

Concrete Canvas® (CC) Properties

2505.01.EN

Pre-set (Uncured)	Test Method	Unit	Typical Values		
			CCT1 [®]	CCT2 [®]	CCT3 [®]
ASTM D8364 ‘Standard Specification for GCCM Materials’ Classification					
GCCM Classification	ASTM D8364	Type	I	II	III
Dimensions					
Thickness	BS EN 1849-2	mm	5	7	11
Batched Roll Sizes	*	m	1.0x10	1.1x4.55	N/A
Area of CC per Batched Roll	*	m ²	10	5	N/A
Bulk Roll Sizes**	*	m	1.0 x 170	1.1 x 114	1.1x 73
Area of CC per Bulk Roll	*	m ²	170	125	80
Physical Properties					
Mass per Unit Area	BS EN 1849-2	kg/m ²	8	12	19
Density	BS EN 1849-2	kg/m ³	1500-1750		
Density Increase on Curing	*	% Increase	15-25		
Other Properties					
Working Time from Hydration (refer to the CC Hydration Guide)	*	Hours	1 to 2		
Embodied CO ₂ Saving (cradle to grave for CCT2™ as a % of poured concrete - refer to CC CO ₂ Report)	ISO 14040	% Saving	62		

Post-set (Cured) - at 28 Days from Hydration unless specified

(Hydrated by full immersion in accordance with ASTM D8030)

Post-set (Cured) - at 28 Days from Hydration unless specified <small>(Hydrated by full immersion in accordance with ASTM D8030)</small>	Test Method	Unit	Typical Values		
			CCT1®	CCT2®	CCT3®
Mechanical Performance					
Compressive Strength of Cementitious Mix <small>(water/cementitious materials ratio to ASTM D8329)</small>	ASTM D8329	MPa	45	60	65
Flexural Strength - at 24 Hours from Hydration					
- Initial Breaking Load	ASTM D8058	N/m	750	1750	5000
- Initial Flexural Strength	ASTM D8058	MPa	4		
- Final Flexural Strength (MD/CD)	ASTM D8058	MPa	10/4.5	6/4.5	6/4.5
Dynamic Puncture Resistance <small>(depth of perforation)</small>	BS EN ISO 13433	mm	0***		
Pyramid Puncture Resistance	BS EN ISO 14574	kN	12		
Differential Ground Movement <small>(strain to PVC failure, MD/CD)</small>	*	%	>5/>1.5	>5/>3	>2/>2
Coefficient of Thermal Expansion	*	α (mm/m.k)	0.012-0.015		
Environmental Durability <small>(minimum 120 year expected life - see BBA Cert 19/5685)</small>					
Freeze - Thaw Resistance <small>(retained Initial Flexural Strength after 200 cycles)</small>	ASTM C1185	%	80		
Weathering (UV) Resistance <small>(retained Initial Flexural Strength)</small>	BS EN 12224	%	100		
Microbiological Resistance <small>(retained Initial Flexural Strength)</small>	BS EN 12225	%	100		
Chemical Resistance <small>(refer to CC Chemical Resistance)</small>	BS EN 14414 (Mod)	-	Passed		
Root Resistance <small>(refer to CC Root Resistance Testing)</small>	DD CEN/TS 14416	-	Passed		
Permissible Long Term pH Immersion	*	pH	4-9		
Hydraulic Performance					
Abrasion Resistance <small>(cementitious barrier depth of wear)</small>	ASTM C1353 / D8364	mm/1000 Cycles	0.15		
Manning's Roughness Coefficient	ASTM D6460	n	0.011		

The above values are typical and provide an indication of product performance based on testing by BICS Laboratories Ltd or TRI Environmental. Values marked with an asterisk (*) are based on Concrete Canvas Ltd laboratories internal assessments and testing. For design values, contact Concrete Canvas Ltd. *Bulk Rolls are supplied by area so the listed length and width dimensions are typical values and tolerances are typically +5%/-2.5% . *** Probe did not make a full penetration through the product, therefore the depth of penetration is zero.

Occasionally there will be a Beam Fault (fabric 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 in any Bulk Roll. A joint may need to be made on site where there is a Beam Fault as the material at a fault will not reach the performance specified in this Data Sheet. The maximum un-useable material due to any Beam Fault will be 100mm. There are no beam faults in standard Batched Rolls.

Information is provided based on current test data and may be subject to change as new information becomes available. The versatile nature of Concrete Canvas® means that all application conditions cannot be anticipated. Concrete Canvas 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 Canvas® material use in a particular application.





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Quick
Supply Co.



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GEOSYNTHETICS

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SOLUTIONS WE SUPPLY

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Stabilization Fabrics

Geogrids

- Road Grids
- Wall Grids
- Slope Stabilization

Specialty Fabrics

Composite Geomembranes

- GCLs, PVC, HDPE, LLDPE, EPDM, Granular Bentonite

SEDIMENT CONTROL

Inlet Protection

- Grated Inlet, Curb Inlet, Area Inlet Protection

Ditch Checks

- Triangle Silt Dike
- GeoRidge

Perimeter Protection

- High and Low-Porosity Silt Fence, Straw Wattles, Silt Socks
- Safety Fence

Flocculants & Water Treatment

- Polymer-Based & Natural Flocculants

Sediment Basin Skimmers

Dewatering Bags

Trackout Control

- FODS
- Rumble Grates

Turbidity Curtains

EROSION CONTROL

Basic Hydraulically Applied Mulches

- Wood
- Paper
- Blends
- Straw

High-Performance Hydraulically

Applied Products

- BFM
- FGM
- Additives & Tackifiers

Temporary Erosion Control Blankets

- Coir & Jute Mat/Nettings
- Short-Term ECBs
- Extended-Term ECBs

Permanent Erosion Control Blankets

- Turf Reinforcement Mats
- HP-TRMs
- Anchor Reinforced Vegetation System

Structural BMPs

- Transition Mats
- Geoweb Cellular Confinement
- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
- Articulated Concrete Block
- Gabions
- Grout-Filled Geotextile Mats

Vegetation Establishment

- Native Seed & Turf Seed
- Fertilizers
- Organic Soil Additives
- Stratavault Soil Cells

STORMWATER MANAGEMENT

Water Quality

- Inlet Filter Boxes
- Pre-Treatment Chamber
- Nutrient Separating Baffle Boxes
- High-Flow Biofiltration Media
- Hydrodynamic Separators
- Stratavault

Water Quantity

- Modular Underground Storage Systems
- Chamber Detention Systems

Drainage

- HDPE Swale Liner
- Pipe & Fittings
- Drainage Composites
- Strip Drain

Inlet Structures

- PVC
- Drain Basins, In-Line Drains
- Landscape

Permeable Pavers

- Permeable Articulating Concrete Block
- Grass Pavers
- Gravel Pavers
- Concrete Pavers

SPECIALTY

Natural & Synthetic Coir Fiber Logs

Vegetated Reinforced Soil Slopes

Soil Anchors

Root Barrier System

AquaBlok

Muscle Wall

We are full line distributors of construction materials for all project types. Contact us for assistance with a project. From specification and development to installation and completion, we're here to help with all of your site solution needs.

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