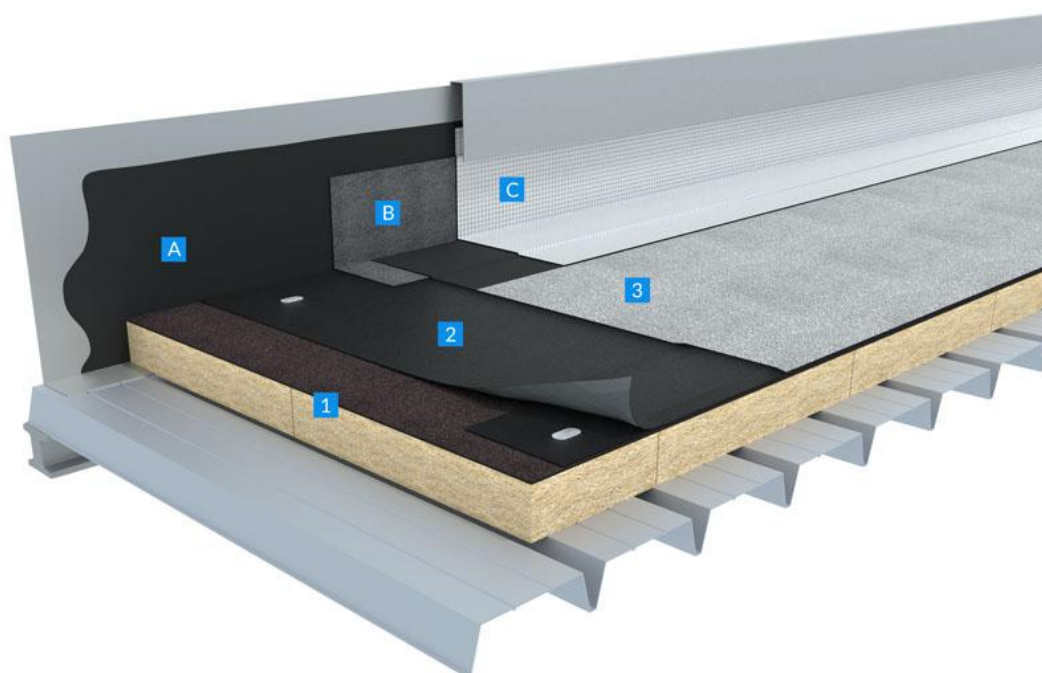


**Refurbishment of non-accessible roof with new bitumen membrane
Mechanical fixing + torched double layer bitumen waterproofing system:
SCR ALLIANCE + PARADIENE 40.1 GS - NOx-Activ® air depolluting solution**

Substrate & Use of roof	Finishing	Thermal Insulation
Existing old waterproofing on steel deck Renovation of non-accessible exposed roofs	Mineral granule	Without new insulation



- **Substrate** : Existing waterproofing with existing old insulation boards

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.

"The present document has been established on the base of the information provided and is purely indicative and non exhaustive. It cannot be substituted to recommendation and/or specifications made by professionals such as project manager, designing/engineering consultant, architect, and advisors. BMI cannot be liable in this regard. You must strictly ensure that the technical solution fits your project and has been validated by professionals and comply with any applicable regulations. You will find some technical documentation on our website: www.bmigroup.com/international"

- **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:**
Exposed roofs: Minimum slope 3 % on steel deck (depending on type of terrace, please contact BMI Technical Department).
- Water ponding areas shall be identified clearly.
 - **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.
- **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 the existing old bitumen membrane (depending on the existing old membrane, please consult the supplier's technical documentation or contact the 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 double-layer system for non-accessible roofs. Thermofusible 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, thermofusible film on the underside. Fully torched.
 - **Waterproofing**
SCR Alliance: polyester-reinforced, 2 mm thick, modified SBS elastomeric bitumen underlay membrane fixed mechanically for re-roofing work, upper surface is a torchable film and the underside is covered with non-woven polyester fleece.
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

"The present document has been established on the base of the information provided and is purely indicative and non exhaustive. It cannot be substituted to recommendation and/or specifications made by professionals such as project manager, designing/engineering consultant, architect, and advisors. BMI cannot be liable in this regard. You must strictly ensure that the technical solution fits your project and has been validated by professionals and comply with any applicable regulations. You will find some technical documentation on our website: www.bmigroup.com/international"

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.

OR alternative cap sheet membrane;

Parafor Solo GS: polyester-reinforced, 4 mm thick on the longitudinal selvedge, torch-applied modified SBS elastomeric bitumen cap sheet with self-protected coloured slates. Grooved underside (patented PROFIL SYSTEM) with thermofusible film. Air depolluting the **NOx-Activ®** version with White Noxite is also available.

- **Walkways / 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 under surface. 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.*

- **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 have especially to be planned by the architects and are project specific. Contact the BMI Technical Department for guidance and advice.

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).

The density of the fasteners depends on the wind load (please contact the BMI technical department for wind-uplift calculation and approved mechanical fixing fasteners).

"The present document has been established on the base of the information provided and is purely indicative and non exhaustive. It cannot be substituted to recommendation and/or specifications made by professionals such as project manager, designing/engineering consultant, architect, and advisors. BMI cannot be liable in this regard. You must strictly ensure that the technical solution fits your project and has been validated by professionals and comply with any applicable regulations. You will find some technical documentation on our website: www.bmigroup.com/international"