# IKO IFP Integrated Fixing Point

**Technical Data Sheet – Section 11.00**

## PRODUCT INFORMATION

The IKO IFP250 (Integrated Fixing Point) is a fixing point system developed to provide a connection to the building structure whilst maintaining 100% integrity of the weathering membrane.

The IKO IFP250 is designed for use on warm, cold, SIPS & fully supported roof constructions. It is factory fitted with an IKO Armourplan or IKO Ultra Reinforced Bitumen Membrane flange material to enable it to be weathered or sealed to the main roof area.

| Product reference | Product Code |
|---|---|
| IKO IFP 250 SBS | 55250550 |
| IKO IFP 250 PVC | 55250450 |

## USE

The IKO IFP250 can be used on both warm and uninsulated/cold roof constructions where a secure fixture to the structure is required.

The IKO IFP250 has a M10 threaded receptor to the top of the fixing point that enables connection to many types of frameworks.

This product must be installed by an IKO Approved or Registered Installer. All work must be undertaken in accordance with the requirements of the specific information provided with the issued IKO Specification document, or guidance documents where applicable.

# PERFORMANCE & COMPOSITION

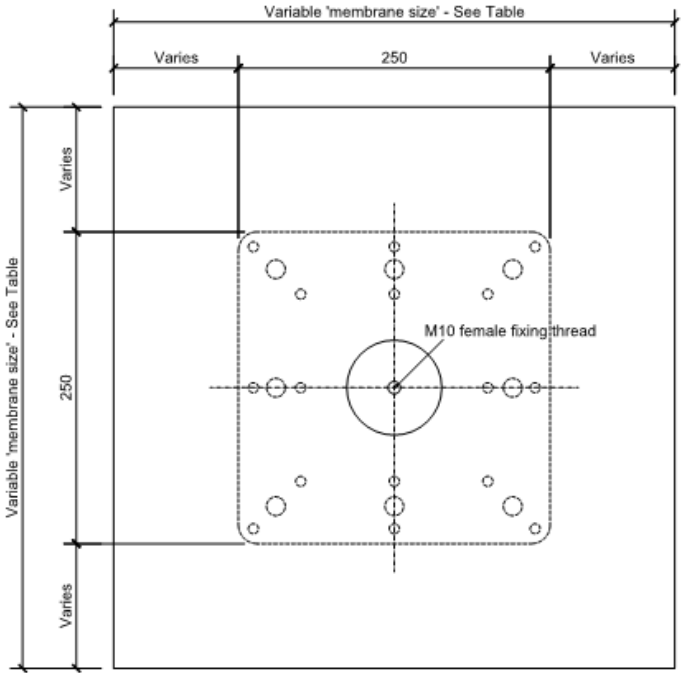
Product reference: IKO Integrated Fixing Point SBS/PVC
Use: Applications where connection to building structure is required e.g. Solar PV, Solar thermal, Rainscreen façade, Roof plant supports, Roof mounted signage.

## Description

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 environments

## Dimensions

| | |
|---|---|
| Fixing Plate | 250mm x 250mm x 2mm |
| Fixing Holes | 16no. 7mm Ø for direct fixing method<br>8no. 14mm Ø for thermally broken fixings |
| Anchor Points | 1no. M10 x 20mm female blind threaded hole |
| OA. Height | 25mm |
| Armourplan flange size | 450mm x 450mm |
| SBS membrane flange | 550mm x 550mm |
| Weight | Approx 2.7kg |

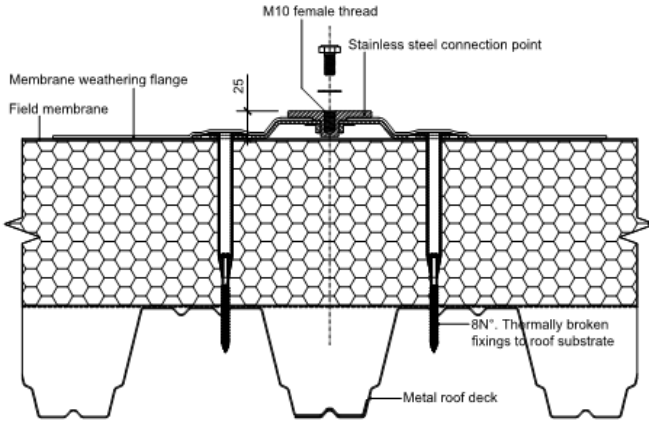


## INSTALLATION

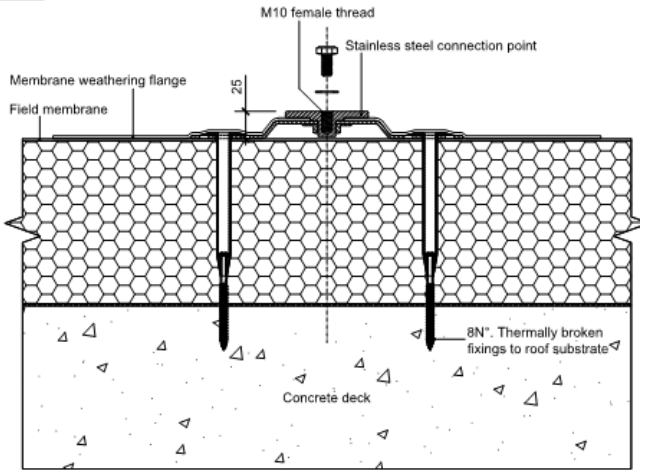
Each unit is to be secured and waterproofed in accordance with the waterproofing manufacturer's recommendations.

