

ASTM Classification Index

ASTM	Dimension Stones	C97	C97	C99	C120	C121	C170	C241	C880
		Density lb/ft ³ (minimum)	Absorption (max %)	Modulus of Rupture psi (min)	Flexural Strength (Slate) psi (min)	Water Absorption (Slate) (max %)	Compressive Strength psi (min)	Abrasive Resistance (minimum)	Flexural Strength psi (min)
C503	Marble Calcite	162	0.20	1,000	na	na	7,500	10	1,000
C503	Marble Dolomite	175	0.20	1,000	na	na	7,500	10	1,000
C1526	Serpentine	160	0.20 exterior 0.60 interior	1,000	na	na	10,000	10	1,000
C1527	Travertine (exterior) ³	144	2.50	700	na	na	7,500	10	500
C1527	Travertine (interior) ³	144	2.50	700	na	na	5,000	10	500
C568	Limestone (low density) ^{1,2}	110	12.00	400	na	na	1,800	10	none est.
C568	Limestone (med density) ^{1,2}	135	7.50	500	na	na	4,000	10	none est.
C568	Limestone (high density) ¹	160	3.00	1,000	na	na	8,000	10	none est.
C615	Granite	160	0.40	1,500	na	na	19,000	25	1,200
C629	Slate (interior)	170-190 ⁴	na	na	5,500 along grain 7,200 across grain	0.45	none est.	8	none est.
C629	Slate (exterior)	170-190 ⁴	na	na	7,200 along grain 9,000 across grain	0.25	none est.	8	none est.
Quartz-based Stones									
C616	Sandstone	125	8.00	350	na	na	4,000	2	none est.
C616	Quartzitic Sandstone	150	3.00	1,000	na	na	10,000	8	none est.
C616	Quartzite	160	1.00	2,000	na	na	20,000	8	none est.

Notes:

1. Limestone shall be sound, durable, and free of visible defects or concentrations of materials that will cause objectionable staining or weakening in normal environments of use.
2. Limestone that is of low or medium density may not be suitable for use in all interior and exterior applications.
3. Travertine that is fleuri-cut (cross cut) can be vulnerable to certain problems because some areas of the exposed surface will consist of only a thin layer of stone covering a void in the stone.
4. Historical data not established by ASTM.