

DATA SHEET

Concrete Canvas® (CC) properties 2104.01.El							
Pre-set (Uncured)		Test Method	Unit	Typical Values			
				СС5™	СС8™	CC13™	
ASTM D8364 'Standard Specification for GCCM Materials' Classification	on						
GCCM Classification		ASTM D8364	Туре	1	II	III	
Dimensions							
Thickness		BS EN 1849-2	mm	5	8	13	
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 200	1.1 x 114	1.1 x 73	
Area of CC per Bulk Roll			m²	200	125	80	
Physical Properties							
Mass per Unit Area		BS EN 1849-2	kg/m²	7	12	19	
Density		BS EN 1849-2	kg/m³	1430-1540			
Density Increase on Curing			% Increase	30-35			
Peel Strength - strength of internal linking fibres (MD)	E	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		

ISO 14040

% Saving

Post-set (Cured) - at 28 Days from Hydration unless specified (Hydrated by full immersion in accordance with ASTM D8030)	Test Method	Unit	Typical Values		
			СС5™	СС8™	CC13™
Mechanical Performance					
Compressive Strength of Cementitious Mix (water/cementitious materials ratio to ASTM D8329)	ASTM D8329	MPa	80		
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		5
Environmental Durability (minimum 120 year expected life - see BBA Cert 19/5685)					
Freeze - Thaw Resistance (retained Initial Flexural Strength after 250 cycles)	BS EN 12467	%	95		
Weathering Resistance (refer to CC Weather Resistance)	BS EN 12467	-	Passed		
Chemical Resistance (refer to CC Chemical Resistance)	BS EN 14414	-	Passed		
Root Resistance (refer to CC Root Resistance Testing)	DD CEN/TS 14416	-	Passed		
Reaction to Fire (refer to CC Fire Certification)	BS EN 13501	-	Euroclass B-s1, d0		
Hydraulic Performance					
Abrasion Resistance (cementitious barrier depth of wear)	ASTM C1353	mm/1000 Cycles	0.2		
Manning's Roughness Coefficient	ASTM D6460	n	0.011		
Recommended Permissible Velocity (intermediate fixings may be required - contact CC Ltd)		m/s	Application Dependent	<8.6	>8.6

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 in any Bulk Roll. A joint may need to be made on site where there is a Beam Fault as the material at a bult 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. Roll dimension tolerances are hypically 45%-2.5%











 $\textbf{Embodied CO}_{2} \, \textbf{Saving} \, \, (\text{cradle to grave for CC8}^{\text{TM}} \, \text{as a \% of poured concrete - refer to CC CO}_{2} \, \text{Report)}$





