

The illustrations show installation on roofs with min. 15° slope only.

Turf Roofs

Before installation

The roof construction should be designed to carry the weight of the turf layer. Self load of a wooden roof covered with turf may be defined as:

- 2.5 kN/m² or 250 kg/m² with 15 cm ordinary turf, or an earth layer.

- 1.5 kN/m² or 150 kg/m² with 15 cm of growing turf material.

In addition to self load, snow loading should be allowed for. Refer to local design requirements.

Make sure that the roof boarding is free from loose material and that all nails or similar are properly hammered home.

As underlay (first of two water repellent layers, Platon Xtra being the second) lay a suitable reinforced bitumen roll sheet. The product should have a bond preventive backing to

prevent adhesion to the roof boarding, and an inorganic carrier or reinforcement with adequate tear strength. The manufacturer's instructions should be followed, particularly with respect to low temperature installation.

For special requirements with respect to roof form, location or delay in laying Platon Xtra and turf, the specification of the bitumen sheet should be enhanced accordingly.

The bitumen sheet product and Platon Xtra shall each have suitable flashings. The flashing that acts as an integral part of System Platon, shall be resistant to soil acids (e.g. lead or copper).

Platon Components

1. Platon Xtra
2. Platon Turf Beam Bracket

3. Platon Fixing
4. Platon Sealer

Other material

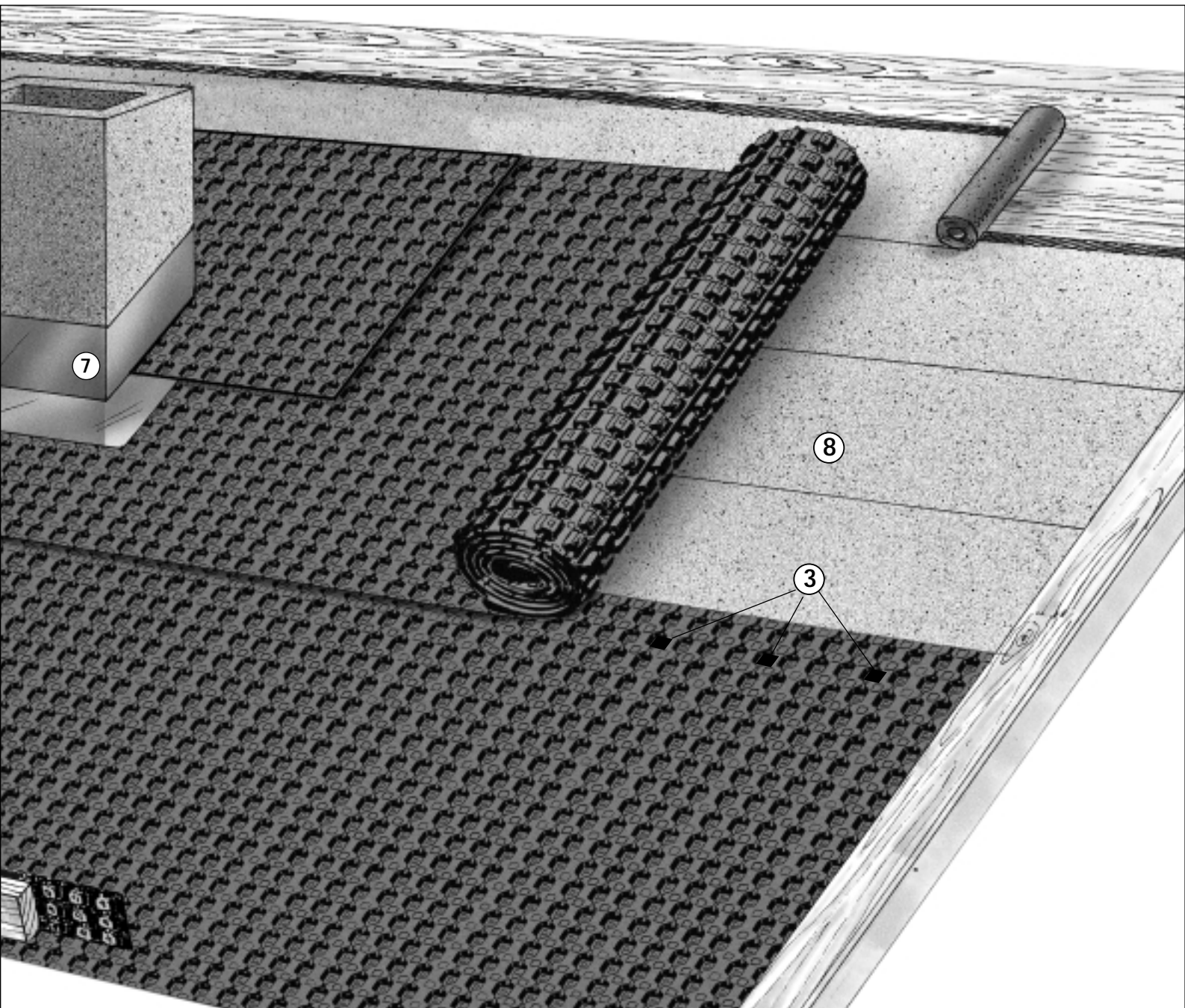
5. Wood screws, galv. 6 x 60 mm
6. Screws, alt. nails, galv.
7. Chimney flashing
8. Bitumen sheet with bond preventive backing.

