

Roofmate* Sarnafil Flat Roof Application Details

Schematics Only – Not to Scale

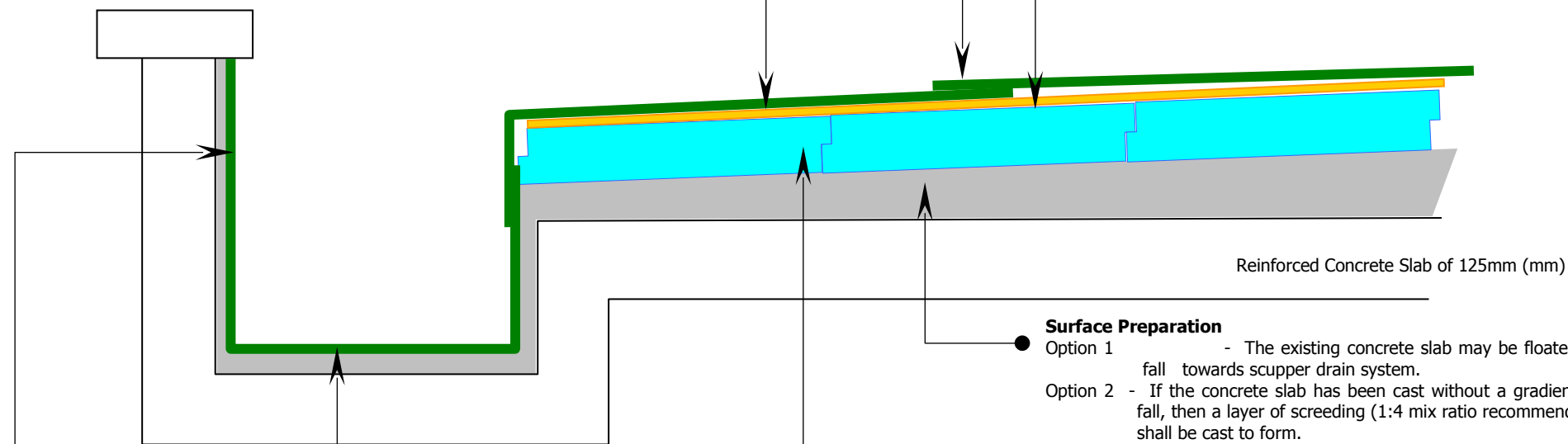
18th April 2009

Overlapping Joints for Sarnafil membrane to be fixed mechanically as advised by specialist – See Sanarfast Details

1.5mm thk Sika Sarnafil PVC Breathable Membrane with built in Felt Separation Layer, complete with 1-way vapour release mechanism to be laid to a minimum of 1.5% gradient and in accordance with manufacturer's guidelines. In built felt layer required as separation layer against the Styrofoam* Roofmate*

Optional Extra for Mechanical Impact Protection

Autoclaved Fibre Cement Boards are readily available different thickness depending upon the mechanical resistant required.
1220 x 2440 x 4.5mm (thk)
1220 x 2440 x 6.0mm (thk)
1220 x 2440 x 9.0mm (thk)
Autoclaved Boards are highly recommended for their stability against weather.



Reinforced Concrete Slab of 125mm (mm)

Surface Preparation

- Option 1 - The existing concrete slab may be floated to fall towards scupper drain system.
 - Option 2 - If the concrete slab has been cast without a gradient to fall, then a layer of screeding (1:4 mix ratio recommended) shall be cast to form.
- It is imperative to ensure that water ponding on surface is eliminated before receiving membrane works.

Wall and Edge Termination Flashings Details - Available upon request by Sika Sarnafil membrane specialists on project basis.

Scupper Drain Treatment

Scupper Drain to be cement rendered to fall before receiving Sika Sarnafil. Projects where Thermal Bridges are sensitive, the Styrofoam Roofmate* will be expected to be extended around the scupper drain perimeter, laid above screed to fall and finished with Sika Sarnafil membrane.

Styrofoam* Roofmate* Insulation and Sika Sarnafil System U Values including an assumption of 125mm (min) thk concrete slab.
1250 x 600 x 50mm (thk) System U value = 0.44 W/m²K
1250 x 600 x 75mm (thk) System U value = 0.32 W/m²K
1250 x 600 x 100mm(thk) System U Value = 0.24 W/m²K .

NB The above is an indicative schematic issued as a preliminary guide only for designers and installers. Proposed changes were adopted based on data received from specialist contractors over a period of time. The actual construction details are to be approved by the project consultants before implementation. Each project has differing construction details and no two site situations are the same where Styrofoam* products may be applied in more ways than one and therefore The Dow Chemical Group and it's distributors are not liable for the final design nor execution on site.