

**ASTM C 568-03 Test Minimum Values vs. Valders Historical Average Results**

Physical Property	Test	Type	Classification	Min. Perf. By Type	Valders Stone Test Data
Absorption by Weight, <b>Maximum %</b>	C 97	1	Low Density	12%	n/a
		2	Med. Density	7.50%	n/a
		<b>3</b>	<b>High Density</b>	<b>3%</b>	<b>Ave. result = .75 of 1%</b>
Density, <b>Min. lbs/cu.ft.</b>	C97	1	Low Density	110lbs./cu.ft.	n/a
		2	Med. Density	135 lbs./cu.ft.	n/a
		<b>3</b>	<b>High Density</b>	<b>160 lbs./cu.ft.</b>	<b>Ave. result = 165 lbs./cu.ft.</b>
Compressive Strength, <b>Minimum psi</b>	C 170	1	Low Density	1800 psi	n/a
		2	Med. Density	4000 psi	n/a
		<b>3</b>	<b>High Density</b>	<b>8000 psi</b>	<b>15,000 - 32,600 psi</b>
Modulus of Rupture, <b>Minimum, psi</b>	C 99	1	Low Density	400 psi	n/a
		2	Med. Density	500 psi	n/a
		<b>3</b>	<b>High Density</b>	<b>1000 psi</b>	<b>Ave. results = 1,669 psi</b>
Abrasion Resistance, <b>Minimum hardness</b>	C 241/C 1353	1	Low Density	10	n/a
		2	Med. Density	10	n/a
		<b>3</b>	<b>High Density</b>	<b>10</b>	<b>Results = 18 to 29.75</b>

Historical test averages of our Valders Quarry Limestone materials highlight the superior performance characteristics of our Type 3 stone. Design professionals utilize these "best of class" performance values to specify the use of Valders Limestone for architectural and building applications. Valders Dimensional Cut Limestone is the choice when durability, sustainability, strength & performance of the finished product matter. Compare these performance values to other natural limestone products! Valders River Bluff data was not included in the above averages. It is from our West Quarry and is also a Type 3 Limestone.

Recommended Maximum panel sizes for Valders Dimensional Cut Limestone using the Flamed(Thermal) or High Polish surface treatments: \* 3/4" thick – 2' x 2' \* 1 1/4" thick – 3' x 6' \* 1 5/8" thick – 3'-8" x 8'-0".

Recommended Maximum panel sizes for Valders Dimensional Cut Limestone using the Honed or Sandblasted surface treatments 5/8" to 3/4" thick – 3' x 5' \* 1 1/4" thick – 3'-4" x 7'-0" \* 1 5/8" thick – 3'-8" x 8'-0".

The above recommendations exclude the maximum panel sizes for Valders River Bluff material.

\* Contact us for additional information.



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