- The IKO IFP250 can be installed onto fully supported membrane covered roofs.
- It is the installers responsibility to ensure that the substrate has the structural integrity to withstand the loads imposed.
- The IKO 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 IKO standard procedures associated to that specific membrane.
- 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 IKO IFP250 in line with the intended uses of the IKO 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 IKO IFP250 should be tightened to 57.3 Nm.

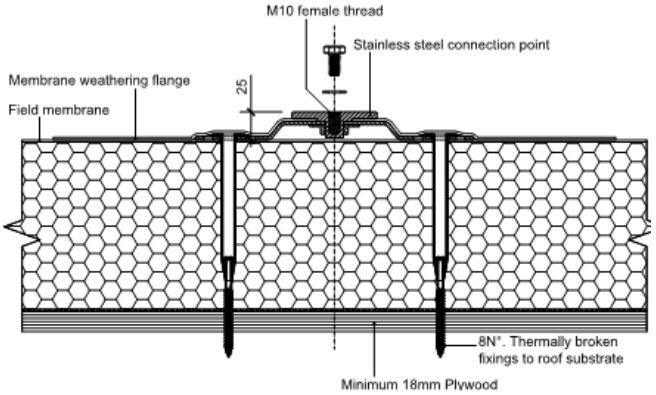
### Typical Constructions



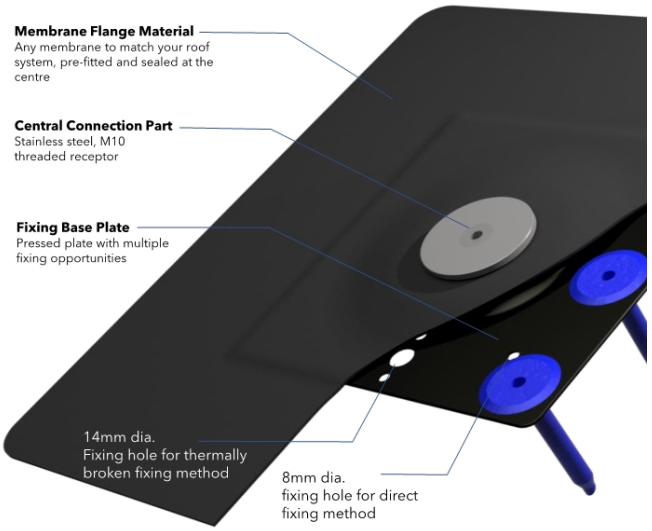

**IKO IFP250 on warm roof – section metal deck.**




**IKO IFP250 on warm roof – section concrete deck.**




**IKO IFP250 on warm roof – section timber deck.**




## Installation Guidelines

### General

The installing operative must be a competent person working for the IKO Approved Contractor with a good understand of flat roofing and weathering principles and fully understands the installation requirements of the IKO IFP250.

- The IKO IFP250 should be positioned on the roof in the desired location.
- They should be positioned on the roof that are free draining, and no ponding water will occur. The guarantee will be invalidated if any unit is submerged or subject to standing water.
- The installing contractor must ensure where multiple IKO IFP250 are being used that all align prior to fixing into position.
- Fold back the waterproofing membrane on the IFP250 to allow for the installation of the mechanical fixings to the base plate.
- Only use recommended fixings and thermally broken tube washers.
- All 8No fixing must be utilised to secure the base plate to the structural deck. Care should be taken when using thermally broken tube washers and fixings that the head does not pull through the washer. A low torque setting should be used and incrementally increased so the tube washer pulls tight without damage to the tube.

- Seal and fully bonded the membrane flange onto the roof waterproofing in accordance with the manufacture's recommendations.
- Care should be taken to ensure the threaded receptor of the IFP250 is kept clean and free from debris until further attachments are made.

When fixing to a flat warm roof construction with thermally broken tube washers utilise the 8No 14mm dia holes.

- Where mineral wool insulation is being used with in a warm flat roof construction, it is the installing contractor's responsibility to ensure that compression of the insulation does not occur at installation and will not occur under load. Alternative IKO IFP250 units are available for such applications.
- Any fixing used to secure the IKO IFP250 to the roof structure must be equal to or exceed the specification performance requirement in terms of wind loading.
- The IKO IFP250 must not be tampered with, any such attempt to tamper with the IKO IFP250 will invalidate any guarantee.

## Exclusions

- IKO IFP250 is not suitable for inverted, green or blue roofs or warm roofs with Mineral stone wool insulation. Alternative units are available and should be used.
- IKO IFP250 should not be used to secure or support non axial loads such as but not limited to handrail balustrades or privacy screen. Alternative units are available and should be used.
- Fit for purpose is the responsibility of the installing contractor.

