Fixation of ValkPro+ and ValkPitched mounting systems by means of Nicholson Rooftrak IFP250 mounting plates.

Van der Valk Solar Systems and Nicholson STS Ltd confirm that ValkPro+ and ValkPitched mounting systems can be correctly fixed to membrane covered roofs by means of Rooftrak IFP250 mounting plates*. The combination has been thoroughly tested and results show that the products are compatible and the forces that can be applied on the PV-system are well within the required range. Therefore the standard warranty conditions for the ValkPro+ and ValkPitched mounting systems and the Rooftrak IFP250 mounting plates are applicable for this fixation method and product combination.

Please contact Van der Valk Solar Systems for a tailored advice on the required number of mounting plates for your project.

For correct installation of the mounting plates, please refer to the instruction manuals available on ROOFTRAK® IFP250 - Nicholson Roof Products.

Denis de Vette

Managing Director

Van der Valk Solar Systems

January 9th, 2026

Alan Boyt

Director

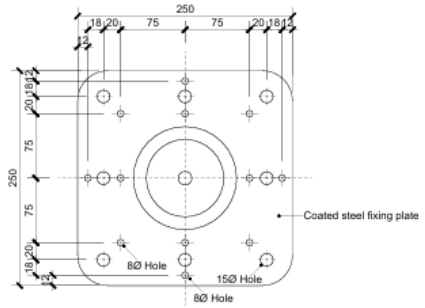
Nicholson STS Ltd

January 9th, 2026

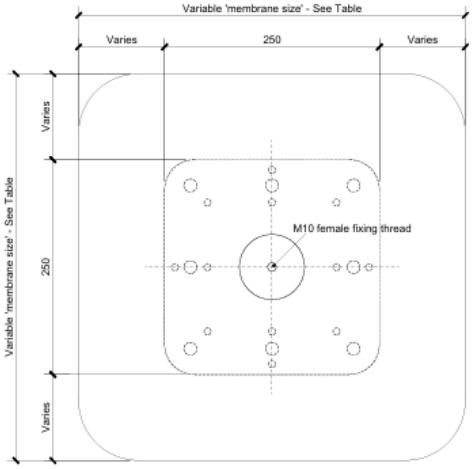
** Specifications of the mounting plates are found in the Appendix.*

integrated fixing point

ROOFTRAK®

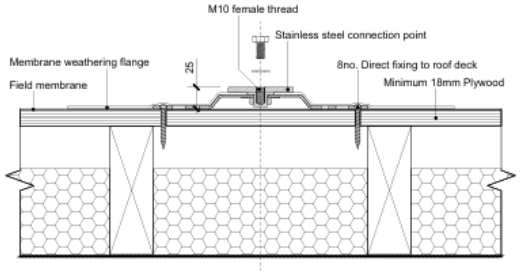


ROOFTRAK IFP250 FIXING PLATE DIMENSIONS - PLAN VIEW

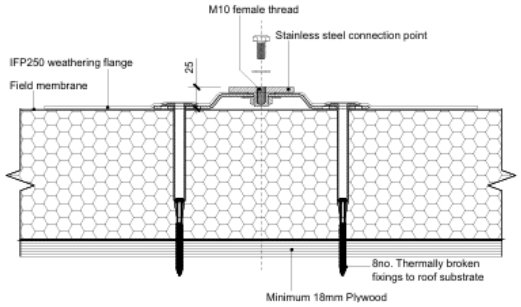


ROOFTRAK IFP250 - PLAN VIEW INCLUDING MEMBRANE

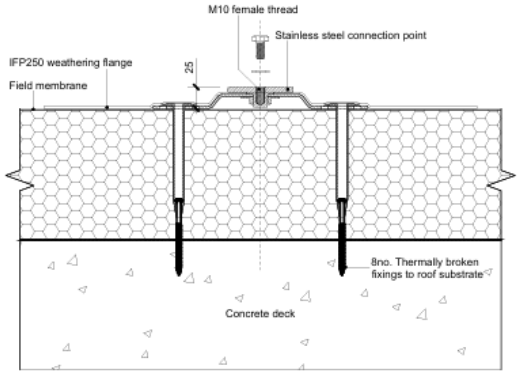
Membrane	Size
Single Ply	450 x 450
Bituminous	550 x 550



