

<b>MATERIAL CODE NUMBER</b>	RDB-85
<b>CLASSIFICATION</b>	ASTM C-27 ---- high alumina brick
<b>SERVICE REQUIREMENTS</b>	An 88% alumina brick that has good strength, low porosity, and good abrasion resistance
<b>METHOD OF MANUFACTURE</b>	Dry-press
<b>QC TESTING FREQUENCY</b>	

PROPERTY	ASTM DESIGNATION	SPECIFICATION VALUE
PCE		37 - 38
Density lbs/ft <sup>3</sup>	C-20	181
Modulus of Rupture - psi	C-133	2200
Reheat Test - at 2900°F - %	C-113	1.0
Cold Crushing Strength* - psi	C-133	5500
Apparent Porosity - %	C-20	15.5 – 18.5
Thermal Cond. @ 815° mean temperature. K: Btu in/(h-ft <sup>2</sup> °F) -	C-201 and C417, Ascending Curve Max	
Chemistry (Composition %)		
Al <sub>2</sub> O <sub>3</sub>		83.9
Fe <sub>2</sub> O <sub>3</sub>		1.5
Si <sub>2</sub> O <sub>3</sub>		8.1
CaO		.1
TiO <sub>2</sub>		3.2
P <sub>2</sub> O <sub>5</sub>		2.7
Alkalies		.5