

## Concrete Canvas® (CC) properties

2306.01.EN

Pre-set (Uncured)	Test Method	Unit	Typical Values		
			CCT1™	CCT2™	CCT3™
<b>ASTM D8364 'Standard Specification for GCCM Materials' Classification</b>					
GCCM Classification	ASTM D8364	Type	I	II	III
<b>Dimensions</b>					
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 <sup>2</sup>	10	5	N/A
Bulk Roll Sizes*		m	1.0 x 170	1.1 x 114	1.1 x 73
Area of CC per Bulk Roll		m <sup>2</sup>	170	125	80
<b>Physical Properties</b>					
Mass per Unit Area	BS EN 1849-2	kg/m <sup>2</sup>	8	12	19
Density	BS EN 1849-2	kg/m <sup>3</sup>	1550-1750		
Density Increase on Curing		% Increase	15-25		
Peel Strength - strength of internal linking fibres (MD)	BS EN ISO 13426-2	kN/m	4.0	4.5	5.0
<b>Other Properties</b>					
Working Time from Hydration (refer to the CC Hydration Guide)		Hours	1 to 2		
Embodied CO <sub>2</sub> Saving (cradle to grave for CCT2™ as a % of poured concrete - refer to CC CO <sub>2</sub> 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	Test Method	Unit	Typical Values		
			CCT1™	CCT2™	CCT3™
<b>Mechanical Performance</b>					
Compressive Strength of Cementitious Mix (water/cementitious materials ratio to ASTM D8329)	ASTM D8329	MPa	45	60	65
Flexural Strength - at 24 Hours from Hydration (MD)					
- Initial Breaking Load	ASTM D8058	N/m	750	1750	5000
- Initial Flexural Strength	ASTM D8058	MPa	>4.0		
- Final Flexural Strength	ASTM D8058	MPa	10	6	6
Dynamic Puncture Resistance (depth of perforation)	BS EN ISO 13433	mm	0**		
Pyramid Puncture Resistance	BS EN ISO 14574	kN	4.0	7.0	12.5
Differential Ground Movement (strain to PVC failure)		%	>5	>5	>2
Coefficient of Thermal Expansion		α (mm/m.k)	0.012-0.015		
<b>Environmental Durability (minimum 120 year expected life - see BBA Cert 19/5685)</b>					
Freeze - Thaw Resistance (retained Initial Flexural Strength after 200 cycles)	ASTM C1185	%	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		
<b>Hydraulic Performance</b>					
Abrasion Resistance (cementitious barrier depth of wear)	ASTM C1353	mm/1000 Cycles	0.15		
Manning's Roughness Coefficient	ASTM D6460	n	0.011		

\*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.





# LOCATIONS & CONTACT INFO

## ASP ENTERPRISES

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Salt Lake City, UT 435.276.0820

# SOLUTIONS WE SUPPLY

## GEOSYNTHETICS

Filter Fabrics  
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 Basis, 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.

**GEOSYNTHETICS | EROSION CONTROL | STORMWATER MANAGEMENT  
SEDIMENT CONTROL | REVEGETATION & SOIL AMENDMENTS**