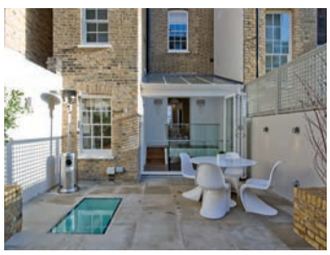
Wykamol GROUP LIMITED

Waterproofing Membranes

FOR ABOVE AND BELOW GROUND WATERPROOFING APPLICATIONS







Basement Waterproofing ASSOCIATION

PCA Property Care ASSOCIATION

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Wykamol – Waterproofing is in our heritage

The Wykamol Group has been involved in waterproofing applications for over 40 years and was a founder member of the British Wood Preserving and Damp Proofing Association.

When it comes to waterproofing applications, the Wykamol Group has a huge range of products, from cement-based tanking powders to specialist epoxy coatings. In recent times however and since the changes to BS8102, cavity drain membranes have fast become the choice for most contractors in the UK marketplace.

Easy to use and less problematic than other solutions, these systems can be used in a variety of applications above and below ground.

When specifying waterproofing in today's marketplace care must be taken to look at all implications of issues surrounding the property.

Being able to access systems to repair them if a problem arises is another reason that cavity drain membranes have gained popularity. This use, internally, as a dual system is fast becoming standard practice for professionals within the construction industry.

Cavity drain membranes have also become the number one choice for builders and developers tackling damp issues above ground.

When dealing with salt and damp related issues, allowing the wall to breathe behind a cavity drain membrane has become the approach that most contractors take to such problems today; isolating any dampness issues within the structure.

Issues of dense renders and long drying times have been almost eliminated by the use of cavity drain membranes.

There membranes are also useful in heritage projects. Specifiers may wish to return back to the original structure at a later date. Membranes give the professional that option as well as allowing the walls to breathe in structures where dense renders would cause issues.

We have a team of 11 professional technical experts across the country who can give advice and access problems of dampness in structures whether that is a basement in a flooding situation or a listed building with dampness issues above the ground. Wykamol is there to give advice and design a repair strategy that satisfies the owners requirements.

This brochure covers all the cavity drain membranes that we currently sell in the UK and European market places.

Please feel free to contact us on the numbers you would like any technical help.

Wykamol GROUP LIMITED

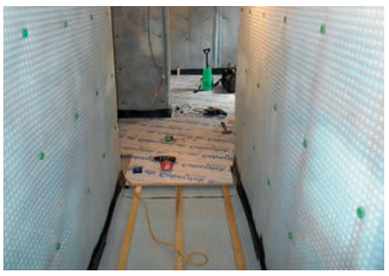
Understanding waterproofing membranes

Traditional methods of basement waterproofing such as cement based renders, often referred to as 'basement tanking' have become are becoming less reliable as water table levels have risen and increased hydrostatic pressure on properties.

The new, increasingly popular solution is to apply a Polyethylene sheet material, described as a Cavity Drain Membrane which, provided the substrate is suitable, can be directly applied with little preparation to the walls. Cavity membrane is both vapour proof and impervious to water and provides additional insulation value.

Before the membrane is fitted, a drainage provision is installed to ensure quick and efficient evacuation of any water ingress, returned behind the membrane. Internal finishes of insulation and plasterboard or plaster and render products are applied to the front of the membrane to provide a dry and well insulated living area.

Correctly installed by approved contractors and with ongoing routine maintenance of drainage channels and pumps, these systems can last the lifetime of the property. Contact us for more information and help with your basement conversion.

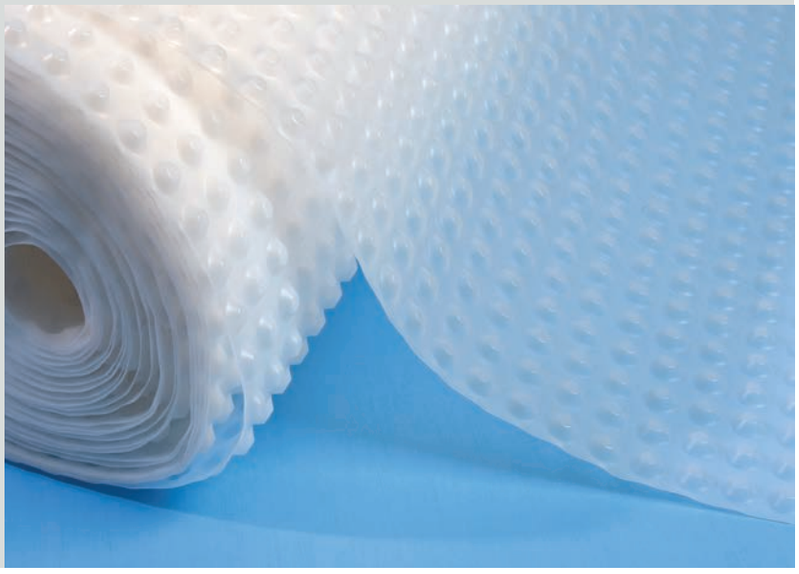


Product

CM8 - 8mm

Waterproofing membrane

For use on walls, floors, vaults and tunnels with minimal surface preparation required. Also suitable for external foundation waterproofing and to provide insulated dry lining for walls above ground level that may not be suitable for conventional plaster finishes.



Wykamol CM membranes are suitable for use in type 'C' (drained protection) structural concrete constructions in accordance with BS 8102:1990, clause 3.2.4.

Wykamol CM8 is a medium capacity drainage membrane (4 litres/m^2) for floors and walls both above and below ground level. When used on basement floors it is recommended that perimeter drainage channels are provided to optimise the flow of ground water towards the sump location (see separate data sheet **'Wykamol Drainage Solutions'**).

Wykamol CM8 is used in a dry lining application. Various systems can be used in the head of the fixing plug, from timber battens to steel dry lining systems.

This membrane is easy to roll out against wall and floor structures and can be fixed in horizontal lengths or in vertical strips.

This is our most popular membrane in basement waterproofing due to its universal ease of use.

FIXING

Wykamol CM8 Membrane is installed with studs against the underlying structure. Fixing to walls is carried out with Wykamol Brick Plug in the centre of the stud. Take care when drilling holes to avoid excessive masonry dust falling in to the cavity.

Available sizes:

2x20mtr

2.4x20mtr

Key benefits

Can create a dry habitable living space in areas previously suffering from damp/wet conditions.

Little to no damage to existing structure.

Quick to install- minimal preparation needed to wall surfaces, avoiding mess and saving time and money.

Easy to bend and cut with scissors to form around windows, doors, services etc.

No delays to decoration as there is no drying process.

Waterproof, salt resistant, root resistant and contaminant resistant

Low and high temperature tolerance.

Associated products

Brick Plugs

Double tape

Rope

Corner detail

See www.wykamol.com

Technical Data

Raw material:
HDPE

Sheet thickness:
nominal 0.50mm

Stud height:
approx. 6.5mm

Construction height:
approx. 7mm

Unit weight:
0.45 kg/m2

Deformation under long term loading: max.
20% (at 50 kN/m2)

