

## Method Statement for Bitumen Membrane Waterproofing



### 1. Scope of Work

This method statement covers the preparation of substrate, application of primer, laying of bituminous waterproofing membrane, and protection works to ensure a continuous, durable, and watertight system for roofs, basements, or other designated structures.

### 2. Materials & Products

- Bitumen primer (BC Tec Bitumen FC or equivalent)
- Bitumen waterproofing membrane rolls (e.g., torch-applied SBS/APP modified)
- Protection boards / geotextile (if required)
- Sealants for detailing and overlaps

### 3. Tools & Equipment

- Gas torch with regulator and hose

- Hand roller for pressing laps
- Knife / scissors for membrane cutting
- Measuring tape, chalk line, brushes or rollers for primer
- Fire extinguisher (mandatory for torch application)

#### **4. Surface Preparation**

- Ensure the surface is smooth, clean, dry, and free from dust, oil, grease, or sharp protrusions.
- Repair cracks, honeycombs, and uneven areas with approved mortar.
- Apply a coat of bitumen primer at the recommended coverage rate (0.3–0.4 L/m<sup>2</sup>) and allow to dry.

#### **5. Application Procedure**

##### **1. Membrane Alignment**

- Unroll the membrane to check alignment, cut to required lengths, and re-roll before torching.

##### **2. Torch-Applied Fixing**

- Heat the underside of the membrane with a propane torch until the bitumen starts to melt and become tacky.
- Immediately press and roll the membrane onto the primed surface, ensuring full adhesion.

##### **3. Overlaps**

- Side laps: minimum 100 mm; End laps: minimum 150 mm.
- Ensure melted bitumen oozes from the lap joint, indicating proper bonding.

##### **4. Detailing**

- Pay special attention to corners, upturns, pipe penetrations, and drains using pre-cut pieces.
- Seal with extra bitumen compound or reinforcement strip if required.

## **5. Protection**

- After membrane installation, apply protection (geotextile, protection boards, or screed) to avoid damage from backfilling, foot traffic, or mechanical impact.

## **6. Health & Safety Precautions**

- All workers must wear PPE: gloves, helmets, goggles, and safety shoes.
- Fire extinguishers must be available at the work site.
- Gas torch must be handled by trained applicators only.
- Ensure proper ventilation in confined areas.