Platon Xtra holds Technical Approval No. 2258 from Norwegian Building Research Institute.

Turf Beam Bracket

A. Install the Turf Beam Brackets on the bitumen sheet at max. 60 cm centres (into the roof trusses) in line with the drip edge at the roof eaves.

B. Use 2 no. galvanized wood screws for each bracket. See other material item 5. Screw Turf Beam Bracket in the roof truss with a run of Platon



Sealer under.

Lay the turf beam on the support of the Turf Beam Bracket and fix it from the front face with galvanized nails or screws.

C. Fix a strip of Platon Xtra on the back face of the turf beam. The sheet strip should not protrude below the edge of the turf beam inhibiting water run off.

Installation

Clear the roof surface and gap under the turf beam for any loose material. Install Platon Xtra with studs down against the bitumen sheet, in a horizontal direction with the lower edge along the eaves.

Fold the sheet up at the barge board at the gable end, and push it under the turf beam.

Fixing

D. Fix Platon Xtra to the roof boarding with Platon Nail with Plug for turf

roofs in every 5th stud in the second row from the upper edge only. If sheet width 1 m is used, fix in every 7th stud (6 no. per l.m.).

Overlaps

Roof slope over 15°

E. Install the next sheet width with minimum 25 cm overlap.

F. Sheet overlaps in the direction of the roof's slope (end overlaps) should be minimum 50 cm. End overlaps should not be fixed.

Roof slopes between 15° and 6°

For roof slopes below 15° and down to 6°, both horizontal and vertical overlaps should be 50 cm. In addition overlaps should be sealed with Platon Sealing Rope which is laid between the sheet widths, along the middle of the overlap. Press the overlap well down over Sealing Rope.

For roof slopes below 6°, contact your distributor for more information.

