# Protech GR-DPC

GAS PROTECTION

#### DESCRIPTION

Protech GR-DPC is a gas resistant DPC used through junctions with cavities or masonry to protect against the ingress of gas and damp.

Protech GR-DPC can be used on any site where Carbon Dioxide, Radon, VOCs or Methane is a problem. Ground gas can occur on any sites previously used for landfill. Such conditions can exist on household, commercial and industrial sites. Protech GR-DPC is suitable for stepped cavity applications. Also suitable for Amber 1 and 2 sites or where Radon gas exists.

Protech GR-DPC should be taken through the cavity and formed as per the design. The connecting gas membrane should be laid on top of this and sealed with either Protech GM Tape or Protech GM Flashing in the perimeter areas. Protech GR-DPC can also be taken through internal walls where detailing with the gas membrane is difficult.

### **KEY FEATURES**

- Complies with CIRIA C748:2014 industry standard for volatile organic compounds (VOC) protection
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Provides protection against radon, carbon dioxide, methane and VOCs
- Dual jointing methods lap joints can be taped or heat welded

### INSTALLATION PRACTICE

- Protech GR-DPC must extend through the full thickness of the wall, including pointing, applied rendering or other facing material.
- Protech GR-DPC must be laid on a wet, even bed of mortar and perforations in adjacent courses of brickwork must be closed with mortar.
- All lap joints must have a minimum 100mm overlap and be completely sealed with Protech GM Tape.





British

Association



CE



#### DATA SHEET

## Protech GR-DPC

Property		Test Method	Units	Result
BS EN 14909:2012				
Colour				Gold / White
Weight			g/m²	490
Length		BS EN 1848-2	m	20
Width			mm	600
Thickness			mm	0.5
BS 8485:2015 and C748:2014 physical test results		Test Method	Units	Result
Puncture		BS EN ISO I 2236:2006	Ν	1640
Impact resistance	Method A hard surface Method B soft surface	BS EN 12691	mm	200 1250
Tensiles yield strength	MD I CD I	ASTM D4885-01	kN/m Pass	5.1 4.91
Yield elongation	MD I CD I		%	76 62
Tear resistance - trouser method A	MD CD	BS ISO 34-1	kN/m	60.2 66. I
Tear resistance - angle method B	MD CD		Ν	48.7 49.6
I - at yield and not break as equipment used was not strong enough to break the DPC				
BS8485:2015 - Methane testing		Test Method	Units	Result

## Protech GR-DPC

Methane permeability unjointed		ISO 15105-1	ml/m²/d/atm	1.3		
Methane permeability welded joint			ml/m²/d/atm	24		
Carbon dioxide			ml/m2/d/atm	8.3		
C748:2014 - Permeation vapour tests - 100% concentration		Test method	ml/m²/d	mg/m²/d		
Benzene		ISO 15105-2	0.08	70		
Toluene			0.09	78.5		
Ethyl benzene			0.11	93.8		
m.p xylene			0.01	6.7		
Hexane			gas	2.6		
Vinyl chloride			0	6.4		
Tetrachloroethene (PCE)			0	3.2		
Trichloroethene (TCE)			solid	0.3		
Naphthalene			0.03	19.7		
UKCA, CE, UKNI Mark EN 14909:2012						
Characteristic		Test method	Units	Result		
Tensile Strength	MD CD	RS ENI 12211	N/mm²	32.8 33.1		
Tensile elongation	MD CD		%	699 723		
Joint strength		BS EN 12317-2	Ν	265		
Watertightness 2kPa		BS EN 1928	-	Pass		



Download a full Gas Protection brochure from our website...

www.proctorgroup.com

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