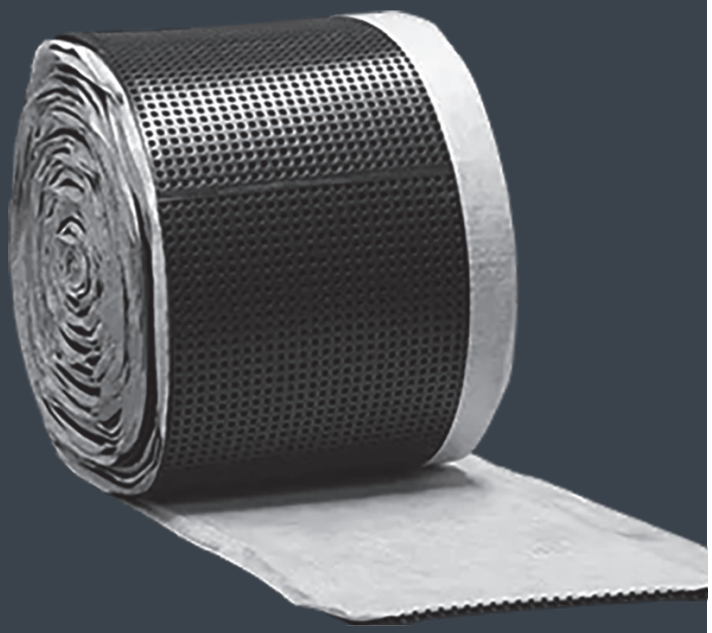
TECHNICAL DATA SHEET

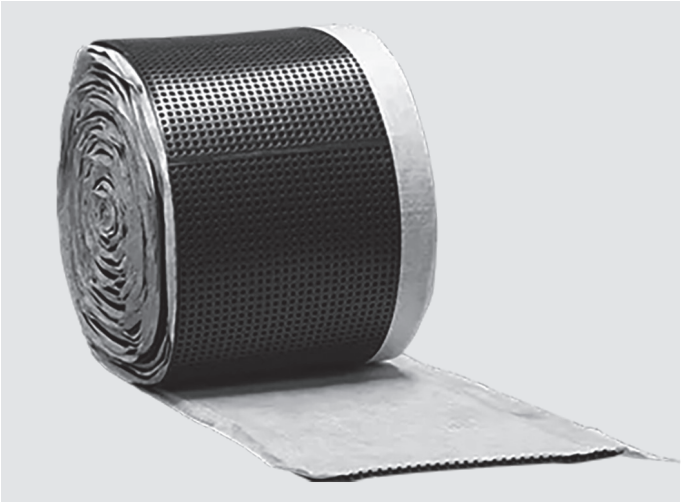
HYDROFLOW HM25



Geocomposite drainage membrane

PREMCRETE

HYDROFLOW HM25





TYPE C
EXTERNAL DRAINAGE

WATER RESISTANT

25 YEARS
PRODUCT WARRANTY

DESCRIPTION

HYDROFLOW HM25 is a high-performance HDPE, cuspated drainage membrane with a 25mm profile, incorporating a non-woven geotextile, bonded to the outer face of the cuspates, therefore combining to form a geocomposite drainage membrane.
This is designed to provide an effective drainage layer to the external face of water resisting structure such as podium slabs. The membrane exhibits an excellent load resistance which ensures that the free draining void is maintained for the lifetime of the structure.
HYDROFLOW HM25 offers excellent chemical resistance to alkalis and organic gases making it suitable for use in a variety of ground conditions.

USES

HYDROFLOW HM25 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 HM25 is used in basement construction on podium slabs and roofs, protecting below ground structures, 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 pressure relief drainage void for the lifetime of the structure.

HYDROFLOW HM25

TECHNICAL & PERFORMANCE PROPERTIES

Property	Test Method	Value
Cuspate Depth	N/A	25mm
Mass	N/A	1.6 kg/m^2
Compressive Strength	N/A	1 180 kN/m^2
Drainage Capacity	N/A	1 20 ltrs /m^2

INSTALLATION PROCEDURE

Surface preparation

The substrate should be free from excessive surface undulations which may deform the membrane and ensure the surface is clean and free of any debris.

Application

HYDROFLOW HM25 should be fixed to the outside of the structure to provide an effective drainage void. If the HYDROFLOW HM25 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 HM25 in position until backfilling has taken place.

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.

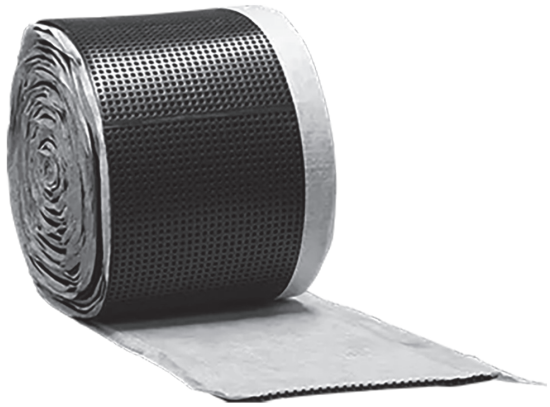
When applied horizontally, it should be applied with the geotextile facing upwards. Hard and soft landscaping may then be installed on top of the HYDRFLOW HM25. HYDROFLOW HM25 should extend to the perimeter of the structure and should be connected to a maintainable perforated land drain to enable the water to drain away from the podium slab.

Whilst HYDROFLOW HM25 is typically used for horizontal applications, if it is 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.

PACKAGING & COVERAGE

Pack Size

0.9m x 50 roll.



STORAGE & SHELF LIFE

Store in cool dry conditions away from direct sunlight.

HEALTH & SAFETY

See separate Material Safety Data Sheet.

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PREMCRETE