

SLIMLINE MESH

Cavity drainage membrane with a mesh lathing suitable for plasters

Description

Slimline Mesh is a high density polyethylene membrane incorporating 3mm studs which allows the isolation of wet walls above and below ground. Incorporates a tough HDPE mesh lathing welded to the front face to allow the direct application of various plaster finishes or adhesive 'dabs' and plasterboard. Also suitable for use on floors above ground to be screeded or in conjunction with Kontract 8 below ground.

Note: in basements where the walls are particularly wet (running water)

we recommend the use of Kontract 8 on walls and floors (see separate data sheet).

Slimline Mesh has the following properties:

- Stud height 3mm, drainage volume 1.56 litres/m²
- Excellent low and high temperature stability
- 300 kN/m² load bearing capacity
- High durability and water resistance

Specification

Slimline Mesh is suitable for use in accordance with BS 8102:1990 to provide Type 'C' drained protection to structures below ground giving a Grade 3 or 4 dry environment suitable for domestic or commercial use. In basements it is essential that Slimline Mesh is used in conjunction with a suitable sump and pump facility (unless passive drainage is available on one side of the building) and that this is maintained throughout the lifetime of the installation. To control the risk of condensation it is recommended that all basements should be provided with mechanical ventilation to ensure adequate air circulation in accordance with the guidelines in Approved Document F (Building Regulations 2005).

Installation instructions

1.0 Preparation

Where Slimline Mesh is used above ground as a permanent barrier to moisture and/or salts it is recommended that sources

of moisture such as rising and penetrating damp are isolated before commencing. Ensure all wall surfaces are free from sharp protrusions and reasonably level. If 'dubbing out' to provide a flat surface allow the background to develop full strength before proceeding. In new basements ensure enough time has been allowed for the structure to develop sufficient strength before installation. In existing basements remove any unsound plaster, laitance, salts etc. and make good. If mould or masonry fungi are present the substrate should be treated with an appropriate fungicidal wall solution (e.g. Wykabor 10, Wykabor DB).

Water entering basements must be able to drain freely to a point of removal. This requires that there should be a free fall towards the outlet point or a drainage channel made around the perimeter of the floor. In all cases the design of the drainage provision should be checked before laying the floor membrane by a FLOOD TEST after which no ponding of water should be evident to a depth of more than 5 mm at any point. Further advice concerning drainage design and sump/pump installations is available from the Wykamol Technical Department.

If jointing is necessary butt the two edges together and over seal with Wykamol fibre tape.

2.0 Membrane installation

Once the first length of membrane is fixed butt the second piece up side by side and overseal using Wykamol fibre tape. Slimline Mesh is fixed to the wall by drilling through the membrane studs to a depth of 50 or 70 mm using a 8 mm drill bit and gently hammering home the Plaster Plugs which have Wykamol Rope applied around the shaft to form a water proof seal between the fixing and the membrane surface. Intervals between fixings should be not less than 250 mm, slightly more near joints and if the surface is uneven. When fixing the membrane it is essential to keep the sheet tight to the wall surface (no 'bulges') at all times.

When dealing with internal and external corners cut and fold the membrane as necessary and re-seal cut edges and any inserted pieces using Tape, Overtape and/or Wykamol Corner Detail. In the case of door/window openings where the thickness of the membrane may cause problems in regard to standard frame dimensions etc. Slimline Mesh can be bonded to standard DPC material placed within the reveal, itself fixed to the wall using Plaster or Brick Plugs (as above).

The DPC membrane should be run under Slimline Mesh to create an overlap of ca. 100 mm before sealing the joint using Wykamol Rope.

Services or pipework penetrating through walls lined with Slimline Mesh can be joined to the membrane by using Wykamol Rope to seal the gap (5 – 10 mm) and overlaying a patch of Mesh membrane sealed to the service with Rope and Overseal Tape.

