

# American Society for Testing and Materials (ASTM)

Standards developed by committee C18

## **ASTM C-97 - Water Absorption Test:**

Recommended for all dimension stone used for exterior installation and for interior flooring and base course. Maximum absorption rate by weight for granite is 0.4%.

## **ASTM C-170 - Compressive Strength Test:**

Adequate for design of simple construction, but not sufficient for thin veneer design of high-rise construction. The minimum requirement for compressive strength of granite is 19,000.

## **ASTM C-99 – Modulus of Rupture Test:**

Useful in the design of panel sizes, thickness, and surface finish and is useful to design limitations of anchoring. The minimum requirement for flexural strength of dimensional granite is 1,200 psi and 8.3 Mpa.

## **ASTM C-241 – Abrasion Resistance Test:**

Determines the abrasion resistance of all types of natural stone for floors, steps, and similar uses where wear is caused by the abrasion of foot traffic. The minimum abrasion resistance of granite is 25 Ha.

## **ASTM C-616 – Scope:**

1.1 This specification covers the material characteristics, physical requirements, and sampling appropriate to the selection of quartz-based dimension stone for general building and structural purposes.

1.2 Quartz-based dimension stone shall include stone that is sawed, cut, split, or otherwise finished or shaped, and shall specifically exclude molded, cast, or otherwise artificially aggregated units composed of fragments, and also crushed and broken stone.

## **ASTM C-880 – Flexural Strength Test:**

Provides information for the design of panel sizes, thickness, surface finish, and anchoring limitations. The minimum requirement for granite dimension stone is 1,200 psi (8.27 Mpa).

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