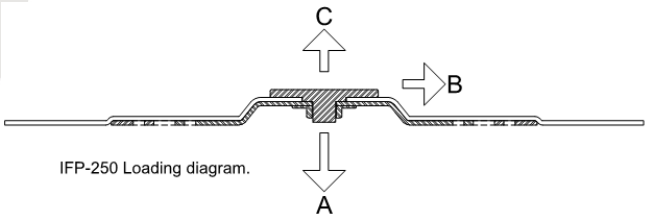
## Health and Safety

- Wear suitable PPE whilst handling and installing the IKO IFP250.
- IKO IFP250 boxes can be heavy, and care should be taken when lifting and handling.
- Important note: IKO IFP250 once installed can present a trip hazard, please ensure any necessary warning signs and guard railing is in place to prevent trips and falls
- Working at height is dangerous, so take all precautionary measures during the installation of the product.

## Storage

- IKO IFP250 should be stored at ground level in a secure location until they are ready for use.
- Do not store on scaffolds or the roof
- Dispose of packaging immediately to prevent being blown off the roof.

## Load guidance



IFP-250 Loading diagram.

| | |
|---|---|
| Max compressive load - A | 5kN |
| Max shear load - B | 2.5kN |
| Max tensile load - C | 5kN |

| IFP 250 | Substrate material | Fixing method | Fixing requirements | Compressive load rating A | Shear loading B | Tensile load rating C |
|---|---|---|---|---|---|---|
| Cold or fully supported membrane | 18mm ply/OSB3 | 8 x direct | SF-RS-5.8 min length 40mm | 5kN | 2.5kN | 4.2kN |
| Cold or fully supported membrane | Softwood or CLT | 8 x direct | SF-RS-6.1 min length 35mm | 5kN | 2.5kN | 5kN |
| Warm flat roof | Max 200mm PIR on 18mm ply/OSB3 | 8 x thermally broken | ST-T-50 to suit insulation depth SF-5.8 min 12mm to underside of substrate | Assume min 30kPa insulation 1.8kN | Assume insulation 2.5kN | 4.1kN |
| Warm flat roof | Max 200mm PIR on C25/30 concrete min 100mm depth | 8 x thermally broken | ST-T-50 to suit insulation depth RS-6.1 min 35mm embedment | Assume min 30kPa insulation 1.8kN | Assume insulation 2.5kN | 4.1kN |
| Warm flat roof | Max 200mm PIR on min 0.7mm steel deck | 8 x thermally broken | ST-T-50 to suit insulation depth RS-5.8 min 15mm to underside of steel deck | Assume min 30kPa insulation 1.8kN | Assume insulation 2.5kN | 4.1kN |
| Warm flat roof | Max 200mm PIR on min 0.7mm steel deck | 8 x thermally broken | ST-T-50 to suit insulation depth RS-5.8 min 15mm to underside of steel deck | Assume min 30kPa insulation 1.8kN | Assume insulation 2.5kN | 4.1kN |

1. Load values calculated on specified fixing and allow a safety factor of on combined characteristic pullout.
2. Axial loads only – not suitable for non-axial loads
3. It is the specifiers' responsibility to ensure the insulation will bear any compressive loads
4. Shear values for warm flat roof construction assume 200mm insulation and using 8No thermally broken tubes and fixings.
5. On-site testing may be required for existing flat roof constructions.

## OTHER RELEVENT DOCUMENTATION

Where applicable, Material Safety Data Sheets (MSDS), Declaration of Performances (DoPs), and Third-Party Accreditations are available to view and download from the IKO website Resource Centre:
https://ikogroup.co.uk/resource-centre/

## PRODUCT SUPPORT

Should you have any queries in relation to this product please contact one of the relevant teams below:

**Technical** technical.ab@iko.com
- For Reinforced Bitumen Membranes, IKOpro and Flexia Liquid Applied Waterproofing, Pitched Roofing, IKO Hyload Structural Waterproofing

technical.ma@iko.com
- For Mastic Asphalt

technical.cc@iko.com
- For Single Ply and Permatec Hot Melt

**Sales** sales.uk@iko.com

**Marketing** getintouch.uk@iko.com

## COMPANY ACCREDITATIONS

IKO PLC, a roofing, waterproofing, and insulation company, holds various accreditations that demonstrate its commitment to quality, safety, and environmental responsibility. These include ISO certifications for quality management and occupational health and safety, British Board of Agrément (BBA) accreditations for specific products and systems, and Factory Mutual (FM) approval for certain roofing systems.

All our manufacturing plants have BS EN ISO 9001, BS EN ISO 14001, BS EN ISO 45001, and BES 6001 accreditation, meaning we match the quality and sustainability requirements and use responsibly sourced raw materials in our production. We also re-use by-products from manufacture, wrap products in minimal packaging, and we employ a streamlined transportation network.

IKO is also a leading member of all relevant trade associations such as NFRC, BFRA, SPRA, LRWA, MAC, RSTA, BJA and LCRIG having technical experts within the technical and standards committees to help us get informed first-hand about recent updates on technical requirements for the design and installation of roofing, waterproofing, road and bridge maintenance industry products.

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