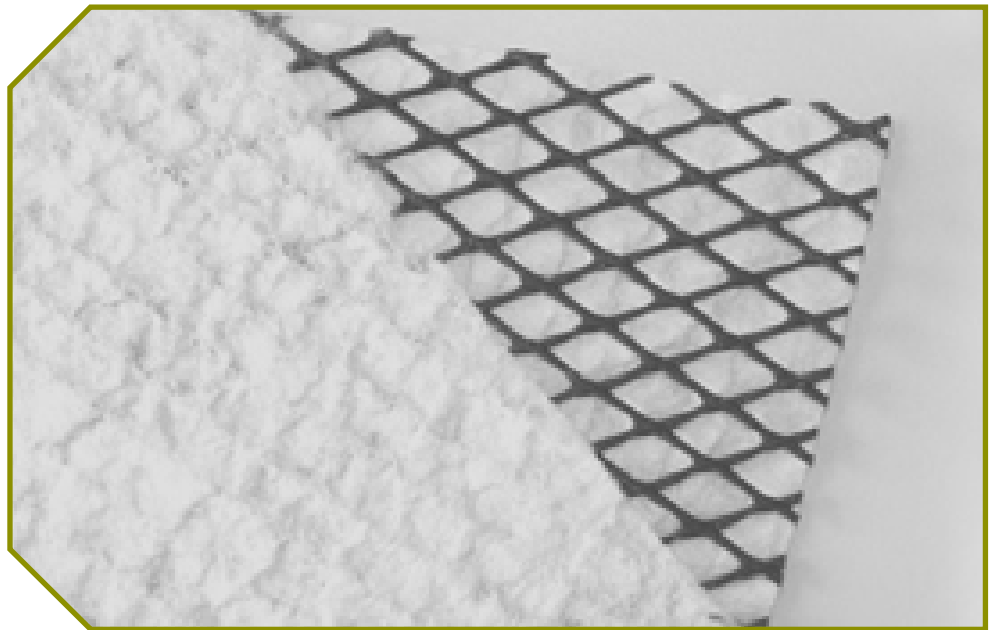


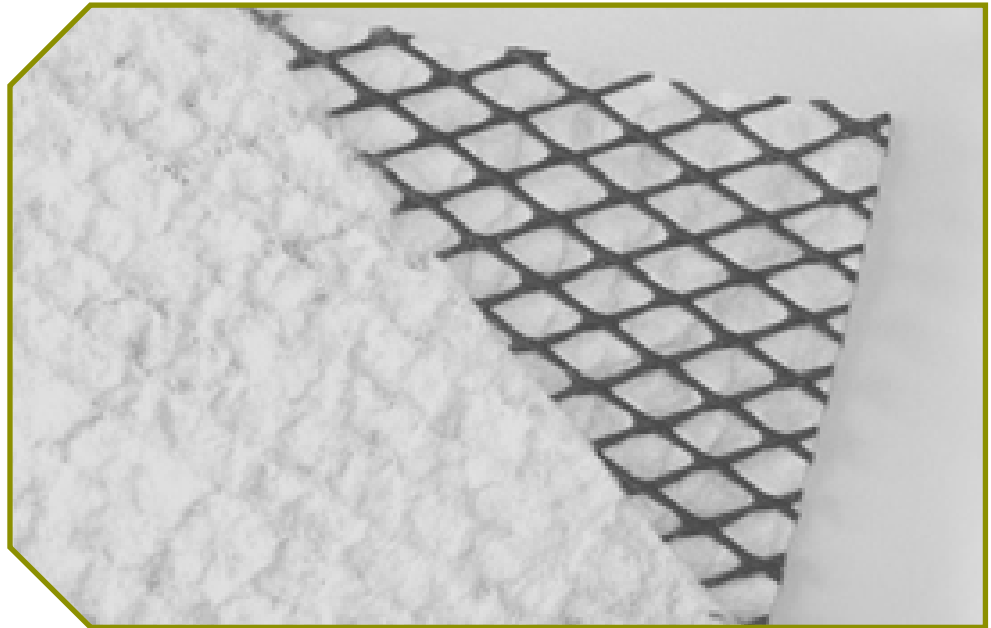
**MoRTH  
GS-DRAIN:  
GSC47102**

**TECHNICAL DATA SHEET**



“Geo Source, Geo-Composite drains are created by bonding together Geo-textiles and Geo-nets in different combinations to suit a specific application, each layer providing a specific performance or function. The textile layer provides the filter function, allowing liquids and gases to pass into the net core but preventing soil particles from washing into and clogging the core.”

MoRTH GS-DRAIN: GSC47102				
Properties	Test Method	Unit	Value	
<b>Geo-Composite</b>				
Mass Per Unit Area	EN ISO 9864	gm/m <sup>2</sup>	710	
Thickness	EN ISO 9863	mm	4.5	
Tensile Strength	EN ISO 10319	Kn/M	16	
CBR Puncture	EN ISO 12236	N	3000	
In Plane Permeability	Hydraulic Gradient I=1 @ 100 Kpa	EN ISO 12958	l/m	0.55
	Hydraulic Gradient I=1 @ 200 Kpa	EN ISO 12958	l/m	0.45
<b>Geo-Textile (Filter Layer)</b>				
Material	Polypropylene Staple Fiber			
Mass Per Unit Area	ASTM D 5261	gm/m <sup>2</sup>	130	
Thickness	ASTM D 5199	mm	0.9	
Grab Strength	ASTM D 4632	N	500	
Elongation	ASTM D 4632	%	45	
Trap Tear	ASTM D 4533	N	150	
Permeability	ASTM D 4491	m/sec	5*10-6	
AOS	ASTM D 4751	Micron	220	
<b>Geo-Net (Drainage Layer)</b>				
Material	High Density Polyethylene			
Carbon Black Content	ASTM D 4218	%	2	
Melt Flow	ASTM D 1238	g/10 min	10	



**MORTH  
GS-DRAIN:  
GSC47102  
TECHNICAL DATA SHEET**

Roll Packaging	
Roll Dimensions (Mtr)	2.*100 / 4*100
Roll Area (M2)	200 / 400
Roll Weight (Kgs)	142 / 284
Core	3"
Packaging	Wrapped In Black Stretch Film

\* We can do OEM packaging and private labeling for bulk orders

**Terms & Conditions**

- Above values are obtain in our laboratory and are **Typical Values.**
- There may be variation in above values due to various factors when tested at other laboratory.
- The above values may also vary if the fabric is converted in to any value added product or used in combination with other products.
- The values may also change due to transportation damages & improper storage and handling at site.
- Client shall ensure that Storage is strictly done as per ASTM standard.

**Application of GS Drain**

- **Highways:** vertical edge-of-carriageway drains intercept the lateral flow of ground water. Modern fin drains reduce excavation, reduce backfill quantities and reduce installation time. In-slope drainage increases geotechnical stability.
- **Retaining walls and bridge abutments:** to reduce pore water pressure and avoid backfill saturation.
- **Landfills:** with the additional requirement of long-term chemical resistance and high compressive strength.
- **Tunnels:** ground-water-seepage interception between rock face and the tunnel lining.