

Alderprufe Tuflex CO2

General Description

Alderprufe Tuflex CO2 - grey in colour, 0.75mm thickness, is a single layer cold applied geomembrane suitable for environmental protection to structures, containments and cut-off trenches.

Alderprufe Tuflex combines excellent chemical resistance with low flexural modulus to provide a malleable, flexible membrane suitable for non-smooth surfaces and factory prefabrication to optimise on-site installation.

Building Protection Membrane

Applied as a Gas Barrier Membrane to protect the building against the ingress of all land borne gases - Methane, Carbon Dioxide and Radon. Tuflex is laid in a single layer over a prepared site. Due to its inherent weldability and on site quality assurance monitoring, the membrane is recommended to be laid by trained operatives certified for the purpose. On smaller sites factory fabricated panels can be supplied for application by others. Applied to cover the whole of the slab area above Aldervent gas ventilation system if required.

All membrane penetrations (i.e. steel stanchions and service entry points) to be sealed with factory formed units welded to the membrane on site.

At all points where the membrane passes through load bearing walls, Alderprufe Tuflex DPC or GRA DPC is installed and welded to the overlying Tuflex membrane.



Protect finished membrane with Geotex or Alderway protection mats if following trades are erecting steel fabrication for slab reinforcement.

All punctures to be repaired by a minimum overlap of 150mm.

Cut-off Trench Containment

Alderprufe Tuflex has been successfully installed up to 8 metres deep as a vertical barrier to contain contaminants and gases on brown fields sites and around landfill.

Installed by accredited contractors.

Bespoke systems have been designed to suit site specific parameters.

Trilaminar membranes with exceptionally high puncture resistance are available.

Cut-off trenches for contaminant control, with large volume gas and liquid dispersal properties, are possible, utilising Alderprufe Geogrid, Geovoid, or Geocell systems. (see separate data sheets.)

In-service performance

The demands made on Alderprufe Tuflex in landfill, water containment or pollution control are considerable. The flexibility of Alderprufe Tuflex is due to the polymeric structure of the resin. There are no plasticisers in the Alderprufe Tuflex formulation that can be leached out by exposure to chemicals or sunlight causing the membrane to become brittle.

Design and Specification

All Alderprufe Tuflex systems carry Product Guarantee Insurance including efficacy cover. Bespoke system designs with third party accreditation including P.I. cover are available to the developer to offer full security and warranties.

Tuflex DPC

General Description

Tuflex/PCPT Highgrade polymeric Damp-proof/Gas-proof course is a flexible sheet material which is a composition of propylene copolymers.

Manufacture

The raw materials are balanced, milled and calendered to a standard strictly controlled, which includes checks on dimensions, strength, low temperature, flexibility and homogeneity.

Installation

Installation must be in accordance with the relevant

section of CP102: 1973 protection of buildings against water from the ground, and must follow normal good practice for the detailing of damp-proof courses, as set out in BS 5628: Part 3: 1985. and be in accordance with the manufacturers instructions.

Work can be carried out in all weather conditions normal to the construction of walls.

The dpc must extend through the full thickness of the wall or wall leaf: including pointing, applied rendering or other facing. The dpc must be laid on an even bed of mortar. Any perforations in adjacent courses of brickwork must be completely filled with mortar. All lap joints must have an overlap of 100mm and be completely sealed using double sided jointing compound or welded. When using this product with boot lintels or similar construction, it is recommended that the material is installed to follow the lintel profile.