Ridge

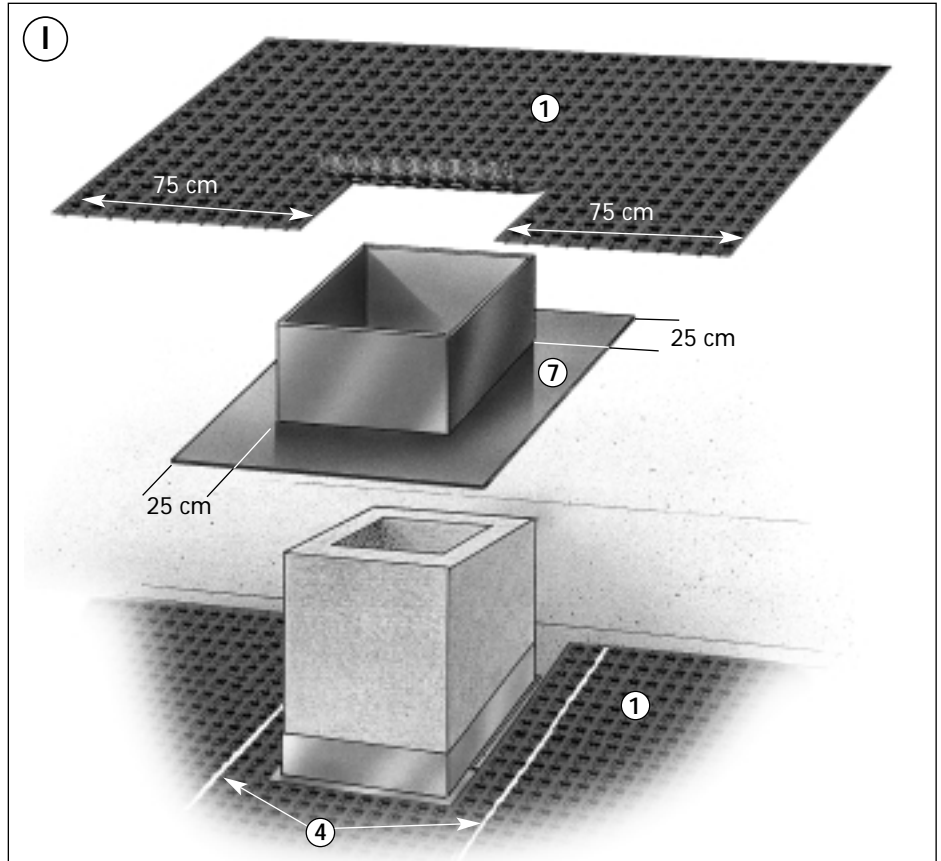
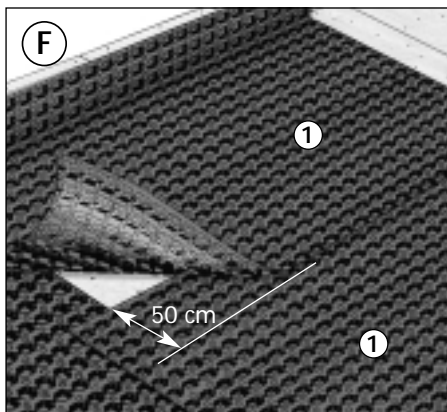
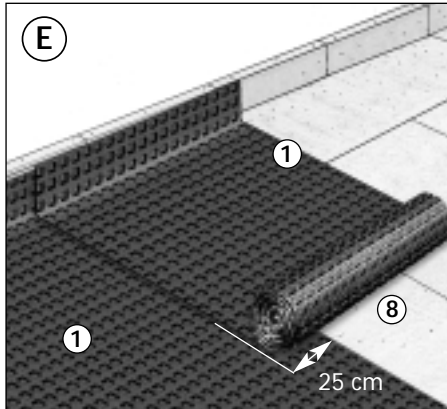
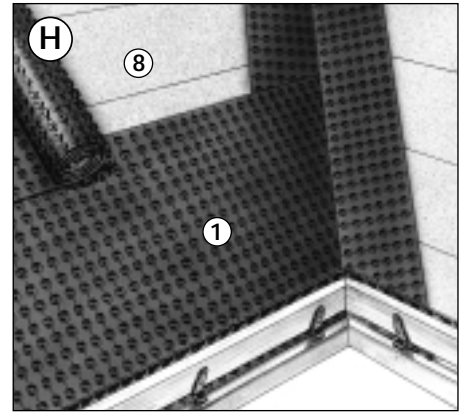
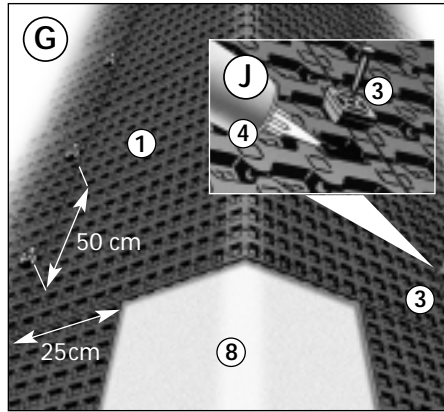
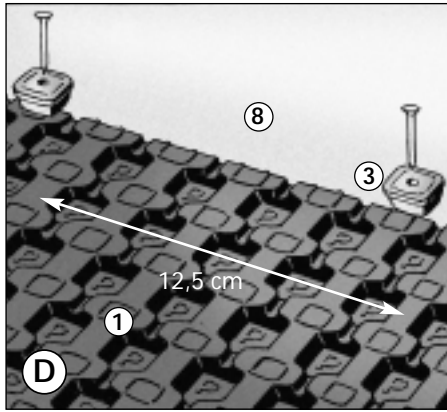
G. Trim the sheet widths on each side of the ridge and fix to the roof boarding with Platon Nail with Plug in every 5th stud. Lay a strip of Platon Xtra over the ridge, to achieve an overlap of 25 cm over the sheets on each side of the ridge.

