



MCS Product Certificate

Date Issued	9th July 2024	Annual review date	29th September
Issue number	4	Orignal/Amendment	Original
Certificate number	KIWA00037	Page	1 of 5

MCS Product Certification Certificate Issued by Kiwa Ltd

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

Producer:

Van der Valk Solar Systems B.V

Zwartendijk 73 Monster 2681 LP The Netherlands

Manufacturer:

As Above

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

Signed on behalf of Kiwa Ltd

MECrouther

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







Appendix to Certificate KIWA00037

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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	Nodel Name MCS Certificate Numl		Number			
ValkPitched	ValkPitched Clamp for tiled roofs MCS00037/002 Ik			02 IK				
Туре	Above Ro	Above Roof: System						
System components	Components for this system are listed in ANNEX I – only those listed are included in the scope of the certification.							
System/Component Description	Roof hook mounting with alumi	Roof hook based system with rails attached by bolts. Range of screw locations for mounting the hooks. Hooks are adjustable vertically and horizontally. PV modules fixed with aluminium clamps.						
Compatible Roof Coverings	• Discontin o Profile o Plain o	• Discontinuous o Profile concrete/clay tile o Plain concrete/clay tile						
Tests Undertaken	Resistance to wind uplift				Yes / No			
(strikethrough	Fire performance				Yes / No			
inapplicable)	Weather ti	ghtness			Yes / No			
Resistance to Wind Uplift	-							
If attached to sub- structure: Compatible substructures	Timber							
Test Preparation	2 Solar PV modules mounted onto 2 horizontally positioned mounting rails. 2 end clamps applied on the outside edge of each panel and 2 middle clamps between the adjacent edges of the panels. The mounting rails each attached to 3 standard Strongline roof hooks onto the wooden substructure of the test rig. Rig slope of 45° with uplift loading system attached to the PV modules, each with 8 suction cups. Cyclic loading, unloading applied to determine failure load. 3 tests with new fittings and the Characteristic Wind Uplift Resistance calculated from the results.							
Maximum Design Wind Uplift Resistance	3.6 kPaPartial (safety) factor(s)1.0				1.0			
Failure Mode	Serviceability Limit State							
If attached to timber sub- structure: For certified wind uplift resistance in sound timber - dimensions	width 55 mm X depth 150 mm							
Weathertightness								
If discontinuous roof covering								
Reference Roof Covering	Туре:	Tiles	Pitch:	30 °	Head-lap	Not determined		
Kelerence Koor oovening	Maximum unprotected gap in reference roof covering (+/- 1mm)					Not determined		
Maximum unprotected gap v	kimum unprotected gap with mounting system/component installed (+/- 1mm) Not determined					Not determined		
Minimum Permissible roof P	Pitch (°) 30 °					30 °		
Test B (if applicable)	Applied suction at leakage rate 10g/m2/5min 0.02 kP				0.02 kPa			
Test D (if applicable)	Leakage observed after 2 min 0 g			0 g				
Fire Performance								
	BS 476-3: 2004 Not determine			d				
	CEN TS 1187:2012 Test 4 Not determin			d				
Fire Classification	Not required The fire performance of this above roof mountin not currently required for MCS 012. Research in into any influence above roof solar panels coul the fire classification of the roof mounting system		nting system is ch is ongoing ould have on stem.					



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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	e MCS Certificate Number		Number			
ValkAce	ValkAce for tiled roofs			М	MCS00037/003 IK			
Туре	Above Roof: System							
System components	Components for this system are listed in ANNEX I – only those listed are included in the scope of the certification.							
System/Component Description	SS Roof hook based system with rails attached aluminium clip arrangement. Range of screw locations for mounting the hooks. Hooks are height adjustable. PV modules fixed with aluminium clamps.							
Compatible Roof Coverings	• Discontin o Profile o Plain	Discontinuous o Profile concrete/clay tile o Plain concrete/clay tile						
	Resistance	e to wind uplift			Yes / No			
Tests Undertaken	Fire performance				-Yes -/No			
	Weather ti	ghtness			Yes / No			
Resistance to Wind Uplift								
If attached to sub- structure: Compatible substructures	Timber							
Test Preparation	2 Solar PV modules mounted onto 2 horizontally positioned mounting rails. 2 end clamps applied on the outside edge of each panel and 2 middle clamps between the adjacent edges of the panels. The mounting rails each attached to 3 Strongline roof hooks onto the wooden substructure of the test rig. Rig slope of 45° with uplift loading system attached to the PV modules, each with 8 suction cups. Cyclic loading, unloading applied to determine failure load. 3 tests with new fittings and the Characteristic Wind Uplift Resistance calculated from the results.							
Maximum Design Wind Uplift Resistance	1.716 kPaPartial (safety) factor(s)1.0				1.0			
Failure Mode	Serviceability Limit State							
If attached to timber sub- structure: For certified wind uplift resistance in sound timber - dimensions	width 55 mm X depth 150 mm							
Weathertightness								
If discontinuous roof covering								
Reference Roof Covering	Type:	Tiles	Pitch:	30 °	Head-lap	Not determined		
Kelerence Köör öövening	Maximum unprotected gap in reference roof covering (+/- 1mm)					Not determined		
Maximum unprotected gap v	cted gap with mounting system/component installed (+/- 1mm) Not determined					Not determined		
Minimum Permissible roof P	Pitch (°) 30 °					30 °		
Test B (if applicable)	Applied suction at leakage rate 10g/m2/5min 0.02 kH				0.02 kPa			
Test D (if applicable)	Leakage observed after 2 min 0 g			0 g				
Fire Performance								
	BS 476-3: 2004 Not determined							
	CEN TS 1187:2012 Test 4 Not determined							
Fire Classification	Not required The fire performance of this above roof mounting s not currently required for MCS 012. Research is or into any influence above roof solar panels could ha the fire classification of the roof mounting system.			nting system is h is ongoing buld have on stem.				







