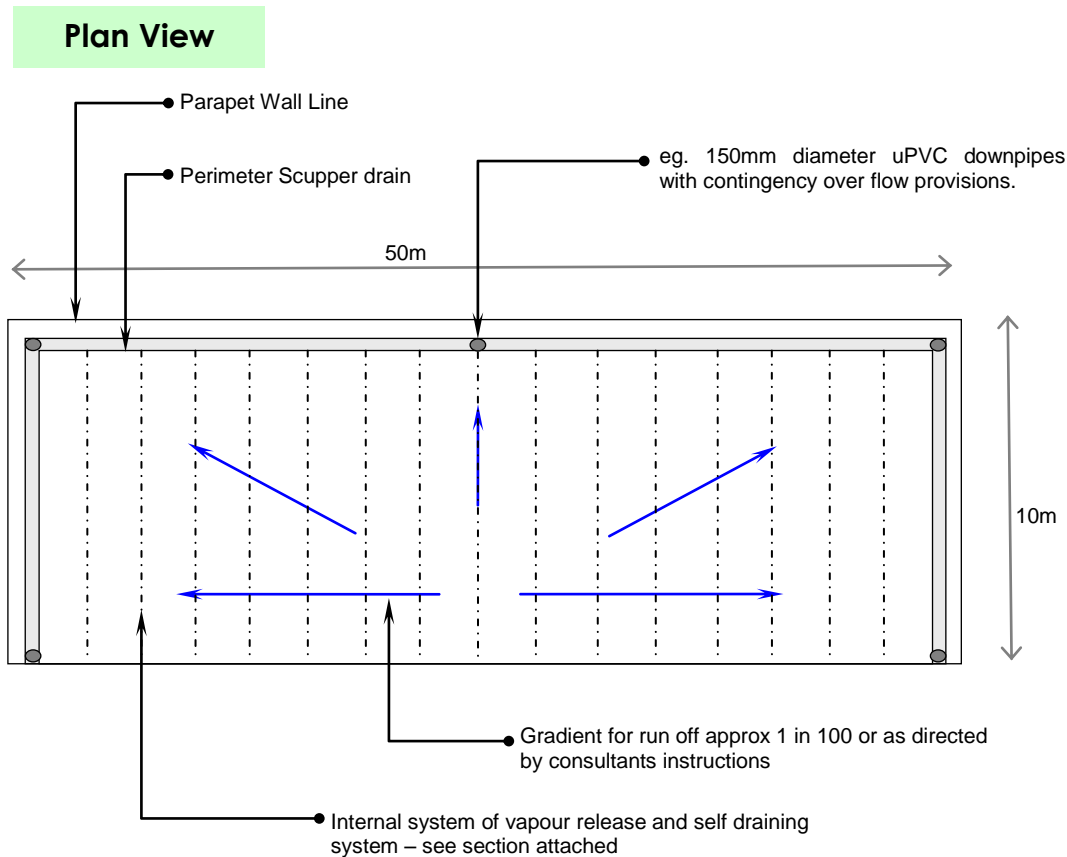


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NB: Specialists may choose to adopt their own installation procedures to comply with their own manufacturer's warranty.
Please ask for section schematics if not provided with this plan.

Discussion Notes for Designers

This proposed installation details was formulated to cater for the following problems and common issues/errors found on site:

a. Surface Cracking

Works Contractors have found it difficult to control surface cracking due to transpiration at the mortar/concrete surface when exposed to intense afternoon heat. In this new proposal, we accept this common problem and provide features for this.

b. Vapour Pressures

Moisture leaking through these cracks builds up additional vapour pressures within the system which needs to be released. In addition, screed/mortar is porous and over time, seepage into the system will occur which gives rise to more vapour pressures.

c. Depth of Scupper Drains

Perimeter concrete scuppers need to be sufficiently deep enough to ensure that the highest level of rain water is contained within the concrete trench to avoid backflow between the screed and the concrete slab.

Some specialist reports, found that when providing a screed to fall in the scupper, quite often the screed thickness at one end exceeds the concrete trough.

d. Concrete Scupper Drain Provision Necessary

From reports from various specialists, scuppers are quite often left out and later formed using screed/mortar mixtures. Screed is not appropriate as it is much more porous than concrete. Moreover, the spill over will cause back flow in between the concrete slab and screeding layer.

e. Rainwater Downpipes

Rain water downpipes provision is quite often inadequate to cope during heavy downpour. Calculation check based on 300mm/hr rain recommended by meteorological station. At certain exposed locations, the recommendation rises to 400mm/hr rain fall.

