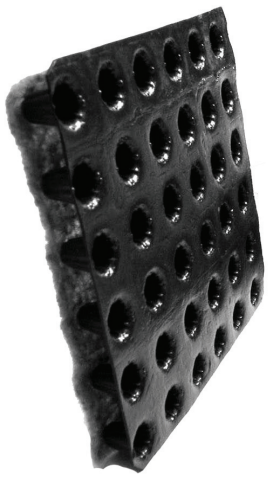
SOLDRAIN WALL

Cuspated cavity drain composite

SOLCO

CE TYPE V EN 13967

Soldrain Wall is a high performance cuspated cavity drain composite manufactured from a dimpled H.D.P.E.,designed to provide a drainage channel beneath the concrete in wall construction.



Features

- CE Marked
- Combined former and membrane
- Provides a high water flow rate
- Easily applied & Lightweight.
- Selvedge side laps
- High load resistance
- highly resistant to acids & alkali
- does not support bacterial growth

Applications

- Around buried structures and culverts
- Behind bridge abutments & retaining walls
- On top of covered reservoirs
- Alongside highways
- Beneath green roofs
- Within embankments
- As part of basement waterproofing systems
- Beneath floor slabs

SOLDRAIN - Structural Drainage

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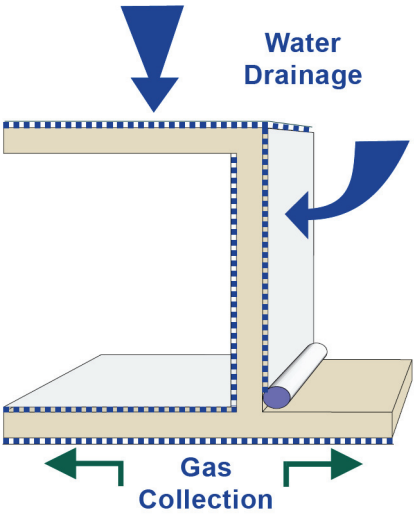
Description

Soldrain Wall consists of a preformed plastic core bonded to a geotextile filter. The filter was specially developed to permit free entry of water, but not soil, and so prevent soil particles from clogging the drainage system.

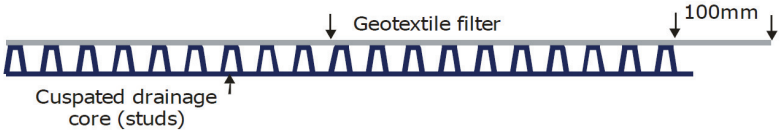


Soldrain Wall is designed to be placed with the geotextile filter layer facing the direction of water seepage or backfill. Soldrain Wall can be applied against waterproofing membranes or directly against the masonry/concrete substrate.
Soldrain Wall relieves hydrostatic pressure against the vertical walls of buried structures - basements, retaining walls, reservoirs, tunnels, bridge abutments, culverts and underground car parks. Walldrain provides a second line of defence to channel seepage water away from the structure and is designed to fully comply with the requirement of type 'C' design BS 8102.

Installation

- Unroll by hand on level ground. It may be easier to cut the required length from a roll prior to positioning if the product is to be placed vertically against a structure.
- Ensure that the product is placed facing the correct way (see detail).
- Adjacent or subsequent rolls should be butt jointed without an overlap.
- The geotextile-faced cores – FC12 and FC25 - have an additional 100mm wide geotextile flap at one edge. This should be used as an overlap between adjacent rolls and should be taped in place prior to backfilling.
- When installed vertically behind walls, each length should be held in place using sandbags (or other weight) at the top of the structure. The lengths can be fixed to the wall with suitable Hilti-type fixings plus waterproofing sealant, if these will not damage any structural waterproofing systems in use..
- The geotextile filters used on these products are not UV protected and it is therefore recommended they should be covered within 24 hours to avoid any risk of degradation.
- Site or other equipment should never be driven directly on any geosynthetic product.
- Care must be taken not to dislodge the cuspates during the backfilling operation.
- Only hand-propelled rollers should be used to compact a fill within 1.0m of any cuspate.

12 & 25 Soldrain Wall



These are always placed with the geotextile filter towards the backfill

Description	Method	Unit	Soldrain Wall 12	Soldrain Wall 25
Drain			cuspated sheet	
Polymer			high density polyethylene (HDPE)	
Thickness	BS EN ISO 9863-1	mm	12	25
Compressive strength		kPa	500	180
Geotextile			non-woven	
Polymer			polypropylene	
CBR puncture resistance	BS EN ISO 12236	kN	1.5	
Tensile strength (md)	BS EN ISO 10319	kN/m	8	
Tensile strength (xmd)	BS EN ISO 10319	kN/m	9	
Cone Drop	BS EN ISO 13433	mm	28	
Pore size O90	EN ISO 12956	µm	85	
Water flow	BS EN ISO 11058	l/m2/s	60	
Composite				
In-plane flow capacity i=1 with soft platens	EN ISO 12958	l/s/m width		
@ 20kPa			7	20
@ 100kPa			6	19
@ 200kPa			5	18
Shear strength	prEN ISO 13426-2	kN	1	1
Roll dimensions (w x l)		m	1.0 x 50	0.45 x 50 & 0.90 x 50
Approximate roll diameter		m	0.80	1.30
Approximate roll weight		kg	58	74