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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 M		MCS C	MCS Certificate Number			
ValkPitched	ValkPitched Clamp Trapezoidal		KIWA00037/004 IK				
Туре	Above Roof: System						
System components	Components for this system are listed in ANNEX I – only those listed are included in the scope of the certification.						
System/Component Description	Mini rail based customizable installation kit for attachment to trapezoidal profiled continuous metal roof coverings.				iled		
Compatible Roof Coverings	 Continuo o Sheet 	ous: or profiled metal					
	Resistance	e to wind uplift			Yes / No		
Tests Undertaken	Fire perfor	mance		Yes / No			
	Weather ti	ightness			Yes / No		
Resistance to Wind Uplift							
If attached to roof covering: Compatible roof covering	Profiled metal (Trapezoidal)						
Test Preparation	2 Solar PV modules mounted onto Falk 1100 TR 3+ 40/70, 0,50/0,40 / 37 sandwich panels using the mounting system according to manufacturer's instructions. Sandwich panels mounted on standard testing rig, slope 45° and the uplift loading system attached to the PV modules, each with 8 suction cups. Cyclic loading, unloading applied to determine failure load. 3 tests with new fittings and the Characteristic Wind Uplift Resistance calculated from the results.						
Maximum Design Wind Uplift Resistance	1.23 kPaPartial (safety) factor(s)1.0			.0			
Failure Mode	Serviceability Limit State						
If attached to timber sub- structure: For certified wind uplift resistance in sound timber - dimensions	NOT APPLICABLE						
Weathertightness							
If continuous roof covering	9						
Reference Roof Covering	Type:	Trapezoidal metal sheet		Pito	ch:	0 °	
Impermeability test (if applicable)	Leakage observed at end of test 0 g			0 g			
Test D (if applicable)	Leakage observed after 2 min Not applicable			Not applicable			
Fire Performance							
BS 476-3: 2004 Not determined							
	CEN TS 1187:2012 Test 4		Not determined				
Fire Classification	Not required The fire perform not currently re into any influen the fire classifi		nance of this above roof mounting system is equired for MCS 012. Research is ongoing ice above roof solar panels could have on cation of the roof mounting system.				



MCS Product Certificate



Annex II to Certificate KIWA00037

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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

Mounting frame installation components
ValkPitched Clamp for tiled roofs
Customisable kit comprising variable numbers of the following parts:
Ss Strongline roof hook (747844)
Ss Torx Screw 5.5x58mm (773360)
Alu. Side++ profile (7017xxxxx) (various lengths)
Alu. Coupling for Side++ profile (724863)
Mid panel clamp for alu profile – T30 – clamping range 28-50mm (721550)
End panel clamp for alu profile – T30 – clamping range 28-50mm (721552)
ValkAce for tiled roofs
Customisable kit comprising variable numbers of the following parts:
Ss Strongline roof hook – ValkAce (747506)
Ss Strongline Heavy Duty roof hook – ValkAce (747504)
Ss Torx Screw 5.5x58mm (773360)
Alu. Profile ValkAce (701900000) (various lengths)
Coupling piece ValkAce profile (749502)
Alu. Mid clamp ValkAce (721410)
Alu. End clamp ValkAce (721412)
ValkPitched Clamp Trapezoidal
Alu. trapezoidal profile L=120mm + EPDM (7269120)
Ss. thin sheet screw M6x25mm (773225)
Alu. mid panel clamp alu profile 28-50mm

Alu. end panel clamp alu profile 28-50mm