

WP502 Waterproofing Planter Box - Concrete / Blockwork (Polyurethane)

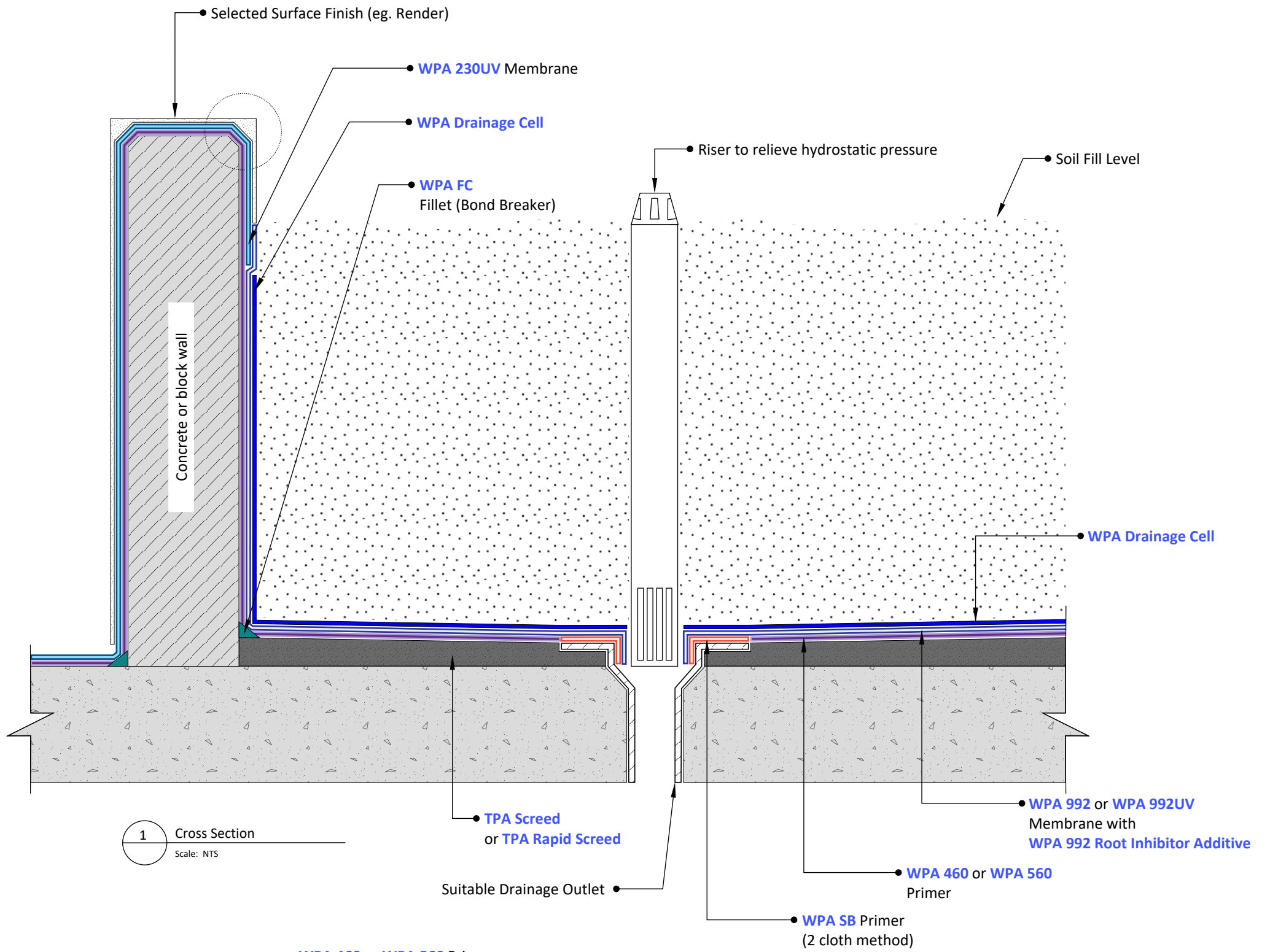
Preparation:

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 a minimum of 28 days.
2. External corners to be waterproofed must be bevelled to ensure a smooth transition of membrane from vertical to horizontal surfaces.