Fix the overlaps with visible fixings at approx. 50 cm centres. See paragraph about visible fixing.

Valleys and hips

H. Lay Platon Xtra in sheet width 1 m in valleys with its centre line along the bottom of the valley.

Fix the sheet to both roof areas along the sheet's edge at 50 cm centres. Then lay sheets along both roof areas into the valley and cut edge to edge, along the bottom of the valley. Finish fixing 25 cm (measured at right angles) from the bottom of the valley. At hips, cut the sheet on each roof area along the edge of the hip. Lay a



sheet of width 1 m over the hip and fix along both edges with Platon Nail with Plug. Fix at 50 cm centres.

Installation around a chimney

I. Lay the sheet width that the chimney will go through in place below the chimney. Make two cuts from the upper sheet edge along lines that correspond to the sides of the chimney. Fix the sheet width along the upper edge in the usual way and cut the sheet along the lower edge of the chimney. Lay a run of Platon Sealer down along both sides of the chimney before placing the chimney flashing in position. The chimney flashing shall have a height greater than the planned thickness of the turf and be sealed into the chimney wall. In new log constructions the woodwork will settle.

The chimney flashing should be constructed so that movement in the construction is allowed for. The flanges

on the chimney flashing shall extend 25 cm out from all sides of the chimney along the roof surface. Cut a piece of Platon Xtra in the full width and with length 150 cm plus the chimney's width. Lay the piece down against the chimney from the upper side so that the channels are in the direction of the roof fall, with the chimney in the middle of the piece. Make two cuts from the lower sheet edge along lines that correspond to the sides of the chimney. The cuts shall be so long that the piece's lower edge reaches the lower edge of the chimney. The piece's upper edge shall at least reach up to a height so that the next sheet width has an overlap of 25 cm over the piece. Lay the piece in place and fix along the upper edge. Fold the loose tongue up behind the chimney in front of the chimney flashing and cut at the height of the flashing. Lay the next sheet width in the usual way.

Visible fixings

J. Visible points of fixings of Platon Xtra, such as along the ridge or hips, must be sealed. Apply Platon Sealer into the stud before fixing Platon Nail with Plug into the stud.

Turf layer

The finished turf layer should be at least 15 cm thick whichever type is chosen. On large roof areas and/or large roof angles, it may be favourable to lay Platon Xtra and the turf layers progressively or use a roof ladder. If top soil is chosen as growth layer, the earth should be compressed and reinforced to avoid slips and erosion. Use chicken netting or similar, and lay over the ridge from eaves to eaves. For large roof slopes it may also be necessary to lay turf beams in the turf layer. These are fixed to battens supported by the turf beam at the eaves, so that fixing through the roof is avoided.