

Table of Dimension Stone Testing Values Per ASTM Standard Specifications

		Absorption (max) per ASTM C97	Density (min) per ASTM C97		Modules of Rupture (min) ASTM C 99 ⁽⁹⁾ (10)		Compressive Strength (min) ASTM C 170		Abrasion Resistance (min) ASTM C 241	Flexural Strength (min) ASTM C 880	
Stone Type	ASTM Standard	%	lbs/ft ³	kg/m	lbs/in ⁽²⁾	Mpa	lbs/in ⁽²⁾	Mpa	H	lbs/in ⁽²⁾	Mpa
Granite	ASTM C 615	0.40%	160	2,560	1,500	10.34	19,000	131	25	1,200	8.27
Marble	ASTM C 503	0.20%	162	2,590	1,000	6.89	7,500	52	10	1,000	6.89
Limestone ⁽¹⁾	ASTM C 568	12.00%	110	1,760	400	2.76	1,800	12	10	n/a	n/a
Limestone ⁽²⁾	ASTM C 568	7.50%	135	2,160	500	3.45	4,000	28	10	n/a	n/a
Limestone ⁽³⁾	ASTM C 568	3.00%	160	2,560	1,000	6.89	8,000	55	10	n/a	n/a
Quartz-Based ⁽⁴⁾	ASTM C 616	8.00%	125	2,000	350	2.41	4,000	28	2	n/a	n/a
Quartz-Based ⁽⁵⁾	ASTM C 616	3.00%	150	2,400	1,000	6.89	10,000	69	8	n/a	n/a
Quartz-Based ⁽⁶⁾	ASTM C 616	1.00%	160	2,560	2,000	13.79	20,000	138	8	n/a	n/a
Slate ⁽⁷⁾	ASTM C 629	0.25%	n/a	n/a	9,000	62.05	n/a	n/a	8	n/a	n/a
Slate ⁽⁸⁾	ASTM C 629	0.45%	n/a	n/a	7,200	49.64	n/a	n/a	8	n/a	n/a

Notes:

- (1) Low Density Limestone
- (2) Medium Density Limestone
- (3) High Density Limestone
- (4) Sandstone
- (5) Quartzitic Sandstone
- (6) Quartzite
- (7) For Exterior Use
- (8) For Interior Use
- (9) Test Procedure for Modules of Rupture Testing of Slate is C 120
- (10) Modules of Rupture Values for Slate are Taken Across the Grain

