

INSTA-SLAB (IS) PROPERTIES

Components

CCT1 / CCT2	Standard slabs are made of CCT1 (5mm thickness) material. More demanding applications use CCT2 (7mm thickness) material.
Brass Eyelets	Connection point for pegging.
Plastic Strip Cover	Additional protection for slab edges.
Pegs / Anchor Bolts	Depends on the substrate. Soil/Pegs; Rock or Concrete/Anchor bolts.

Dimensions

Unit

Typical Values

IS 2IS 3IS 4IS 5IS 6

Length	m	2	3	4	5	6
Width	m	2	3	4	5	6
Area	m ²	4	9	16	26	36
Eyelet Spacing	cm			79		
Eyelet Inner Diameter	mm			17		
Eyelet Outer Diameter	mm			28		
Strip Cover Width	cm			5		
Strip Cover Length	m			1		
Total Strip Covers	Unit	2	3	4	5	6
Peg Length	cm			15		
Peg Diameter	mm			4		
Peg Head Diameter	mm			20		
Anchor Bolts				M10		

Physical Properties

Test Method

Unit

Typical Values

CCT1 TMCCT2 TM

Mass per Unit Area	BS EN 1849-2	kg/m ²	8	12
Density	BS EN 1849-2	kg/m ³	1550	1750
Density Increase on Curing	–	% increase	15	25
Peel Strength	BS EN ISO 13426-2	kN/m	4.0	4.5
Working Time from Hydration	–	Hours	1 - 2	1 - 2
Embodied CO ₂ Saving*	ISO14040	% saving	62	62

*Cradle to grave for CCT2 as a percentage of poured concrete.



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Mechanical Performance	Test Method	Unit	Typical Values	
			CCT1 TM	CCT2 TM
Compressive Strength of Cementitious Mix	ASTM D8329	MPa	45	60
Flexural Strength (at 24 Hours from Hydration (MD))				
Initial Breaking Load	ASTM D8058	N/m	750	1750
Initial Flexural Strength	ASTM D8058	MPa	> 4.0	> 4.0
Final Flexural Strength	ASTM D8058	MPa	10	6
Pyramid Puncture Resistance	BS EN ISO 14574	kN	4.0	7.0
Freeze - Thaw Resistance (<i>retained Initial Flexural Strength after 200 cycles</i>)	ASTM C1185	%	80	80
Weathering (UV) Resistance (<i>retained Initial Flexural Strength</i>)	BS EN 12224	%	> 100	> 100
Microbiological Resistance (<i>retained Initial Flexural Strength</i>)	BS EN 12225	%	> 100	> 100
Chemical Resistance (<i>refer to CC* Chemical Resistance</i>)	BS EN 14414	–	Passed	Passed
Root Resistance (<i>refer to CC* Root Resistance Testing</i>)	DD CEN/TS 14416	–	Passed	Passed

Hydraulic Performance

Abrasion Resistance (cementitious barrier depth of wear)	ASTM C1353	mm / 1000 cycles	0.15	0.15
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Environmental Durability (minimum 120 year expected life - see BBA Cert 19/5685)

The concrete-filled fabirc used in our Slabs is made by Concrete Canvas Ltd. This material has BBA and ISO 9001 certifications

*CC: *Concret Canvas*

