0198/519
	STP410S-C54/Nmhm+	BBA 0198/520
	STP415S-C54/Nmhm+	BBA 0198/521
	STP420S-C54/Nmhm+	BBA 0198/522
	STP425S-C54/Nmhm+	BBA 0198/523
	STP430S-C54/Nmhm+	BBA 0198/524
	STP435S-C54/Nmhm+	BBA 0198/525
	STP405S-C54/Nmhb+	BBA 0198/526
	STP410S-C54/Nmhb+	BBA 0198/527
	STP415S-C54/Nmhb+	BBA 0198/528
	STP420S-C54/Nmhb+	BBA 0198/529
	STP425S-C54/Nmhb+	BBA 0198/530
	STP430S-C54/Nmhb+	BBA 0198/531
	STP435S-C54/Nmhb+	BBA 0198/532
	STP415S-C54/Nshm	BBA 0198/570
	STP420S-C54/Nshm	BBA 0198/571
	STP425S-C54/Nshm	BBA 0198/572
	STP430S-C54/Nshm	BBA 0198/573
	STP435S-C54/Nshm	BBA 0198/574
	STP410S-C54/Nshb	BBA 0198/575
	STP415S-C54/Nshb	BBA 0198/576
	STP420S-C54/Nshb	BBA 0198/577
	STP425S-C54/Nshb	BBA 0198/578
	STP430S-C54/Nshb	BBA 0198/579

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PV module manufacturer	PV module model names	MCS Certificate Number
European Energy World, S.L	MEPV295X1 MEPV300X1 MEPV305X1 MEPV310X1 MEPV315X1 MEPV320X1 MEPV325X1 MEPV330X1 MEPV335X1 MEPV340X1 MEPV345X1 MEPV350X1 MEPV355X1 MEPV360X1 MEPV365X1 MEPV370X1 MEPV375X1 MEPV380X1 MEPV385X1 MEPV390X1 MEPV395X1 MEPV400X1 MEPV405X1 MEPV410X1 MEPV415X1 MEPV420X1 MEPV425X1 MEPV430X1 MEPV435X1 MEPV440X1 MEPV445X1 MEPV450X1 MEPV455X1 MEPV460X1	BABT8806-104-295W BABT8806-104-300W BABT8806-104-305W BABT8806-104-310W BABT8806-104-315W BABT8806-104-320W BABT8806-104-325W BABT8806-104-330W BABT8806-104-335W BABT8806-104-340W BABT8806-104-345W BABT8806-104-350W BABT8806-104-355W BABT8806-104-360W BABT8806-104-365W BABT8806-104-370W BABT8806-104-375W BABT8806-104-380W BABT8806-104-385W BABT8806-104-390W BABT8806-104-395W BABT8806-104-400W BABT8806-104-405W BABT8806-104-410W BABT8806-104-415W BABT8806-104-420W BABT8806-104-425W BABT8806-104-430W BABT8806-104-435W BABT8806-104-440W BABT8806-104-445W BABT8806-104-450W BABT8806-104-455W BABT8806-104-460W
Shanghai JA Solar Tech Co Ltd.	JAM72S20-430/MR JAM72S20-435/MR JAM72S20-440/MR JAM72S20-445/MR JAM72S20-450/MR JAM72S20-455/MR JAM72S20-460/MR JAM72S20-465/MR JAM72S20-470/MR	BABT 8515-207-R27-430W BABT 8515-207-R27-435W BABT 8515-207-R27-440W BABT 8515-207-R27-445W BABT 8515-207-R27-450W BABT 8515-207-R27-455W BABT 8515-207-R27-460W BABT 8515-207-R27-465W BABT 8515-207-R27-470W

