

# Product definition

Insulating Bricks and Slabs

Product  
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**TR 25-11 E**

Other names : RL 13-11 E

Ref-date : 2007-C

Maximum Classified Temperature : **1 350 °C** Mark on the brick \* : TR25-11E

Brand code : I121

Description: Very good mechanical resistance and very good resistance under load at high temperature.

Properties :	Standards	Units	Average μ	Std. Dev. S	Limits	
					Ti (lower)	Ts (upper)
Classification :	ISO 2245		135			
Classification :	ASTM C155					
Bulk density :	ISO 5016	g/cm <sup>3</sup>	1.15	0.05		1.25
Cold Crushing Strength : (// to extrusion or perpendicular to pressing direction)	ISO 8895	MPa	10	0.8	8	
Permanent Linear Change : 12h to 1350°C	ISO 2477	%	-0.4			1
Chemical analysis :	XRF	%				
	Al <sub>2</sub> O <sub>3</sub>		37			
	SiO <sub>2</sub>		56			
	Fe <sub>2</sub> O <sub>3</sub>		1.3			
	TiO <sub>2</sub>		1			
	CaO+MgO		0.6			
	Na <sub>2</sub> O+K <sub>2</sub> O		3.2			
Thermal Conductivity :	ASTM C182	W/m.K				
(Through 114 mm dimension)						
	200 °C		0.32			0.40
	400 °C		0.36			0.42
	600 °C		0.40			0.47
	800 °C		0.44			0.49
	1 000 °C		0.47			0.51
	1 200 °C					
Reversible Thermal Expansion : (20°C to 1000°C)	NF B40 308	%	0,5			
Pyroscopic Cone Equivalent :	ISO 528	°C	1730			

Dimensional tolerances:	Standard pieces	Non Standard pieces
	Length Width Thickness Squareness	± 1 mm ± 1 mm ± 1 mm 1mm / 100mm

Other Informations :	
Recommended mortar :	Heatset : TC 1400 S or TC 1400 H (S = Dry, H = Ready to use) Airset : TH 1400 S or TH 1400 H (S = Dry, H = Ready to use)
Manufacturing Plant :	LIBOS (F47500)

Physical properties are based on averages of routine quality controls carried out from bricks 230 x 114 x 64 mm or 230 x 114 x 76 mm.

Averages and standard deviations are indicative values, limits (Ti et Ts) are guaranteed values.

\* The marking is not contractual.

Frequency, Sampling, Acceptation Methods are detailed in our C.T.C./Q.P.D. (Document n° 8030).