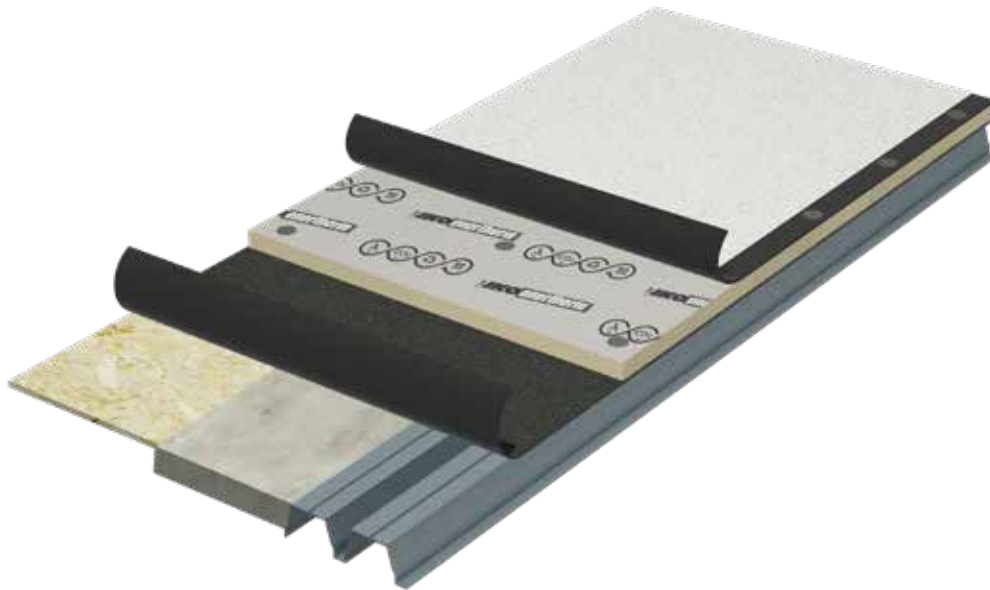


## INSTALLATION GUIDELINES

### SINGLE PLY ROOFING SYSTEM, MECHANICALLY FASTENED



#### Description of the processing of an IKO Circular roofing system, in a single ply roofing system, mechanically fastened in the overlap.

The IKO circular roofing systems must be made up of the products described in this guideline, including the associated fasteners and fastening method. The systems must always be fastened in accordance with the applicable regulations (for the Netherlands, for example, these are NEN-EN 1991-1-4+C2:2011/NB:2011, NEN 6707, SBR 465.00 and NPR 6708:2013. For general processing guidelines please refer to the Professional guideline for closed roofing systems, version 2018).

The IKO circular roofing systems are required to be removable to the greatest extent practicable at the end of their lifetime, so that they can be taken back by IKO in compliance with the applicable conditions set out in the return certificate. To this end, the systems must be designed for maximum removability. Only where strictly necessary for its water and air proofing function can and may the roof covering be connected to elements (such as skylights, details, etc. ), which, based on current knowledge, will not be removable within the system.

The cutting waste of all IKO circular roofing membranes in these systems must be collected separately for subsequent recycling by IKO.

This guideline has been prepared based on currently available technical knowledge and experience, without any warranties regarding concealed elements and without taking into any technologies that have not yet been adequately tested.

## SINGLE PLY ROOFING SYSTEM, MECHANICALLY FASTENED

The single ply IKO circular roofing system can be applied to suitable substrates of wood, steel and concrete.

### VAPOUR BARRIER LAYER:

The substrate should be clean and dry.

As vapour barrier layer, an IKO base P3 T/F ATELIA 10.0 roofing membrane, loose-laid, is used.

