

# Declaration of Performance - Solar Panel Brackets

## 1. Product's Unique Identification Code

Solar panel brackets installed according to M-132, M-270, M-271, M-277, M-349, M-350, M-351 and M-352.

Item no.	Designation
100185	Mounting plate 375 x 375 mm
100277	Folding/pre-fabricated panel roof bracket
410003	Anchor plate, load-bearing roof underlay
410006	Solar panel bracket concrete tiles
410007	Solar panel bracket clay tiles
410009	Solar panel bracket smooth roof/profiled sheet metal
410016	Solar panel bracket M10
410157	Batten bracket, simplified roof underlay
410113	Mounting plate, shingle

## 3. Manufacturer's Name and Contact Address

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Sweden

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## 2. Intended Use for the Construction Product

- Attachment of solar panels and similar devices.

## 4. Specified Performance

Item no.	Maximum load capacity perpendicular from the roof.	Maximum load capacity in the direction of the roof.
100277	3 kN**	2.4 kN**
410006	2.5 kN	6 kN
410007	2.5 kN	6 kN
410009	2.5 kN*	3.7 kN*
410016	2.5 kN*	3.7 kN*
410113	5 kN	6 kN
100185/ 410113 +410009	2.5 kN	3.7 kN
100185/ 410113 +410016	2.5 kN	3.7 kN
100185	0.7-5 kN***	7 kN

Essential properties	Performance	Technical specifications
Reaction to fire	Class A1, B <sub>roof</sub>	EN 516:2006
Durability	At least equivalent to hot galvanisation	EN 516:2006
Durability	Corrosivity class C4 40 years	EN ISO 12944-2

\* Installed on steel sheet 0.4 mm or aluminium sheet 0.8 mm \*\* Installed on steel sheet 0.6 mm or aluminium sheet 0.7 mm

\*\*\* Load capacity perpendicular from the roof can be raised to a maximum of 5 kN only if the designer demonstrates that the application of such a load is approved.

## 5. Other

Performance of the product specified in Sections 1 and 2 is consistent with the Performance of the product specified in Section 4. This Declaration of Performance was issued by the manufacture at its own responsibility as specified in Section 3.

Signed on behalf of the manufacturer by:



Thomas Lundberg  
Managing Director

Mora, 7 June 2022

**The Performance of the product indicated below does not constitute a portion of the declared Performance of the product. The manufacture issues additional information about the product which affects or which may affect its use.**

#### Other Performance

<i>Properties</i>	<i>Performance</i>	<i>Technical specifications</i>
Corrosion resistance (corrosivity class C4)	40 years	EN ISO 12944-2
Exterior reaction to fire (according to 7.3)	B <sub>roof</sub>	EN 516:2006

#### Requirements on PVC, ECB/FPO-based membranes

The waterproofing membrane must satisfy the requirements set out in EN 13956, as well as the following requirements:

<i>Properties</i>	<i>Requirement</i>	<i>Technical specifications</i>
Tensile strength	min. 500 N/50 mm	EN 12311-2
Tear resistance	min. 110 N	EN 12310-2
Shear resistance at extensions	min. 450 N/50 mm	EN 12317-2
Peel strength at extensions	min. 150 N/50 mm	EN 12316-2

#### Requirements for bitumen-based membranes

The waterproofing membrane must satisfy the requirements set out in EN 13707:2004+A2:2009, as well as the following requirements:

<i>Properties</i>	<i>Requirement</i>	<i>Technical specifications</i>
Tensile strength in longitudinal and transverse directions	min. 300 N/50 mm	EN 12311-1
Tear resistance	min. 150 N	EN 12310-1
Shear resistance at extension and longitudinal and transverse directions	min. 500 N/50 mm	EN 12317-1
Peel strength	min. 125 N/50 mm	EN 12316-1

#### Requirements for weldable EPDM membranes

The waterproofing membrane must satisfy the requirements set out in EN 13956, as well as the following requirements:

<i>Properties</i>	<i>Requirement</i>	<i>Technical specifications</i>
Tensile strength	min. 400 N/50 mm	EN 12311-2
Tear resistance	min. 12 N	EN 12310-2
Shear resistance at extensions	min. 200 N/50 mm	EN 12317-2
Peel strength at extensions	min. 80 N/50 mm	EN 12316-2