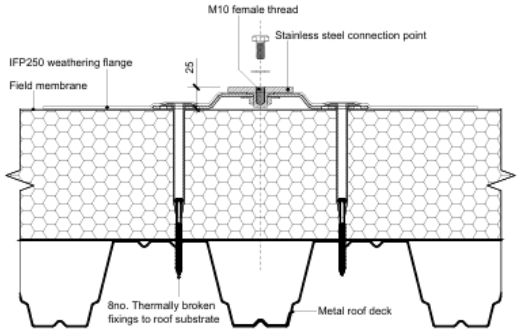
ROOFTRAK IFP250 ON COLD ROOF - SECTION VIEW



ROOFTRAK IFP250 ON WARM ROOF - SECTION VIEW (PLY DECK)



ROOFTRAK IFP250 ON WARM ROOF - SECTION VIEW (CONCRETE DECK)



ROOFTRAK IFP250 ON WARM ROOF - SECTION VIEW (STEEL DECK)

The IFP is protected by European Patent 2855794 and US Patent 9637917

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Drawing title:
ROOFTRAK IFP250
for membrane roofing systems

IFP250-MEM-02/25

1:5 @ A3

integrated fixing point

ROOFTRAK®

ROOFTRAK IFP250
The ROOFTRAK IFP250 is a unique patent protected fixing point which provides a structural connection to the building substrate whilst maintaining the integrity of the weathering membrane.

Uses
The IFP250 is designed for use on cold, warm, SIPS & fully supported membrane roof constructions and can be used for applications where a connection to the building structure is required. This would include uses such as solar PV, solar thermal, rainscreen façade, cladding, roof plant supports and roof mounted signage. The IFP can be used on flat, pitched & vertical applications

Not for Use with
Balustrade or any use which has a non-axial load applied

Compatibility
The ROOFTRAK IFP250 can be used with virtually all membrane type roof covering including single ply membranes, EPDM rubber coverings, SBS & APP bituminous membranes, liquid and GRP roof systems.

Materials
The ROOFTRAK IFP comprises of 3 main components;
- Pressed 2mm steel plate with polyester powder coating
- Membrane flange to suit field membrane system
- 304 grade stainless steel connection point with 1no. M10 x 20mm female thread.
- Also available in 316 grade stainless steel for marine enviroments.

These components are always supplied as a factory assembled product. Tampering or adjustment to the factory finished unit will invalidate the warranty.

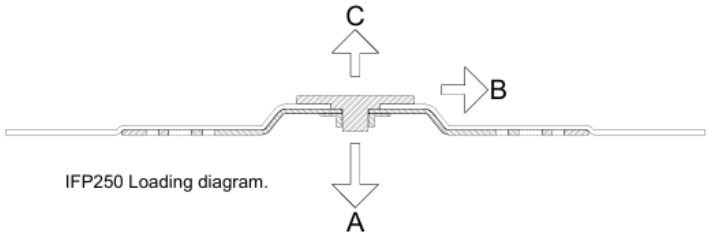
Dimensions
- Fixing plate — 250mm x 250mm x 2mm
- Fixing holes — 8no. 8mm Ø for direct fixing method, 8no. 15mm Ø for thermally broken fixing methods
- Anchor points — 1no. M10 x 20mm female blind threaded hole
- OA height — 25mm

Membrane size required
- single ply & EPDM — 450mm x 450mm
- APP & SBS bitumen — 550mm x 550mm

Weight
Approx 2.7 kg

Installation
The ROOFTRAK IFP250 can be installed onto membrane covered roofs. It is the installers resposibility to ensure that the substrate has the structural integrity to withstand the loads imposed. The IFP250 should be secured to the structure using either 6 or 8 suitable direct or thermally broken fixings according to the uplift resistance values required. Once fixed into position, the factory fitted membrane flange should be sealed to the field roof membrane in accordance with standard procedures associated to that specific membrane or as directed by the membrane manufacturer. It is the installer's responsibility to ensure that a waterproof seal is achieved at the lap joint.