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PV module manufacturer	PV module model names	MCS Certificate Number
Hanwha Q CELLS GmbH	Q.PEAK DUO ML-G11S.2 480	MCS PV0062/815
	Q.PEAK DUO ML-G11S.2 485	MCS PV0062/816
	Q.PEAK DUO ML-G11S.2 490	MCS PV0062/817
	Q.PEAK DUO ML-G11S.2 495	MCS PV0062/818
	Q.PEAK DUO ML-G11S.2 500	MCS PV0062/819
	Q.PEAK DUO ML-G11S.2 505	MCS PV0062/820
	Q.PEAK DUO ML-G11S.2 510	MCS PV0062/831
	Q.PEAK DUO ML-G11S.2+ 480	MCS PV0062/821
	Q.PEAK DUO ML-G11S.2+ 485	MCS PV0062/822
	Q.PEAK DUO ML-G11S.2+ 490	MCS PV0062/823
	Q.PEAK DUO ML-G11S.2+ 495	MCS PV0062/824
	Q.PEAK DUO ML-G11S.2+ 500	MCS PV0062/825
	Q.PEAK DUO ML-G11S.2+ 505	MCS PV0062/826
	Q.PEAK DUO ML-G11S.2+ 510	MCS PV0062/832
	Q.PEAK DUO M-G11S 375	MCS PV0062/761
	Q.PEAK DUO M-G11S 380	MCS PV0062/762
	Q.PEAK DUO M-G11S 385	MCS PV0062/763
	Q.PEAK DUO M-G11S 390	MCS PV0062/764
	Q.PEAK DUO M-G11S 395	MCS PV0062/765
	Q.PEAK DUO M-G11S 400	MCS PV0062/766
	Q.PEAK DUO M-G11S 405	MCS PV0062/767
	Q.PEAK DUO M-G11S 410	MCS PV0062/768
	Q.PEAK DUO M-G11S 415	MCS PV0062/769
	Q.PEAK DUO M-G11S 420	MCS PV0062/827
	Q.PEAK DUO M-G11S+ 375	MCS PV0062/779
	Q.PEAK DUO M-G11S+ 380	MCS PV0062/780
	Q.PEAK DUO M-G11S+ 385	MCS PV0062/781
	Q.PEAK DUO M-G11S+ 390	MCS PV0062/782
	Q.PEAK DUO M-G11S+ 395	MCS PV0062/783
	Q.PEAK DUO M-G11S+ 400	MCS PV0062/784
	Q.PEAK DUO M-G11S+ 405	MCS PV0062/785
	Q.PEAK DUO M-G11S+ 410	MCS PV0062/786
	Q.PEAK DUO M-G11S+ 415	MCS PV0062/787
	Q.PEAK DUO M-G11S+ 420	MCS PV0062/828
	Q.PEAK DUO M-G11S.4 375	MCS PV0062/833
	Q.PEAK DUO M-G11S.4 380	MCS PV0062/834
	Q.PEAK DUO M-G11S.4 385	MCS PV0062/835
	Q.PEAK DUO M-G11S.4 390	MCS PV0062/836
	Q.PEAK DUO M-G11S.4 395	MCS PV0062/837
	Q.PEAK DUO M-G11S.4 400	MCS PV0062/838
	Q.PEAK DUO M-G11S.4 405	MCS PV0062/839
	Q.PEAK DUO M-G11S.4 410	MCS PV0062/840
	Q.PEAK DUO M-G11S.4 415	MCS PV0062/841
	Q.PEAK DUO M-G11S.4 420	MCS PV0062/842

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PV module manufacturer	PV module model names	MCS Certificate Number
Ningbo Ulica Solar Co Ltd	UL-330M-108 to UL-335M-108	BABT 8532-53-330W to BABT 8532-53-335W
	UL-325M-108HV to UL-335M-108HV	BABT 8532-57-325W to BABT 8532-57-335W
	UL-390M-108 (9.72) to UL-415M-108 (9.72)	BABT 8532-64-390W to BABT 8532-64-415W
	UL-390M-108HV (9.72) to UL-415M-108HV (9.72)	BABT 8532-70-390W to BABT 8532-70-415W
	UL-525M-108 (11.61) to UL-545M-108 (11.61)	BABT 8532-74-525W to BABT 8532-74-545W
	UL-525M-108HV (11.61) to UL-545M-108HV (11.61)	BABT 8532-77-525W to BABT 8532-77-545W
	UL-470M-108DDGN to UL-505M-108DDGN	BABT8532-201-470W to BABT8532-201-505W
	UL-420M-108BHVN to UL-455M-108BHVN	BABT8532-123-420W to BABT8532-123-455W
	UL-410M-108AN to UL-440M-108AN	BABT8532-105-410W to BABT8532-105-440W
	UL-520M-108DBDGN to UL-555M-108DBDGN	BABT8532-205-520W to BABT8532-205-555W
	UL-430M-108CN to UL-465M-108CN	BABT8532-128-430W to BABT8532-128-465W
	UL-550M-108DGN to UL-570M-108DGN	BABT8532-209-550W to BABT8532-209-570W
	UL-415M-108AHVN to UL-440M-108AHVN	BABT8532-111-415W to BABT8532-111-440W
	UL-605M-108BDGN to UL-625M-108BDGN	BABT8532-213-605W to BABT8532-213-625W
	UL-430M-108CHVN to UL-465M-108CHVN	BABT8532-133-430W to BABT8532-133-465W
	UL-420M-108BN to UL-455M-108BN	BABT8532-117-420W to BABT8532-117-455W
	UL-470M-108DN to UL-505M-108DN	BABT8532-137-470W to BABT8532-137-505W
	UL-470M-108DHVN to UL-505M-108DHVN	BABT8532-141-470W to BABT8532-141-505W
	UL-550M-108N to UL-570M-108N	BABT8532-145-550W to BABT8532-145-570W
	UL-550M-108HVN to UL-570M-108HVN	BABT8532-149-550W to BABT8532-149-570W
	UL-325M-108DG to UL-340M-108DG	BABT8532-153-325W to BABT8532-153-340W
	UL-525M-108DG to UL-550M-108DG	BABT8532-161-525W to BABT8532-161-550W
	UL-360M-108BDG to UL-375M-108BDG	BABT8532-157-360W to BABT8532-157-375W
	UL-575M-108BDG to UL-600M-108BDG	BABT8532-164-575W to BABT8532-164-600W
	UL-410M-108ADGN to UL-440M-108ADGN	BABT8532-169-410W to BABT8532-169-440W
	UL-450M-108ABDGN to UL-480M-108ABDGN	BABT8532-175-450W to BABT8532-175-480W
	UL-420M-108BDGN to UL-455M-108BDGN	BABT8532-181-420W to BABT8532-181-455W
	UL-465M-108BBDGN to UL-500M-108BBDGN	BABT8532-187-465W to BABT8532-187-500W
	UL-430M-108CDGN to UL-465M-108CDGN	BABT8532-192-430W to BABT8532-192-465W
	UL-475M-108CBDGN to UL-510M-108CBDGN	BABT8532-197-475W to BABT8532-197-510W