Compressive strength:
150 kN/m²

Working temperature:
–10° to +60°C

Softening temperature:
+160°C

Linear coefficient of thermal expansion:
0.18 mm/m.°C

Water vapour resistance:
280 m equivalent air layer

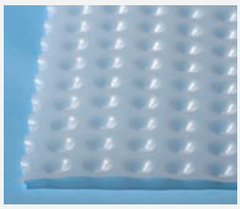
Air gap volume:
4.0 l/m2

Drainage capacity:
approx. 3.8 l/sm

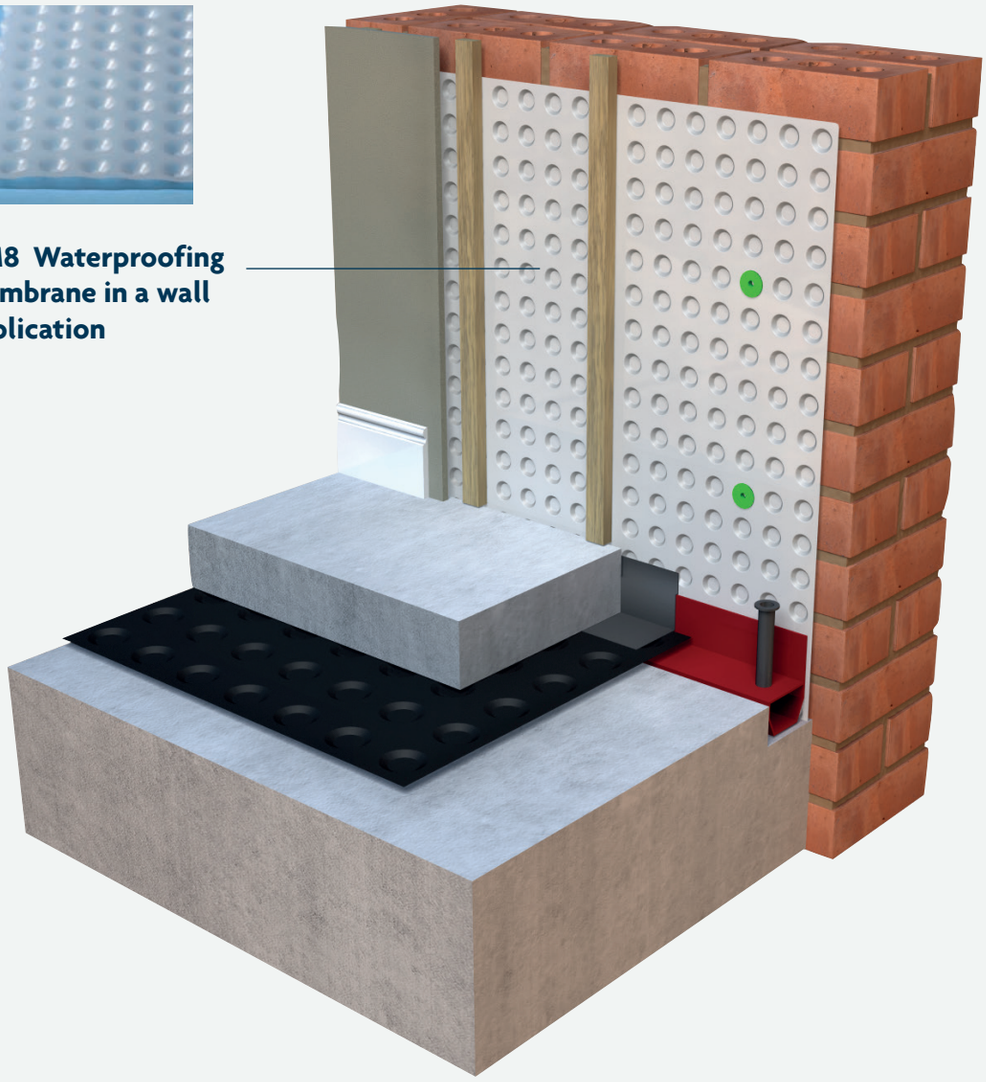
No. of studs:
approx. 1640 per m2

Life expectancy:
at least 50 years for defined applications

Colour:
natural



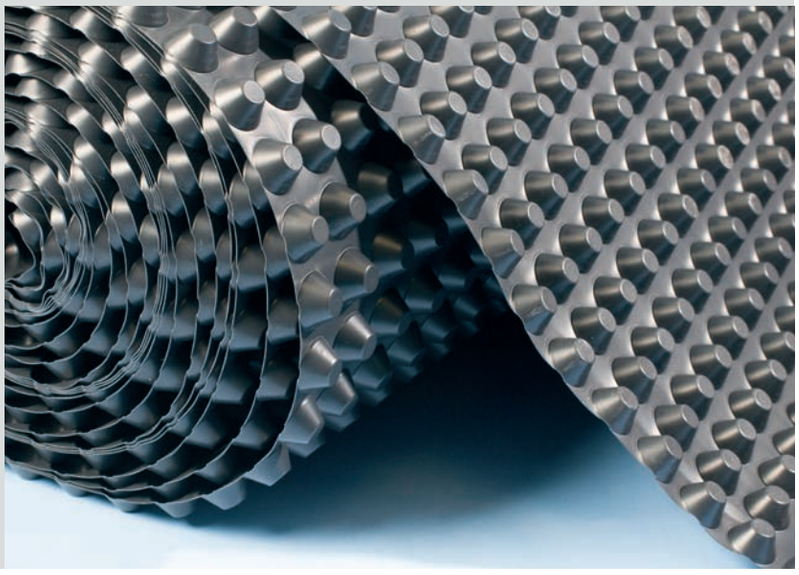
CM8 Waterproofing membrane in a wall application



Product

CM20 High Capacity
Waterproofing Membrane

For use on walls, floors, vaults and tunnels with minimal surface preparation required. Also suitable for external foundation waterproofing and to provide insulated dry lining for walls above ground level that may not be suitable for conventional plaster finishes.



Wykamol CM membranes are suitable for use in type 'C' (drained protection) structural concrete constructions in accordance with BS 8102:1990, clause 3.2.4.

Wykamol CM20 is the highest drainage capacity membrane in the CM range giving a void volume of 14 litres/m^2. Suitable for use on floors and walls in very wet situations or where the large stud height is desired to maximize insulation values. When used on floors CM20 can normally be installed without the need for perimeter drainage channels and, when overlaid with concrete, the large diameter studs will give high point load resistance capabilities (180 kN/m^2) to support load-bearing walls built off the slab.

FIXING
Starting at one side of the room, unroll the membrane with the studs down and cut to fit the room as one would fitting a carpet. The next membrane width is rolled out so that the flanged edge overlaps onto the edge of the previous roll of membrane. Clean both edges. Wykamol tape is then applied to the high flat area between the first two studs at the edge of the previous roll of membrane with the backing paper still intact. Check the two widths for alignment, with the flange covering the backing paper. Starting from the end of the joint, remove the backing paper and press down on the joint, sealing the two sections together.

Available sizes:
CM20 – 2.0 x 20m
Including flat overlapping edge (flange) without studs, working area approx. 40 m2.

Key Benefits
Fast to install and lay

Internal load bearing walls can be built on the membrane once screed is added

High water movement capacity

Various floor finishes can be used on top of the membrane

Can be used with various drainage systems

Resistant to all salts and contaminates

Can be used with all insulation floor systems

Associated Products
Corner strip

Double tape

Rope

See www.wykamol.com

Technical Data

Material:
recycled HDPE

Colour:
black

Area weight:
approx. 1,000 g/m²

Thickness:
approx. 0.9 mm

Available widths:
2m and 2.5m

Roll length:
20m

Dimple height:
20mm

Number of dimples:
approx. 400 per m²

Void volume between dimples:
approx. 14 l/m²

Drainage capacity:
approx. 10 l/s m
approx. 600 l/min m
approx. 36.000 l/h m

Compressive strength:
approx. 240 kN/m²
(24 t/m²)

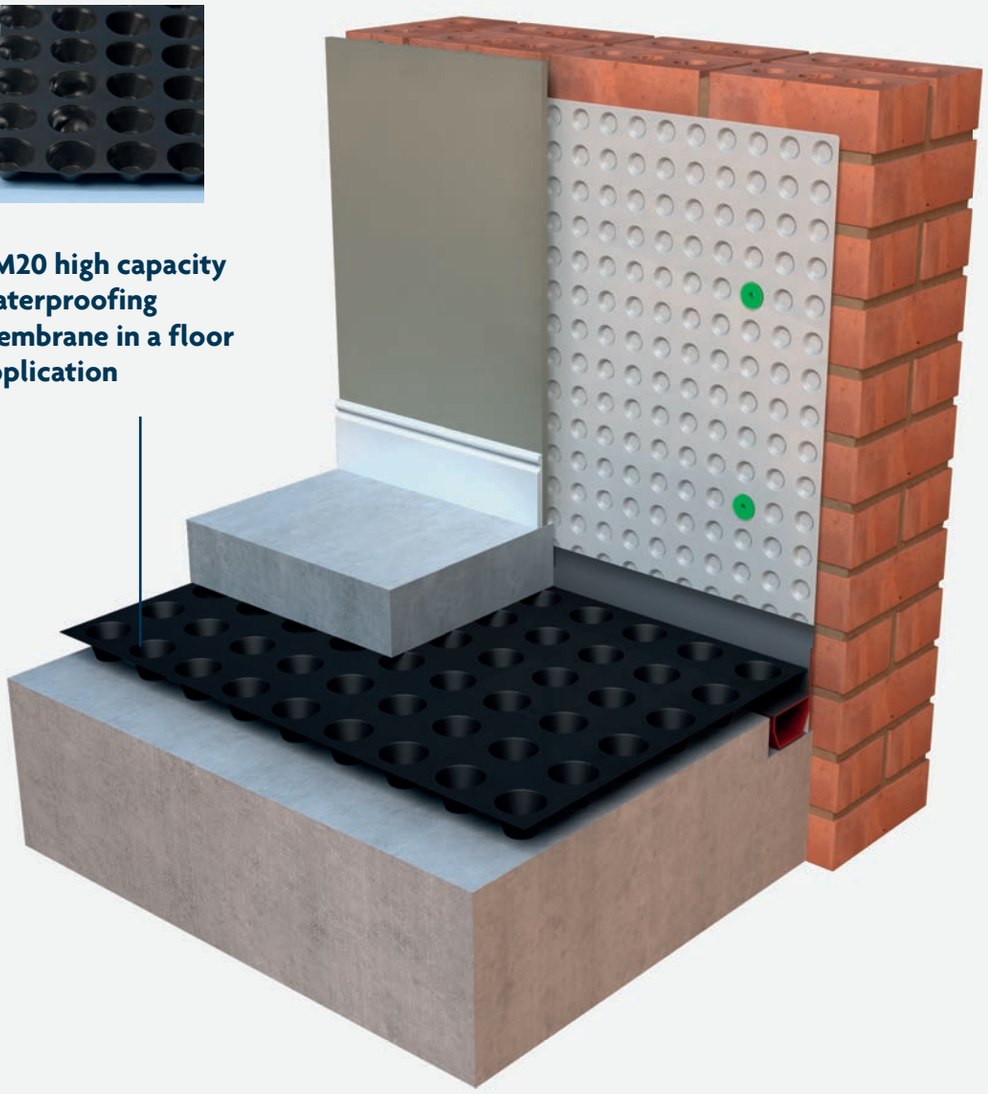
Tensile strength:
approx. 14.5 kN/m (EN ISO 10319)

Elongation at maximum strength:
approx. 68 %

Service temperature range:
-40 °C to +80 °C

Physiological properties:
non-polluting for drinking water

CM20 high capacity waterproofing membrane in a floor application



Product

SureProof New build waterproofing membrane

SureProof is a high performance, cold applied, flexible waterproof membrane incorporating a cross-laminated HDPE carrier film with a strong adhesive polymer modified bitumen compound. The adhesive surface is protected by a disposable paper interleaving, wider than the membrane for easy release during application. To ensure correct sealing at overlaps there is a double-sided adhesive strip along the edges covered by a separate interleaving strip.

Available sizes:

1m x 20m

SureProof should be laid in accordance with the provisions of BS 8102:2009. Where SureProof is used as a floor DPM there should be continuity with the wall DPCs and other DPMs used in the structure. If methane presence is suspected, a comprehensive site survey should be carried out and Wykamol's technical department contacted to advise on suitability of SureProof.

FIXINGS

All surfaces must be clean, dry and free from contamination, ice and frost.

Masonry surfaces must be flush pointed and all concrete surfaces must be a wood float or shutter finish and free from cavities or projections.

All surfaces shall be primed with SurePrime. Follow application instructions on SurePrime technical datasheet, ensure complete coverage and allow to dry. Very porous surfaces may require more than one coat of primer to ensure the area is primed.

SureProof can be applied in the same day. Application temperature range with SurePrime : 5 °C to 35 degree C.

