

# Geosheet®

## Prefabricated Subsoil Drainage System

### Technical Data Sheet



QUALITY - SUPPORT - EXPERTISE



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## DESCRIPTION

**Geosheet®** is a single or double cusped HDPE sheet designed specifically to provide vertical drainage behind bridge abutments, retaining walls and in basements. **Geosheet®** replaces the conventional use of aggregate (which is expensive and difficult to compact) to form a vertical drainage layer. **Geosheet®** is supplied with a nonwoven geotextile, glued to one side, to act as a filter. The high compressible strength and flexibility of **Geosheet®** ensures long-term performance and cost savings through easy and fast installation.

**Geosheet®** is supplied in two standard thicknesses, 15 mm and 18 mm. It has a minimum compressive strength of 200kPa to withstand loads and compressible soils.

## SPECIFICATIONS

Specifications	Test Method	Units	Product Code	
			CS15F	CS20F
<b>Core Properties</b>				
Core Structure	-		Single cusped profile	Double cusped profile
Core Material	-		HDPE	HDPE
Compressive Strength	-	kPa	200	250
Width	-	mm	1,200	1,200
Standard Thickness	-	mm	15	18
Discharge Capacity	ASTM D 4716	L/m <sup>2</sup> /hr	20,000	6,600 (one side only)
			@ 200kPa and hydraulic gradient of 1	
<b>Geotextile Filter Properties</b>				
Structure	-		Nonwoven	Nonwoven
Material	-		Polyester	Polyester
Flow Rate	AS 3706.9	L/m <sup>2</sup> /s	75	75
Trapezoidal Tear	AS 3706.3	N	320	320
Grab Tensile	AS 3706.2	N	730	730
<b>Packing Details</b>				
Roll Length	Nominal	m	30	30
Roll Diameter	Nominal	m	0.85	0.85

The data and specifications contained in this table are obtained from the manufacturer's laboratory testing. To ensure this information is current please contact your local branch of Geofabrics Australasia.

## INSTALLATION

**Geosheet®** may be installed either vertically or horizontally. Methods of fixing **Geosheet®** while backfilling operations take place include:

- (i) contact adhesives such as 100 mm wide double sided tape,
- (ii) nailing to concrete or brick walls,
- (iii) temporary poles to hold in position.

**Geosheet®** must always be installed with the geotextile facing the backfill material.

## JOINING

Adjacent rolls are joined by overlapping (50 to 100 mm) or by joining the HDPE cusped core where required. The overlying geotextile should be joined by overlapping 50 to 100 mm.

## BACKFILLING

A free draining backfill material should be selected to avoid the formation of a less permeable barrier than the **Geosheet®** composite layer. Care should be taken to ensure that all cover materials are placed in such a manner that **Geosheet®** is not damaged during installation.

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