

DEPLOY 14R PROPERTIES

Geosynthetic Cementitious Composite Barrier (GCCB) powered by Concrete Canvas

Packaging Dimensions

	Unit	Typical Values
Length	cm	258
Width	cm	127
Height	cm	72
Weight	kg	365

Product Measurements

Base & Top Material: 1.2 mm PVC Geomembrane	–	–
Wall Material: GCCB CCH8 and CCH5	–	–
Diameter	m	3
Height of Wall	m	2
Total Height (including top dome)	m	2.5
Capacity	m ³	14
Setting Type: Hydration	–	–
Minimum Water for Hydration	ltr	174
Working Time from Hydration	hrs	1 - 2
Minimum Curing Time	hrs	24
Cured Weight	kg	479
Product Lifetime	ys	20

Fittings Included

Outlet (Female BSD PVC)	in	2, 3, 4
Inlet (Socket / Spigot PVC tank connector)	in	2, 3, 4
Overflow (Plain Spigot PVC tank connector)	in	4

Reinforcement Cage

Fiberglass Poles in walls	mm	16
Fiberglass Poles in roof	mm	9
Tensile Strength of Fiberglass Poles	kN/m ²	140 x 10 ⁴

Installation

Type: Air Inflation	–	–
Inflation System: Air Blower (<i>not included - Deploy Team Equipment</i>)	–	–
Diameter of Air Blower Outlet	mm	110
Inflation *Full Volume	hrs	≤1
Inflation Duration *During and After Hydration	hrs	24



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GCCM MATERIAL (CONCRETE CANVAS HYDRO)

Physical Properties (Pre-set)

	Test Method	Unit	Typical Values
Thickness	BS EN 1849-2	mm	6 and 8
Mass per unit area	BS EN 1849-2	kg/m ³	8 and 13
Concrete Density	BS EN 1849-2	kg/m ³	1430 - 1540

Mechanical Performance (Pre-set)

Compressive Strength of Cementitious Mix *24h	ASTM D8329	MPa	50
Compressive Strength of Cementitious Mix *28d	ASTM D8329	MPa	80
Water: GCCB Ratio (ASTM D8030)	–	–	0.33

Other Properties

Weathering Resistance	BS EN 12467	–	Passed
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GEOMEMBRANE MATERIAL

Physical Properties

	Test Method	Unit	Typical Values
Thickness	EN 1849-2	mm	1.2
Density	EN ISO 1183 - ASTM D 792	g/cm ³	1.24 ± 5%
Tensile Strength	EN ISO 527-4	N/50 mm	≥1050
Tear Strength	ISO 34	kN/m	≥150

Other Properties

Water Permeability	EN 14150	m ³ /m ² /day	1 x 10 ⁻⁶
Resistant to Artificial Weathering	EN 12224	–	Passed
Resistant under Water Pressure	DIN 16726	h	Waterproof at 6 Bar / 72h