Remove the tapes and install the roofing membrane loose laid in stretcher bond with a minimum distance between the transverse overlaps of  $\geq 2$  m with a longitudinal overlap of at least 80 mm, transverse overlap of 100 mm. The roofing membrane is installed loose laid. Make the overlaps and joints air-proof by torch-on or hot air method. To ensure a good seam joint, a  $\geq 5$  mm bead of bitumen must extrude from the overlap. Temporary ballasting is required prior to installation of the final waterproofing.

### INSULATION:

As insulation, IKO Enertherm ATELIA, mechanically fastened, is used.

For optimal performance, the boards must be protected from weather conditions and damage.

The IKO enertherm ATELIA insulation boards are carefully packed in plastic foil, but in case of prolonged storage it is recommended to additionally protect the insulation from sunlight and rain.

IKO Enertherm ATELIA is available in dimensions 1200 x 1000 mm

When installing IKO enertherm ATELIA insulation on a non-continuous support, allowance must be made for the maximum span and cantilever.

IKO enertherm ATELIA insulation boards can be installed in stretcher bond or wild bond. The end joints between adjoining insulation boards must always be staggered by at least 20 cm. When using multiple insulation layers, their joints must be staggered.

Always fit the insulation boards so that they abut against each other, any openings left at the connection details must be sealed with PU foam. Cut off excessive foam after curing. Adapters smaller than 300 mm should be processed only in the centre area of the roof.

On a profiled steel roof, longitudinal seams must be at right angles to the corrugations.

Mechanically fasten IKO Enertherm ATELIA into the structural substrate by means of EUROFAST PP screw-tube combination, using 4 fasteners per board.

### ROOF COVERING, FLAT:

As roof covering, an IKO Carrara TECNO SN roofing membrane is installed in stretcher bond with a minimum distance between the transverse overlaps of  $\geq 2$  m, mechanically fastened inline into the substrate. IKO Carrara Tecno SN can be applied as a cap sheet in a single ply roofing system mechanically fastened in the overlap.

Unroll IKO Carrara Tecno SN, remove tapes and place with minimum longitudinal overlap of 120 mm on the substrate; at upstands and raised edges, turn up the membrane at least 100 mm.

Mechanically fasten IKO Carrara Tecno SN in the overlap with a EUROFAST PP screw-tube combination in accordance with the applicable regulations (for the Netherlands, for example, these are NEN-EN 1991-1-4+C2:2011/NB:2011, NEN 6707, SBR 465.00 and NPR 6708:2013).

Place the EUROFAST PP screw-tube combination fastener in the overlap at approx. 10 mm from the longitudinal seam.\*

Fixation to be applied by mechanical fastening, C.T.C. 250 mm. Overlaps and joints of IKO Carrara Tecno SN can be made by hot air or torch-on method. Thermally weld or torch the longitudinal overlap over a minimum width of 80 mm, transverse overlaps over minimum 150 mm, also thermally welded or torched. Overlaps must be rolled down using a silicone roller, with a 5 mm bead of bitumen extruding from each overlap. The underlying membrane must be sufficiently heated to ensure optimum adhesion between both layers.

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\* It is recommended to first thermally weld or torch the overlap and then mechanically fasten the roofing membrane on the other side

### ROOF COVERING, UPSTANDS AND DETAILS:

Roof edges, upstands and details should preferably be completely insulated with IKO Enertherm ATELIA insulation boards of minimum thickness, fastening by means of EUROFAST PP screw-tube combination.

Mechanically fasten IKO Carrara TECNO SN in the overlap by means of tubes, type EUROFAST PP screw-tube combina-

tion. To this end, cut out strips of sufficient width. If applicable, connect the roofing membrane airtight to the outside of the roof edge. Joints and overlaps by torch-on or hot air method.

Where insulation of roof edges, upstands and details is not possible for technical reasons, please contact your IKO contact for technical advice.

## INCORPORATING FIXING PLATES, VENTS, DRAINS, PENETRATIONS, AND THE LIKE:

For drains, vents and other penetrations, IKO powergum drain prefab fixing plates, processed according to the guidelines, must be used.

