

		CC 100	CC 150	CC 350	CC 450	
MECHANICAL PROPERTIES						
Bulk density (EN 1094-4)						
(± 10%)	kg/m ³	860	1040	1050	950	
	lbs/cu.ft.	54	65	66	59	
Open porosity (in acc. to EN 1094-4)						
	%	68	60	58	63	
Compressive strength (EN 1094-5)						
	MPa	14	20	28	27	
	lbs/sq.in.	2030	2900	4060	3915	
Flexural strength (EN 12089)						
	MPa	7	10	13	15	
	lbs/sq.in.	1015	1450	1885	2175	
Hardness (DIN 53505)						
	Shore D	55	66	70	65	
THERMAL PROPERTIES						
Service temperature						
	°C	1000	1000	1000	1000	
	°F	1832	1832	1832	1832	
Shrinkage after 12 h (EN 1094-6)						
Length-width / thickness	@ 750°C (1382°F)	%	0,2/0,6	0,05/0,2	0,25/0,8	0,1/0,6
	@ 1000°C (1832°F)	%	0,3/1,1	0,12/0,7	0,3/1,5	0,15/1,8
Thermal conductivity (EN 993-14)						
mean temp.	@ 400°C	W/(mK)	0,24	0,25	0,25	0,24
	@ 600°C	W/(mK)	0,25	0,27	0,27	0,25
	@ 800°C	W/(mK)	0,28	0,29	0,29	0,28
	@ 752°F	BTU/(sq.ft.h°F/in)	1,66	1,73	1,73	1,66
	@ 1112°F	BTU/(sq.ft.h°F/in)	1,73	1,87	1,87	1,73
	@ 1472°F	BTU/(sq.ft.h°F/in)	1,94	2,01	2,01	1,94
Specific heat capacity						
		kJ/(kgK)	0,8-1,2	0,8-1,2	0,8-1,2	0,8-1,2
		BTU/(lb°F)	0,19-0,29	0,19-0,29	0,19-0,29	0,19-0,29
Coefficient of thermal expansion						
	@ 900°C	K ⁻¹	5,7x10 ⁻⁶	5,0x10 ⁻⁶	5,9x10 ⁻⁶	5,7x10 ⁻⁶
	@ 1652°F	°F ⁻¹	3,2x10 ⁻⁶	2,8x10 ⁻⁶	3,3x10 ⁻⁶	3,2x10 ⁻⁶
CHEMICAL PROPERTIES						
Chemical composition						
	Calciumsilicate	%				95-97
	CaO-; MgO-; Al ₂ O ₃ -silicates	%	97,5-98	97,5-98	97,5-98	
	R _x O _x (R=Fe, Ti, K, Na)	%	1	1	1	1
	Loss on ignition (LOI)	%	2-2,5	1-1,5	2-2,5	3-3,5
DIMENSIONS						
Standard sizes		mm		inches		
both sides sanded, untrimmed						
Length		1500, 3000		59.1, 118.1		
Width		1250		49,2		
Thickness		12.7, 19.1, 25.4, 31.8, 38.1, 50.8 76.2, 101.6		½; ¾, 1¼, 1½, 2, 3, 4		
Dimensional tolerances		mm		inches		
Length		± 15		± 0.59		
Width		0/+8		0/+0.31		
Thickness		0/+0,8		0/+0.03		

These values are tested in accordance with standards. They represent typical average values, but are subject to variations of raw materials and production variances. We are not liable for damages, connected with the use of our products. Misprints and errors excepted.

General remarks

Large sections should be supported by using adequate support systems. CALCAST® can be mechanically fixed using glue and/or screws. CALCAST® must be stored in dry environment. For additional information please contact CALSITHERM Silikatbaustoffe GmbH.

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