

Technical Data Sheet

UNIVERSAL FIXING POINT WITH EXTENDED POST

For Hytherm MW Warm Roof

Axter Universal Fixing Point with Extended Post for Hytherm MW Warm Roof (UFP-EP-MW)

The UFP-EP-MW is a thermally broken, pre-insulated fixing point designed specifically for use with mineral wool or compressible insulation roof constructions. Loads imposed on the fixing point are directly transferred back to the structure instead of through the insulation layer.

The UFP-EP-MW comprises a steel fixing plate with an internally insulated upstand post, incorporating a pre-sealed membrane flange and connection point to the top of the post. An M10 threaded receptor is then available to mount and secure services as necessary.

Uses

The UFP-EP-MW is designed as a fixing point for use with warm roof scenarios which have compressible or mineral wool insulation on the roof deck and can be used where a connection to the building structure is required.

This would include uses such as:

- Solar PV.
- Solar thermal.
- Roof plant supports.
- Roof mounted signage.

Not for use with

Balustrade or any use which applies a non-axial load.

Compatibility

The UFP-EP-MW is designed for use on concrete, timber and trapezoidal roof deck constructions that are weathered with single ply or bituminous membranes and insulated with mineral wool or compressive insulation.

MATERIALS	
304 stainless steel anchor point	Machined finish
Mild steel fixing plate and post upstand	Galvanised finish
Internal insulation	PIR
Thermal break	HDPE
DIMENSIONS	
Fixing plate	250mm x 250mm x 6mm
Fixing holes	8no for direct fixing to timber substrate
Upstand Post	76mm \varnothing x variable height to suit insulation thickness
Anchor point	1No. M10 x 20mm female blind thread
Weathering flange dimension	400mm x 400mm for all membranes

UFP-EP-MW loading values

The UFP-EP-MW is designed for use on flat or pitched structures. It is assumed that the UFP-EP-MW is fixed directly to the roofing substrate using appropriate fixings and that the supporting structure has the capacity to support the design loadings likely to be encountered.

Compressive Load as 'A'

The maximum compressive load as 'A' 5kN

Shear loading as 'B'

The maximum shear load at 'B' will be determined by structural calculations, but will not exceed a maximum value of 1.5kN

Tensile Load as 'C'

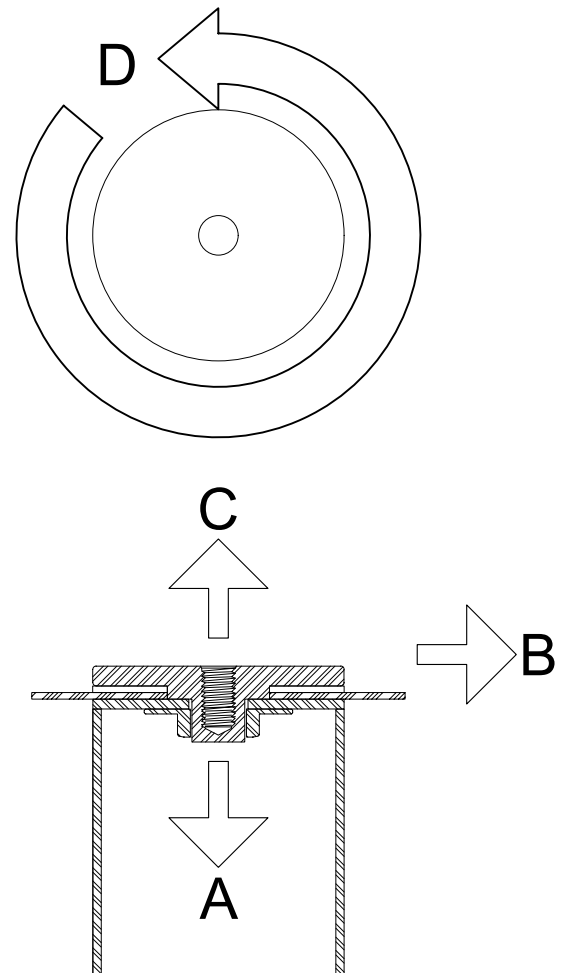
The available tensile load as 'C' will depend on the fixings used and the substrate they are fixed into, but should not exceed the maximum value of 5kN we recommend on-site pull out tests to determine pull out values where the substrate is existing.

Rotational as 'D'

Configuration of the UFP-EP-MWs should be such that turning motion is not exerted on individual fixing points.

IMPORTANT NOTE:

It is the responsibility of the designer/specifier/purchaser to ensure that the intended use of the UFP-EP-MW in any given application is approved by a competent structural engineer.



