



Concrete Canvas® (CC) properties

2206.01.EN

Pre-set (Uncured)	Test Method	Unit	Typical Values		
			CCT1™	CCT2™	CCT3™
ASTM D8364 'Standard Specification for GCCM Materials' Classification					
GCCM Classification	ASTM D8364	Туре	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		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 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 CC8™ 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)	Test Method	Unit	Typical Values			
			CCT1™	CCT2™	CCT3 ¹	
Mechanical Performance						
Compressive Strength of Cementitious Mix (water/cementitious materials ratio to ASTM D8329)	ASTM D8329	MPa		60		
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			

onally 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 The maximum un-useable material due to any Beam Fault will be 100mm. There are no beam faults in standard batched rolls.













