

# Bluestone Specifications

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## 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