Failure to provide adequate drainage would give rise to a "swimming pool effect" adding unpredictable structural loading and deflections to the roofs and may cause a system uplift.

f. Preparation of Concrete Slab to Receive System

Concrete substrate must also consist of a gradient to fall (at least wood floated finish), and must be checked for ponding before application of system. Where honeycomb, voids and pits are found patching must be performed for surface preparation to receive waterproofing system.

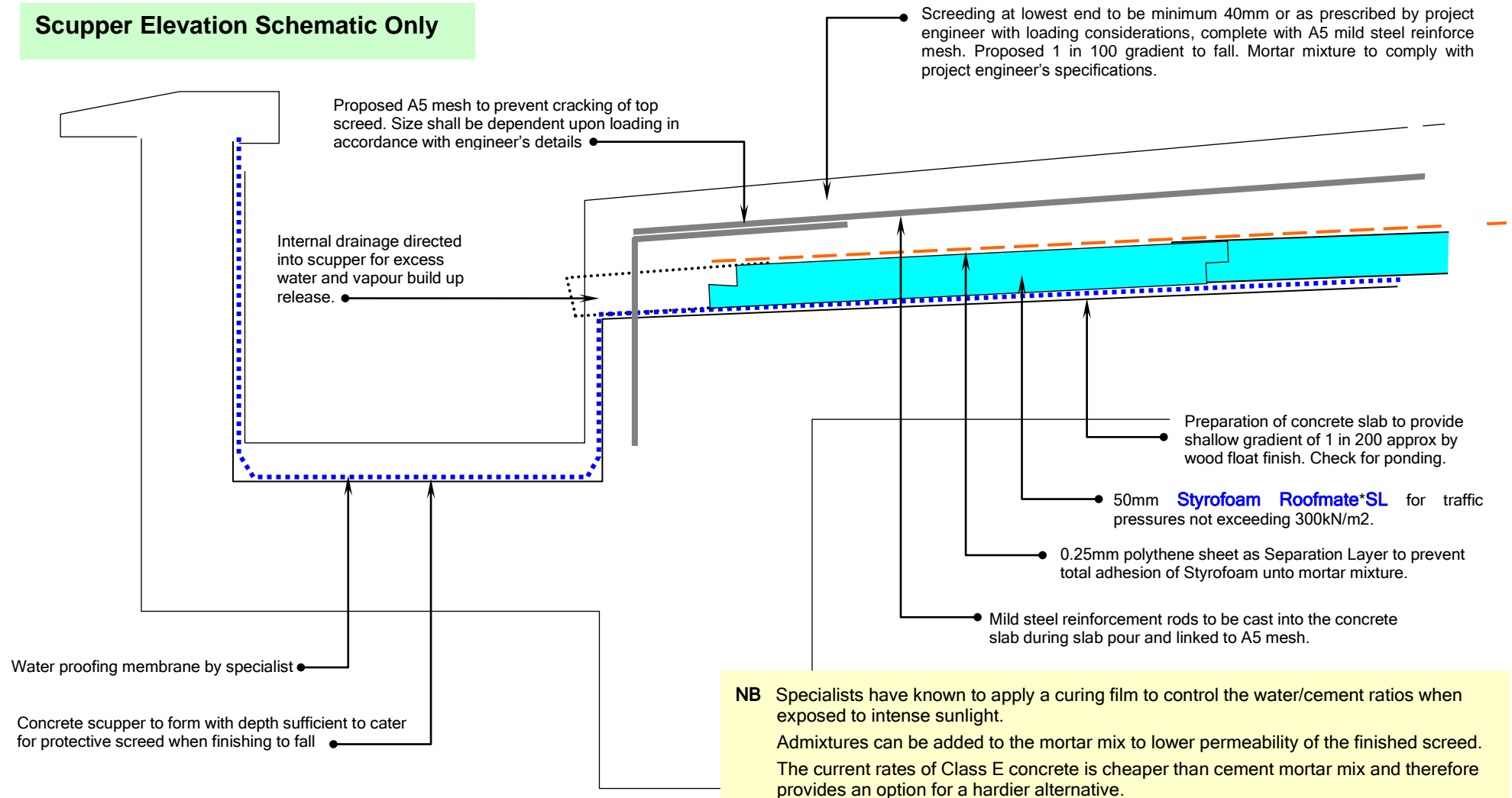
NB The above is an indicative schematic issued as a preliminary guide only for designers and installers. Proposed changes were adopted based on data received from specialist contractors over a period of time. The actual construction details are to be approved by the project consultants before implementation. 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.

