

High density polyethylene drained cavity former for waterproofing of sub-structures

Uses

Proofex Cavitydrain is used to waterproof below ground structures where Type C (Drained Cavity) protection is required either as the sole protective measure or in conjunction with Type A (Barrier) or Type B (Integral) waterproofing to achieve the required grade of protection in accordance with the recommendations of BS8102-2009.

Any water ingress is contained within a free draining cavity and channelled to an appropriate internal water management system so that no pressure forms against the internal linings, thereby providing protection against water ingress into usable spaces.

Advantages

- Suitable for new and existing construction projects
- Acceptable for all water table classifications (low, variable, high) as per Table 1 of BS8102-2009
- Eliminates increase in structural load due to water pressure.
- Provides a maintainable form of ingress protection.
- Can be specified in conjunction with a monitoring system to provide automatic alerts in the event of pump failure.
- Internal application in a controlled environment reduces risk of defective installation
- Provides a continuous drainage pathway and vapour barrier
- Minimal deformation under load maintains drainage performance
- Conical voids enable high load transfer to structural elements
- Chemically resistant, unaffected by contaminated substrates and water
- Vertical and horizontal grades available

Description

Proofex Cavitydrain membranes are cusped rolls designed to permit high water flow through a permanent void against the sub-structure face. A range of grades are available.

Proofex Cavitydrain 80 is a space saving solution for vertical applications in conjunction with internal blockwork walls and dry lining systems.

Proofex Cavitydrain 200 is primarily used for horizontal applications, it can also be used in vertical applications where increased membrane stiffness is required.

Proofex Cavitydrain PB allows the direct application of wet lining systems, increasing usable space in basements by eliminating the requirement for internal blockwork walls or dry lining systems.

Proofex Cavitydrain PM20 is a mesh faced damp proofing membrane applied to internal wall surfaces in above ground areas to provide protection against rising damp. It is particularly suited for areas where intrusion into the habitable space must be minimised, such as doorways and window reveals.

Proofex Cavitydrain SF is a damp proofing membrane applied to internal floor surfaces in above ground areas. Proofex Cavitydrain SF can be formed around external and internal corners.

To enable a fully compliant system installation, the Proofex Cavitydrain system incorporates a full range of ancillary items including drainage channels, fixings, sealing strips, pumps and anti-lime coating.

Standard compliance

Independently certified performance, BBA certificate (No. 17/5418).

Proofex Cavitydrain 80, 200 and PB are CE Marked according to EN 13367:2017, refer to tables in datasheet appendix for further information.



Fosroc® Proofex Cavitydrain

Properties

| | Proofex Cavitydrain 80 | Proofex Cavitydrain 200 | Proofex Cavitydrain PB | Proofex Cavitydrain PM20 | Proofex Cavitydrain SF |
|---------------------------|------------------------|-------------------------|------------------------|--------------------------|------------------------|
| Membrane material | HDPE | HDPE | HDPE | PP | PP |
| Sheet thickness (nominal) | 0.5mm | 1.0mm | no data | 0.5mm | 0.5mm |
| Stud height (nominal) | 6.5mm | 20mm | 5mm | 2.0mm | 2.0mm |
| Unit weight | 0.45kg/m ² | 0.95kg/m ² | 0.48kg/m ² | 0.51 kg/m ² | 0.45 kg/m ² |
| Air gap volume | 4.0 l/m ² | 14 l/m ² | 4.0 l/m ² | - | - |
| Drainage capacity | 3.8 l/m/s | 13 l/m/s | 1.84 l/m/s | - | - |
| Colour | Translucent | Black | Translucent | Translucent | Translucent |

Application instructions

Refer to Proofex Cavitydrain method statement and BBA certificate.

Limitations

Proofex Cavitydrain membranes are not suitable for use in below ground situations where the cavity membrane system cannot be drained.

Proofex Cavitydrain is not recommended for external applications.

Proofex Cavitydrain PB and PM20 and should not be used on floors.

