



Eden - Valders Stone | Valders Division

ASTM Classification Index by Type/Performance

Valders Stone & Marble
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Physical Properties	Test Method	Dimension Stone	Classification	Performance Requirements
Absorption by Weight Percentage (%)	C97	Limestone	Low Density	12% maximum
			Medium Density	7.5% maximum
			High Density	3% maximum
		Indiana Limestone		7.5 maximum
		Valders Limestone	High Density	Average - 0.95%
		Granite	Siliceous	0.40 of 1%
Marble	Calcite Dolomite	0.20 of 1%		
Density Pounds per Cubic Foot	C97	Limestone	Low Density	110 lbs./cu.ft. minimum
			Medium Density	135 lbs./cu.ft. minimum
			High Density	160 lbs./cu.ft. minimum
		Indiana Limestone		144 lbs./cu.ft. minimum
		Valders Limestone	High Density	Average - 166 lbs./cu.ft.
		Granite	Siliceous	160 lbs./cu.ft. minimum
Marble	Calcite Dolomite	162 lbs./cu.ft. minimum 175 lbs./cu.ft. minimum		
Compressive Strength Pounds per Square Inch	C170	Limestone	Low Density	1,800 psi minimum
			Medium Density	4,000 psi minimum
			High Density	8,000 psi minimum
		Indiana Limestone		4,000 psi minimum
		Valders Limestone	High Density	Average - 30,933 psi
		Granite	Siliceous	19,000 psi minimum
Marble	Calcite Dolomite	7,500 psi minimum		
Modules of Rupture Pounds per Square Inch	C99	Limestone	Low Density	400 psi minimum
			Medium Density	500 psi minimum
			High Density	1000 psi minimum
		Indiana Limestone		700 psi minimum
		Valders Limestone	High Density	Average - 2,626.7 psi
		Granite	Siliceous	1,500 psi minimum
Marble	Calcite Dolomite	1,000 psi minimum		
Abrasion Resistance Minimum Hardness Rating	C1353	Limestone	Low Density	R 10 or greater
			Medium Density	R 12 or greater
			High Density	R 6 - R17
		Indiana Limestone		Average - R 29.4
		Valders Limestone	High Density	
		Granite	Siliceous	R 25 or greater
Marble	Calcite Dolomite	R 10 or greater		
Flexural Strength	C880	Limestone	Low Density	No minimum established
			Medium Density	
			High Density	
		Indiana Limestone		Average -2,113 psi
		Valders Limestone	High Density	
		Granite	Siliceous	1,200 psi minimum
Marble	Calcite Dolomite	1,000 psi minimum		

ASTM Testing Methods for Limestone: ASTM C568-03 | ASTM Testing Methods for Granite: ASTM C615-03 | ASTM Testing Methods for Marble: ASTM C503-03
 All Valders performance result are historical averages of the Valders quarry.