Specialist Geomembranes

Technical Data Sheet

Landflex™ ZR80 DPC

Gas Resistant Damp Proof Course

A unique blended, single layer polyethylene membrane. Landflex™ ZR80 DPC is specifically designed and manufactured to perform as a Methane, Carbon Dioxide, Radon, Ground Gas, air & moisture damp proof course.

Landflex™ ZR80 DPC complies with the latest codes of practise as published by BRE, CIRIA AND BSI (BS8485:2015). Suitable for use as Ground Gas protection for NHBC Green, Amber 1 and Amber 2 site characterisations.

The information herein is based upon data obtained by the manufacturer and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data. This information is furnished upon the condition that the person receiving it shall evaluate its suitability for the specific application.



Material Properties	Unit	Test Method	Typical Values
Physical Properties			
Thickness	mm	EN 1849-2	0.8
Width	m	EN 1849-2	0.6 / 0.9
Length	m	EN 1849-2	20
Weight	g/m^2	EN 1849-2	730
Hydraulic Properties			
Water vapour permeation	$g/m^2/day$	EN 1932	0.09
Resistance to water penetration	-	EN 1928	PASS
Mechanical Properties			
Resistance to static load	Kg	EN 12730-B	20
Tensile strength MD Tensile strength CMD	N/mm^2	EN 12311-1	24 22
Tensile elongation MD Tensile elongation CMD	%	EN 12311-1	398 446
Resistance to impact	mm	EN 12691	660
Resistance to tearing (nail shank) MD Resistance to tearing (nail shank) CMD	N	EN 12310-1	700 750
Joint strength	N	EN 12317-2	520
Durability and Chemical Resistance			
Heat ageing	-	EN 1926	PASS
Chemical resistance	-	EN 1847	PASS
Resistance to fire	Class	EN 13501-1	F
Resistance to low temperature	°C	EN 495-5	PASS @ -40
Gas Permeability			
Methane permeability	$ml/m^2/day/atm$	BS EN ISO 15105-1	33.9
Radon permeability	m^2/s	K124/02/95	9.5×10^{-12}
Compliance and Certification			
CE Mark	EN 13967:2012		
NHBC Standards	Compliant		
BS 8485:2015	Compliant		

Values are typical with the exception of Thickness which is nominal. Typical indicates the mean value derived from the samples taken for any one test as defined in the BS EN ISO standard - usually the mean of five samples. Nominal is a guide value.

BUTEK Tanks
BUTEK Landline

Specialist divisions of Butyl Products Ltd
T: +44 (0) 1277 653 281
E: enquiries@butektanks.co.uk W: butektanks.com
E: enquiries@butek-landline.co.uk W: buteklandline.co.uk

Specialist Geomembranes

Technical Data Sheet

Landflex™ ZR80 DPC Gas Resistant Damp Proof Course

CE



INFORMATION

Landflex™ ZR80 DPC has an embossed surface to create superior mortar adhesion which is essential when being used in 3+ storey applications. Landflex™ ZR80 DPC is compliant to BS EN 14909:2012 and can be used in both vertical and horizontal applications.

Handling

Roll weights can be in excess of 5kg and therefore appropriate care and equipment is required for unloading and handling.

Storage

Rolls of Landflex™ ZR80 DPC should be stored on stable / level ground and stacked not more than five rolls high, with no other material stacked on top. The rolls can be stored outdoors when packaged, but should
be protected from exposure to UV. Landflex™ ZR80 DPC is classified as non-hazardous, and is chemically inert such that it will not react with any acid or alkali environment in which it is used.

Installation

Landflex™ ZR80 DPC must be installed in accordance with the guidelines laid out in BS8215:1991, BS8000:part 3 and BS 5628. It can be used in most common floor constructions and is installed in a similar manner to damp proof membrane. For external walls the DPC should be applied 150mm above the adjoining surface and should be linked to a Gas resistant DPM in solid floors. The DPC should be applied to a fresh bed of mortar, completely free of projections that may puncture the material or prevent the DPC from laying flat.

Jointing and Sealing

Sheets of Landflex™ ZR80 DPC must be clean, dry and free from dirt and grease before application of jointing tape. Landflex™ ZR80 DPC may also be heat welded to the underlying Gas resistant membrane.

Accessory Products

Landflex™ ZR80 DPC is an accessory product for use with Landflex™ ZR60 Gas Membrane and other Landflex™ Gas protective membranes.

BUTEK Tanks
BUTEK Landline

Specialist divisions of Butyl Products Ltd
T: +44 (0) 1277 653 281
E: enquiries@butektanks.co.uk W: butektanks.com
E: enquiries@butek-landline.co.uk W: buteklandline.co.uk