TERRADRAIN™ FSX STRIPDRAIN
SINGLE CUSPATED / DIMPLED / PERFORATED CORE

PRODUCT DESCRIPTION

TerraDrain™ FSX Stripdrain is a high performance, high compressive strength, high flow drainage composite consisting of a three dimensional, high impact single cuspated / dimpled HDPE core combined with a non-woven filter fabric wrap.

Drainage core is perforated to allow infiltration of subsurface water from the "flat" side as well as the principal cuspated drainage face.

The filter fabric is bonded to the individual dimples of the core to minimise fabric intrusion into the flow channels caused by soil backfill pressure.

TYPICAL USES
- Replaces traditional French drain
- Highway edge drainage
- Sports field drainage
- Foundation drainage
- Retaining wall blanket drain collector drains
- Cut-off drains

FEATURES & BENEFITS
- High flow drainage capacity
- High compressive strength
- Narrow trench width
- Drainage aggregate not required
- Supplied in man hand able rolls
- Easily and quickly deployed

TerraDrain™ FSX Stripdrain Specification Sheet

STRIPDRAIN			FSX 150	FSX 300	FSX 450
PROPERTIES	Unit	Test Standard	Value	Value	Value
GEOTEXTILE	TNZ specification. F/7 (2003) Class A compliant Polypropylene Non woven needle punched & heat treated long staple fibre				
Thickness at 2kPa	mm	EN ISO 9863-1	1.1	1.1	1.1
Tensile strength MD/CD	kN/m	EN ISO 10319	14.4/15.5	14.4/15.5	14.4/15.5
Pore size 0^{90}	micron	EN ISO 12956	70	70	70
Elongation at peak MD/CD	%	EN ISO 10319	65/75	65/75	65/75
CORE	High Density Polyethylene (HDPE) : Single Cuspated (Dimpled one face) : Perforated				
Carbon black content	%	ASTM D1603	0.8-2.5	0.8-2.5	0.8-2.5
Compressive strength			> 200kPa	> 200kPa	> 200kPa
COMPOSITE					
Thickness at 2kPa	mm	EN ISO 9863-1	27.1	27.1	27.1
Mass / lineal metre	g	EN ISO 9864	284	567	852
Useable Tensile strength MD/CD	kN/m	EN ISO 10319	40/23	40/23	40/23
Elongation at peak MD/CD	%	EN ISO 10319	60/55	60/55	60/55
Perpendicular Water Inflow					
Water flow at 50mm head / m^2	l/sec	EN ISO 11058	Dimple face 65	Dimple face 65	Dimple face 65
			Flat face 2	Flat face 2	Flat face 2
In-plane water flow in both sides[4]					
At 20 kPa pressure	l / min.	EN ISO 12958	@ HG of 1.0 = 108	@ HG of 1.0 = 216	@ HG of 1.0 = 324
			@ HG of 0.1 = 38	@ HG of 0.1 = 76	@ HG of 0.1 = 116
At 100 kPa pressure	l / min.	EN ISO 12958	@ HG of 1.0 = 84	@ HG of 1.0 =168	@ HG of 1.0 = 252
			@ HG of 0.1 = 28	@ HG of 0.1 = 56	@ HG of 0.1 = 84
Roll Size ex stock other sizes to order	mm x m	--	150 x 40	300 x 40	450 x 40

Notes
1) The values given are indicative and correspond to nominal results obtained in our laboratories and testing institutes. In line with our policy of continuous improvement the right is reserved to make changes without notice at any time.
2) The above figures have been obtained from statistical interpretation of test results.
3) Tested with soft foam contact surfaces to simulate textile intrusion into the core due to soil pressure.
4) At 100 kPa Fildrain 25SXW exceeds most typical applications. Road edge drainage typically installed up to 1.0m deep ≈ (50 kPa)
5) Design life of 120 years (manufacturers declaration)
6) Resistant to chemicals commonly found in soils(EN 14030) and to microbes commonly found in soils (EN 12225).
7) Compatible with all granular backfills and most common soils.
8) Final determination of the suitability of any information is the sole responsibility of the user

GENERAL INSTALLATION NOTES

- To form butt joins peel back the geotextile and lap / splice the core cusps 100mm then pull the free fabric flap down over the lap join, PVC tape the geotextile lap / seam.
- Non-cohesive native soils can be used as backfill but coarse clean river sand is the recommended backfill material
- Limit exposure of the fabric to ultra violet (UV / sun rays) light to a maximum period of 14 days.
- Ensure a minimum backfill cover of 150mm to the top edges of the TerraDrain™ FSX Stripdrain.
- Standard face and end outlets available for connecting to standard round pipes.
- Install TerraDrain™ FSX Stripdrain with a free draining outlet.

TerraDrain™ FSX Stripdrain

GEOTECH SYSTEMS LTD - Box 6035 - TAURANGA 3146

Rev. May. 2013   Sales orders / enquiries - Email sales@gtsl.co.nz - Phone 0800 436 832 - Fax 0800 422 466   Page **3** of **10**