An M10 bolt of a suitable length can be used to secure framework to the IFP250 in line with the intended uses of the IFP250 unit. The bolts should be installed with a suitable thread locking adhesive or locking washer to stop potential loosening over time. M10 bolts to the top of the IFP250 should be tightened to 57.3 Nm. See installation instructions for this product.



IFP250 Loading diagram.

Load ratings.

IFP250	Substrate Material	Fixing Method	Fixing Specification	Compressive load rating 'A'	Shear loading 'B'	Tensile load rating 'C'
Cold roof or fully supported membrane	18mm Plywood to EN363	8 x Direct	SF-RS-5.8 - min. length 40mm	5kN	2.5kN	5.0kN
Cold roof or fully supported membrane	18mm OSB/3 to EN363	8 x Direct	SF-RS-5.8 - min. length 40mm	5kN	2.5kN	4.2kN
Cold roof or fully supported membrane	New concrete substrate C25/30 min. 100mm depth	8 x Direct	SF-RS-6.1 - min. embedment 30mm	5kN	2.5kN	5.0kN
Cold roof or fully supported membrane	Softwood C16 or CLT min. depth 50mm	8 x Direct	SF-RS-6.1 - min. embedment 40mm	5kN	2.5kN	5.0kN
Warm Roof	Rigid PIR insulation on 18mm plywood to EN363 or 18mm OSB3 to EN300	8 x Thermally broken	ST-T-50 to suit insulation depth + SF-RS-5.8 - min. 12mm to underside of substrate board	Assume min. static load rating 30kPa insulation - 1.8kN	Assumes rigid PIR insulation 2.5kN	4.1kN
Warm Roof	Rigid PIR insulation on new C25/30 concrete substrate min. 100mm depth	8 x Thermally broken	ST-T-50 to suit insulation depth + SF-RS-6.1 - 30mm embedment	Assume min. static load rating 30kPa insulation - 1.8kN	Assumes rigid PIR insulation 2.5kN	4.1kN
Warm Roof	Rigid PIR insulation on min. 0.7mm steel trapizoidal substrate	8 x Thermally broken	ST-T-50 to suit insulation depth + SF-RS-5.8 - min. 15mm to underside of steel	Assume min. static load rating 30kPa insulation - 1.8kN	Assumes rigid PIR insulation 2.5kN	4.1kN
Warm Roof	Rigid PIR insulation on min. 0.7mm steel trapizoidal substrate	6 x Thermally broken	ST-T-50 to suit insulation depth + SF-RS-5.8 - min. 15mm to underside of steel	Assume min. static load rating 30kPa insulation - 1.8kN	Assumes rigid PIR insulation 1.8kN	3.1kN
Kingspan KS1000TD Topdeck panel	Rigid insulation on 0.5mm steel inner profiled skin	8 x Thermally broken	ST-T-50 to suit insulation depth + SF-RS-5.8 - min. 15mm to underside of steel	Assume min. static load rating 30kPa insulation - 1.8kN - Subject to roof structure TBC	N/A	1.9kN

Notes.
1. Load values calculated on specified fixing and allow a safety factor of three on combined characteristic pullout values.
2. Axial loads only - not suitable for non-axial applications or any load resulting in rotational forces.
3. It is the puchasers or specifiers responsibility to check that the insulation will bear any compressive load without compression. Seek insulation manufacturers advice if in doubt.
4. Shear values for warm roof applications assume 150mm insulation & using 8no. thermally broken fixings.
5. Compressive load values for mineral wool insulation to be checked on a per project basis.
6. On-site testing may be required for existing concrete roof structures.

The IFP is protected by European Patent 2855794 and US Patent 9637917

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