

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 | 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 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 |

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 |

