Proofex® Engage

**Pre-applied waterproof membrane**

**1.00 Pre-applied Sheet Waterproofing**

Where so designated on the drawings, the waterproof tanking membrane shall be, a blended polyethylene / polypropylene membrane incorporating a cell mesh, enabling the membrane to

 mechanically bond with the poured concrete. The membrane shall be supplied with one self-adhesive selvedge to provide sealed laps and comply with British Standard 8102:2022 – Code of practice for “Protection of Structures Against Water from the Ground” to provide basement waterproofing protection to grades 1, 2 and 3. The product shall comply with the requirements of BS EN 13967:2004, type A and Type T, “Flexible sheets for waterproofing- Plastic and rubber damp proof sheets including plastic and rubber basement tanking”. The product shall have a current British Board of Agreement Certificate and be considered fit for purpose when assessed under the terms of the BRANZ Appraisal scheme.

**1.10 Surface Preparation**

 The membrane must be applied to a smooth prepared substrate. Concrete blinding is preferred but

 a well compacted granular fill is acceptable for a level subbase.

 The substrate shall be free from loose aggregate or other sharp protrusions.

**1.20 Waterproofing Membrane**

 The waterproofing membrane is to be a 0.8mm thick PE/PP sheet incorporating a cell mesh (total product thickness >4mm) enabling the membrane to mechanically bond with the poured concrete.

 It shall exhibit the following properties:

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| **Tensile Strength sheet only (EN 12311-2):** | Transverse: >10 N/mm2Longitudinal: >18 N/mm2 |
| **Tensile Strength sheet plus mesh (EN 12311-2):** | Transverse: >7 N/mm2Longitudinal: >9 N/mm2 |
| **Elongation at Break sheet only (EN12311-2):**  | Transverse: >600%Longitudinal: >800% |
| **Elongation at Break sheet plus mesh (EN12311-2):**  | Transverse: >120%Longitudinal: >140% |
| **Crack Bridging (ASTM C1305 modified):** | Up to 5mm (100 cycles) |
| **Resistance to Impact (EN 12691 Method A):** | 1500mm |
| **Puncture resistance (ASTM E154-08):** | 672 N |
| **Watertightness (EN 1928 Method A):** | Pass @ 6m head |
| **Watertightness to liquid (ASTM D5385):** | Pass @ 69m |
| **Durability of watertightness against ageing (EN 1296 / EN1928):** | Pass |

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1.21 The waterproofing membrane shall be applied in accordance with the manufacturer’s product data sheet.

**1.30** **Fosroc Proofex Engage** meets the performance criteria and is approved.

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