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Scupper Elevation Schematic Only



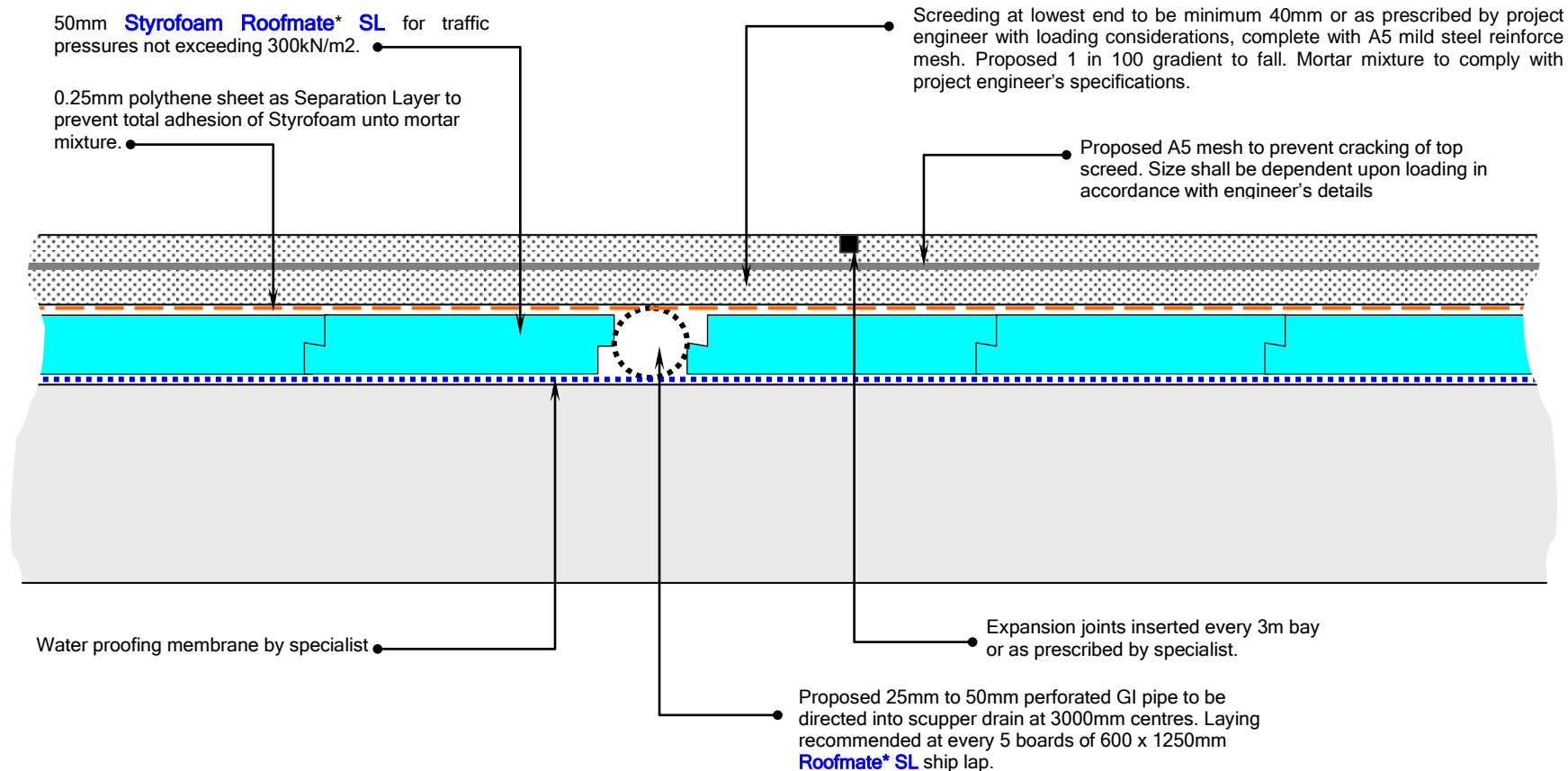
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Vapour Released and Drainage System Option 1