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PV module manufacturer	PV module model names	MCS Certificate Number
LONGi Green Energy Technology Co., Ltd.	LR7-54HVH-460M	BABT8771-56/00-460W
	LR7-54HVH-465M	BABT8771-56/00-465W
	LR7-54HVH-470M	BABT8771-56/00-470W
	LR7-54HVH-475M	BABT8771-56/00-475W
	LR7-54HVH-480M	BABT8771-56/00-480W
	LR7-54HVH-485M	BABT8771-56/00-485W
	LR7-54HVH-490M	BABT8771-56/00-490W
	LR7-54HVH-495M	BABT8771-56/00-495W
	LR7-54HVH-500M	BABT8771-56/00-500W
LONGi Green Energy Technology Co., Ltd.	LR7-54HVB-475M	BABT8771-60/00-475W
	LR7-54HVB-480M	BABT8771-60/00-480W
	LR7-54HVB-485M	BABT8771-60/00-485W
	LR7-54HVB-490M	BABT8771-60/00-490W
	LR7-54HVB-495M	BABT8771-60/00-495W
	LR7-54HVB-500M	BABT8771-60/00-500W
LONGi Green Energy Technology Co., Ltd.	LR7-60HVH-535M	BABT8771-61/00-535W
	LR7-60HVH-540M	BABT8771-61/00-540W
	LR7-60HVH-545M	BABT8771-61/00-545W
	LR7-60HVH-550M	BABT8771-61/00-550W
	LR7-60HVH-555M	BABT8771-61/00-555W
	LR7-60HVH-560M	BABT8771-61/00-560W

