



Valders Stone & Marble ASTM Classification Index by Type/Performance

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Physical Property	Test Method	Dimension Stones	Classification	Performance Requirements
Absorption by Weight Percentage (%)	C 97	Limestone	Low Density	12% maximum
		Limestone	Medium Density	7.5% maximum
		Limestone	High Density	3% maximum
		Valders Limestone	High Density	Average - 0.97%
		Granite	Siliceous	0.40 of 1%
		Marble	Calcite	0.20 of 1%
		Marble	Dolomite	0.20 of 1%
Density Pounds per Cubic Foot	C97	Limestone	Low Density	110 lbs./cu.ft. minimum
		Limestone	Medium Density	135 lbs./cu.ft. minimum
		Limestone	High Density	160 lbs./cu.ft. minimum
		Valders Limestone	High Density	Average - 165 lbs./cu.ft.
		Granite	Siliceous	160 lbs./cu.ft. minimum
		Marble	Calcite	162 lbs./cu.ft. minimum
		Marble	Dolomite	175 lbs./cu.ft. minimum
Compressive Strength Pounds per Square Inch	C 170	Limestone	Low Density	1800 psi minimum
		Limestone	Medium Density	4000 psi minimum
		Limestone	High Density	8000 psi minimum
		Valders Limestone	High Density	Average - 30,514 psi
		Granite	Siliceous	19,000 psi minimum
		Marble	Calcite	7,500 psi minimum
		Marble	Dolomite	7,500 psi minimum
Modulus of Rupture Pounds per Square Inch	C 99	Limestone	Low Density	400 psi minimum
		Limestone	Medium Density	500 psi minimum
		Limestone	High Density	1000 psi minimum
		Valders Limestone	High Density	Average - 1,947 psi
		Granite	Siliceous	1,500 psi minimum
		Marble	Calcite	1000 psi minimum
		Marble	Dolomite	1000 psi minimum
Abrasion Resistance Minimum Hardness Rating	C 241/C 1353	Limestone	Low Density	R 10 or greater
		Limestone	Medium Density	R10 or greater
		Limestone	High Density	R 12 or greater
		Valders Limestone	High Density	Average - R 19
		Granite	Siliceous	R 25 or greater
		Marble	Calcite	R 10 or greater
		Marble	Dolomite	R 10 or greater
Flexural Strength	C880	Limestone	Low Density	No minimum established
		Limestone	Low - Medium Density	No minimum established
		Limestone	High Density	No minimum established
		Valders Limestone	High Density	Average - 1,822 psi
		Granite	Siliceous	1,200 psi minimum
		Marble	Calcite	1,000 psi minimum
		Marble	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 results are historical averages of the Valders quarry.