2.1 Floors and Wall/Floor Joints

Slimline Mesh is rolled out down over the floor (no fixings) and sealed. Butt joints are sealed using Overtape. At wall/floor junctions the membrane can be cut flush and the gap sealed using Corner Detail. Alternatively, where a wall membrane is not being installed, the floor membrane can be returned up the wall by c. 100 mm and cut flush with the top of the finished floor.

Regular maintenance of all gullies, sumps and pumps must be conducted to ensure that a build-up of water does not occur behind the membrane.

Above DPC level Slimline Mesh can be left as an 'open' or ventilated system with water vapour vented to the room (this is facilitated by leaving a 10 mm gap at the top, and a 20 mm gap at the bottom of the wall then finishing with off-set or ventilated coverings/skirting).

Finishing

3.0 Ventilation

Slimline Mesh cavity drainage membrane can provide a dry, warm and habitable living space in basements and other areas suffering chronic damp conditions.

However, it is equally important to ensure that areas which lack natural

ventilation are provided with adequate means of condensation control, especially in wet areas such as kitchens, bathrooms etc. This is normally best dealt with through the provision of an effective mechanical ventilation system (please consult the Wykamol Technical department for further advice).

3.1 Walls

Slimline Mesh can be finished in accordance with normal plastering techniques (BS 5492:1990) using proprietary lightweight plasters e.g. Wykamol renovating plaster, Tilcon 'Whitewall', Thistle 'Carlite Bonding', or a 1:1:6 cement:lime:sand render. The first coat should be applied to just fill the studs and cover the mesh.

This should be scratch finished and allowed to set before applying a second coat to a final overall thickness of 15 mm and 3 mm skim to finish. For dry lining use a conventional bonding plaster in dabs to a minimum thickness of 8 mm and covering at least 50% of the membrane surface area. After the plastered, drylined or rendered surface has dried, the surface can be painted or wallpapered

using traditional methods and materials without delay. Wall-mounted fittings which necessitate holes being made in the membrane should only be considered in above ground applications and the gap between the fixing and the membrane sealed using a water resistant flexible sealant such as Wykamol Mastic.

3.2 Floors

If required, expanded polystyrene insulation boards are laid over the membrane prior to laying T&G floorboards or screeding in accordance with BS 8204-1:2003 (minimum 50 mm). Proprietary anhydrite screeds may also be suitable and allowscreed thicknesses less than 50 mm.

Product Data

Slimline Mesh is available in rolls as follows:

1.0 x 30 m = 30 m² (yellow)

2.0 x 30 m = 60 m² (yellow)

For each roll of membrane a range of ancillary products will normally be required namely Tape, Rope, Mastic, Plaster Plugs, Corner Detail, Fibre Tape. The quantities can be advised at the time of ordering based on the project details and ratio of floor to walls etc.

In basements special measures may be required to create suitable drainage to assist the removal of water to the sump location. Our technical department will be pleased to give advice in this area (Aqua Channel, Aqua Drain, Sump kit etc.).

4.1 Storage

Rolls of Slimline Mesh and all ancillaries should be stored on site in dry conditions away from sharp objects, direct sunlight and high temperatures. Keep Slimline Mesh away from areas where naked flames may be used.

4.2 Health & Safety

No specific hazards are likely to arise in the use of Wykamol Slimline membranes or ancillaries (neither the membrane nor tapes mentioned in this Data Sheet are classified as hazardous in respect to CHIP II Regulations 1999). However, general precaution should be exercised in the use of drills etc. taking particular note of the special risks associated with confined spaces (basements) with restricted means of access/egress.

Technical Advisory Service

The Wykamol Group are committed to excellence in product design and manufacture and the information provided in this data sheet is intended to guide professional contractors and specifiers in the appropriate use of Slimline Mesh to ensure a successful basement tanking or damp proofing project. If any further advice is required please consult our Technical Department who will be pleased to answer your questions and/or recommend a contractor able to provide a full design and installation service.



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