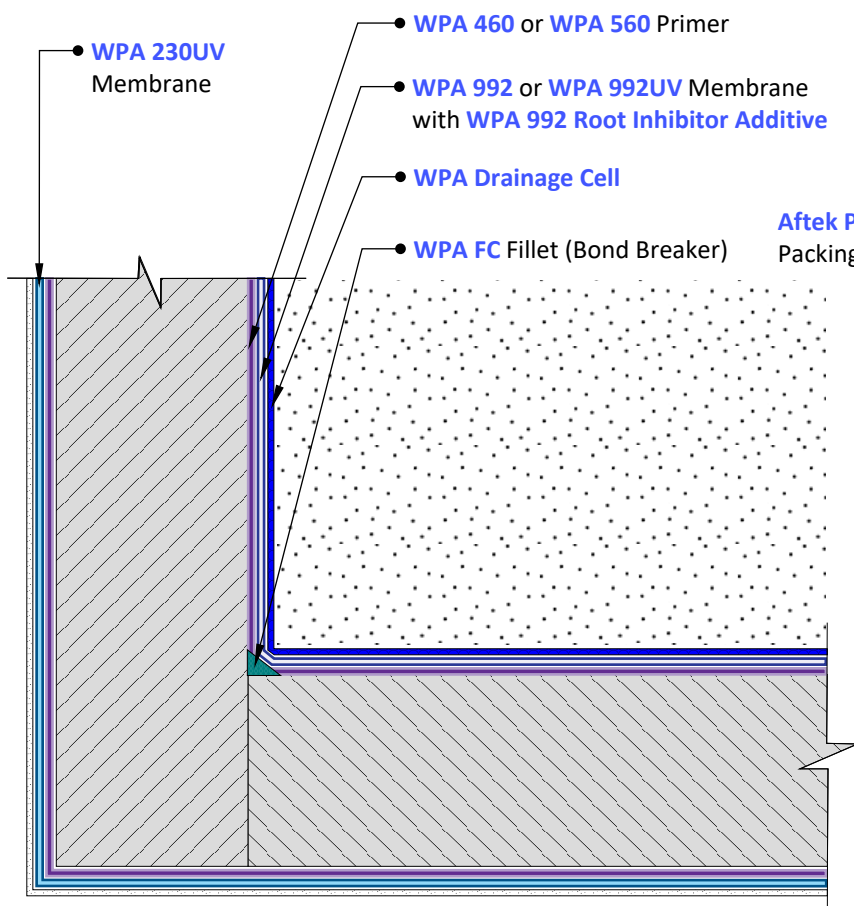
Installation:

1. Waterproofing installation shall be in accordance with AS 4654.2 Waterproofing Membranes for External Above-Ground Use.
2. Repair all surface defects with **Aftek Penapatch Structural HB80**.
Aftek Penapatch Structural HB80 is a high strength; high build shrinkage compensated structural repair mortar.
3. Install a Gunnable Waterstop around all penetrations. The waterstop must be packed in between at least a 50mm cover of **Aftek Penapatch Structural HB80**.
Gunnable waterstop products are caulk grade, single component swelling pastes used to stop water infiltration through concrete construction joints.
4. Install **TPA Screed** to achieve appropriate falls to waste. Where a bonded screed is required, apply a bond coat using **TPA 401M** or **TPA Lite**.
Install **TPA Rapid Screed** for an engineered or rapid set screed, using a bond coat of **TPA Rapid** for bonded screeds.
TPA Screed is a pre-blended screed mixture for the installation of cementitious screeds and tile beds, suitable for internal and external floor applications.
TPA Rapid Screed is a pre-blended, rapid set, engineered screed mixture for the installation of cementitious screeds and tile beds, suitable for internal and external floor applications.
5. Install an appropriate fillet (bond breaker) to all transitions using **WPA FC**.
WPA FC is a high performance, fast cure, one component polyurethane sealant.
6. Install a puddle flange to all waste pipes, ensuring that puddle flanges are recessed into the substrate.
7. Prime all non-porous substrates using **WPA 160** primer, such as PVC pipes.
WPA 160 is a specialised solvent free primer designed for enhancing the adhesion of subsequent membranes, adhesives, toppings and decorative finishes over non-porous substrates.
8. Apply **WPA 460** or **WPA 560** primer to the substrate being waterproofed.
WPA 460 is a two-part, water-based epoxy primer, used to seal concrete and masonry surfaces.
WPA 560 is a two-part, water-based epoxy primer, designed as a water and vapour proof coating under waterproofing membranes.
9. Apply **WPA 230UV** membrane above the soil fill level and to the capping, in a minimum of two coats to achieve the required dry film thickness. Ensure that the previous coat has completely dried before applying the subsequent coat(s). All penetrations must be waterproofed.
WPA 230UV is an elastomeric, fibre reinforced, water-based polyurethane membrane system designed for exposed or under tile applications.
10. Apply **WPA SB** primer to some non-porous surfaces such as puddle flange and waterstop angle using the 2 cloth method. (The 2 cloth method is carried out as follows: dampen a clean cloth with an appropriate amount of **WPA SB** primer, wipe evenly over the non-porous substrate utilizing a rubbing action. With a clean dry cloth, immediately remove all primer residues by implementing a buffing action).
WPA SB is a fast drying, solvent based primer, with exceptional penetrating properties. WPA SB primer is designed to assist in improving adhesion on porous and some non-porous substrates.
11. Apply **WPA 992** or **WPA 992UV** membrane with **WPA 992 Root Inhibitor Additive** mixed in to the wall and floor areas, in a minimum of two coats to achieve the required dry film thickness. Ensure that the previous coat has completely dried before applying the subsequent coat(s). Membrane must be sealed to and terminate into puddle flange, and extended vertically to a minimum of 100mm above the expected soil fill level where the planter box abuts a wall. The **WPA 992** or **WPA 992UV** membrane to must be sufficiently overlapped onto the **WPA 230UV** previously applied.
WPA 992 is a thixotropic, one part, liquid applied, moisture cured polyurethane waterproofing membrane, suitable for waterproofing most non-exposed applications.
WPA 992UV is a thixotropic, one part, liquid applied, moisture cured polyurethane waterproofing membrane, suitable for waterproofing most applications.
WPA 992 Root Inhibitor Additive is a chemical root inhibitor designed to be incorporated into WPA 992 moisture cured polyurethane membrane.
12. Continue the **WPA 230UV** membrane 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.
NOTE: Surface finishes such as render, tiles and paint are highly unlikely to bond to **WPA 992** or **WPA 992UV**. If bonding of surface finishes to the waterproofing membrane is required, this area should be waterproofed with **WPA 230UV** (overlapped under **WPA 992** or **WPA 992UV**).
13. Install **WPA Drainage Cell** to all waterproofed surfaces below soil level.
WPA Drainage Cell is a two-core drainage sheet consisting of a non-woven geotextile filter layer thermally welded to a water impermeable, recycled HDPE (High Density Polyethylene) drainage membrane.
14. Install internally filtered riser for the purpose of relieving hydrostatic pressure.