Key benefits

Resistant to ground water, soluble sulphates and chlorides

Suitable for waterproofing basements grades 2 and 3 as defined in BS 8102:2009, 'Protection Of Structures Against Water From The Ground'

Cross-laminated HDPE film for protection against damage

Dimensionally stable

Tough and flexible; ideal for detailing around corners

Self-adhesive layer system makes installation easy, quick and reliable.

Associated products

SurePrime MT, SureProof reinforcing tape and SureProof protection board.

See www.wykamol.com

Technical Data

Thickness: 1.50mm

Length: 19.05m

Width: 1.05m

Mass: 1650 g/m^2

Roll weight: 33kg

Water tightness to liquid water (60 kPa) - pass

Resistance to static load: Kg ≥ 20

Tensile properties: maximum tensile stress CD N/mm^2 ≥ 2.5

Tensile properties, maximum tensile stress MD N/mm^2 ≥ 2.5

Tensile properties, elongation at break MD % ≥ 130

Tensile properties, elongation at break CD % ≥ 130

Durability of water tightness against ageing (60 kPa) - Pass

Durability of water tightness against chemicals (60 kPa) - Pass

Resistance to impact ≥ 500 mm

Resistance to tear (nail shank) CD N ≥ 100

Resistance to tear (nail shank) MD N ≥ 100

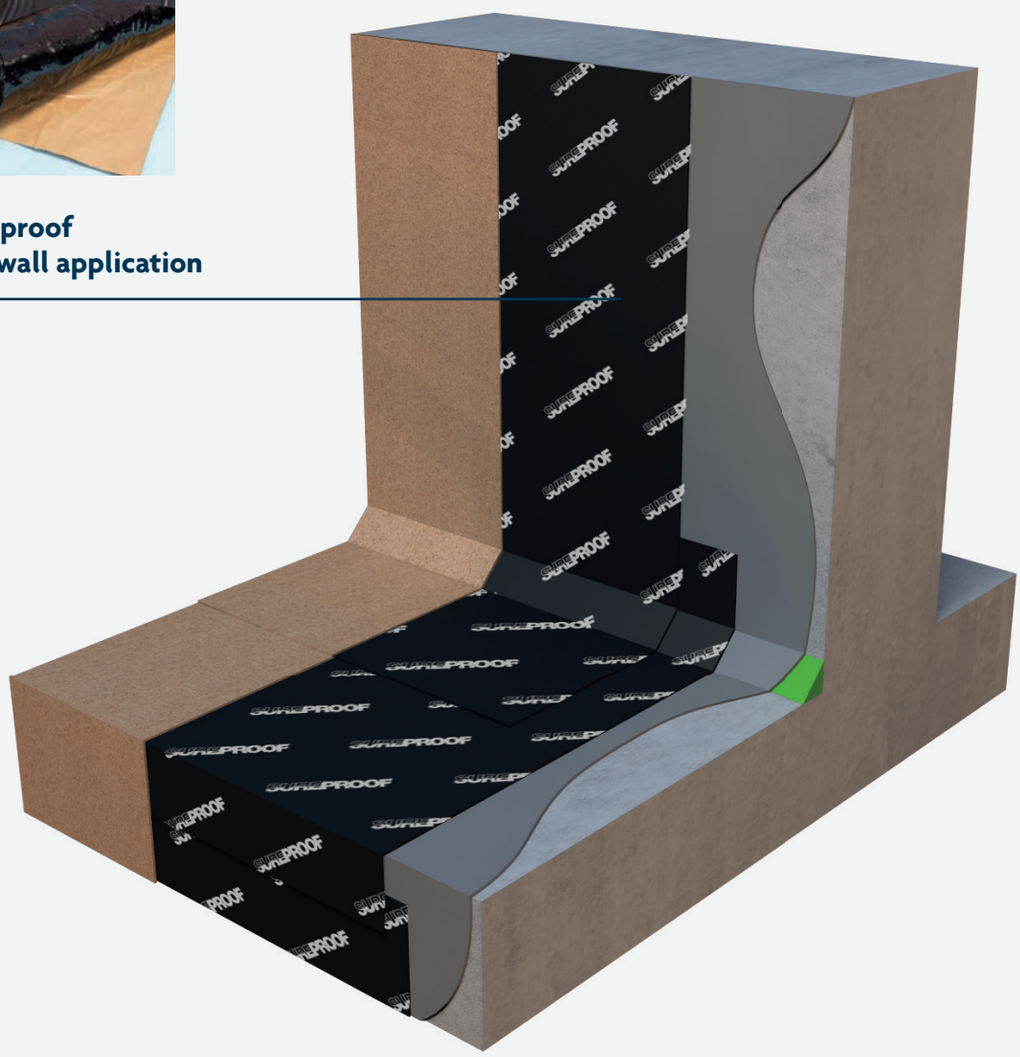
Reaction to fire euroclass class F

Joint strength N ≥ 30

Water vapour transmission (density flow rate) g/(day/m^2) 0.09

Water vapour transmission (resistance factor, μ) μ 220000

Sureproof in a wall application

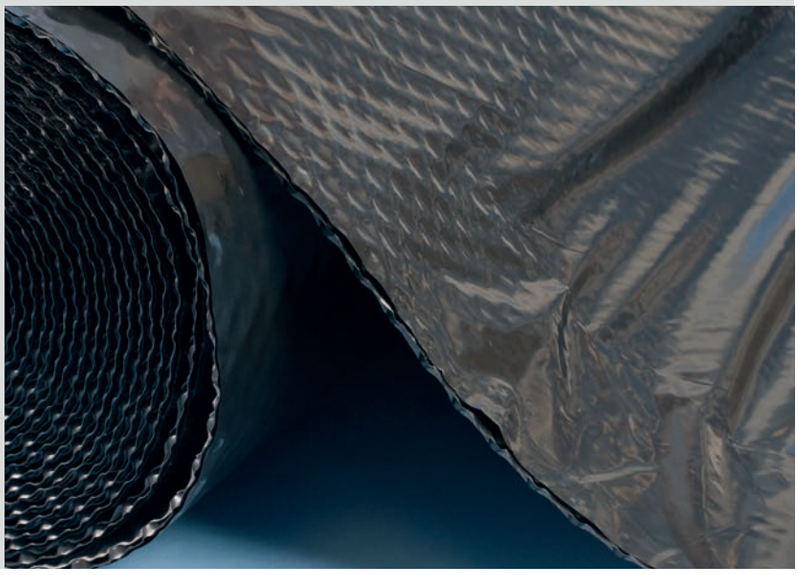


Product

GEOTEX External

Waterproofing membrane

Wykamol Geotex is a twin-layered cavity drain membrane designed to manage ground water to the land drain, relieving pressure from the structure. In below-ground waterproofing applications, the primary function of Wykamol Geotex is to divert water away from the structure. It can also act as a barrier against ground gases, like Radon and methane.



Available sizes:

2m x20m (40m^2)

Wykamol Geotex is typically used to isolate and protect the structure from the surrounding soil and relieve hydrostatic pressure by promoting the flow of ground water away from the face of the structure. Wykamol Geotex provides excellent protection from root penetration, and can also increase the structure's thermal insulation.

Typical installations include external tanking, retaining walls, podium decks, and green roof applications.

Fixing

Geotex can be applied vertically or horizontally as required. Ensure overlap joints between sheets of 450 mm vertical and 150 mm horizontal (the geotextile can be pulled back to allow studs to overlap). When fixing horizontally, place the lower sheet first. Use Wykamol Tape to seal joints at overlaps.

Note: taped joints are not designed to be waterproof against standing water; therefore it is important to ensure all overlaps are flat and even, and water in the drainage layer flows freely to the base of the wall.

Ensure the membrane extends to, or just below the level of, the Aquadrain pipe, and the pipe is fully encapsulated in a granular infill and placed below footings/internal floor level.

Key benefits

Suitable for use with all construction types.

Drains off water before reaching the waterproof coating.

Combined drainage and protection board.

Easy handling, rapid installation.

Rugged, durable construction with thermal insulation benefits.

Filtration layer prevents silting-up.

High drainage capacity.

Allows back-filling with excavated earth.

Withstands stress and movement in the background.

Associated products

Fixing Plugs

Fibre tape

Rope

See www.wykamol.com

Technical Data

Material:
layer 1 - HDPE
layer 2 - PP

Weight:
900 g/m2 (22.5kg per roll)

Studs:
height 8mm,
spacing 1860 m^2

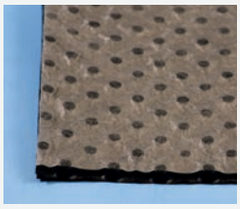
Drainage:
4.6 Lt/sec/m, 276 Lt/min/m, 16,600 Lt/hour/m

