

# IFB Refractories SAS

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## Product Definition

Insulating Bricks & Slabs

Product : **28-155**

Other names : **HR 155, RL28, RI28**

Maximum Classified Temperature : **1550°C**

Mark on the brick : 28-155

Ref date : 2017-B

Brand Code : 8809

Description : Refractory kaolin enriched with alumina

Properties :	Standards	Units	Average $\mu$	Std. Dev. $\sigma$	Limits	
					TI (low)	Th (high)
Classification	ISO 2245		150			
	ASTM C155		28			
Bulk density	ISO 5016	g/cm <sup>3</sup>	0,94	0,04		1,05
Cold Crushing Strength (// to extrusion or et 90° to pressing direction)	ISO 8895	Mpa	3	0,4	2	
Permanent Linear Change 12h at 1550°C	ISO 2477	%	-1		-2	
Chemical Analysis :	XRF	%				
	Al <sub>2</sub> O <sub>3</sub>		60		57	
	SiO <sub>2</sub>		37			
	Fe <sub>2</sub> O <sub>3</sub>		0,8			1,05
	TiO <sub>2</sub>		0,6			0,9
	CaO+MgO		0,4			0,7
	Na <sub>2</sub> O+K <sub>2</sub> O		0,9			1,5
Thermal Conductivity :	ASTM C182	W/m.K				
(through 114mm dimension)	200°C		0,32			0,42
	400°C		0,34			0,44
	600°C		0,37			0,47
	800°C		0,40			0,50
	1000°C		0,43			0,54
	1200°C		0,45			0,56
Reversible Thermal Expansion : (20°C to 1000°C)	NF B40 308	%	0,55			
Pyroscopic Cone Equivalent :	ISO 528	°C	1750			

Dimensional tolerances:	Standard Pieces		Non-Standard Pieces
	Length	±0.5%, mini ±1.5mm	
Width	±0.5%, mini ±1.5mm		
Thickness	±0.5%, mini ±1.5mm		
Squaring	1mm / 100mm		

Other Information :		
Recommended mortar	C 1650S or H C : Heat set S : Dry / Powder	RL 75S or H RL : Air set H : Ready to Use
Manufacturing Plant	PRF : Bricks and slabs	

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 and Th) are guaranteed values.

Tests frequency, sampling, and acceptance values for our products are detailed in our C.T.C/Q.P.D. (Document n°8030)