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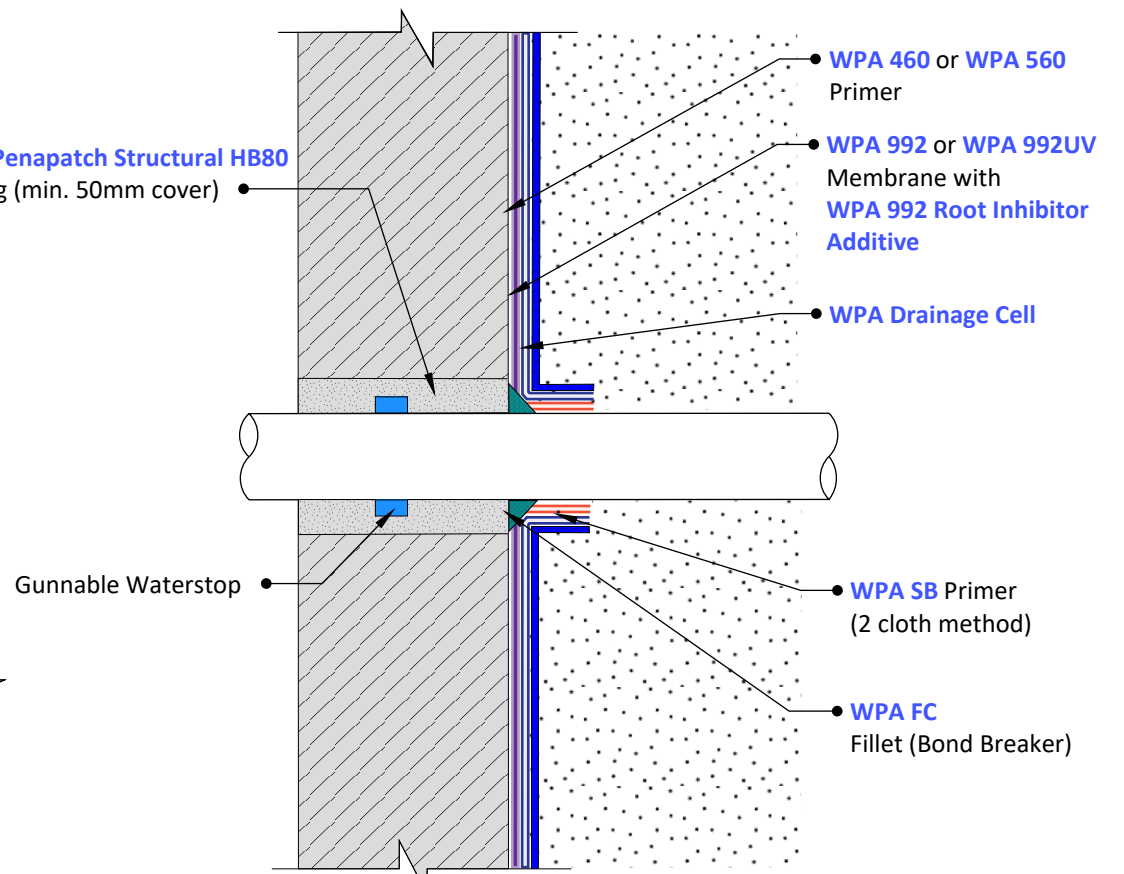


1 Cross Section
Scale: NTS



2 Plan View
Scale: NTS

Aftek Penapatch Structural HB80 Packing (min. 50mm cover)



3 Pipe Penetration
Scale: NTS

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DRAWING NUMBER

WP502

SCALE: NTS

RELEASE: November 9, 2023

DRAWN BY: CS