

## 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 <sup>3</sup>	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	yrs	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 <sup>2</sup>	140 x 10 <sup>4</sup>

### 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 <sup>3</sup>	8 and 13
Concrete Density	BS EN 1849-2	kg/m <sup>3</sup>	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

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 <sup>3</sup>	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 <sup>3</sup> /m <sup>2</sup> /day	1 x 10 <sup>-6</sup>
Resistant to Artificial Weathering	EN 12224	-	Passed
Resistant under Water Pressure	DIN 16726	h	Waterproof at 6 Bar / 72h

