7. Other Products

7.1 Hydrophilic Swelling Bar



Applicable Standard: *Manufactured to project / customer specification*

Water-swellable rubber strip embedded at construction joints that expands on contact with water to seal the joint against seepage, commonly used in conjunction with PVC water stops in water-retaining structures.

Parameter	Specification / Typical Range
Material	Hydrophilic (chloroprene based) rubber
Swelling Ratio	200-400% (typical)
Fixing	Nailed / adhesive fixed to concrete surface before pour

Key Features

- Self-sealing on contact with water
- Simple installation at construction joints

Typical Applications

- Construction joints in water-retaining and underground structures

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7.2 EPDM Groove Rubber Pad for RE Wall Panels



The EPDM groove rubber pad is a preformed elastomeric bearing/spacer pad used at the horizontal joints between successive courses of precast concrete facia panels in a Reinforced Earth Wall (RE Wall) / Reinforced Soil Wall system. Placed within the grooved recess cast into the top and bottom edges of adjacent panels, the pad keeps the panels physically separated, cushions the panel-to-panel contact and allows the wall face to accommodate the small elastic and differential settlements that occur as the reinforced fill behind the panels is placed and compacted.

- Material: Ethylene Propylene Diene Monomer (EPDM) synthetic rubber compound
- Conforms to ASTM D2000 / ISO 4097 – Grade 2, Type A, Class A
- Hardness: 80 ± 5 Shore A (Durometer), as prescribed in IRC:SP:102
- Location of use: horizontal grooves at top/bottom edges between vertically stacked RE Wall facia panels
- Size and thickness manufactured to suit the panel groove dimensions shown on the project drawings
- High resistance to ageing, ozone, UV exposure, weathering and temperature extremes, consistent with the long design life of RE Wall structures
- Inner face of the pad joint protected with a non-woven geotextile strip (≥100 mm) to arrest fines migration
- Functions: maintains uniform panel spacing and erection tolerance, cushions point loads, and accommodates minor differential settlement of the reinforced fill

7.3 Drainage Spout & Grated Inlet / Outlet Pipe Assembly





The drainage spout is a fabricated mild-steel assembly comprising a circular outlet pipe welded to a square/rectangular base flange, topped with a grated inlet box. It is cast into or bolted onto the bridge deck at designated low points to collect surface run-off and discharge it clear of the structure, preventing water accumulation, ponding and consequent damage to the deck, bearings and substructure below.

Each unit is shop-fabricated from mild steel plate and pipe, fully welded and hot-dip galvanised (or painted) for corrosion protection, and finished with a slotted/grated top to filter debris while allowing free flow of water into the outlet pipe.

- Fabricated from mild steel plate and pipe, fully welded at all joints
- Square base flange for anchoring into the deck slab or fixing to the drainage recess
- Slotted grating at the inlet prevents entry of debris while allowing free water flow
- Outlet pipe of required diameter and length to suit deck thickness and drainage layout
- Hot-dip galvanised / corrosion-protective coated finish for long-term durability
- Used at deck low points, expansion joints and kerb lines on bridges and flyovers