

SOLDRAIN DOUBLE

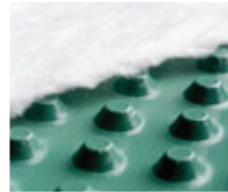
Structural Sheet Drainage System

Soldrain Double consists of an impermeable three dimensional high density polyethylene (HDPE) structure with a polypropylene filter fabric bonded to the top of the surface of the studs



- CE Marked
- Protection to the primary waterproofing membrane
- Filter fabric protects structure from surrounding earth
- High drainage capacity

Colour	Product Code	Roll Size
Green / Black	SOLDRAINDOUBLE	20m x 2m
		15m x 2m



SOLDRAIN - Structural Drainage

Last Issue Date: 15.10.16

Product Description

Soldrain Double is a sheet drainage system which consists of a HDPE impermeable studded sheet, with a polypropylene filter fabric bonded to the top of the studded core.

Soldrain Double can be used as a protective barrier between the structure and the surrounding fill and act as a protective layer to the primary waterproofing membranes.

Soldrain Double relieves the hydrostatic pressure by channeling the ground water away from the structural waterproofing, protecting the structure. The filter fabric facing the backfill material ensures the drainage channels are not blocked or obstructed.

Soldrain Double is a UV stable and reliable root and fungi-proof drainage system, which when fully protected from UV exposure, has a design life in excess of 120 years.

Soldrain Double offers levels of protection required for below ground structures, described in:
BS 8102: 1990, grades 2, 3 & 4.

The product is CE marked according to EN 13252.

Typical Uses

- Basements and foundations
- Tunnels and underpasses
- Underground car parks
- Landscaping / Reservoirs
- Retaining walls
- Landfill sites
- Roof gardens
- Planter boxes
- Floor slabs
- Plaza decks and terraces

Features & Benefits

- Protection layer to waterproofing membrane
- Non-biodegradable
- Filter fabric protects structure from surrounding earth
- High water flow / drainage capacity
- High impact resistance
- High compressive strength
- Lightweight and easy to handle
- Highly resistant to sulphates, chlorides and other aggressive ground chemicals
- Fast, Simple installation method
- Low installation cost

Application

Soldrain Double should be installed to the outer face of the structure against the waterproofing membrane, with the geotextile filter fabric facing outwards

Soldrain Double has a 50mm selvedge which allows sheets to be overlapped and securely joined using Solco double sided butyl tape.

The adjacent sheets should be overlapped by approximately 150mm, peel back the geotextile layer, overlap the dimple sections ensuring that they are firmly embedded onto each other and that the butyl tape below is securely adhered. (The lower sheet should always be installed under the upper sheet). Then, simply fold the geotextile overlap back over the geotextile below it, and secure using Solco XL Reinforcing Tape.

Where there is a self-adhesive waterproofing membrane attached to the structure, secure the sheets of Soldrain Double to it by using double sided butyl tape in horizontal bands.

The top edge of the Soldrain Double can be mechanically fixed to the structure (brickwork / concrete etc.) using Solco Membrane fixing plugs.

Further Specific Uses

Soldrain Double can also be used as an alternative to Solco Protection Board. This will not only provide protection but will also repel the majority of ground water away from the main membrane.

It will segregate the structure from the surrounding earth and relieve hydrostatic pressure, all of which will enhance the performance of the main membrane. Soldrain Double will not only provide excellent protection to the main membrane against backfilling and root penetration, but can also increase the structures thermal insulation

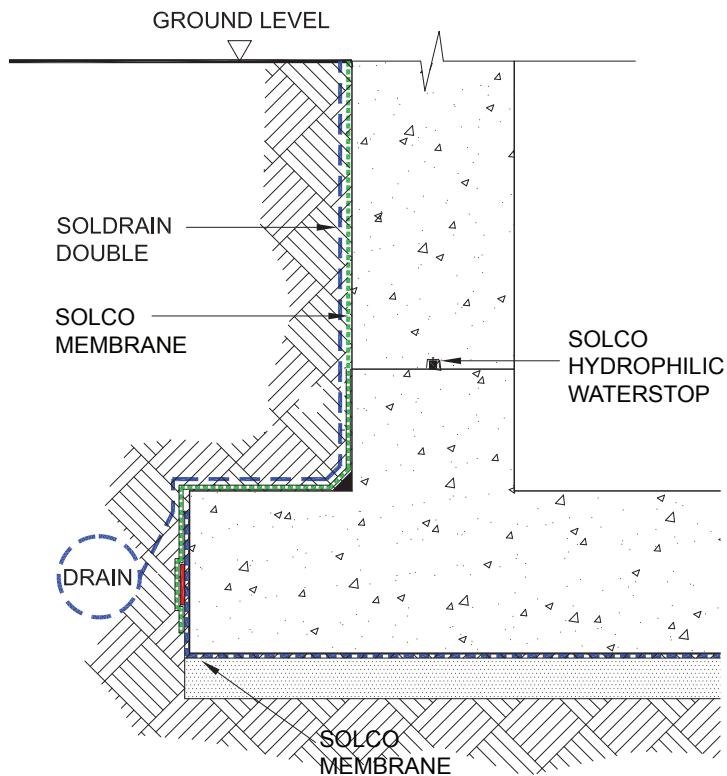
Storage

No specific storage is needed, store rolls upright and under cover. Keep protected from extreme temperatures

Ancillary Products

Solco supply a range of ancillary products for use with Soldrain Double which include:-

Ancillary products	
Solco Double Sided Butyl Tape	100mm x 10m
Solco XL Reinforcing Tape	150mm x 20m
Solco Self-adhesive Membrane	1m x 20m
Solco Membrane Fixing plugs	Bags of 100
Solco Sealing washers	Bags of 100



Soldrain Double - Typical Detail

Technical Properties

Colour	Green / Black
Roll dimensions	20m x 2m & 15m x 2m
Sheet Thickness	1mm
Dimple Height	8mm
Weight (g/m ²) EN ISO 9864	700
Roll Weight	28kg
In-plane water flow capacity (at 100kPa, R/E) EN ISO 12958	3.50 litres / m ² / sec
Volume of air between dimples	5.8 litres / m ²
Flow reduction after 1,000,000 hours	<6%
Tensile strength (average MD/CMD) EN ISO 10319	20kN/m
Compressive strength	> 200 kN/m ²
Maximum elongation EN ISO 10319	>45%
Static puncture resistance (CBR) (EN ISO 12236)	3500 N
Working Temperature	-20 to 80°C
Chemical Resistance	Excellent to all common ground water chemicals
Physiological Properties	Non Polluting for drinking water