

Gas resistant Cavity Closure Damp-proof Course Aldercourse GRA

Introduction

When used contiguously Alderprufe MR50 or GRA and Aldercourse GRA form a gas-retardant membrane and damp-proof course system for use on landfill sites and in other areas where protection from gases, particularly methane, CO₂ and radon is required.

Description

Aldercourse GRA is an aluminium cored damp-proof course, developed in combination with Alderprufe MR50 or GRA to provide a continuous "through the wall to floor" junction. Both products have a low permeance of methane and other gases including radon.

Composition and manufacture

Aldercourse GRA is a laminate of aluminium, high quality oxidised bitumen and hessian. It is surfaced with a light sand finish.

Uses

Aldercourse GRA is suitable for use as the associated damp-proof course particularly where resistance is required to the ingress of methane. It may be used in conjunction with Alderprufe MR50 or GRA and similar methane retardant membranes. If resistance to methane is a factor, great care must be taken with detailing on all parts of the structure.

Priming

All surfaces to which Aldercourse GRA is to be heat bonded, must be primed with one coat of Alderprufe Self Adhesive Primer at a rate of 0.1 to 0.3 litres per m² dependent on the porosity of the surface. The primer must be allowed to dry thoroughly before the application of membrane or DPC.

Application

Aldercourse GRA Damp-proof course should be laid on a wet mortar bed in accordance with British Standards Codes of Practice. All laps of Aldercourse to Aldercourse must be secured by heat bonding, and should be a minimum of 150mm. Laps between Alderprufe MR50 or GRA and Aldercourse GRA should be secured as follows:— The Aldercourse GRA dpc should extend onto the slab by a minimum of 150mm. The top surface of the Aldercourse GRA should be softened by use of a gas torch to allow the bitumen to become viscous. Alderseal Gastite Compound should be applied to the exposed surface. The Alderprufe GRA should then be applied to the top of the dpc and bedded into the Gastite compound.



Gas Barriers

Alderprufe MR

Description

Alderprufe MR self adhesive waterproofing membrane is intended for use in concrete, brickwork and 'block work construction, both internally and externally, to protect buildings against water and the ingress of methane and radon gases from the ground.

Uses

An oriented, cross laminated, high density polyethylene sheeting laminated to aluminium foil and coated with a bitumen/polymer adhesive compound for use in internal and external tanking to prevent the ingress of water and water borne aggressive salts, such as chlorides and sulphates, into concrete

structures.

Designed to reduce the passage of methane gas on sites such as reclaimed landfill and town gas sites. The membrane has a very low permeance of methane and other gases.

Benefits

Alderprufe MR offers the ease of application of a self adhesive membrane with total gas resistance by the aluminium foil. It provides economic protection in a single application without the need for taping strips at overlaps.