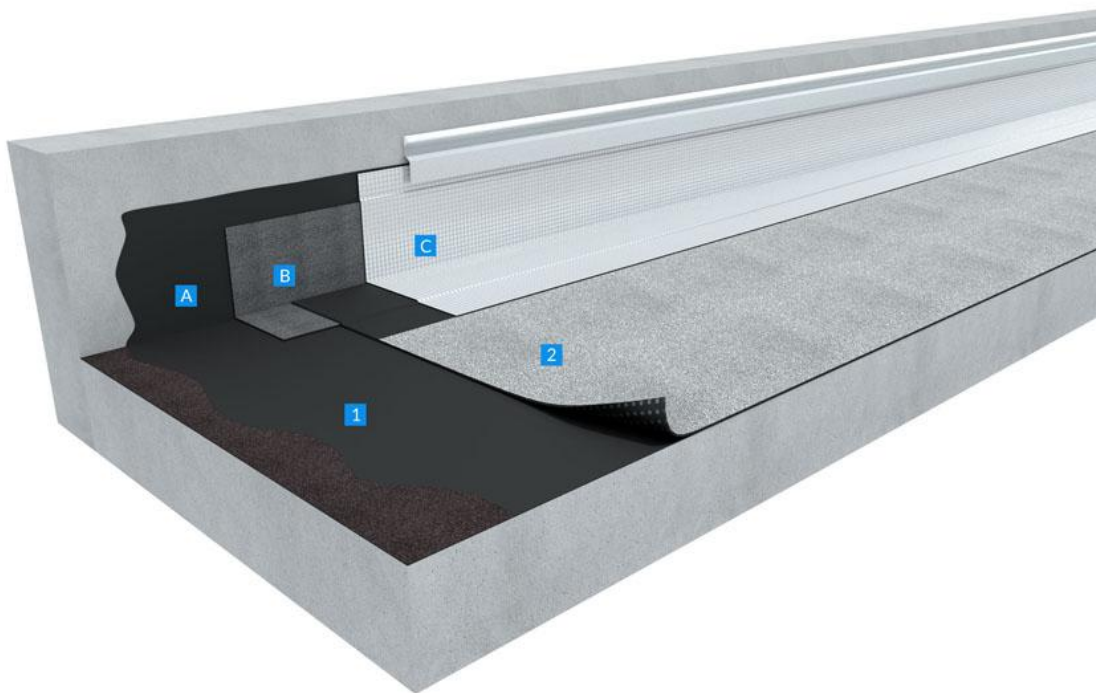


**Refurbishment of non-accessible roof with new bitumen membrane**  
**Self-adhesive single layer bitumen waterproofing system:**  
**ADESOLO G - NOx-Activ® air depolluting solution**

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 old bitumen membrane  
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.

- **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:

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- **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 of the metallic surface of the old parapet membrane.  
**Siplast Primer:** cold-applied, quick drying, universal elastomeric bitumen primer. Approx. coverage 300-350 g/m<sup>2</sup> 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 a reinforcement angle on upstands. Torched at the junction of the parapet with the main area.  
**Paradial S:** 3.7 mm thick, glass fibre-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.
  - **Waterproofing**  
**Siplast Primer:** cold-applied, quick drying, universal elastomeric bitumen primer. Approx. coverage 300-350 g/m<sup>2</sup> on existing old bitumen membrane (depending on existing old

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membrane, please consult the supplier's technical documentation or contact Technical Department).

**Adesolo G\***: self-adhesive, partially-bonded, polyester composite-reinforced modified SBS elastomeric bitumen single layer waterproofing membrane. Upper face is covered with colorful mineral granules or slates, the underside is with regular self-adhesive lines protected by silicone peel-off film for semi-independent bonding to the support.

Selvedge surfacing: Adhesive + PROFIL SYSTEM (BMI Siplast patented) which highly improves the installation efficiency. Selvedge Protection: Silicone Kraft paper. Nominal thickness on the longitudinal selvedge (mm): 4 mm.

Cold applied. Along the 12 cm wide side overlapping, a 4 cm wide strip is cold-bonded by self-adhesion and the extra 8 cm wide lap (Profil System) is torched.

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

*\*If the existing roof membrane is metallic self-protected old bitumen membrane, then only the metallic surface of existing membrane on the roof shall be delaminated/removed with a warming process so that metallic surface and bitumen part will be separated easily. This process must be done gently in order to avoid damaging the wooden substrate and the bitumen layer.*

*After removing metallic foil, ADESOLO G can be cold applied on the old bitumen part; overlaps are torched.*

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

- **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;

**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.*

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- **Expansion joints:** Expansion joints have 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 numbers and ready to receive waterproofing membranes.

Expansion joints shall be located at the highest roof points, on reinforced concrete curbs chamfered as shown on drawings.

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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