Loading diagram

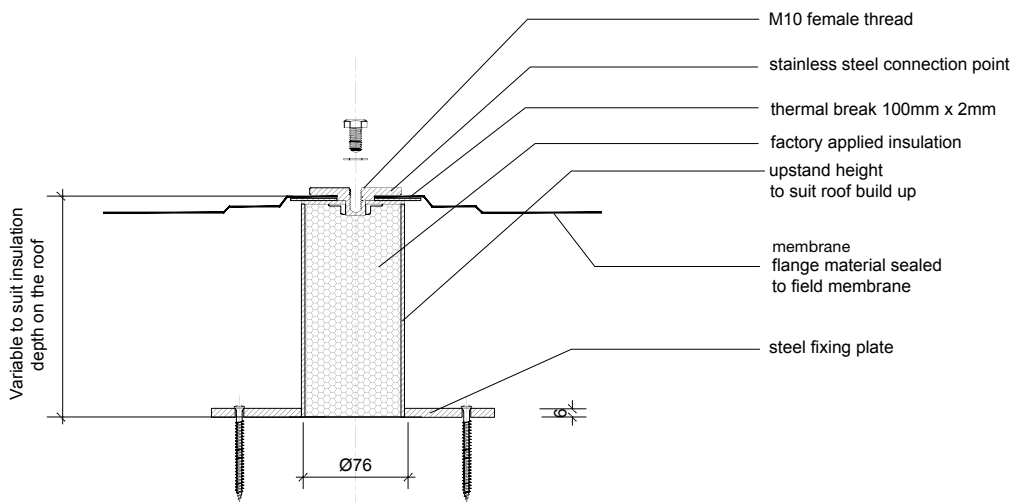
Installations

The Axter UFP-EP-MW is ideally installed to a flat, structural surface, prior to the installation of the insulation and the main waterproofing system. It is the designers / installers responsibility to ensure that the substrate has the structural capacity to sustain the loads imposed by the finished system.

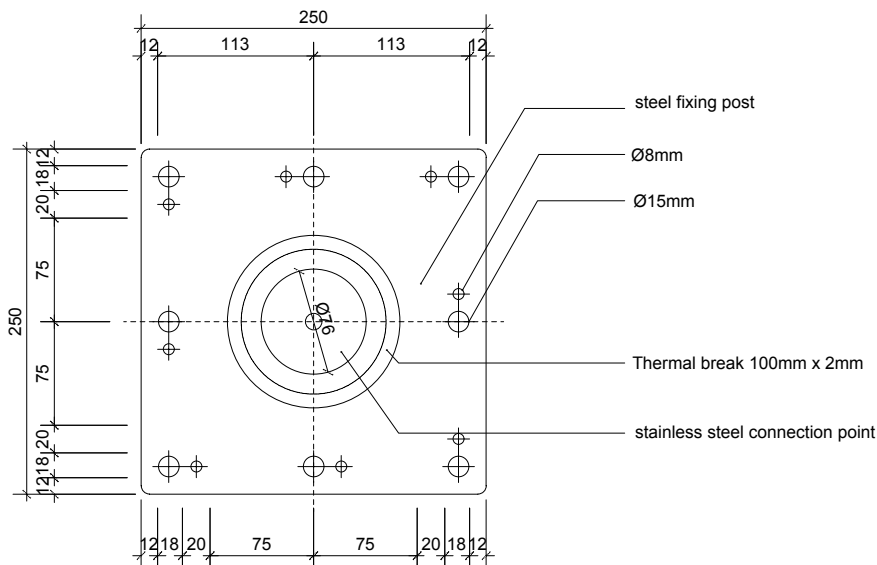
The UFP-EP-MW units should be fixed to the substrate with suitable fixings, which may need to be agreed by a structural engineer. Fixings to the substrate should be completed using 8no. fixing opportunities using fixings suitable to the roof construction.

Once installed, the waterproofing system should be fitted around the Axter UFP-EP-MW units taking care to seal the air and vapour control layer (AVCL) around the post. Insulation should be tightly fitted to the upstand post and should be 10mm below the thermal break part - please see detail below. The waterproofing system should be dressed around the post. The factory fitted membrane flange should be dressed and sealed to the field roof membrane in accordance with the manufacturer’s guidance. It is the installer’s responsibility to ensure that a waterproof seal is achieved at the lap joint.

