



SOLAR-MOUNTING®

Integrated Fixation Plate (Product no 220502)

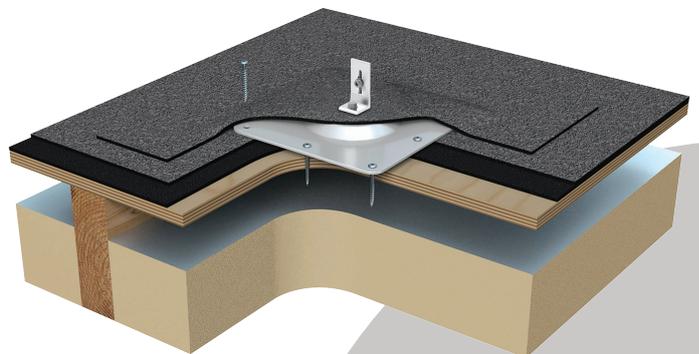
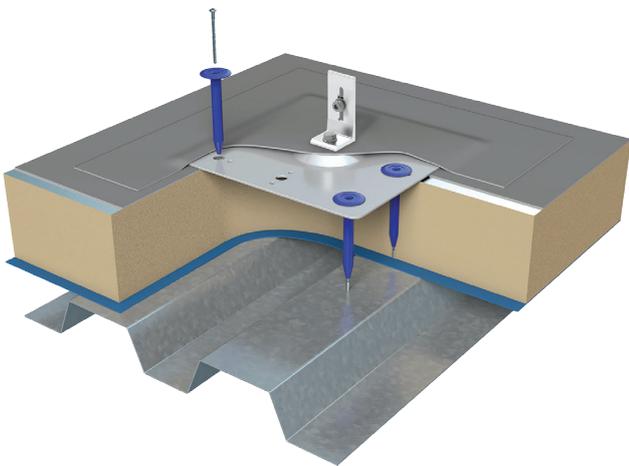
The Integrated Fixing Plate can be fitted to cold and warm roof constructions with either single ply or bituminous membranes and in new build or retrofit situations.

In warm roof construction the Integrated Fixing Plate is normally fixed through the completed roof and insulation into the roof deck using either the 7mm holes for direct type fixing or the 17mm holes for thermally broken type fixings.

Where used in cold and warm roof construction it is important that the Integrated Fixing Plate is covered + plus 10 cm from edges with the same membrane that the main roof, to avoid any compatibility issues.

Salient Features

- 15 years Manufacturer's warranty
- Strict installation routine
- Eliminates the possible risks of leaks
- Approved installers fitting



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Unique Features

Design Consideration

» Quantity

The number of Integrated Fixing Plates required for a particular application will be affected by various factors which of some we have outlined below:

» Loading:

The Integrated Fixing Plates will support varying downwards loads depending upon the substrate they are mounted upon.

» Uplift:

The Integrated Fixing Plates depend upon the type and number of fixings used to secure them in position see table page 3.

» Supporting rails:

Where supporting rails are fixed to the Integrated Fixing Plates, consideration must be given to the strength of these rails and the centers at which they require support to perform in accordance with load demands.

» Location:

The geographical location, height and wind zone constraints will need to be taken account of in any design involving the use of Integrated Fixing Plates.

» Minimum installation plates:

A minimum number of two Integrated Fixing Plates must be used for all applications.

» Warranty for Integrated Fixing Plates :

Where the Integrated Fixing Plates is purchased as part of a roof system it will be covered by the warranty supplied by the roofing manufacturer, otherwise 15 years warranty on components.

Mounting Instructions

» Concept:

The Integrated Fixing Plates is designed to be mounted over the completed weathering layer of the roof on which they are to be used.

» Roof Membrane:

It is important that the Integrated Fixing Plate is covered + plus 10 cm from edges, with the same membrane that the main roof, to avoid any compatibility issues.

» Setting out:

The Integrated structural elements e.g. rafters or purlins, these should be identified and the Integrated Fixing Plates set out and located accordingly.

» Mounting on cold roof constructions:

Ensure that the fasteners used will penetrate the roofing membrane or layer and the roof deck below in accordance with the manufacturer's tolerance.

» Mounting on warm roof constructions:

Ensure that the fasteners of sufficient length to penetrate the insulation and the roof deck are used in accordance with the fasteners manufacturer's instructions.

» Metal roof decks:

Where the roof deck is a profiled metal deck, the Integrated Fixing Plates must only be into the crown of the profile.

» Weathering:

Again the Integrated Fixing Plates should always be covered with the same membrane that the main roof, to avoid any compatibility issues.

Table 1

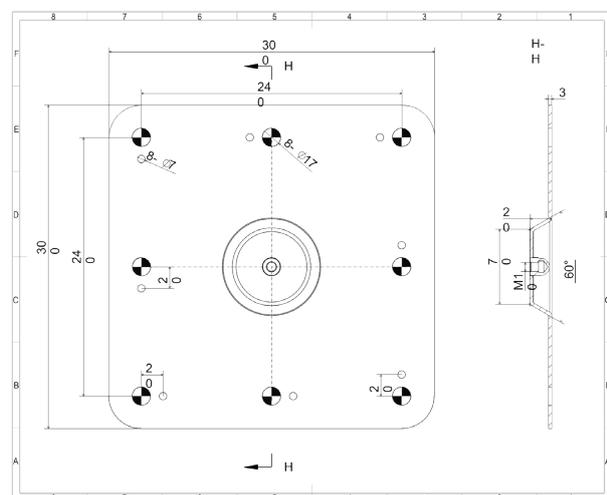
Static Loading in Kg

Insulation manufacturers long term static load ratings	20 kpa	30 kpa	40 kpa	50 kpa	60 kpa
Roof Top loading capacity per post in kg	125kg	187kg	250kg	312kg	375kg

Table 2

Typical uplift values in KN - Below values must be approved locally.

Roof Deck Type	Thickness	KN per fixing	4 fasteners	6 fasteners	8 fasteners
Steel decking	0.7mm	1.6	2.1kn	3.2kn	4.2kn
	0.9mm	1.6	2.9kn	4.4kn	5.0kn
	1.2mm	1.6	3.6kn	5.0kn	5.0kn
	1.6mm	1.6	5.0kn	5.0kn	5.0kn
Plywood	18mm	1.6	2.9kn	4.4kn	5.0kn
OSB	18mm	1.6	2.9kn	4.4kn	5.0kn
Pine/Spruce board	25mm	1.6	4.5kn	5.0kn	5.0kn
Pine/Spruce joist	35mm	1.6	5.0kn	5.0kn	5.0kn
Concrete	25mm	1.6	5.0kn	5.0kn	5.0kn
Unit weight	Fitted with 5 mm SBS Bitumen torch 3.2kg				



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