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PV module manufacturer	PV module model names	MCS Certificate Number
Hanwha Q CELLS GmbH	Q.PEAK DUO BLK ML-G9 365 Q.PEAK DUO BLK ML-G9+ 365	MCS PV0062/528 MCS PV0062/533
Shanghai JA Solar Tech Co Ltd.	JAM60S10-xxx/PR (xxx=315 to 345 in 5W steps) JAM60S10-xxx/MR (xxx=320 to 340 in 5W steps)	BABT 8515-152 BABT 8515-165
Shanghai JA Solar Tech Co Ltd.	JAM60S17-xxx/PR (xxx=315 to 345 in 5W steps) JAM60S17-xxx/PR (where xxx=315-325 in 5W steps) JAM60S17-xxx/MR (xxx=320 to 340 in 5W steps) JAM60S17-xxx/MR (where xxx=315-325 in 5W steps)	BABT 8515-163 BABT 8515-163-R1 BABT 8515-164 BABT 8515-164-R1
Sunpower Corp.	SPR-MAX2-340 1690x1046x40 SPR-MAX2-350 1690x1046x40 SPR-MAX2-360 1690x1046x40 SPR-MAX3-400 1690x1046x40 SPR-MAX3-395 1690x1046x40 SPR-MAX3-370 1690x1046x40 SPR-MAX3-390 1690x1046x40	MCS PV0102/92 MCS PV0102/93 MCS PV0102/94 MCS PV0102/100 MCS PV0102/105 MCS PV0102/98 MCS PV0102/99
Canadian Solar	CS3L-320P CS3L-325P CS3L-330P CS3L-335P CS3L-340P CS3L-345P CS3L-350P CS3L-355P CS3L-360P CS3L-365P CS3L-370P CS3L-375P CS3L-380P CS3L-xxxMS	BABT8767-11-03-320W BABT8767-11-03-325W BABT8767-11-03-330W BABT8767-11-03-335W BABT8767-11-03-340W BABT8767-11-03-345W BABT8767-11-03-350W BABT8767-11-03-355W BABT8767-11-03-360W BABT8767-11-03-365W BABT8767-11-03-370W BABT8767-11-03-375W BABT8767-11-03-380W BABT8767-36
European Energy World, S.L.	MEPVxxx BLACK (xxx = 240-310W in 5W steps)	BABT 8764-02
Jinko Solar Co., Ltd.	JKM275M-60H 1684x1002x35 - JKM335M-60H 1684x1002x35 JKM275M-60HL 1684x1002x35 - JKM335M-60HL 1684x1002x35 JKM275M-60HB 1684x1002x35 - JKM335M-60HB 1684x1002x35 JKM275M-60H-V 1684x1002x35 - JKM335M-60H-V 1684x1002x35 JKM275M-60HB-V 1684x1002x35 - JKM350M-60HB-V 1684x1002x35 JKM340M-60H 1684x1002x35 - JKM350M-60H 1684x1002x35 JKM340M-60H-V 1684x1002x35 - JKM350M-60H-V 1684x1002x35 JKMS270M-60HB-MX3 1684x1002x35 - JKMS340M-60HB-MX3 1684x1002x35	MCS PV0163/3672 to MCS PV0163/3684 MCS PV0163/3685 to MCS PV0163/3697 MCS PV0163/3745 to MCS PV0163/3757 MCS PV0163/3896 to MCS PV0163/3908 MCS PV0163/3935 to MCS PV0163/3947 MCS PV0163/4054 to MCS PV0163/4056 MCS PV0163/4057 to MCS PV0163/4059 MCS PV0163/4220 to MCS PV0163/4234
Jinko Solar Co., Ltd.	JKM320M-6TL3-B 1692x1029x30 JKM325M-6TL3-B 1692x1029x30 JKM330M-6TL3-B 1692x1029x30 JKM335M-6TL3-B 1692x1029x30 JKM340M-6TL3-B 1692x1029x30 JKM345M-6TL3-B 1692x1029x30 JKM350M-6TL3-B 1692x1029x30 JKM355M-6TL3-B 1692x1029x30 JKM360M-6TL3-B 1692x1029x30 JKM365M-6TL3-B 1692x1029x30 JKM335N-6TL3-V 1692x1029x30 to JKM365N-6TL3-V 1692x1029x30 JKM320N-6TL3-B-V 1692x1029x30 to JKM365N-6TL3-B-V 1692x1029x30 JKM335N-6TL3 1692x1029x30 to JKM375N-6TL3 1692x1029x30 JKM320N-6TL3-B 1692x1029x30 to JKM365N-6TL3-B 1692x1029x30	MCS PV0163/4667 MCS PV0163/4668 MCS PV0163/4669 MCS PV0163/4670 MCS PV0163/4671 MCS PV0163/4672 MCS PV0163/4673 MCS PV0163/4674 MCS PV0163/4675 MCS PV0163/4676 MCS PV0163/4569 to MCS PV0163/4575 MCS PV0163/4559 to MCS PV0163/4568 MCS PV0163/4352 to MCS PV0163/4360 MCS PV0163/4342 to MCS PV0163/4351

PV module manufacturer	PV module model names	MCS Certificate Number
LG Electronics Inc	LG365Q1C-V5	BSI KM 564573/87/6
	LG370Q1C-V5	BSI KM 564573/87/7
	LG375Q1C-V5	BSI KM 564573/87/8
	LG340Q1C-V5	BSI KM 564573/88/1
	LG345Q1C-V5	BSI KM 564573/88/2
	LG380Q1C-V5	BSI KM 564573/88/3
	LG350N1C-V5	BSI KM 564573/76/19
	LG355N1C-V5	BSI KM 564573/76/13
	LG315N1W-V5	BSI KM 564573/85/1
	LG320N1W-V5	BSI KM 564573/85/2
	LG325N1W-V5	BSI KM 564573/85/3
	LG330N1W-V5	BSI KM 564573/85/4
	LG335N1W-V5	BSI KM 564573/85/5
	LG340N1W-V5	BSI KM 564573/85/6
	LG315N1K-V5	BSI KM 564573/86/1
	LG320N1K-V5	BSI KM 564573/86/2
	LG325N1K-V5	BSI KM 564573/86/3
	LG330N1K-V5	BSI KM 564573/86/4
	LG335N1K-V5	BSI KM 564573/86/5
	LG340N1K-V5	BSI KM 564573/86/6
	LG345N1K-V5	BSI KM 564573/86/7
	LG350N1K-V5	BSI KM 564573/86/8
	LG355N1K-V5	BSI KM 564573/86/9

