

## **TECHNICAL SPECIFICATION**

### **A) REMOVAL OF EXISTING WATERPROOFING AND PREPARATION OF CONCRETE SLAB**

1. Flood roof to identify areas of ponding.
2. Remove and rip existing waterproofing membrane and dispose of at a suitable disposal facility.
3. Lift loose concrete blocks supporting telecommunications.
4. Remove the roof extractor fan and clear out loose concrete and other debris before filling the hole with concrete. Thereafter mix the mortar, fill the hole and level it to blend with the surrounding surface according to the manufacturer's specifications.
5. Dry and clean the exposed concrete using solvents ensuring that the areas prone to leaking are treated with care. Measures must be taken to prevent contamination of the stormwater system during cleaning.
6. Voids and cracks in the concrete surface are to be cut-out and re-pointed with a suitable non-shrink grout and allowed to cure. Any protrusions must be removed to provide a smooth finish.
7. Replace all fullbore outlets on roof top with new ductile iron type outlets of an equivalent size and make good concrete / screed.
8. Dismantle and lift equipment to ensure that waterproofing is continuous, avoid any cutting.
9. Upon completion of preparation the Waterproofing Contractor must provide a visual inspection of the exposed concrete to ensure that it is stable and inert for the application of the torch-on waterproofing membrane.

### **B) PRIMING OF CONCRETE SLAB**

1. Apply bituminous primer to the concrete surface prior to the application of the new torch-on waterproofing membrane. This will ensure an adequate adhesion between the concrete surface and waterproofing material applied.

### **C) REWATERPROOFING OF CONCRETE SLAB**

1. Supply and install one layer Derbigum SP4 waterproofing membrane, with 75mm side laps and 100mm end laps, sealed to primed surface to falls and cross-falls by 'torch-fusion' finished with minimum two coats bituminous aluminium paint. Waterproofing must be fully dressed into the drainage outlets and at wall edges the waterproofing membrane is to be turned down the outer edge a minimum of 150mm. Internal and external angles must be rounded by providing a minimum of 35mm radius rounded cove at all internal angles. Internal corners must be filleted and external corners rounded. Waterproofing is to be installed to specification by an Approved Derbigum Contractor under a ten year guarantee.
2. Place the loose concrete blocks supporting telecommunications on top of the new waterproofing membrane.

### **D) FLOOD TEST**

1. Establish the integrity of the waterproofing system by conducting a flood-test for 48 hours - 72 hours long, this must be done before the handing over to the contractor.
2. Obtain a certificate from the Main Contractor stating that the waterproofing system was handed over in a watertight, clean and proper condition as well as the time-period and date of the test.