Permeability: Geotextile transmission rate: 100 Lt/m2/sec

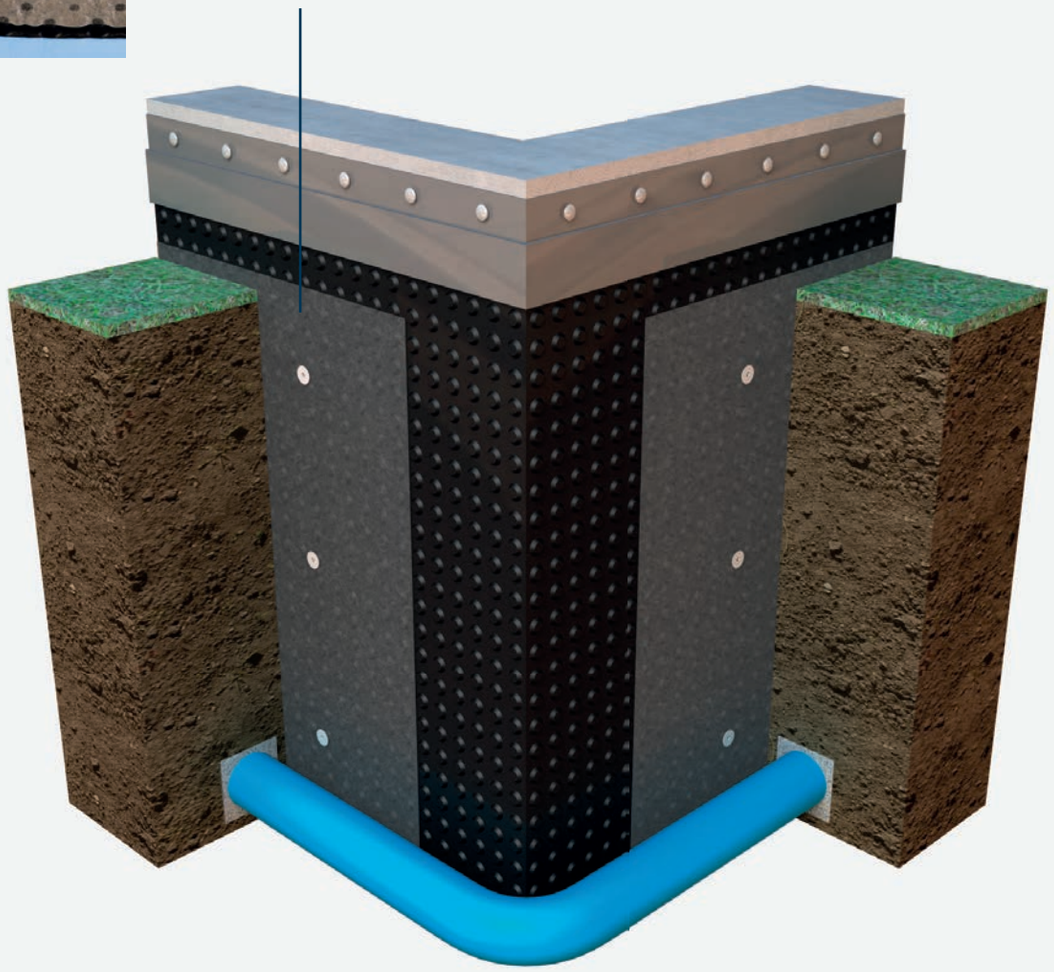
Strength Compressive:
250 kN/m^2
(25 tonnes/m^2)

Temperature
service range -40°C to +80°C

Safety
Geotex and associated materials are not classified as hazardous according to current labelling regulations but please note that care is required when working below ground in confined spaces and when using drills/hammers etc. in these circumstances.



Geotex waterproofing membrane in a wall application

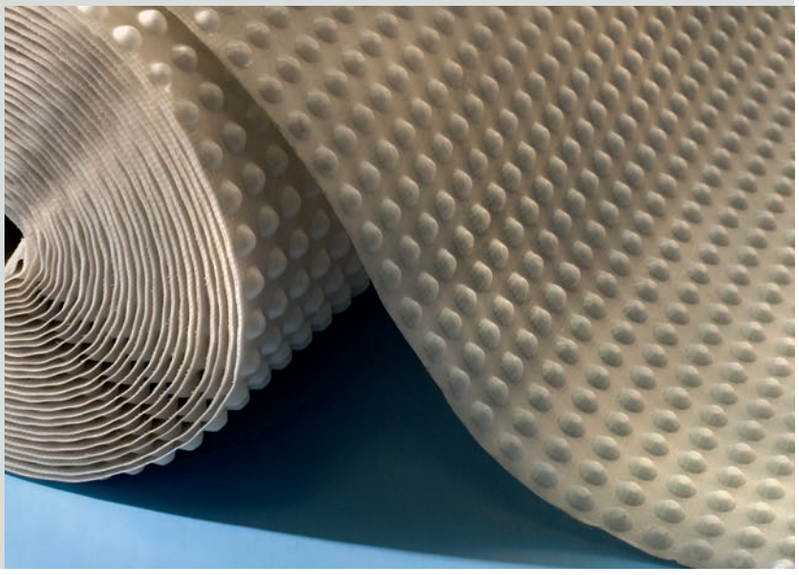


Product

KONTRACT MESH

Plaster membrane

Kontract 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.



Kontract Mesh is a high density polyethylene membrane, incorporating 8 mm studs which allows the isolation of wet walls above and below ground.

It 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.

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).

FIXING

Kontract Mesh is fixed to the wall by drilling through the membrane studs to a depth of 50 or 70mm using a 8 mm drill bit, and gently hammering home the Plaster Plugs with seals to form a waterproof seal between the fixing and the membrane surface. Alternatively, Plaster Plugs with Wykamol Rope around the shaft can be used.

Intervals between plug fixings should be no greater than 250mm to ensure a tight fix to the wall. Near lap joints and where the surface is uneven, the centres should be less than 250mm. When fixing the membrane it is essential to keep the sheet tight to the wall surface (no 'bulges') at all times.

Available sizes:

2m x 20m = 40m^2 (translucent/white)

2m x 10m = 20m^2 (translucent/white)

Key benefits

Stud height 8 mm, drainage volume 5.5 litres/m^2

Sheet thickness 600 _m, density 0.7 kg/m^2

Excellent low and high temperature stability

150 kN/m^2 load bearing capacity

High durability and water resistance

Associated products

Plaster plugs
Double tape
Rope
Corner Strip

See www.wykamol.com

Technical Data

Colour: white

Weight: (kg) 28.00kg

Raw material: high density polyethylene

Thickness: 0.60mm

Stud height: 8.00mm

Compressive strength: N/A

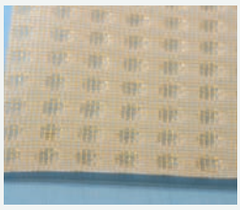
Wall and soffit membrane only

Thermal resistance: 0.078m² K/W

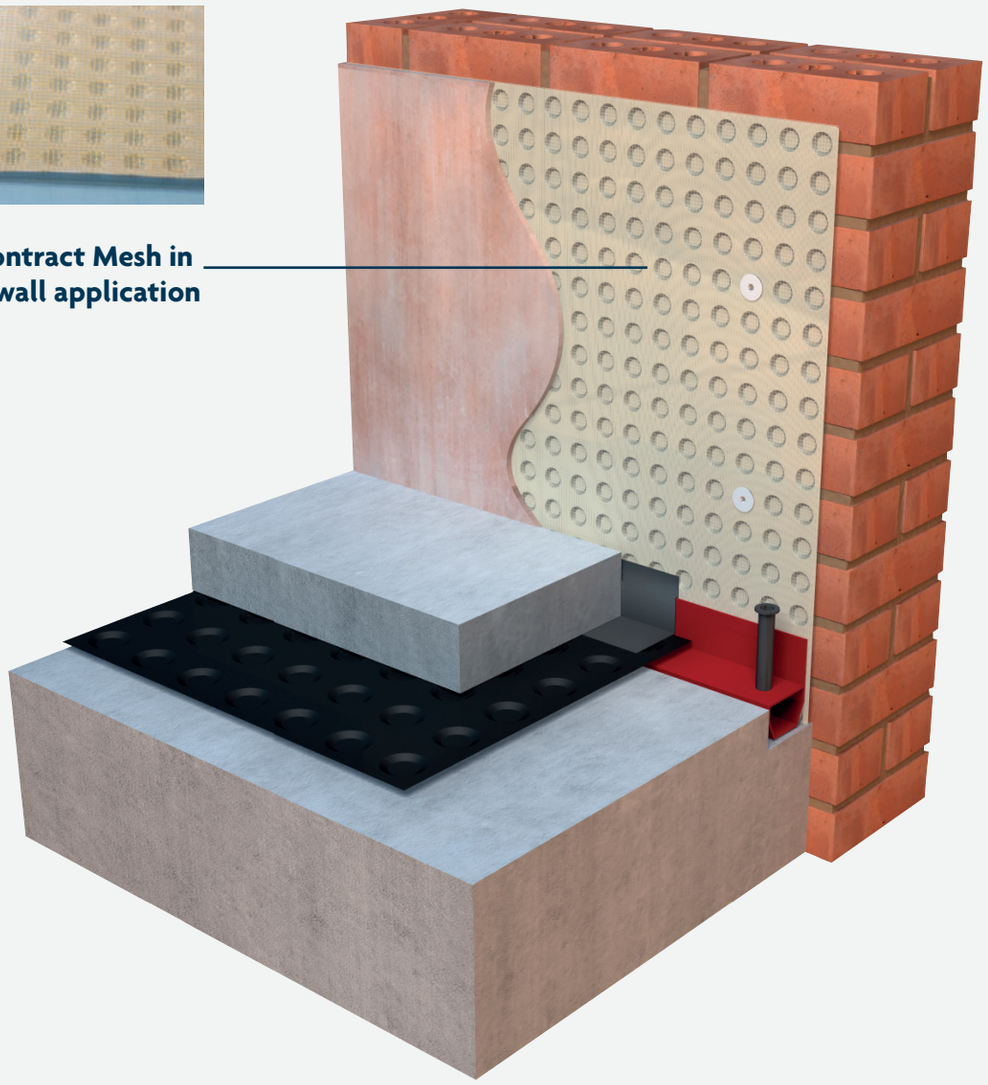
Vapour permeability: 0.046g/m² x hr x mmHg
Thermal conductivity: 0.461 W/m K

Air volume between studs: 5.51 l/m²/s

Drainage capacity: 4.61 l/m²/s



Kontract Mesh in a wall application

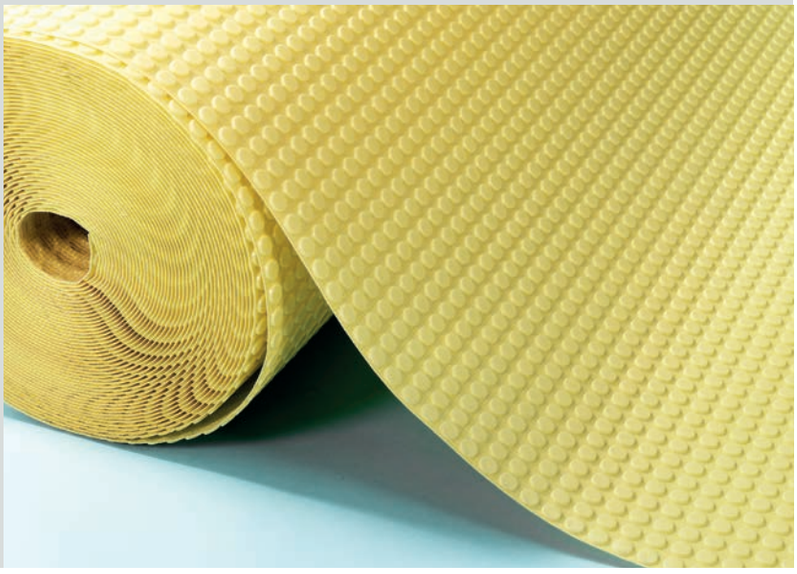


Product

SLIMLINE MESH

Plaster membrane

Slimline Mesh is a high density polyethylene membrane incorporating 3mm studs which allows the isolation of wet walls above and below ground. It 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.



