

# Product definition

Insulating Bricks and Slabs

Product : **TR 27-08E**

Other names :

Ref-date : 2007-C

Maximum Classified Temperature : **1 300 °C** Mark on the brick \* : TR27-08E

Brand code : 1162

Description: Class 26 low density and resistant to high temperature

Properties :	Standards	Units	Average μ	Std. Dev. S	Limits	
					Ti (lower)	Ts (upper)
Classification :	ISO 2245		140 L			
Classification :	ASTM C155		26			
Bulk density :	ISO 5016	g/cm <sup>3</sup>	0.78	0.04		0.9
Cold Crushing Strength : (// to extrusion or perpendicular to pressing direction)	ISO 8895	MPa	2.8	0.5	2	
Permanent Linear Change : 12h to 1350°C	ISO 2477	%	-0.5			1
Chemical analysis :	XRF	%				
	Al <sub>2</sub> O <sub>3</sub>		42			
	SiO <sub>2</sub>		52			
	Fe <sub>2</sub> O <sub>3</sub>		1.1			
	TiO <sub>2</sub>		0.6			
	CaO+MgO		0.7			
	Na <sub>2</sub> O+K <sub>2</sub> O		1.6			
Thermal Conductivity : (Through 114 mm dimension)	ASTM C182	W/m.K				
	200 °C					0.31
	400 °C		0.23			0.36
	600 °C		0.26			0.38
	800 °C		0.28			0.44
	1 000 °C		0.30			0.50
	1 200 °C		0.33			
Reversible Thermal Expansion : (20°C to 1000°C)	NF B40 308	%	0,47			
Pyroscopic Cone Equivalent :	ISO 528	°C	1730			

Dimensional tolerances:	Standard pieces	Non Standard pieces
	Length Width Thickness Squareness	±1.5%, mini ±2mm ±1.5%, mini ±2mm ±1.5%, mini ±2mm 1mm / 100mm

Other Informations :	Quality for MSA
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).