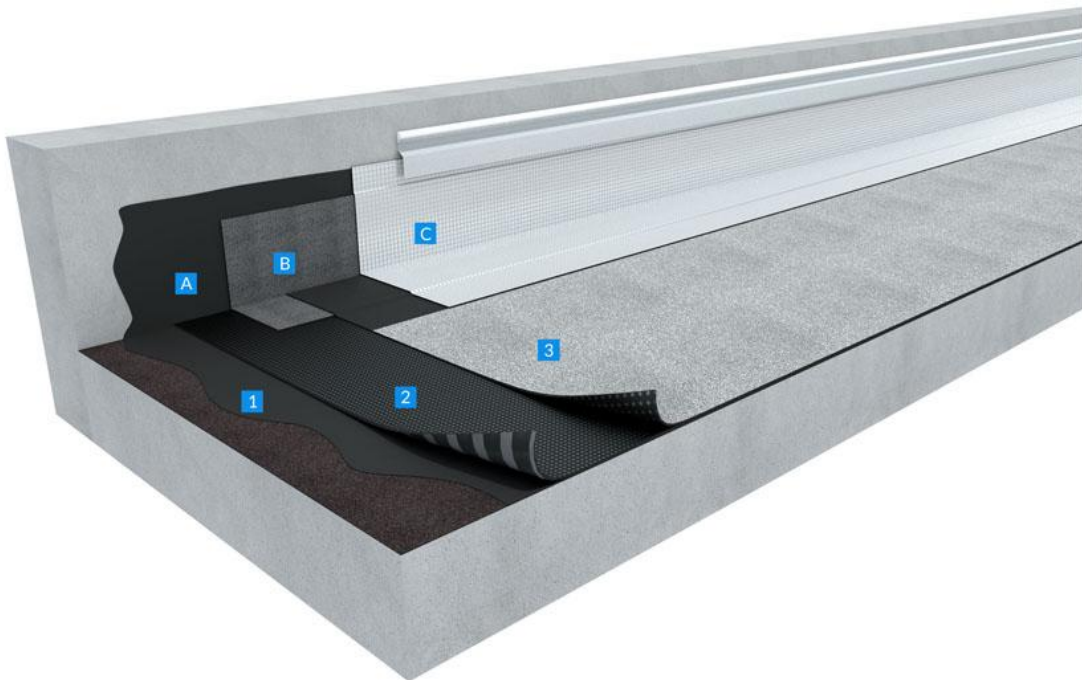


Refurbishment of non-accessible roof with new bitumen membrane
Self-adhesive double layer waterproofing system:
ADEPAR JS + PARADIENE 40.1 GS - NOx-Activ® air depolluting solution

Substrate & Use of roof	Finishing	Thermal Insulation
Existing membrane on wooden or concrete deck Renovation of non-accessible exposed roofs	Mineral granule surface	Without new insulation



- **Substrate:** Existing waterproofing

Roof inspection shall be carried out by the Contractor to detect any damaged parts to be repaired before this re-roofing application.

The load bearing structure (trapezoidal metal sheet, concrete or wooden) must comply with all associated national standards and regulations, ensuring that the load bearing capacity is sufficient for any additional loads imposed upon the construction. It is important to consider the possibility of future deflection of the construction when designing roof drainage.

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Preparation: The bearing elements and substrates must comply with local technical standards. After proper cleaning of the roof area, a complete control shall be carried out by the Contractor. Slope and planarity shall be carried out with the following tolerances:

- **Slope:**

Exposed roofs: Minimum slope requirement, 2 % on concrete deck and 3 % on wooden deck (depending on type of terrace, please contact BMI Technical Department).

- Water ponding areas shall be identified clearly.

- **Levels:**

Tolerances for planarity shall be:

- 10 mm with a 2 meters straight edge.

- 3 mm with a 200 mm straight edge.