Available sizes:

1m x 30m = 30m^2

2m x 30m = 60m^2

Key benefits

Stud height 3mm, drainage volume 1.56 litres/m^2

Excellent low and high temperature stability

300 kN/m^2 load bearing capacity

High durability and water resistance

Associated products

Plaster Plugs

Fibre tape

Rope

Corner detail

See www.wykamol.com

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).

FIXING

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 70mm using a 8mm drill bit, and gently hammering home the Plaster Plugs with Wykamol Rope applied around the shaft to form a waterproof seal between the fixing and the membrane surface. Intervals between fixings should not be more than 250mm, or slightly more near joints or 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.

Technical Data

Core Product:
Resin: HDPE

Colour: yellow

Area weight:
500 g/m² DIN EN 12127

Dimple height:
3mm

Dimple spacing:
2,500/m²

Compressive strength:
320 kN/m²
EN ISO 25619-2

Mesh:
Resin: PE

Area weight:
45 g/m² DIN EN 12127

Tensile strength: 400 N/5 cm EN ISO 13934-1

Elongation:
>10 % EN ISO 13934-1

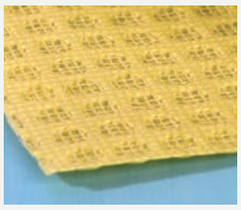
Composite:
Area weight:
550 g/m² EN ISO 9864

CE certificate yes EN ISO 13967

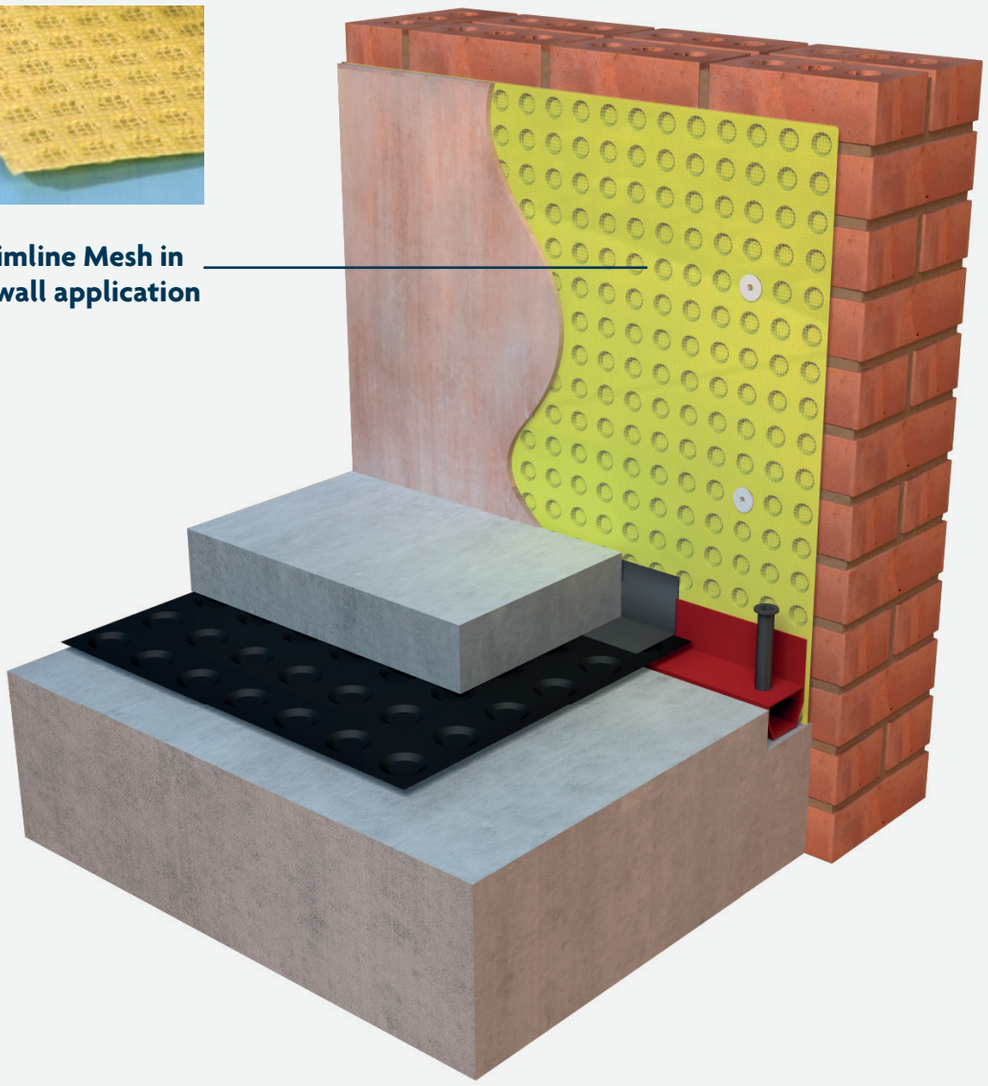
General:
Service temperature range: -40 to +80 °C

Storage:
protect from UV radiation

Physiological properties: resistant to a wide range of chemicals. Resistant to fungus and bacteria attack. Impervious to root penetration, rot proof.



Slimline Mesh in a wall application

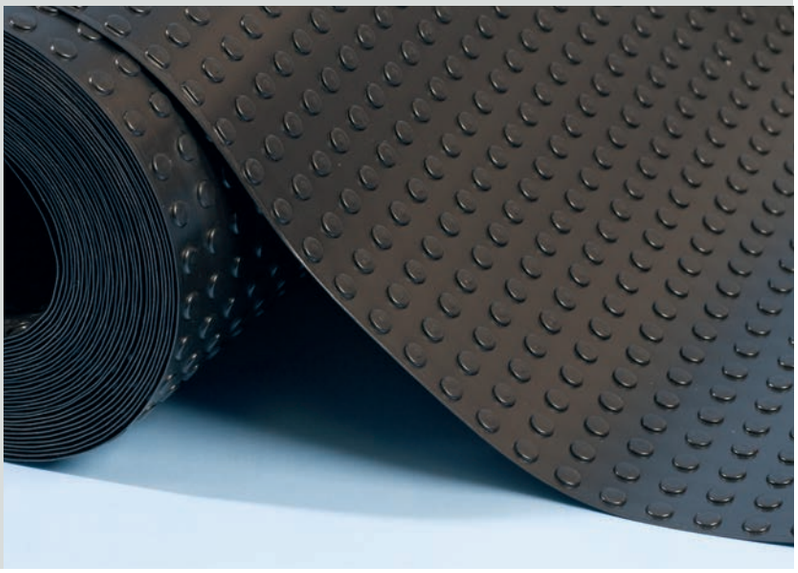


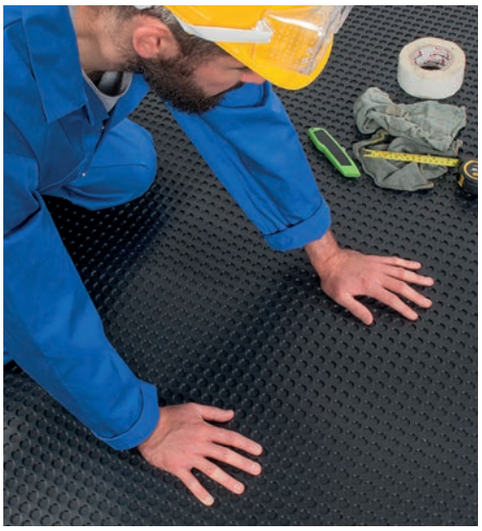
Product

CM FLOOR

Waterproofing membrane

For use on walls, floors, vaults and tunnels with minimal surface preparation required. Also suitable for external foundation waterproofing and to provide insulated dry lining for walls above ground level that may not be suitable for conventional plaster finishes.





Available sizes:

2m x 20m

including flat overlapping edge (flange) without studs, working area approx. 40m^2.

Wykamol CM Floor is a low profile membrane (3 mm studs), specially designed for fast-track sealing of damp concrete at ground floor level. There is no need for the extensive surface preparation normally required with liquid DPM systems (epoxies etc.) and no curing times before floor finishes can be applied. It may also be used on basement floors where the low stud height is critical to maintain ceiling clearance and special measures can be taken to ensure the floor drains freely via drainage channels both around and across the floor.

FIXING

Begin at one side of the room, against the wall membrane with the studs facing down onto the floor. Allowing for the membrane flange overlap, cut the membrane to the desired length or width of the floor. Repeat this exercise until all the lengths/widths required to cover the floor area have been cut. Roll out the next length/sheet of membrane and position the flange over the studs of the first sheet laid. Thoroughly clean the flange and the studs where the seal is to be made, as previously described for wall application.

Apply sealing tape to the stud area below which the flange will cover, and press home onto the area between the studs.