Estimating

Proofex Cavitydrain 80

| | |
|--------------|-------------|
| Roll size: | 2.07m x 20m |
| Roll weight: | 20kg approx |

Proofex Cavitydrain 200

| | |
|--------------|-------------|
| Roll size: | 2 m x 20 m |
| Roll weight: | 38kg approx |

Proofex Cavitydrain PB

| | |
|--------------|-------------|
| Roll size: | 2m x 20m |
| Roll weight: | 19kg approx |

Proofex Cavitydrain PM20

| | |
|--------------|-------------|
| Roll size: | 2m x 20m |
| Roll weight: | 20kg approx |

Proofex Cavitydrain SF

| | |
|--------------|-------------|
| Roll size: | 2.05m x 20m |
| Roll weight: | 19kg approx |

Proofex Anti-Lime Coating

| | |
|------------|----------------------------|
| Pack size: | 25L |
| Coverage: | 2 - 4 m ² / kg. |

Proofex Cavitydrain Ancillary Items

| | |
|---------------------------|---------------------|
| Brick Plugs: | 100 pieces / box |
| Plug Seals: | 100 pieces / bag |
| Plaster Plugs: | 500 pieces / box |
| Sealing Tape: | 2mm x 30mm x 20m |
| Sealing Rope: | 10mm x 5m (2 / box) |
| Overtape: | 1.5mm x 115mm x 25m |
| Corner Strip: | 150mm x 10m |
| Channel with upstand: | 2m length |
| Channel without upstand : | 2m length |
| Channel connector: | Individual item |
| Channel outlet: | Individual item |
| Channel Jetting eye: | Individual item |
| Channel corner piece: | Individual item |
| Channel T piece: | Individual item |

Pumps:

Proofex Cavitydrain SB (Single Basement) Pump Kit

600mm x 600mm sump with 350mm x 350mm access hatch and galvanised steel cover

2 x Ama-Drainer 301 Pumps (including non-return valves, dual internal pipework/fittings, stainless steel float bracket, micro float switch)

UPS 750 Battery Back Up

High Water Level Alarm

Proofex Cavitydrain DB (Double Basement) Pump Kit

600mm x 600mm sump with 350mm x 350mm access hatch and galvanised steel cover

2 x Ama-Drainer 303 Pumps (including non-return valves, dual internal pipework/fittings, stainless steel float bracket, micro float switch)

UPS 3000 Battery Back Up

High Water Level Alarm

Fosroc® Proofex Cavitydrain

Storage

Store in original unopened packaging, in cool dry conditions, away from sunlight.

Precautions

Health and safety

Each Proofex Cavitydrain roll should be lifted by a minimum of two site operatives.

For Proofex Anti-Lime Coating please refer to product safety data sheet.

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Appendix - Proofex Cavitydrain CE Table

| | | | |
|--|---|---------------------------------|---------------------------------|
| Fosroc Ltd Drayton Manor Business Park, Coleshill Road, Tamworth, B78 3XN, UK | CE | | |
| | 17 | | |
| | 1071– CPR – 7013 | | |
| | EN 13967: Flexible Sheets for Waterproofing: Type V / System 2+ | | |
| | Proofex Cavitydrain 80 | Proofex Cavitydrain 200 | Proofex Cavitydrain PB |
| DOP: UK9-198 | DOP: UK9-60 | DOP: UK9-204 | |
| Reaction to fire | Class F | Class F | Class F |
| Tensile Properties | MD:340N/5cm CMD: 225N/5cm | MD:530N/5cm CMD: 500N/5cm | MD:220N/5cm CMD: 200N/5cm |
| Resistance to static load | 20kg load: Pass | 20kg load: Pass | 20kg load: Pass |
| Resistance to impact | Method A (0.25m, 500g): Pass | Method A (0.85m, 500g): Pass | Method A (0.35m, 500g): Pass |
| Resistance to tearing | 290N | 350N | 210N |
| Joint strength | 55N | 35N | 45N |
| Watertightness | 2KPa: Pass | 2KPa: Pass | 2KPa: Pass |
| Durability watertightness after artificial ageing | Pass | Pass | Pass |
| Durability watertightness against chemicals | Pass | Pass | Pass |
| Resistance to Deformation Under Load | 50kN/m ² : <30% | 50kN/m ² : <20% | NPD |
| Dangerous substances | None | None | None |
| Water vapour transmission properties | 380m +/-25% | 550m +/-25% | 380m +/-25% |
| Water vapour resistance after artificial ageing | Pass | Pass | Pass |
| Compatibility with bitumen | NPD | Degradation <15% | NPD |



Important note

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