

# Specifications

## GCCM

8mm thick (9mm hydrated)

### Geosynthetic Cementitious Composite Mats

TerraFix GCCM-7 is a flexible needlepunched reinforced composite comprised of a core of cement-sand mix between two durable geotextile layers to form a durable reinforced concrete mat when hydrated on site following deployment. The product is intended for moderate to steep slopes. The rolls are 5m x 20m (16'4" x 65'7") with a weight of 1800 lbs.

Property	ASTM Test Method	Notes	Value Imperial Units	Value Metric Units
<b>Properties prior to Hydration</b>				
• Thickness	D5199		0.3 inches	8.0mm
• Mass/Unit Area	D5993		1.4 lbs/sqft	7.1 kg / m <sup>2</sup>
• Tensile Strength	D6768		90 lbs/in MD 145 lbs/in TD	15 kN/m MD 25 kN/m TD
• Density	Typical		50 lbs/cubic foot	850 kg/m <sup>3</sup>
<b>Finished GCCM Properties</b>				
• Compressive Strength	D 8329	Cured 28 days	3,000 psi	20 Mpa
• Tensile (Final) Strength	D 4885	Cured 28 days	160-190 lb/in Typical	25-30 kN/m Typical <sup>1</sup>
• Flexural (Final) Strength	D 8058	Cured 24 hrs	215-250 psi min	1.4-1.7 MPa min
• Free / Thaw Resistance	C 1185	Final Flexural	450-300 psi	3-2 MPa
• Permeability	D 5887	Weekly	2.5 x 10 <sup>-7</sup> cm/s max	2.5 x 10 <sup>-7</sup> cm/s max
• Index Flux	D 5887	Weekly	8.2 x 10 <sup>-7</sup> m <sup>3</sup> /m <sup>2</sup> /s	8.2 x 10 <sup>-7</sup> m <sup>3</sup> /m <sup>2</sup> /s
• Puncture Resistance	D 5494	Cured 28 days	1000 lbs Typical	4 kN Typical
• Large Scall Channel Testing	D 6460	Trapezoidal	0.022 Manning's n	

(1) Machine Direction – Transverse Direction.

The information contained herein has been compiled by supplier and is, to the best of our knowledge, true and accurate. This information is offered without warranty. Final determination of suitability for use contemplated is the sole responsibility of the user. This information is subject to change without notice. 05-2023.