Key benefits

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

Associated Products

Corner strip
Double tape

See www.wykamol.com

Technical Data

Resin:
HDPE

Colour:
black

Area weight:
500 g/m² DIN EN 12127

Thickness:
approx. 0.45mm

Dimple height:
3mm

Dimple spacing:
2,500 pcs/m²

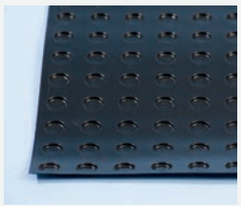
Air gap (between dimples):
3.6 l/m

Compressive strength:
320 kN/m² EN ISO 25619-2

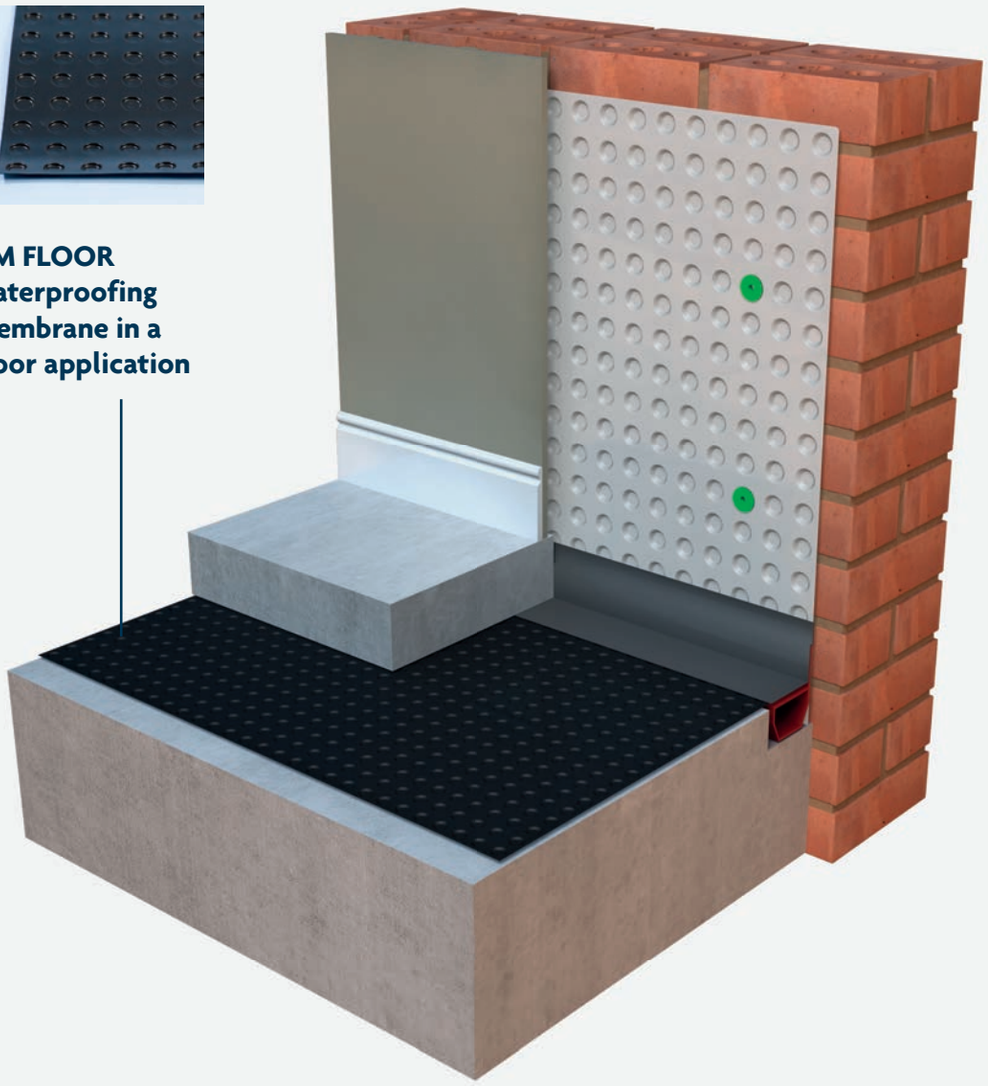
Service temperature range:
-40 to +80 °C

Storage:
protect from UV radiation

Physiological properties:
resistant to a wide range of chemicals, resistant to fungus and bacteria attack, impervious to root penetration, inert to drinking water, rot proof.



CM FLOOR waterproofing membrane in a floor application



Above ground application

Damp issues, such as rising damp or penetrating damp, cause problems and spoiled decorations to internal wall surfaces within the habitable space.

A permanent solution is required to rectify these problems.

Why choose cavity drain membranes for above ground internal damp surfaces?

The major benefit is to prevent any moisture and salts affecting the internal wall finishes by providing a barrier between the damp wall and the new internal finish.

This, in turn, prolongs the life of the finished plaster by creating a barrier that salts and moisture cannot bypass, yet still allow the wall to breathe and natural evaporation of moisture from the substrate to occur.

These products are very sympathetic to building structures, are fully reversible and can be removed at a later stage: a requirement for listed buildings and heritage projects. They are also quick and easy to install.

For years, dense renders have caused condensation issues and have made damp walls less thermally efficient.

They are often found to be installed with the wrong plasters and incorrect specifications, contributing to long drying times, thus causing even more problems at later stages.

Cavity drain membranes offer the benefit of dry internal finishes that are quick drying yet still allow the dampness in the wall to evaporate, as well as being compatible with other remedial systems.

This high density polypropylene mesh allows renders and dot and dab systems to be applied to the surface of the membrane thus giving a better thermal quality finish for the householder as well as faster drying times.

Cavity drain membranes are sympathetic to a seemingly endless list of host materials, including stone, brick, or cob. They also boast impresive thermal insulation curdentials.

These membranes are also very useful for flooded properties and in such situations, allow householders to move back into their properties quicker than where conventional

ECO Mesh Membrane being used in a damp proofing situation.

render systems are used, requiring longer drying periods to remove moisture from the walls.

These products can be used in all situations above ground, and we have even supplied products on multi-storey buildings to isolate dampness in walls and create dry finishes where external remedial measures are not possible; due to heritage situations or restrictionson the use of certain building materials, for example.

How easy are they to install?

Membrane systems are very easy to install by simply drilling a hole through the membrane into the host material and fixing a specialist self-sealing plug into the hole.

These plugs hold the membrane tight to the wall so renders and plasterboard can fix. Various size plugs are available for different thicknesses of wall and these fixings are again made of polypropylene so no thermal bridge is caused.

Heritage projects

We mentioned earlier that membranes are ideal for heritage projects, English Heritage likes these products due to the fact that they can be physically removed at a later stage to get back to the wall structure - for inspection or if other works are needed at a later date, for example.

In these projects specialist renders are normally specified, which sometimes are not compatible with salt-contaminated walls. Membranes are ideal as again heritage renders can be used on these products. Because the cavity membrane allows the wall to breath, this really is not a problem.

As you can see, there are many benefits to these systems for above ground dry lining situations.

Product

ECO mesh

Waterproofing membrane

Impermeable and resistant to the usual chemicals in the building construction. Studs are formed in a regular pattern on one face of the product, with a polypropylene mesh on the other side.

ABOVE GROUND APPLICATIONS

ECO Mesh membrane is tough but pliable and can be easily cut with a knife or scissors. Rolls of the product should be stored upright over long periods, and preferably under cover.

Damp proof membrane for walls suitable for rendering, plastering or dot-and-dab dry lining.

FIXING

ECO Mesh membrane to be butt jointed and sealed using Wykamol fibre tape. Fixing and other jointing as per Wykamol Membrane Systems.

Available sizes:

1m x 10m = 10m²
1m x 20m = 20m²
2.0 x 20m = 40m²
(translucent/clear)

Key Benefits

Can create a dry habitable living space in areas previously suffering from damp/wet conditions. Little to no damage to existing structure.

Associated Products

Plaster Plugs
Fibre tape
Rope

See www.wykamol.com

Technical Data

Raw material:
PP

Sheet thickness:
nominal 0.50mm

Stud height:
approx. 2.0mm

Construction height:
approx. 2.5mm

Unit weight:
0.505 kg/m²

Working temperature:
Max. +60°C

Softening temperature:
+160°C

Linear coefficient of thermal expansion:
0.18mm/m°C

Water vapour resistance:
250m equivalent air layer

Life Expectancy:
at least 50 years for defined applications.

Colour:
clear / translucent

Mesh colour:
White

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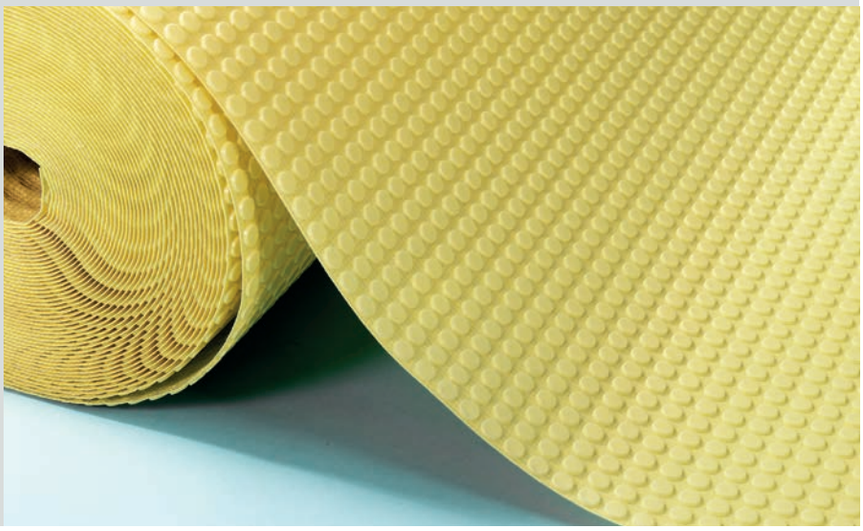
Product

YELLOW mesh

Waterproofing membrane

Impermeable and resistant to the usual chemicals in the building construction. Studs are formed in a regular pattern on one face of the product, with a polypropylene mesh on the other side.

ABOVE GROUND APPLICATIONS



Slimline Mesh is an ideal product for above ground damp proofing and dry lining.

High strength membrane allows for a direct plaster finish but this is also ideal for a dot and dab plaster board finish.

Can be used for wet-rooms and can even be laid on floors due to its high strength.

FIXING

Various fixing options can be used with this product. Contact us for more information.

Available sizes:

1m x 10m = 10m²
1m x 30m = 30m²
2.0 x 30m = 60m²
(Yellow)

Key Benefits

Can create a dry habitable living space in areas previously suffering from damp/wet conditions. Little to no damage to existing structure.

