

Concrete Canvas® (CC) properties



2208.01.EN

Pre-set (Uncured)	Test Method	Unit	Typical Values		
			CCT1™	CCT2™	ССТ3™
ASTM D8364 'Standard Specification for GCCM Materials' Classification					
GCCM Classification	ASTM D8364	Туре	ı	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		m²	10	5	N/A
Bulk Roll Sizes*		m	1.0 x 170	1.1 x 114	1.1 x 73

Area of CC per Batched Roll		m²	10	5	N/A	
Bulk Roll Sizes*		m	1.0 x 170 1.1 x 114 1.1 x			
Area of CC per Bulk Roll		m²	170	125	80	
Physical Properties						
Mass per Unit Area	BS EN 1849-2	kg/m²	8	12	19	
Density	BS EN 1849-2	kg/m³	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	
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		
Deat act (Cured) at 20 Days from Hydrotian unless appointed			Typical Values			

Post-set (Cured) - at 28 Days from Hydration unless specified	Took Makka d	Unit	Typical Values		
(Hydrated by full immersion in accordance with ASTM D8030)	Test Method		CCT1™	CCT2™	ССТ3™
Mechanical Performance					
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		a (mm/mk)		0.012-0.015	;
Environmental Durability (minimum 120 year expected life - see BBA Cert 19/5685)					
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		
Hydraulic Performance					
Abrasion Resistance (cementitious barrier depth of wear)	ASTM C1353	mm/1000 Cycles	0.15		
Manning's Roughness Coefficient	ASTM D6460	n	0.011		

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 sits 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.











