MODEL 14R

DATA SHEET

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Geosynthetic Cementitious Composite Barrier (GCCB) powered by Concrete Canvas

Packaging Dimensions	Unit	Typical Value
Length	cm	230
Width	cm	95
Height	cm	79.95
Weight	kg	256
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	m³	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	300
Product Lifetime	yrs	20
Fittings Included		
Outlet Female Thread (Polypropylene body)	in	2, 3, 4
Inlet (Socket / Spigot PVC tank connector)	in	2, 3, 4
Overflow (Plain Spigot PVC tank connector)	in	4
Maintenance Outlet (Plain Spigot PVC tank connector)	in	2
Reinforcement Cage		
Fiberglass Poles in walls	mm	16
Fiberglass Poles in roof	mm	11
Tensile Strength of Fiberglass Poles	kN/m²	140 x 10 ⁴
Installation		
Type: Air Inflation	-	_
Inflation System: Air Blower (not included - Deploy Team Equipment)	-	-
Diameter of Air Blower Outlet	mm	110
Inflation *Full Volume	mins	≤10
Inflation Duration *During and After Hydration	hrs	8

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DEPLOY

MODEL 14R

DATA SHEET

DEPLOY 14R PROPERTIES

Geosynthetic Cementitious Composite Barrier (GCCB) powered by Concrete Canvas

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/m³	9 and 13
Concrete Density	BS EN 1849-2	kg/m³	1430 - 1540
Mechanical Performance (Pre-set)			
Compressive Strength of Cementitious Mix *28d	ASTM D8329	MPa	45 and 60
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/cm³	1.24 ± 5%	
Tensile Strength	EN ISO 527-4	N/50 mm	≥1050	
Tear Strength	ISO 34	kN/m	≥150	
Other Properties				1
Water Permeability	EN 14150	m³/m²/day	1 x 10 ⁻⁶	
Resistant to Artificial Weathering	EN 12224	_	Passed	
Resistant under Water Pressure	DIN 16726	h	Waterproof at 6 Bar / 72h	

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