Associated Products

Plaster Plugs
Fibre tape
Rope

See www.wykamol.com

Technical Data

Core Product:
Resin: HDPE
Colour: yellow
Area weight: 500 g/m² DIN EN 12127
Dimple height: 3 mm
Dimple spacing: 2,500/m²
Compressive strength: 320 kN/m² EN ISO 25619-2

Mesh:
Resin: PE
Area weight: 45 g/m² DIN EN 12127
Tensile strength: 400 N/5 cm EN ISO 13934-1
Elongation: >10 % EN ISO 13934-1

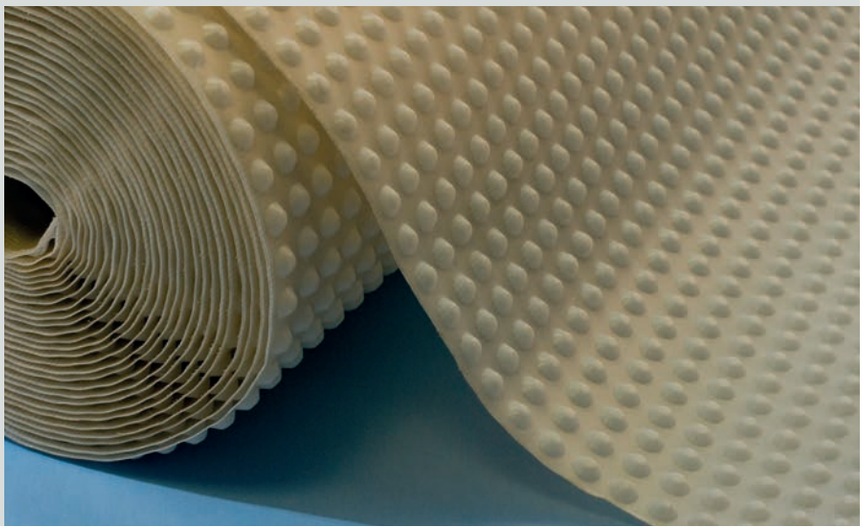
Composite:
Area weight: 550 g/m² EN ISO 9864
CE certificate yes EN ISO 13967

General:
Service temperature range: -40 to +80 °C
Storage: protect from UV radiation
Physiological properties: resistant to a wide range of chemicals, resistant to fungus and bacteria attack, impervious to root penetration, rot proof.

Kontract mesh

Waterproofing membrane

Kontract 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.



Kontract Mesh is a high density polyethylene membrane, incorporating 8 mm studs, which allows the isolation of wet walls above and below ground. It incorporates a tough HDPE mesh lathing welded to the front face to allow the direct application of various plaster finishes or adhesive.

FIXING

Kontract Mesh is fixed to the wall by drilling through the membrane studs to a depth of 50 or 70mm using 8mm drill bit and gently hammering home the Plaster Plugs with seals to form a waterproof seal between the fixing and the membrane surface. Alternatively use Plaster Plugs with Wykamol Rope.

Available sizes:

2m x 10m = 20m²

2m x 20m = 40m²
(translucent/Yellow)

Key Benefits

Can create a dry habitable living space in areas previously suffering from damp/wet conditions.

Associated Products

Plaster Plug
Double tape
Rope

See www.wykamol.com

Technical Data

Colour: White

Weight: 28.00kg

Raw material: high density polyethylene

Thickness: 0.60mm

Stud height: 8.00mm

Compressive strength: N/A

Wall and soffit membrane only

Thermal resistance: 0.078m² K/W

Vapour permeability: 0.046g/m² x hr x mmHg

Thermal conductivity: 0.461 W/m K

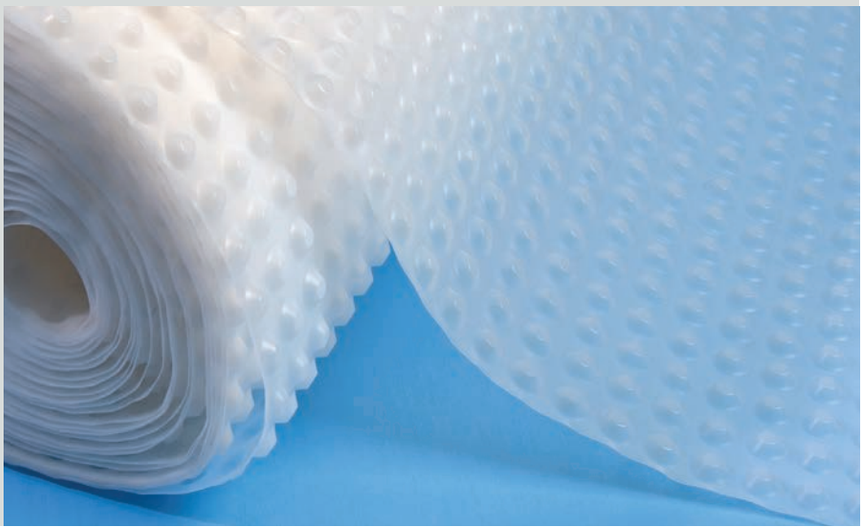
Air volume between studs: 5.51 litres/m²

Drainage capacity: 4.61 l/m²/s

CM8

Waterproofing membrane

Impermeable and resistant to the usual chemicals in the building construction. Studs are formed in a regular pattern on one face of the product, with a polypropylene mesh on the other side.



Wykamol CM8 is a medium capacity drainage membrane (4 litres/m^2) for floors and walls both above and below ground level.

The recommended plaster finish for the system is dry lining on stud framing (timber or metal), fixed to Wykamol Brick Plugs. Alternatively, plasterboard can be erected using dot-and-dab methods, using dab collars to provide a physical bond for the board adhesive.

Available sizes:

2m x 20m = 40m^2

2.4m x20m = 48m^2 (translucent/White)

Key Benefits

Can create a dry habitable living space in areas previously suffering from damp/wet conditions.

Little to no damage to existing structure.

Associated Products

Brick Plugs
Double tape
Rope

See www.wykamol.com

Technical Data

Raw material: HDPE

Sheet thickness: nominal 0.50mm

Stud height: approx. 6.5mm

Construction height: approx. 7mm

Unit weight: 0.45 kg/m^2

Deformation under long term loading: max. 20% (at 50 kN/m^2)

Compressive strength: 150 kN/m^2

Working temperature: –10° to +60°C

Softening temperature: 160°C

Linear coefficient of thermal expansion: 0.18 mm/m.°C

Water vapour resistance: 280m equivalent air layer

Air gap volume: 4.0 l/m^2

Drainage capacity: Approx. 3.8 l/sm

No. of studs: approx. 1640/m^2

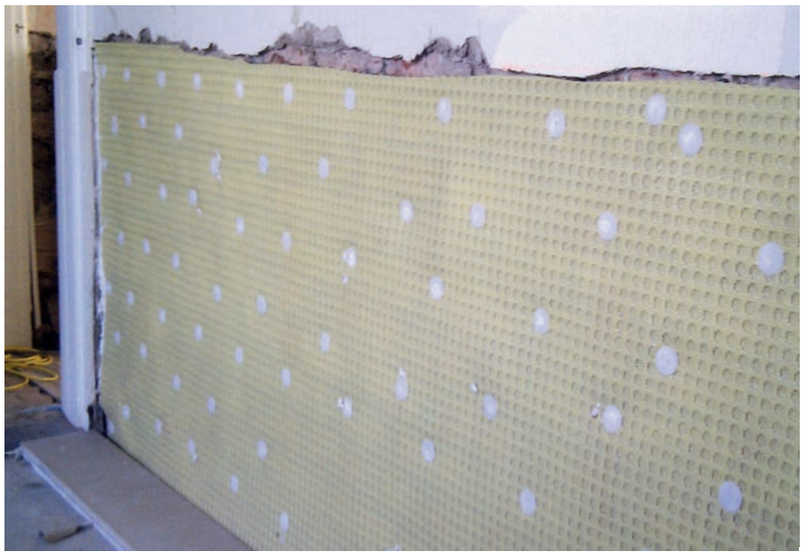
Life expectancy: at least 50 years for defined applications

Colour: natural

Membrane Plugs

The most important part of any membrane system, are the fixings and jointing tapes. These parts of the system are critical and Wykamol is pleased to announce their systems are covered by BBA accreditation.

Our Plaster Plugs and Brick Plugs are also of the highest quality, and now include the new plugs with seals already attached to speed up installation times. For poor quality constructions, we have the Wykamol Cob Plug, which can be installed into all types of masonry to enable good fixing. Wykamol are confident that you will have confidence in the products that we supply.



CM Plaster Plugs

These Plaster Plugs can be used with our mesh membrane systems, they are available in 70mm and 50mm lengths and have a serrated head which can take plaster or dot and dab. They can also be used to secure membranes to walls in systems where a free standing frame is to be used.

Quantity: 250 per box.

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CM Plaster Plugs with Seals

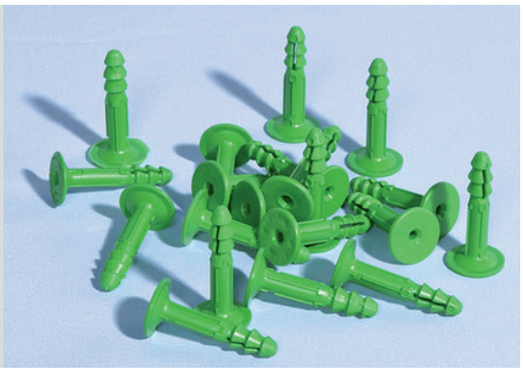
These Plaster Plugs can be used with our mesh membrane systems. They are available in 70mm lengths and have the advantage of a seal already attached. They have a serrated head which can take plaster or dot and dab. They can also be used to secure membranes to walls in systems where a free standing frame is to be used.

Quantity: 200 per box.

Surefix Brick Plugs

Wykamol Surefix are 10mm fixings to use with membrane systems. They have a reinforced head for easy use and take a size 10 screw into the head of the plug, for battens or metal framing systems. At 60mm long, these plugs will fit into all substrates.

Quantity: 100 per box.



