

Hyload LL Gas Resistant DPM



Product Data Sheet

Loose-laid gas resistant membrane

June 2007

Features and benefits

- High quality multi layer reinforced LDPE polyethylene membrane with aluminium core.
- High resistance to puncturing.
- Low permeability to methane, radon and carbon dioxide.
- Also acts as a damp proof membrane.
- High levels of tear and impact resistance.

Description

Building Regulations require that proper precautions be taken to prevent danger to health when building on contaminated land.

Hyload LL Gas Resistant DPM offers a safe solution for the protection of buildings against methane, radon and carbon dioxide, when installed in accordance with BRE Report: Construction Of Buildings On Gas Contaminated Land. Hyload LL Gas Resistant DPM is a multi layer reinforced polyethylene membrane with an integral aluminium foil. For ease of identification on site, Hyload LL Gas Resistant DPM has a blue tint on one side and silver on the reverse. The barrier is flexible and is easy to install. Hyload LL Gas Resistant DPM is also suitable for use as a damp proof membrane.

Hyload LL Gas Resistant DPM is suitable for use where methane, radon or carbon dioxide is a problem and where it is beneficial to the construction process to loose lay the membrane to a prepared substrate. Typically these are sites previously used as landfill or are contaminated industrial sites.

The Hyload LL Gas Resistant DPM System comprises:

Hyload Butyl Jointing Tape

A butyl based double sided tape for joint formation. 50mm x 10m

Hyload Foil Backed Girth Jointing Tape

A single sided jointing tape suitable for securing laps. 75mm x 50m

Hyload Gas Resistant DPC

A flexible bitumen DPC with an aluminium foil designed to prevent the transmission of radon and methane gases.

Pre-formed Pipe Cloaks

For effective sealing around service pipe penetrations.

Hyload SA Gas Resistant Tanking Membrane

A self adhesive membrane designed to prevent the transmission of radon and methane gases.

Product details

Weight per sq metre	350 g/m ²
Roll length	30m, 60m *
Roll width	1.6m
Thickness Aluminium foil	20 microns

*Ordered as a special.

Technical Performance	
Weight per Unit Area	350 g/m ²
Tensile Strength (BS 2782:Part 3:320A)	43.7N/mm ²
Tear Strength (BS 2782:360B)	216 N/mm
Methane Permeability	Less than 0.001 ml/m ² /24hr
Water Vapour Permeability (BS 3177)	0.03 g/m ² /24hr

Site Installation

Hyload LL Gas Resistant DPM and ancillary components must be installed in accordance with the recommendations of Building Research Establishment BRE No: 211 "Radon: guidance on protective measures for new dwellings " and BRE No:: 414 "Protective Measures for housing on gas contaminated sites ". The product is not intended for use where there is the risk of hydrostatic pressure.

Hyload LL Gas Resistant DPM should be installed on a blinded or smooth surface allowing adequate overlap for jointing between the sheets and avoiding bridging (i.e. areas of unsupported membrane). In order to provide a continuous barrier the membrane should be taken up the walls to the damp proof course level and incorporated beneath it in the inner skin. Where additional ventilation is required, Hyload LL Gas Resistant DPM should be installed with a proprietary gas ventilation system.

Jointing

Hyload LL Gas Resistant DPM should be overlapped by at least 150 mm and bonded with Hyload Butyl Jointing Tape. This joint should be secured with Hyload Foil Backed Girth Jointing Tape. Ensure that the membrane is clean and dry at the time of jointing. Perforations or punctures in the sheet should be covered with another part of the sheet and have an overlap of at least 150mm. The laps should be sealed with Hyload Butyl Jointing Tape and secured with Hyload Foil Backed Girth Jointing Tap. Airtight seals should be formed around all service entry points. Preformed Pipe Cloaks are available for sealing around pipe entries. The base of the preformed unit should be sealed using Hyload Butyl Jointing Tape.

Covering

Hyload LL Gas Resistant DPM should be covered by a screed or other protective layer as soon as possible after installation. Care should be taken to ensure that the membrane is not punctured, stretched or displaced when applying the screed or concrete.

A minimum thickness of 50mm screed is recommended. When reinforced concrete is to be laid over the barrier, the wire reinforcements must be prevented from contacting the barrier. It is recommended that the barrier is covered with screed before positioning the reinforcement. When underfloor heating is being installed, it is recommended that the barrier is positioned between the blinded hardcore and insulation to protect the installation from moisture and to avoid any risk of overheating the membrane.

Storage & Handling

Hyload LL Gas Resistant DPM is classified as non-hazardous when used in accordance with the relevant Code of Practice (CP 102 1973). The product is chemically inert and is not affected by acids and alkalis that may be present in the sub-soils. Exposure to ultraviolet light will embrittle the product. The material is not therefore recommended for uses where it will be exposed to long periods of outdoor weathering. However weathering will not occur when the membrane is installed in accordance with CP102 1973. Care should be taken to avoid accidental damage when handling Hyload LL Gas Resistant DPM on site.

References

The Building Regulations Approved Document Part C 1992.

CP 102 :1973 Code of practice for the protection of buildings against water from the ground.

BS 8102 :1990 Code of practice for the protection of structures against water from the ground.

BS 8215 :1991 Code of practice for the design and installation of damp proof courses in masonry construction.

BS 8000 :Part 4:1989 Workmanship on building sites. Code of practice for waterproofing.

Building Research Establishment BRE No: 211 " Radon :guidance on protective measures for new dwellings ".

Building Research Establishment BRE No 212 "Construction of new buildings on gas contaminated land ".

Specification clauses

Full product specifications in NBS format are available via Ruberoid 's national team of Project Managers. Please telephone or e-mail to schedule an appointment.

Ruberoid also provides a design facility where AutoCAD drawings can be prepared to support any material specifications. Our Technical and Design Services Department also provides technical advice via the telephone and email (see below).

Other products

Full product literature, health & safety and technical sheets are available as downloads from our website www.ruberoid.co.uk or on request by email: marketing@ruberoid.co.uk

Ruberoid Building Products

Literature Enquiries

E-Mail: marketing@ruberoid.co.uk Website: www.ruberoid.co.uk

Customer Services

Appley Lane North, Appley Bridge, Wigan, Lancashire WN6 9AB
Tel: 0800 028 5573 Fax: 0800 013 5574 E-Mail: sales@ruberoid.co.uk

Technical & Design Services

Coney Green Road, Clay Cross, Chesterfield, S45 9HZ
Tel: 0844 412 7228 Fax: 0844 412 7229 E-Mail: technical@ruberoid.co.uk

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