- **Surface:**

Prepare substrate surfaces thoroughly prior to application of new roofing materials. This is particularly important for refurbishment applications. Providing a smooth, even, sound, free of dust, grease and oil, foreign chemicals, curing compound, clean and dry substrate minimises the likelihood that underlying deficiencies will cause premature deterioration or even failure of the new roofing system.

Concrete or wooden:

Masonry bearing elements and substrates in compliance with local technical standards.

- **Upstands/Parapets**

Siplast Primer or delamination/removal metallic surface of old parapet membrane.

Siplast Primer: cold-applied, quick drying, universal elastomeric bitumen primer. Approx. coverage 300-350 g/m² on existing old bitumen membrane (depending on existing old membrane, please consult the supplier's technical documentation or contact Technical Department).

Parequerre: Nonwoven polyester-reinforced modified SBS elastomeric bitumen angle strip. Cut in 0.25m or 0.33 m wide strips for use as reinforcement angle on upstands. Torched at the junction of the parapet with the main area.

Paradial S: 3.7 mm thick, glass-reinforced modified SBS elastomeric bitumen cap sheet protected by embossed thermo-stable aluminium foil. It is used as a cap-sheet layer for vertical upstands waterproofing works and in a two-layer system for non-accessible roofs. Thermo-fusible film on the underside surface, nominal width 70 mm on the longitudinal selvedge. Fully torched.

OR alternatively, **Supradial GS:** 3.5 mm thick on the longitudinal selvedge (without mineral finish), modified SBS elastomeric bitumen cap sheet with composite reinforcement, protected by embossed aluminium foil with coloured mineral finished upper surface, thermo-fusible film on the underside. Fully torched.

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- **Waterproofing**

Siplast Primer: cold-applied, quick drying, universal elastomeric bitumen primer. Approx. coverage 300-350 g/m² on existing old bitumen membrane (depending on existing old membrane, please consult the supplier's technical documentation or contact Technical Department).

Adepar JS: self-adhesive, partially-bonded, polyester composite-reinforced, 2.65 mm thick modified SBS elastomeric bitumen underlayer membrane. Torchable upper surface with macro-perforated fusible film and self-adhesive side overlapping (protected by silicon kraft paper). Underside with self-adhesive edges and strips for partial bonding (protected by siliconised peel-off film). Cold applied.

Paradiene 40.1 GS: glass fibre-reinforced, modified SBS elastomeric bitumen cap sheet with self-protected coloured mineral granules or slate flakes, thermofusible film on the underside. Bitumen of the underside surface is grooved (patented Profil System). Thickness on the longitudinal selvedge: 3.0 mm. Fully torched on top of the first underlayer membrane.

Air depolluting the **NOx-Activ®** version with White Noxite is also available.

- **Edges:**

In the absence of upstands/parapets around the roof, it is advised to install a zinc or galvanized steel strip below the bitumen membrane.

- **Walkways / technical circulation areas*:**

For walkways and technical circulation areas;

PARATECH: surfaced with coloured ceramic granules or slate flakes (Anthracite or Brown colors), polyester reinforced, modified SBS bitumen walkway membrane is fully torched on top of the cap sheet or glued with **COLLE PAR**,

OR alternative walkway membrane to be applied;

Parafor 30 GS: polyester reinforced, modified SBS elastomeric membrane with mineral granule or slate-finished upper surface and a thermofusible film underside. Fully torched on top of the cap sheet.

**Useful tip: For visible walkways, choose a different and contrast color membrane than the roofing cap sheet.*

- **Expansion joints:** Expansion joints have especially to be planned by the architects and are project specific.

- **Details**

All details shall be finalized before roofing works start:

Rainwater drains shall be well located, in sufficient number and ready to receive waterproofing membranes.

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All pipes, cables and other penetrations shall be in place. Provision for proper waterproofing of roof equipment and machinery shall be made.

All parapets shall be in place, with provision for groove or counter flashing at an acceptable height (150 mm above finished roof level).

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