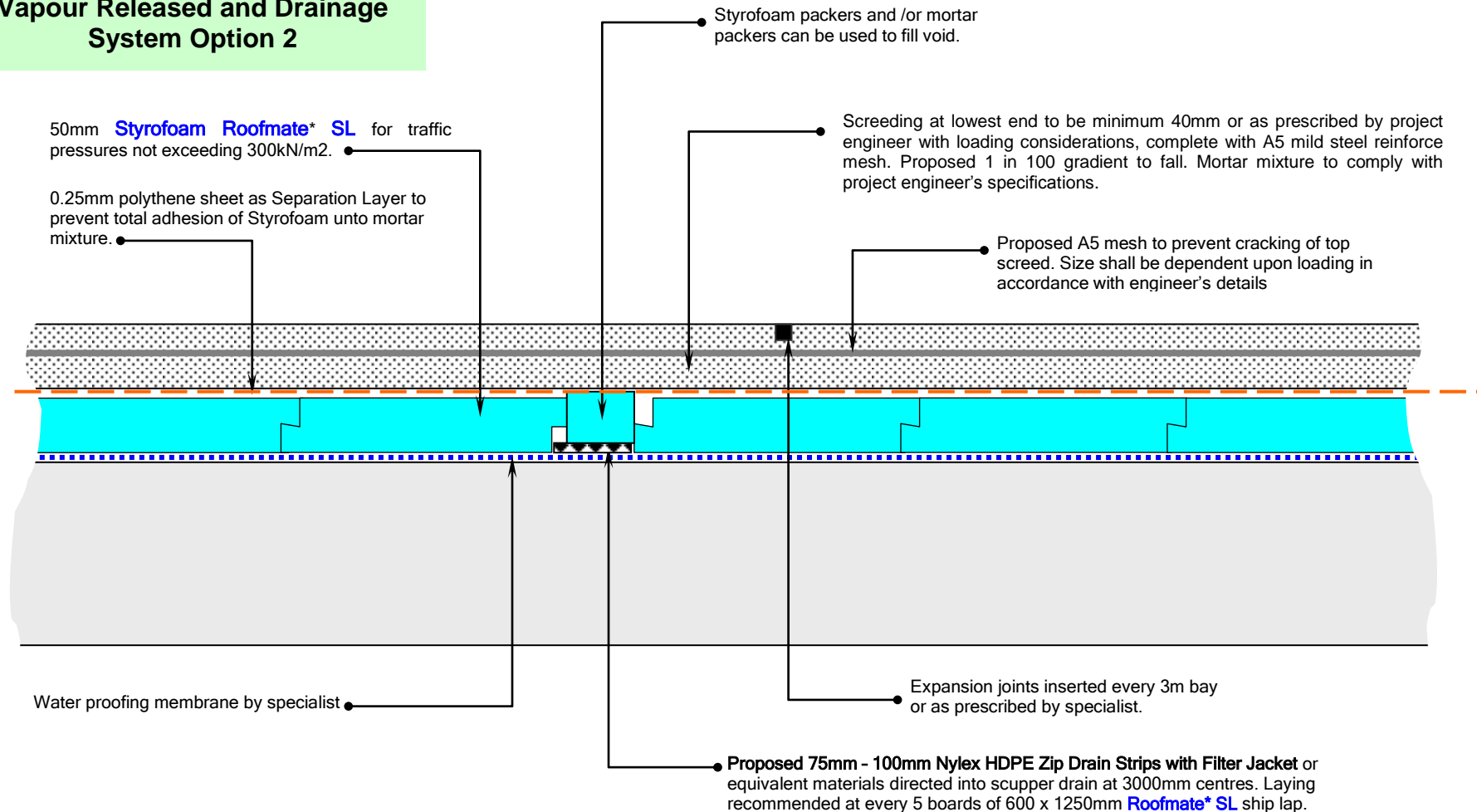
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Vapour Released and Drainage System Option 2



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