



# HYDROFLOW HM

## GEOCOMPOSITE DRAINAGE MEMBRANE

### DESCRIPTION

HYDROFLOW HM is a high-performance HDPE, cusped drainage membrane incorporating a non-woven geotextile bonded to the outer face of the cusped to produce a geocomposite drainage membrane. This is designed to provide an effective drainage layer, externally to water resisting structures. The membrane exhibits a good load resistance which ensures that the free draining void is maintained for the lifetime of the structure. HYDROFLOW HM offers excellent chemical resistance to alkalis and organic gases making it suitable for use in a variety of ground conditions.

### USES

HYDROFLOW HM is used to provide a filtered drainage plain that will provide a free-flowing void for the diversion of water away from the water resisting structure to ensure a head of water is never sustained for any period of time. HYDROFLOW HM is used in basement construction, retaining walls, podium slabs, basement roofs, tunnels and culverts.

### ADVANTAGES

- Rapid and easy installation by semi-skilled labour.
- Excellent chemical resistance.
- High compressive strength to provide load resistance.
- Minimal substrate preparation prior to installation.
- Provides an effective free draining void for the life time of the structure.

Property	Value	
Cusped Depth	8mm	25mm
Mass	1 kg/m <sup>2</sup>	1.6 kg/m <sup>2</sup>
Compressive Strength	250 kN/m <sup>2</sup>	180 kN/m <sup>2</sup>
Drainage Capacity	5.5 ltrs /m <sup>2</sup>	20 ltrs /m <sup>2</sup>

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### PROCEDURE

**Surface Preparation:** The substrate should be free from excessive surface undulations which may deform the membrane. If the HYDROFLOW HM is to be applied on top of a PREMCRETE waterproof membrane, then it should be adhered to the membrane using HYDROPRUFE HCR BUTYL TAPE.

**Application:** HYDROFLOW HM should be fixed to the outside of the structure to provide an effective drainage void. If the HYDROFLOW HM is to provide a drainage void against a PREMCRETE waterproof membrane then it should be adhered to the membrane using HYDROPRUFE HCR BUTYL TAPE 100mm width to secure the HYDROFLOW HM in place until backfill has taken place. If the HYDROFLOW HM is to be installed directly against concrete or masonry, then it may be fixed mechanically at 1 metre centres. Laps between adjacent sheets are created by butt jointing the membrane sheets before folding the geotextile membrane lap against the adjacent sheet. This will ensure that no soil fines can penetrate the geocomposite membrane which may result in clogging.

If the HYDROFLOW HM is to be installed to a vertical substrate, the geotextile should face outwards and a maintainable perforated land drain should be installed at the base to drain the water away from the structure. If the HYDROFLOW HM is to be installed to a horizontal deck, then the 25mm membrane should be used.

It should be applied with the geotextile facing upwards. Hard and soft landscaping may then be installed on top of the HYDROFLOW HM. The HYDROFLOW HM should extend to the perimeter of the structure and connected to a maintainable perforated land drain to drain the water away from the podium slab.

### PACKAGING

#### Pack Size:

HYDROFLOW HM 8mm: 2m x 20m roll.

HYDROFLOW HM 25mm: 0.9m x 50m roll.

### STORAGE & SHELF LIFE

Store in cool dry conditions away from direct sunlight.

### HEALTH & SAFETY

See separate material safety datasheet.



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