Surefix Brick Plugs with Seals

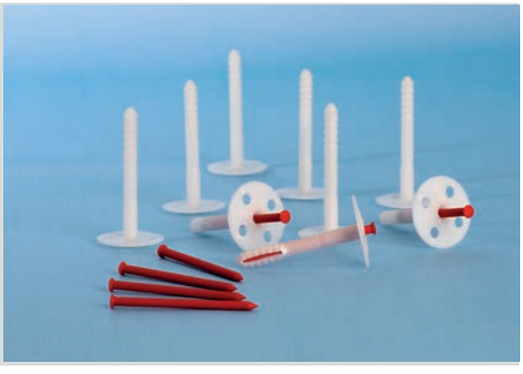
Wykamol Surefix plugs are 10mm fixings to use with membrane systems, with the advantage of a rubber seal already attached. They have a reinforced head for easy use and take a size 10 screw into the head of the plug, for battens or metal framing systems. At 60mm long, these plugs will fit into all substrates.

Quantity: 200 per box.

Cob Plugs

These plugs are ideal to use where substrates will not take a normal fixing. They are ideal for cob construction as well as all other masonry types. They have a pin which is driven down the head of the plug to give a secure anchor for membrane systems. Available sizes are 60, 90, 110 and 130mm long.

Quantity: 200 per box.



Jointing Systems

Quality jointing systems are critical when using cavity membrane systems. The Wykamol Group is proud to have sourced the highest quality jointing tapes and ropes within the waterproofing industry.

All our tapes and ropes are covered by our extensive BBA accreditation and all the materials are of the highest quality using HP 600 grade bitumen.

All the products within the jointing range have undergone extensive water testing capabilities and are suitable for use with our high-density polyethylene membranes.

When specifying these products you can rest assured that each of these tapes will last and remain flexible throughout the life of the waterproofing project.

Tape

A high quality butyl double sided tape, 28mm wide. This tape is used in the installation of Wykamol cavity drain membranes and is used to tape 2 sheets of membrane together on walls or floors. Easy to use and very high quality HP600 grade bitumum makes this a long term solution for all membrane work.

Size: 28mm wide x 22 meters long.

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Rope

A 10mm bead of butyl rope. This rope is used to either wrap around the head of plugs in membrane installation, or to form a jointing waterproof seal on walls and floor membrane systems. This is a high quality rope and is covered by our BBA Certificate.

Size: 10mm wide x 5m long.

Corner

Our biggest selling tape, this 150mm wide tape has many uses, but is mostly used to seal membrane from walls to floors and the channel system. Tacky on one side only, this can also be used to overtape external joints and can also be used on floor oversealing.

Size: 150mm wide x 20m long.

Overseal

This is a 75mm overseal tape used to overseal membrane systems, it can be used on walls and floors and forms an overseal detail to form a vapour barrier and waterproof seal on external taped joints. Covered by our BBA Certificate.

Size: 75mm wide x 20m long.

Fibre Tape

Wykamol Fibre Tape is used to join plaster membranes together. The unique fibre backing allows for direct plaster or dot-and-dab situations. The fibre also stops any cracking of plaster on these joints.

Size: 115mm wide x 25m long.

Channelling

As part of the Wykamol cavity drain membrane system, channels are a crucial part of the overall system, and are laid at wall floor junctions to remove any water entering the structure.

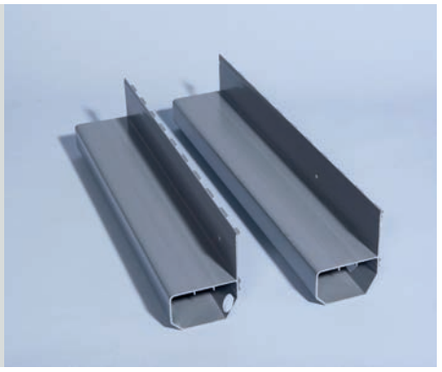
These channels are designed with pre-determined water entry points into the rear of the channel.

They either come with a flange upstand system or flangeless, depending on the type of foundation that you will be working with.

Channels come with various accessories to aid the system, some of which are covered in the next two pages.

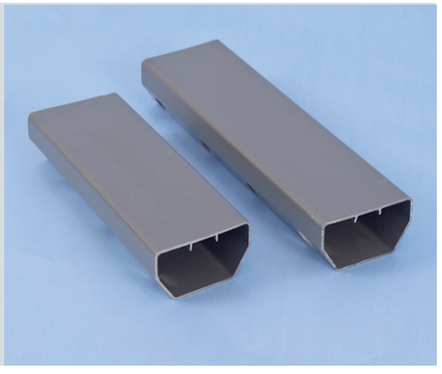
Waterguard

Wykamol Waterguard is a PVC drainage conduit designed for the control of water ingress in below ground situations. Wykamol Waterguard is fitted around the perimeter of the floor at the vulnerable wall/floor junction.



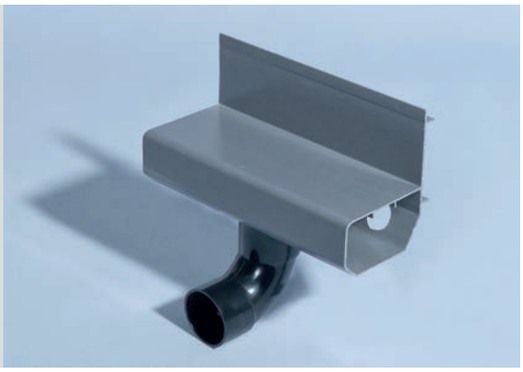
Floor Drain

Floor Drain is a flangeless channel similar to Waterguard, for controlling water movement to a sump chamber or drain. It has the benefits of no upstand which is ideal where stepped foundation footings would cause a problem. The channel can also be used to drain across a floor centrally.



Waterguard Drainage outlet

The drainage outlet can be used to get water from the channels to the sump chamber or existing drain. The angle bend on the underside of the channel takes water through a 32mm connection.



Universal Channel outlet

Newly designed channel outlet to remove water from the channel to the sump.

This has the benefit of a 100mm outlet for high water movement or for easier installation into the sump chamber.

It also comes with a jetting eye which can be cut down to suit floor finishes. Can be used with floor drain and waterguard channels.

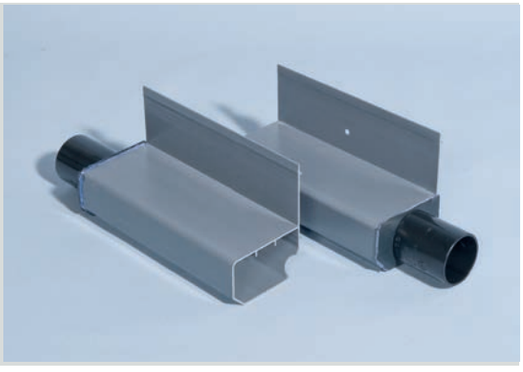
Flexi Jetting Eye

The flexible jetting eye has been designed to allow cleaning of the channel system and also as an inspection port.

The unique flexible upstand jetting point can be easily bent to allow the channel to be used in a wall port system. It and also has the benefit of allowing slabs to be laid whilst still being easily accessible afterwards.

Waterguard Drain End Left or Right

The drain end connector can be used to take water away through an external wall to lower level drainage, ideal for houses built into a hill side where lower drainage is possible. This comes with either a left return or right return depending on where it is to be sited.



Wykamol
GROUP LIMITED

Waterproofing Membranes

FOR ABOVE AND BELOW GROUND
WATERPROOFING APPLICATIONS

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Basement Waterproofing ASSOCIATION
PCA Property Care ASSOCIATION
BBA BRITISH BOARD OF AGREMENT TECHNICAL APPROVALS FOR CONSTRUCTION

Product

CM PLASTER

Waterproofing Membrane

CM Plaster is a specialist wall membrane for basements and other damp surfaces giving a low-medium drainage capacity (1.84 litres/m2). The 5 mm studs are uniquely designed so that, when the membrane is fixed using CM Plaster Plugs, the walls can be plastered using conventional methods or 'dot and dab' plasterboard finishes.

Available sizes:

2.0 x 20m

Including flat overlapping edge (flange) without studs, working area ca. 40 m2.

In basements, CM Plaster can be used in combination with CM8/CM20 on the floor. Above ground, the low stud height enables CM Plaster to be used as a remedial re-plastering system following insertion of a DPC where it is necessary to match-up to retained plaster at higher levels. Alternatively, in walls severely affected by damp/salts to a high level CM Plaster can be used as a full-height damp proof membrane on walls ('ventilated system', see below). When using CM Plaster all lap joints must be sealed with fibre tape.

FIXING

Plaster membrane is fixed to walls with the Plaster Plugs. The Plaster Plugs should be prepared for use before fixing by wrapping Sealing Rope around the neck of plug just under the head or by using pre installed neoprene seals. This will form a seal with the membrane when the plug is driven home into the substrate.

Place the membrane level against the wall and pull taut. Drill hole in membrane 3 studds from edge and insert plugs at desired centres. Fix next sheet of membrane with taped over lap and continue fixing plugs until membrane has been installed.

Key Benefits

Stud height 5mm,

Drainage volume 1.56 litres/m2

Excellent low and high temperature stability

High durability and water resistance

Easy to install

Associated Products

Plaster plugs
Fibre tape
Rope

See www.wykamol.com

Technical Data

Sheet thickness:
Approx. 500 µm

Unit weight:
0.48 (CM8) – 0.95 (CM20) kg/m2

Compressive strength (3 mm deformation):
180 kN/m2 (CM8)

Deformation under long term loading:
max. 20% at 50 kN/m2 (CM8)

Working temperature:
–50° to +60°C (all CM products)

Softening temperature:
+125 °C (all CM products)

Linear coefficient of thermal expansion:
0.13 mm/m. °C

Water vapour resistance:
1800 m2.s.GPa/kg (CM8) or 350 m equivalent air layer. 3500 m2.s.Gpa/kg (CM20)

Air gap volume:
CM Plaster = 1.8 l/m2

Thermal resistance:
CM Plaster - 0.10 m2. K/W

Life expectancy:
at least 50 years

Colour:
CM Plaster - Translucent/ blue

CM Plaster in a wall application