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Concrete Canvas® (CC) properties

## Pre-set (uncured) ASTM D8364 'Standard Specification for GCCM Materials' Classification **GCCM Classification ASTM D8364** Ш Ш Type **Dimensions Thickness ASTM D5199** in (mm) 0.2(5)0.3(7)0.4 (11) **Batched Roll Sizes** ft 3.28 x 33 3.61 x 15 N/A Area of CC per Batched Roll 108 54 N/A **Bulk Boll Sizes** ft 3.28 x 558 3.61 x 373 3.61 x 239 Area of CC per Bulk Roll $\mathsf{ft}^2$ 1830 1346 861 **Physical Properties** Mass per Unit Area ASTM D5993 Proc A lbs/ft2 1.63 2.46 3.89 Density ASTM D5933/D5199 lbs/ft3 97-109 **Density Increase on Curing** % Increase 15-25 Peel Strength (strength of internal linking fibres) BS EN ISO 13426-2 lbf/in 22 25 28 **Other Properties** Working Time from Hydration (refer to the CC Hydration Guide) Hours 1 to 2 $\textbf{Embodied CO}_{2} \, \textbf{Saving} \, (\text{cradle to gate for CCT2}^{\text{TM}} \, \text{vs poured concrete})$ ISO 14040 % Saving 62 Post-set (cured) at 28 days from hydration unless specified (Hydrated by full immersion in accordance with ASTM D8030) **Mechanical Performance** Compressive Strength of Cementitious Mix (water/cementitious materials ratio to ASTM D8329) **ASTM D8329** psi 6500 8700 9400 Flexural Strength - at 24 Hours from Hydration (MD) - Initial Flexural Strength **ASTM D8058** >580 psi - Initial Breaking Load **ASTM D8058** lbf/in 4.3 10.0 28.6 - Final Flexural Strength **ASTM D8058** 1400 850 850 psi **Dynamic Puncture Resistance** (depth of perforation) **BS EN ISO 13433** 0\* in **BS EN ISO 14574 Pyramid Puncture Resistance** lbf 900 1550 2800 Differential Ground Movement (strain to PVC failure) % >2 >5 >5 **Coefficient of Thermal Expansion** a (mm/mk) 0.012-0.015 Environmental Durability (minimum 120 year expected life) Freeze - Thaw Resistance (retained Initial Flexural Strength after 200 cycles) BS EN 12467 % 80 Weathering (UV) Resistance (retained initial flexural strength) BS EN 12224 >100 % Microbiological Resistance (retained initial flexural strength) BS EN 12225 % >100 Chemical Resistance (refer to CC Chemical Resistance) BS EN 14414 Passed Root Resistance (refer to CC Root Resistance Testing) DD CEN/TS 14416 Passed **Hydraulic Performance ASTM C1353** in/1000 Cycles 0.006 Abrasion Resistance (cementitious barrier depth of wear)

**Manning Roughness Coefficient** 

Occasionally there will be a Beam Fault (labric imperfection under 100mm wide running across the width) in a Bulk Roll. This fault is unavoidable due to the manufacturing process and the fault will be clearly marked with a white tag, there will be a maximum of (1) one Beam Fault is a rull will not reach the performance specified in this Data Sheet. The maximum un-useable material due to any Beam Fault as fault will be 100mm. There are no beam fault is a standard batched rolls. Roll dimension tolerances are typically 4:5%-25%

Information is provided based on current test data and may be subject to change as new information becomes available. The versatile nature of Concrete Carvas\* means that all application conditions cannot be anticipate Concrete Carvas. Ltd makes no warranties and assumes no liability in connection with this information. Project specific testing may be required to determine the suitability for Concrete Carvas\* material use in a particul application.





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**ASTM D6460** 

<sup>\*</sup> Probe did not make a full penetration through the product, therefore the depth of penetration is zero