WP021 Waterproofing of Planter Boxes

Preparation:

1. All surfaces to be waterproofed must be firm, clean, dry, sound and smooth. All grease, oil, wax, curing compounds, loose material, paint and any other contaminants must be removed, **masonry surfaces must be pointed flush and surface defects repaired.** New concrete must be cured for minimum 28 days.

2. External corners to be waterproofed must be bevelled to ensure a smooth transition of membrane from vertical to horizontal surfaces.

Installation:

1. Installation shall be in accordance with AS4654.2-2011 Waterproofing membrane systems for exterior use - Above ground level - Design and installation, Clause 2.7 Planter Boxes.

2. Repair all surface defects on retaining wall masonry surfaces with Aftek Penapatch HB80. Penapatch Structural HB80 is a high strength; high build shrinkage compensated structural repair mortar.

3. The finished base of the planter box shall be graded with falls to the drainage outlet. If required, form the required falls by installing CTA Eco Screed mixed with Efflock over the structural substrate.

CTA ECO SCREED is a pre blended screed underlayment consisting of graded sand, cement and additives. EFFLOCK is a high performance, solvent free, water based liquid additive, ideal for the bulk impregnation of cementitious building materials.

4. Install Drainage outlet/Puddle Flange ensuring it is recessed into substrate.

5. Install a fillet to all internal corners vertically and horizontally using Penapatch Structural HB80. The minimum fillet size is 200mm x 200 mm.

6. Apply WPA 160 to all non porous surfaces such as PVC and metal pipes. WPA 160 is a specialised solvent free primer designed for enhancing the adhesion of subsequent membranes, adhesives, toppings and decorative finishes over porous or non-porous substrates.

7. Apply a coat of WPA 560 primer.

WPA 560 is a water based 2 part epoxy primer designed as a water and vapour proof coating under waterproofing membranes and / or adhesives.

8. Apply two coats of WPA 880 Tanking, ensuring that the first coat has completely dried before applying second coat. WPA 880 Tanking is a chemically modified waterborne flexible waterproof membrane designed for use in demanding external waterproofing applications.

Membrane must be sealed to and terminate into Drainage outlet/Puddle Flange and extend vertically to a minimum of 100mm above the expected soil fill level where the Planter Box abuts a wall. The membrane must continue over open edges of the Planter Box. Externally exposed walls of planter boxes must be waterproofed to prevent failure of the internal planter box membrane.

9. Install Newton 408 EcoDrain to all waterproofed surfaces. Newton 408 EcoDrain is a two-core drainage sheet consisting of a non-woven geotextile filter layer thermally welded to a water impermeable HDPE (High Density Polyethylene) drainage membrane.

10. Install internally filtered riser for the purpose of relieving hydrostatic pressure.

11. Ensure that membrane which extends above soil fill level is protected from UV damage by selected surface finish or capping material.

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Planter Box

External Corners must be bevelled to allow for smooth transition of membrane.

Selected finish coating (e.g. Render) to carry over to protect membrane

Waterproof externally exposed walls to prevent failure of the internal membrane using WPA 230 UV

WPA 880 Tanking

WPA 560 Primer

Penapatch Structural HB80 Fillet (min. 20 x 20 mm)

Newton 408 Eco Drain

Soil fill level

Riser for the purpose of relieving hydrostatic pressure

Membrane must terminate into outlet

CTA Eco Screed with Efflock to create fall to drain (if required)

Puddle Flange to be recessed