

PROTECH GM HM

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Product specification to be Protech GM HM by The A Proctor Group, Blairgowrie

Manufacturer

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Detailed Description

Gas Barrier to be used shall be Protech GM HM supplied by The A Proctor Group, Blairgowrie.

Protech GM HM is a reinforced polyethylene and foil gas barrier that provides protection against a range of ground contaminants.

Product

Product performance specification as follows:

Thickness

1mm

Roll Size

4m x 12.5m

Material

High Density Polyethylene (HDPE)

Colour

Black

Accessories

Protech GR-DPC
 Protech GM Tophats
 Protech SAGM (Self Adhesive Gas Membrane)
 Protech GM Flashing Strip
 Protech GM Corner Units
 Protech GM Primer
 Protech GM 3mm Protection Board
 Protech GM Protection Fleece
 Protech LAGM (Liquid Applied Gas Membrane)

Certification

Minimum required: not applicable

Technical Properties

- Mass per Unit area: to be no less than 0.94 g/cm³
- Tensile Strength: to be no less than 850 N/50mm when tested to EN 12311-2
- Puncture Resistance: to be no less than 3.2KN when tested to EN 12236
- Water vapour transmission properties: to be no less than Sd = 300m when tested to EN1931
- Elongation: to be no less than 950% when tested to EN12311-2
- Tear Strength: to be no less than 140N when tested to ISO 34-1
- Resistance to impact: to be no less than 700mm when tested to EN 12691
- Shear resistance of welded joint: to be no less than 850 N/50mm when tested to EN 12317-2

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- Transmission rate of volatile liquids:
 - Diesel: to be no worse than 0.047 g/m²/h when tested to ISO 6179:2010 (B)
 - Xylene: to be no worse than 1.886 g/m²/h when tested to ISO 6179:2010 (B)
 - Toluene: to be no worse than 4.432 g/m²/h when tested to ISO 6179:2010 (B)
 - Petrol: to be no worse than 2.318 g/m²/h when tested to ISO 6179:2010 (B)
- Methane Permeability: to be no higher than 55 ml/m²/day/atm when tested to BS EN ISO 15105-1
- Carbon Dioxide Permeability: to be no higher than 55 ml/m²/day/atm when tested to BS EN ISO 15105-1
- Radon Permeability: to be no worse than 1.1 x 10⁻¹¹ m²/s when tested to KI24/02/95

Protech GM HM is a high impact proprietary hydrocarbon and gas resistant barrier, with outstanding chemical resistance, mechanical properties, environmental stress crack resistance, dimensional stability and thermal ageing characteristics, that has been specifically designed to conform with the latest guidance documents. Due to its composition, the membrane is extremely robust and therefore reinforced steel can be placed directly on the membrane without the need for a protection board prior to the floor being cast. The membrane is also ideally suited for laser screed applications. The membrane also provides protection from Damp and therefore there is no need to install a separate DPM

Benefits

- Relatively flexible and easy to lay
- Full range of accessories to ensure that the membrane is gas tight
- Improved Impact Resistance and does not usually require protection layer when used under reinforced slabs
- Large rolls available for reduced installation times
- Compatible with the Provoid Gas Venting System
- Smaller rolls available for reduced wastage on smaller schemes

Product Reference [Protech GM HM](#)
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