



Delta® range of waterproofing membranes

Delta Membrane Systems Ltd



A range of waterproofing membranes based on moulded HDPE sheets suitable for a wide range of waterproofing applications.

Introduction Delta Membrane Systems Ltd are the UK partners of Dörken GmbH & Co KG, one of the world's leading manufacturers of cavity drainage membranes. Their range of membrane systems provides waterproofing solutions for many types of applications, including refurbishment, conversion, basements, new build, retrofit, construction, tunnelling and civils. Delta can provide full technical support and consultation through all stages of a project.

Authority Delta Membrane Systems are the subject of Agrément Cert. 00/3742. All membrane systems are manufactured under a quality and environmental system in accordance with DIN EN ISO 9001 and EMAS EN ISO 14001. All geocomposite membranes are approved and conform to the requirements of CE EN 13252: 2000, DIN 18195 & DIN 4095, under certificate number CE 0799-CPD-13.

Applications and Description

Plaster-Lath is a damp-proofing membrane for walls that eliminates damp and the effects of salts and contaminated backgrounds. It comprises a Delta membrane with an integral mesh key which acts as a key for render, plaster or dab fixing plasterboard. The air gap may be vented externally by an air vent or internally using the PT profile strips at the top and bottom.

Delta-FM is a damp-proofing membrane for floors and is suitable for new build, remedial or refurbishment projects. It may also be used on walls. It comprises a Delta membrane with a special low stud profile that minimises changes in floor levels but still provides an air gap to achieve damp pressure equalisation.

Delta-MS acts as a sub-base damp-proof membrane and vapour barrier; it comprises a single Delta membrane.

Delta-MS 20 is a high performance, heavy-duty drainage sheet for use in basements, underground structural applications and in construction works e.g. as permanent shuttering between a concrete structural wall and a shotcrete outer shell or diaphragm wall. It may be installed horizontally or vertically. A perforated version for use as an intermediate layer on roofs is also available. It comprises a single Delta membrane.

Delta-Drain is a high performance drainage system that provides full

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surface drainage around underground structural components. It drains off incoming water, filters out suspended soil particles and provides secure, durable protection. It comprises a double-dimpled Delta membrane and an integrated geotextile mat.

Delta-NP-Drain is a vertical drainage system for use in underground structures, retaining walls and cut and cover tunnels. It drains off incoming water and filters out suspended soil particles. It comprises a Delta membrane and an integrated geotextile mat.

Delta-PT is a damp control membrane and drainage layer. It comprises a Delta membrane with a welded mesh that provides a key for plasters, renders or board finishes.

Delta MS-500 is a damp control membrane for use on both walls and floors where there is light water ingress; a transparent version is available. It comprises a single Delta membrane.

Delta-Geo-Drain Quattro is a four layer, integrated system for secure protection and drainage of any waterproofed surface. It comprises a micro-perforated slip film, a laminated cloth back-up drainage layer, a 9 mm dimpled drainage cavity and a geotextile filter mat.

Delta BS 6515 Polythene DPC is a general purpose DPC manufactured from virgin polyethylene, which conforms with BS 6515.

Delta high performance DPC is manufactured from thermoplastic copolymers and is suitable for all situations where high performance is required.

Delta Gas Resistant DPC when installed correctly is completely airtight. It is a high performance polymeric material and provides protection against the entry of gases when sealed to both the slab membrane and through the cavity.

Delta High Performance Preformed Units are manufactured from a high performance polymeric material and are high frequency welded to form any profile.

INFORMATION COMMON TO ALL PRODUCTS

Composition, manufacture

Delta membranes incorporate a series of studs and are moulded from high performance, high density polyethylene. Geotextiles are of polypropylene. Slip films are of polyethylene.

Accessories comprise:

Delta Plug - a glass-filled, nylon fixing for use on masonry substrates,

Delta Tape - a black butyl rubber



tape for sealing membrane joints,

Delta Rope - a black butyl rubber beading for sealing the membrane around pipes etc.,

Delta Mastix - an acrylic sealant for sealing the membrane around pipes and openings,

Delta Corner Strip - a self-adhesive membrane strip for sealing junctions at corners, joints and other details,

PT-Lath Plug - a polypropylene fixing, for use on masonry substrates, also available with pre-applied waterproof grommet,

Delta Cob Plug - an expanding fixing with pin, for use on soft or friable backgrounds,

Qwik-Seal Plug - a fixing for use on masonry and concrete substrates. Has a pre-applied waterproof seal.

PERFORMANCE

Chemical Delta membranes exhibit excellent resistance to common chemicals.

Heat Service temperature range is -30°C to +80°C.

Durability Life expectancy is in excess of 50 years. The Agrément Cert. states that 'Under normal conditions of use, the products will provide an effective barrier to the transmission of salts, liquid water and water vapour for the life of the structure in which they are installed.'

ECONOMICS

Guarantees Delta offer a 30 year product warranty. Guarantees for the installation work can be arranged through Delta Registered Installers.

SUPPLY

All products are supplied direct through the company or their appointed distributors. For specialist waterproofing, the systems are offered on a supply and fix basis through a network of Delta Registered Installers.

SERVICES

Delta provides full technical support and site visits and can be consulted through all stages of a project. Technical literature is available, including an installation code of practice and a CD-ROM of CAD drawings to aid specification.

REFERENCES

Other products include:
Delta Sump+Pump Stations - preformed pumping stations for the collection of excess groundwater, light wells, grey water or foul drainage;
Delta drainage channel - a preformed perimeter drainage channel, to collect and evacuate water to a sump or soakaway;
Delta Aquaduct 60/100 - is a drainage channel which acts as a perimeter conduit. It is fully perforated and is wrapped in a geotextile filter mat. Aquaduct is available in 60 mm and 100 mm diameters;
Delta®-Gas Barrier System - offers protection from the radiation of radon and also CO₂. When used with **DELTA® Gas Resistant DPC** and preformed units - the system offers a completely sealed solution to penetration of gases and ingress of dampness from below ground and through cavity walls. Conforms to BR 211, BR 212, and Building Regulations Approved Document C.

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