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PV module manufacturer	PV module model names	MCS Certificate Number
REC Solar Pte Ltd	REC295NP - REC330NP	INT PV 21916/184 to INT PV 21916/191
REC Solar Pte Ltd	REC340AA - REC370AA REC340AA Black - REC370AA Black	INT PV 21916/192 to INT PV 21916/198 INT PV 21916/199 to INT PV 21916/205
Sapphire Solar Ltd	SSxxxM/60 (where xxx = 210W to 310W in increments of 5W)	BBA 0199/45 to BBA 0199/65
WuXi Suntech Power Co Ltd	STP300S-20/Wfh STP305S-20/Wfh	BBA 0198/34 BBA 0198/35 for both certification was 10/08/2018 - 18/08/2021
WuXi Suntech Power Co Ltd	STP345S-B60/Wnh STP375S-B60/Wnh STP380S-B60/Wnh STP385S-B60/Wnh STP375S-B60/Wnhm STP380S-B60/Wnhm STP385S-B60/Wnhm STP345S-B60/Wnhb STP350S-B60/Wnhb STP355S-B60/Wnhb STP360S-B60/Wnhb STP365S-B60/Wnhb STP370S-B60/Wnhb STP375S-B60/Wnhb STP380S-B60/Wnhb STP385S-B60/Wnhb	BBA 0198/299 BBA 0198/365 BBA 0198/366 BBA 0198/367 BBA 0198/368 BBA 0198/369 BBA 0198/370 BBA 0198/305 BBA 0198/306 BBA 0198/307 BBA 0198/308 BBA 0198/309 BBA 0198/310 BBA 0198/371 BBA 0198/372 BBA 0198/373
WuXi Suntech Power Co Ltd	STP390S-C54/Umh STP395S-C54/Umh STP400S-C54/Umh STP405S-C54/Umh STP410S-C54/Umh STP390S-C54/Umhb STP395S-C54/Umhb STP400S-C54/Umhb STP405S-C54/Umhb STP410S-C54/Umhb STP390S-C54/Umhm STP395S-C54/Umhm STP400S-C54/Umhm STP405S-C54/Umhm STP410S-C54/Umhm STP415S-C54/Umhm STP420S-C54/Umhm STP425S-C54/Umhm STP430S-C54/Umhm STP435S-C54/Umhm STP415S-C54/Umhb STP420S-C54/Umhb STP425S-C54/Umhb STP430S-C54/Umhb STP435S-C54/Umhb STP405S-C54/Nmhm+ STP410S-C54/Nmhm+ STP415S-C54/Nmhm+ STP420S-C54/Nmhm+ STP425S-C54/Nmhm+ STP430S-C54/Nmhm+ STP435S-C54/Nmhm+ STP405S-C54/Nmhb+ STP410S-C54/Nmhb+ STP415S-C54/Nmhb+ STP420S-C54/Nmhb+ STP425S-C54/Nmhb+ STP430S-C54/Nmhb+ STP435S-C54/Nmhb+ STP415S-C54/Nshm STP420S-C54/Nshm STP425S-C54/Nshm STP430S-C54/Nshm STP435S-C54/Nshm STP410S-C54/Nshb STP415S-C54/Nshb STP420S-C54/Nshb STP425S-C54/Nshb STP430S-C54/Nshb	BBA 0198/485 BBA 0198/486 BBA 0198/487 BBA 0198/488 BBA 0198/489 BBA 0198/490 BBA 0198/491 BBA 0198/492 BBA 0198/493 BBA 0198/494 BBA 0198/495 BBA 0198/496 BBA 0198/497 BBA 0198/498 BBA 0198/499 BBA 0198/509 BBA 0198/510 BBA 0198/511 BBA 0198/512 BBA 0198/513 BBA 0198/514 BBA 0198/515 BBA 0198/516 BBA 0198/517 BBA 0198/518 BBA 0198/519 BBA 0198/520 BBA 0198/521 BBA 0198/522 BBA 0198/523 BBA 0198/524 BBA 0198/525 BBA 0198/526 BBA 0198/527 BBA 0198/528 BBA 0198/529 BBA 0198/530 BBA 0198/531 BBA 0198/532 BBA 0198/570 BBA 0198/571 BBA 0198/572 BBA 0198/573 BBA 0198/574 BBA 0198/575 BBA 0198/576 BBA 0198/577 BBA 0198/578 BBA 0198/579

CERTIFICATE

The following components are common for the product systems that have been assessed and registered by Kiwa Ltd against the provisions of:

MCS 010, MCS 011, MCS 012 issue 3.0

GSE IN-ROOF System - Portrait Version 2012 - KIWA00041/006 IK	
System components	**Frames**
GSE Flashing Hook	1575/1046
Double Clamp Hxx - Steel - Black - In Roof	1575/1053
Simple Clamp Hxx - Steel - Black - In Roof	1575/1082
GSE self-drilling wood screws 6.5 mm x 60 mm - Black	1580/808
Left Wedge for Simple Clamp - In Roof	1640/992
Right Wedge for Simple Clamp - In Roof	1640/1001
EPDM Cell for Screw - In Roof (25x21 EP. 5mm)	1640/1001/33
Pre-Compressed Seal - 20 x 40mm 5.5m (roll)	1686/1016
Flexalu Waterproof Strip Black 330mm (5 m roll)	
Flexalu Waterproof Strip Black 500mm (5 m roll)	
Flexalu Waterproof Strip Red 500mm (5 m roll)	
Fast Flash waterproof strip Black 370mm (5 m roll)	
Fast Flash waterproof strip Black 370mm (5 m roll)	
Fast Flash waterproof strip Grey 370mm (5 m roll)	
Fast Flash waterproof strip Grey 560mm (5 m roll)	
Fast Flash waterproof strip Tile red 370mm (5 m roll)	
Fast Flash waterproof strip Tile red 560mm (5 m roll)	
Fast Flash waterproof strip Anthracite 370mm (5 m roll)	
Fast Flash waterproof strip Anthracite 560mm (5 m roll)	
Roof-Underlay Screen (75 m^2 roll)	
Universal Top Centre Flashing - Black L 1500mm	
Top Junction Flashing - Black L 375mm	
Top Corner Piece Flashing - Black L1400mm (To Join Module to Top Centre Flashings)	
Pop Rivet 4x8 (Fixations Rivet for Top Centre Flashing)	
Lateral Flashing - Black	
Top Left Corner Flashing - Black	
Top Right Corner Flashing – Black	
GSE screw A2 6.4 x 45 mm + EPDM	
Semi-Rigid Bottom Flashing (Leadax)	
Semi-Rigid Bottom Flashing (Fast Flash)	

CERTIFICATE

The following components are common for the product systems that have been assessed and registered by Kiwa Ltd against the provisions of:

MCS 010, MCS 011, MCS 012 issue 3.0

GSE IN-ROOF System - Landscape Version 2012 - KIWA00041/007 IK	
System components	**Frames**
GSE Flashing Hook	1559/1046
Double Clamp Hxx - Steel - Black - In Roof	1575/1082
Simple Clamp Hxx - Steel - Black - In Roof	1580/808
GSE self-drilling wood screws 6.5 mm x 60 mm - Black	1640/992
Left Wedge for Simple Clamp - In Roof	1650/992
Right Wedge for Simple Clamp - In Roof	1660/992
EPDM Cell for Screw - In Roof (25x21 EP. 5mm)	1670/992
Pre-Compressed Seal - 20 x 40mm 5.5m (roll)	1675/992/33
Flexalu Waterproof Strip Black 330mm (5 m roll)	1680/992
Flexalu Waterproof Strip Black 500mm (5 m roll)	1686/1016
Flexalu Waterproof Strip Red 500mm (5 m roll)	1700/1016
Fast Flash waterproof strip Black 370mm (5 m roll)	
Fast Flash waterproof strip Black 370mm (5 m roll)	
Fast Flash waterproof strip Grey 370mm (5 m roll)	
Fast Flash waterproof strip Grey 560mm (5 m roll)	
Fast Flash waterproof strip Tile red 370mm (5 m roll)	
Fast Flash waterproof strip Tile red 560mm (5 m roll)	
Fast Flash waterproof strip Anthracite 370mm (5 m roll)	
Fast Flash waterproof strip Anthracite 560mm (5 m roll)	
Roof-Underlay Screen (75 m^2 roll)	
Universal Top Centre Flashing - Black L 1500mm	
Top Junction Flashing - Black L 375mm	
Top Corner Piece Flashing - Black L1400mm (To Join Module to Top Centre Flashings)	
Pop Rivet 4x8 (Fixations Rivet for Top Centre Flashing)	
Lateral Flashing - Black	
Top Left Corner Flashing - Black	
Top Right Corner Flashing – Black	
GSE screw A2 6.4 x 45 mm + EPDM	
Semi-Rigid Bottom Flashing (Leadax)	
Semi-Rigid Bottom Flashing (Fast Flash)	

CERTIFICATE

The following components are common for the product systems that have been assessed and registered by Kiwa Ltd against the provisions of:

MCS 010, MCS 011, MCS 012 issue 3.0

GSE IN-ROOF System - Portrait Version 2020- KIWA00041/008 IK	
System components	**Frames**
GSE Flashing Hook	1710/1000
Double Clamp Hxx - Steel - Black - In Roof	1710/1005
Simple Clamp Hxx - Steel - Black - In Roof	1710/1020
GSE self-drilling wood screws 6.5 mm x 60 mm - Black	1710/1025
Left Wedge for Simple Clamp - In Roof	1710/1030
Right Wedge for Simple Clamp - In Roof	1710/1040
EPDM Cell for Screw - In Roof (25x21 EP. 5mm)	1710/1050
Pre-Compressed Seal - 20 x 40mm 5.5m (roll)	1710/995
Flexalu Waterproof Strip Black 330mm (5 m roll)	1710/1010
Flexalu Waterproof Strip Black 500mm (5 m roll)	1710/1045
Flexalu Waterproof Strip Red 500mm (5 m roll)	1710/1055
Fast Flash waterproof strip Black 370mm (5 m roll)	
Fast Flash waterproof strip Black 370mm (5 m roll)	
Fast Flash waterproof strip Grey 370mm (5 m roll)	
Fast Flash waterproof strip Grey 560mm (5 m roll)	
Fast Flash waterproof strip Tile red 370mm (5 m roll)	
Fast Flash waterproof strip Tile red 560mm (5 m roll)	
Fast Flash waterproof strip Anthracite 370mm (5 m roll)	
Fast Flash waterproof strip Anthracite 560mm (5 m roll)	
Roof-Underlay Screen (75 m^2 roll)	
Universal Top Centre Flashing - Black L 1500mm	
Top Junction Flashing - Black L 375mm	
Top Corner Piece Flashing - Black L1400mm (To Join Module to Top Centre Flashings)	
Pop Rivet 4x8 (Fixations Rivet for Top Centre Flashing)	
Lateral Flashing - Black	
Top Left Corner Flashing - Black	
Top Right Corner Flashing – Black	
GSE screw A2 6.4 x 45 mm + EPDM	
Semi-Rigid Bottom Flashing (Leadax)	
Semi-Rigid Bottom Flashing (Fast Flash)	

CERTIFICATE

The following components are common for the product systems that have been assessed and registered by Kiwa Ltd against the provisions of:

MCS 010, MCS 011, MCS 012 issue 3.0

GSE IN-ROOF System - Landscape Version 2020- KIWA00041/009 IK	
System components	**Frames**
GSE Flashing Hook	1665/1020
Double Clamp Hxx - Steel - Black - In Roof	1675/1020
Simple Clamp Hxx - Steel - Black - In Roof	1680/1020
GSE self-drilling wood screws 6.5 mm x 60 mm - Black	1685/1020
Left Wedge for Simple Clamp - In Roof	1690/1020
Right Wedge for Simple Clamp - In Roof	1695/1020
EPDM Cell for Screw - In Roof (25x21 EP. 5mm)	1700/1020
Pre-Compressed Seal - 20 x 40mm 5.5m (roll)	1740/1020
Flexalu Waterproof Strip Black 330mm (5 m roll)	1705/1020
Flexalu Waterproof Strip Black 500mm (5 m roll)	1720/1020
Flexalu Waterproof Strip Red 500mm (5 m roll)	
Fast Flash waterproof strip Black 370mm (5 m roll)	
Fast Flash waterproof strip Black 370mm (5 m roll)	
Fast Flash waterproof strip Grey 370mm (5 m roll)	
Fast Flash waterproof strip Grey 560mm (5 m roll)	
Fast Flash waterproof strip Tile red 370mm (5 m roll)	
Fast Flash waterproof strip Tile red 560mm (5 m roll)	
Fast Flash waterproof strip Anthracite 370mm (5 m roll)	
Fast Flash waterproof strip Anthracite 560mm (5 m roll)	
Roof-Underlay Screen (75 m^2 roll)	
Universal Top Centre Flashing - Black L 1500mm	
Top Junction Flashing - Black L 375mm	
Top Corner Piece Flashing - Black L1400mm (To Join Module to Top Centre Flashings)	
Pop Rivet 4x8 (Fixations Rivet for Top Centre Flashing)	
Lateral Flashing - Black	
Top Left Corner Flashing - Black	
Top Right Corner Flashing – Black	
GSE screw A2 6.4 x 45 mm + EPDM	
Semi-Rigid Bottom Flashing (Leadax)	
Semi-Rigid Bottom Flashing (Fast Flash)	

CERTIFICATE

The following components are common for the product systems that have been assessed and registered by Kiwa Ltd against the provisions of:

MCS 010, MCS 011, MCS 012 issue 3.0

GSE IN-ROOF System - Half Portrait Version 2022- KIWA00041/010 IK	
System components	**Frames**
GSE Flashing Hook	DPo_1650_995
Double Clamp Hxx - Steel - Black - In Roof	DPo_1650_1070
Simple Clamp Hxx - Steel - Black - In Roof	DPo_1650_1100
GSE self-drilling wood screws 6.5 mm x 60 mm - Black	DPo_1650_1135
Left Wedge for Simple Clamp - In Roof	DPo_1650_1140
Right Wedge for Simple Clamp - In Roof	DPo_1650_1145
EPDM Cell for Screw - In Roof (25x21 EP. 5mm)	DPo_1650_1160
Pre-Compressed Seal - 20 x 40mm 5.5m (roll)	DPo_1840_995
Flexalu Waterproof Strip Black 330mm (5 m roll)	DPo_1840_1020
Flexalu Waterproof Strip Black 500mm (5 m roll)	DPo_1840_1030
Flexalu Waterproof Strip Red 500mm (5 m roll)	DPo_1840_1040
Fast Flash waterproof strip Black 370mm (5 m roll)	DPo_1840_1045
Fast Flash waterproof strip Black 370mm (5 m roll)	DPo_1840_1050
Fast Flash waterproof strip Grey 370mm (5 m roll)	DPo_1840_1070
Fast Flash waterproof strip Grey 560mm (5 m roll)	DPo_1840_1090
Fast Flash waterproof strip Tile red 370mm (5 m roll)	DPo_1840_1100
Fast Flash waterproof strip Tile red 560mm (5 m roll)	DPo_1840_1135
Fast Flash waterproof strip Anthracite 370mm (5 m roll)	DPo_2030_995
Fast Flash waterproof strip Anthracite 560mm (5 m roll)	DPo_2030_1040
Roof-Underlay Screen (75 m^2 roll)	DPo_2030_1050
Universal Top Centre Flashing - Black L 1500mm	DPo_2030_1055
Top Junction Flashing - Black L 375mm	DPo_2030_1135
Top Corner Piece Flashing - Black L1400mm (To Join Module to Top Centre Flashings)	DPo_2030_1305
Pop Rivet 4x8 (Fixations Rivet for Top Centre Flashing)	
Lateral Flashing - Black	
Top Left Corner Flashing - Black	
Top Right Corner Flashing – Black	
GSE screw A2 6.4 x 45 mm + EPDM	
Semi-Rigid Bottom Flashing (Leadax)	
Semi-Rigid Bottom Flashing (Fast Flash)	

CERTIFICATE

The following components are common for the product systems that have been assessed and registered by Kiwa Ltd against the provisions of:

MCS 010, MCS 011, MCS 012 issue 3.0

GSE IN-ROOF System - Landscape Evolution (half landscape)- KIWA 00041/011 IK	
System components	**Frames**
GSE Flashing Hook	DPa_1690_1090
Double Clamp Hxx - Steel - Black - In Roof	DPa_1725_1090
Simple Clamp Hxx - Steel - Black - In Roof	DPa_1755_1090
Left Wedge for Simple Clamp - In Roof	Dpa_1760_1090
Right Wedge for Simple Clamp - In Roof	DPa_1765_1090
EPDM Cell for Screw - In Roof (25x21 EP. 5mm)	DPa_1800_1090
Pre-Compressed Seal - 20 x 40mm 5.5m (roll)	DPa_1810_1090
Flexalu Waterproof Strip Black 330mm (5 m roll)	DPa_1815_1090
Flexalu Waterproof Strip Black 500mm (5 m roll)	DPa_1990_1090
Flexalu Waterproof Strip Red 500mm (5 m roll)	
Fast Flash waterproof strip Black 370mm (5 m roll)	
Fast Flash waterproof strip Black 370mm (5 m roll)	
Fast Flash waterproof strip Grey 370mm (5 m roll)	
Fast Flash waterproof strip Grey 560mm (5 m roll)	
Fast Flash waterproof strip Tile red 370mm (5 m roll)	
Fast Flash waterproof strip Tile red 560mm (5 m roll)	
Fast Flash waterproof strip Anthracite 370mm (5 m roll)	
Fast Flash waterproof strip Anthracite 560mm (5 m roll)	
Roof-Underlay Screen (75 m^2 roll)	
Lateral flashing Landscape	
Landscape Top Left Corner Flashing - Black	
Landscape Top Right Corner Flashing – Black	
GSE self-drilling wood screws 6.5 x 60 - Black	
GSE screw A2 6.4 x 45 mm + EPDM	
In-Roof Landscape Evolution Rail screw and nut	
Landscape Top Central Flashing - Black	
Landscape Top Junction Flashing – Black	
Semi-Rigid Bottom Flashing (Leadax)	
Semi-Rigid Bottom Flashing (Fast Flash)	