

1.3 Dense Refractory Brick: Grade H-02		
Floor tiles- Essential properties and characteristics for grade H-02		
properties	Unit	Value
Refractoriness Under Load T0.5 EN ISO 1893	°C	≥ 1420
Bulk Density EN 993-1	g/cm <sup>3</sup>	≥2.2
Apparent Porosity EN 993-1	%	13 ≤ AP ≤ 19
Cold Crushing Strength EN 993-5	N/mm <sup>2</sup>	≥40
Chemical Analysis EN ISO 12677, EN ISO 21587-3, EN ISO 12677		
Al <sub>2</sub> O <sub>3</sub>	wt%	≥42
Fe <sub>2</sub> O <sub>3</sub>		≤2.0
SiO <sub>2</sub>		>55
TiO <sub>2</sub>		≤ 0.2
CaO+MgO		≤ 1.0
Na <sub>2</sub> O + K <sub>2</sub> O		≤ 1.5
Thermal Conductivity ASTM C202-93 400°C	W/mK	1.1-1.2
800°C		1.2-1.3
1200°C		1.3-1.4
Thermal Expansion 20°C – 1000°C EN 993-19	%	≤0.6
Hot modulus of rupture 1300°C EN 993-7	MPa	≥ 70

L(mm)	W(mm)	H(mm)	V(dm <sup>3</sup> )	NO.	Drawing		PCS	Grade	type	Wight (Kg)
370	317	74	8.68	175	ZN	236823	1331	H-02	T3	26,572
336	276	84	7.79	171	ZN	236891	9768	H-02	P1	175,013
420	317	74	9.61	173	ZN	236815	13966	H-02	T1	306,763
							25,065			508,348