

Bluestone Specifications

ASTM C 616: CLASSIFICATION OF SANDSTONE--TYPE II QUARTZITE SANDSTONE

Composition

Silicon Dioxide 72.8 percent Iron Oxide (Ferrous) 2.50 percent

Aluminum Oxide 12.2 percent Magnesium Oxide 1.20 percent

Iron Oxide (Ferric) 1.92 percent Sodium Oxide .85 percent

Calcium Oxide (Lime) .70 percent Titanium Oxide 1.16 percent

Acid Resistance: N/A

Edge Detail: Sawn, Thermal, Rock Face, Bullnose, Honed

Texture: Thermal, Natural Cleft, Honed

Thickness Range: 3/8" to 30" thick

Lippage/Warpage: Quality Controlled

Flaking: Quality Controlled

Sealer Recommendation: N/A

Percentage Breakage: Quality Controlled

Approximate Crate Size: 42" x 48" pallet, 3,500 lbs.

Recommended Areas of Usage: Interior, Exterior

Peculiar Characteristics: Only quarried in Northeast Pennsylvania and Southern New York

ASTM QUALIFICATIONS OF SANDSTONE

ASTM C-97: ABSORPTION & BULK SPECIFIC GRAVITY

SAMPLE ID ABSORPTION SPECIFIC GRAVITY

#1 1.09% 2.810 (162.86 pcf)

#2 1.04% 2.607 (162.68 pcf)

#3 1.11% 2.608 (162.74 pcf)

Average 1.08% 2.608 (162.74 pcf)

ASTM C-99: MODULUS OF RUPTURE

SAMPLE ID PARALLEL TO BED PERPENDICULAR TO BED

#1 2093 psi 2901 psi

#2 2268 psi 2842 psi

#3 2188 psi 2755 psi

#4 2209 psi 2951 psi

#5 2213 psi 2832 psi

Average 2194 psi 2856 psi

ASTM C-170: COMPRESSIVE STRENGTH DRY CONDITION

SAMPLE ID PARALLEL TO BED PERPENDICULAR TO BED

#1 14235 psi 18523 psi

#2 13960 psi 18910 psi

#3 14891 psi 18546 psi

#4 15124 psi 17953 psi

#5 14200 psi 17997 psi

Average 14482 psi 18386 psi

ASTM C-170: COMPRESSIVE STRENGTH WET CONDITION

SAMPLE ID PARALLEL TO BED PERPENDICULAR TO BED

#1 13120 psi 17424 psi

#2 12900 psi 17019 psi

#3 13006 psi 16841 psi

#4 12854 psi 16420 psi

#5 12910 psi 17283 psi

Average 12958 psi 16988 psi

ASTM C-241 ABRASION RESISTANCE TO FOOT TRAFFIC

SAMPLE ID THERMAL FACE NATURAL CLEFT

#1 26.8 9.2

#2 27.4 8.8

#3 26.9 8.6

Average 27.0 8.9