

# technical datasheet



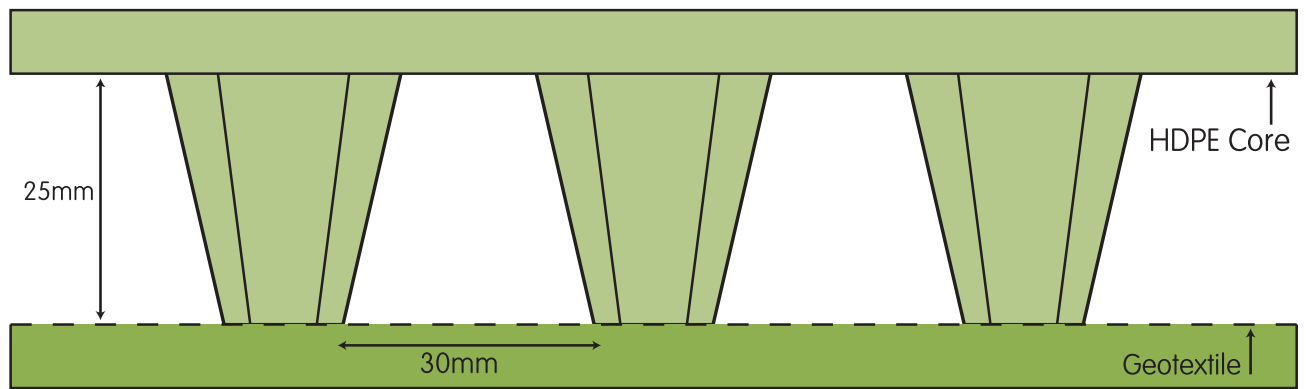
environmental protection systems

## Corden EPS Geovent

### Description

Corden EPS Geovent consists of a geotextile filter, thermally bonded on one side of a specially formulated orange cuspated HDPE (High Density Polyethylene) core, suitable for both active and passive venting systems. It's main application is to remove gases such as Radon, Methane, Carbon Monoxide, Hydrogen Sulphide, etc. from below base slabs of offices, industrial and commercial buildings etc.

| Geotextile   | Test method               | Value/Units   |
|--|---------------------------|---|
| Type   |                           | Non woven continuous filament needle punched and heat treated |
| Material   |                           | Polypropylene   |
| Thickness @Kpa                                     | EN 964-1                  | 1.1mm   |
| UV Resistance                                      |                           | 100%  |
| Tensile Strength MD/CD                             | EN ISO 10319              | 7.5/10KN/m  |
| Elongation at break MD/CD                          | EN ISO 10319              | 100/30%   |
| Pore Size $O_{90}$                                 | EN ISO 12956              | 110um   |
| Gas Flow @ 100mm                                   | GAS TEST                  | 15,00l/m.sec  |
| Static puncture resist CBR                         | EN ISO 12236              | 1500N   |
| Dynamic perf cone drop                             | EN 918                    | 32mm  |
| <b>Core</b>  |                           |   |
| Type   |                           | Single Cuspated (Dimpled)                                     |
| Material   |                           | Prime HDPE (High Density Polyethylene)                        |
| <b>Composite</b>                                   |                           |   |
| In plane gas flow                                  | Pressure Drop Gas Test    | @7mm @3mm   |
| @ 100kPa   | with soft foam platens to | 9.0l/m.sec 2.3l/m.sec   |
| @ 250KPa   | simulate soil action      | 6.4l/m.sec 1.7l/m.sec   |
| @500KPa  |                           | 1.2l/m.sec 0.3l/m.sec   |
| Creep Resistance                                   |                           | Less than 6% in 100,000 hours                                 |
| Equivalent Clear Void                              | DoE                       | 6   |
| Thickness at 2KPa                                  | EN 9641-1                 | 12.2mm  |
| Weight per unit area                               | EN 965                    | 985g/m <sup>2</sup>   |
| Tensile Strength MD/CD                             | EN ISO 10319              | 11/10kN/m   |
| Elongation MD/CD                                   | EN ISO 10319              | 50/30%  |
| CBR puncture resistance                            | EN ISO 12236              | 2,500N  |
| Resistance to weathering                           | EN 12224                  | To be covered in 14 days                                      |
| Life expectancy                                    |                           | In excess of 25 years in pH 4 to 9 at 25°C                    |
| Working temperature                                |                           | -20°C - 80°C  |
| Chemical Resistance                                | EN 14030                  | Excellent resistance to common chemicals                      |
| Resistance to microbes                             | EN 12225                  | No significant effect   |
| Compatibility with gas and waterproofing membranes |                           | Fully compatible  |
| Protection efficiency                              | EN 12719                  | Data available on request                                     |
| Health, safety, environment                        |                           | INERT. No known health hazard. No precautions necessary       |



leach way, burma road, blidworth industrial estate, blidworth, nottinghamshire ng21 0ru  
tel 0115 965 6111 fax 0115 965 5151 email [sales@cordengroup.co.uk](mailto:sales@cordengroup.co.uk) web [www.cordengroup.co.uk](http://www.cordengroup.co.uk)

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