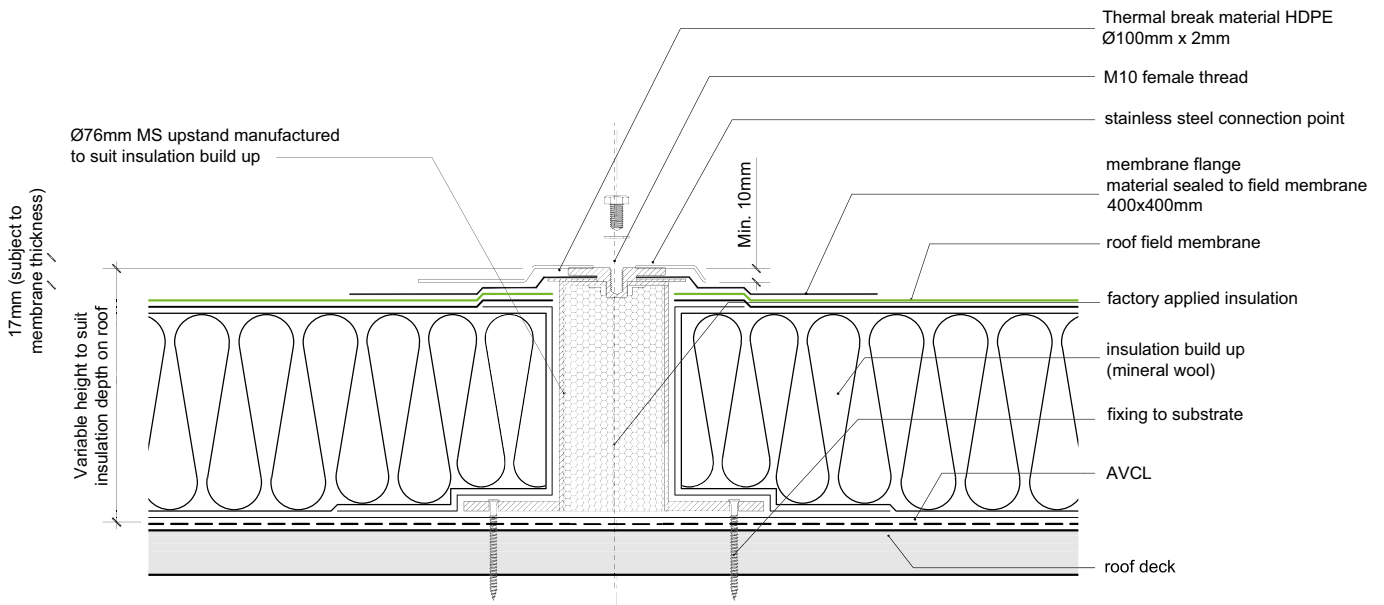
An M10 bolt of a suitable length can be used to secure framework to the UFP-EP-MW in line with the intended uses of the UFP-EP-MW unit. The bolts should be installed with a suitable thread locking adhesive or locking washer to stop potential loosening over time. M10 bolts t the top of the UFP-EP-MW should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



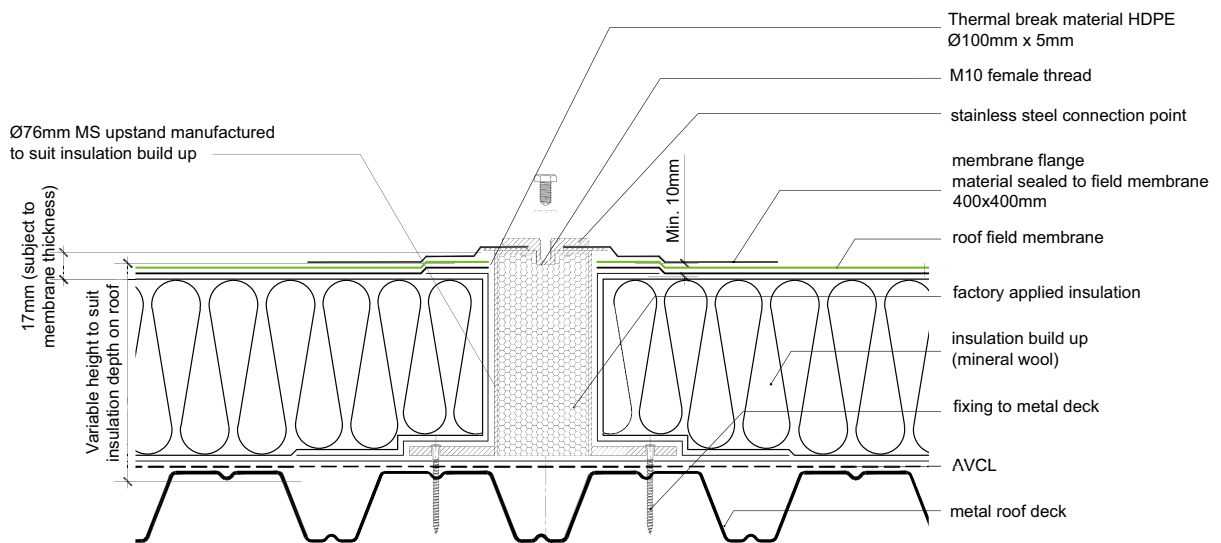
DIMENSIONS - SECTION VIEW



**DIMENSIONS - PLAN VIEW
(MEMBRANE FLANGE REMOVED FOR CLARITY)**



UNIVERSAL FIXING POINT WITH EXTENDED POST FOR HYTHERM MW ON PLYWOOD DECK



UNIVERSAL FIXING POINT WITH EXTENDED POST FOR HYTHERM MW ON METAL DECK

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