

PENNSYLVANIA BLUESTONE ASTM QUALIFICATIONS

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

<i>SAMPLE ID</i>	<i>ABSORPTION</i>	<i>SPECIFIC GRAVITY</i>
#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

<i>SAMPLE ID</i>	<i>PARALLEL TO BED</i>	<i>PERPENDICULAR TO BED</i>
#1	2093 pá	2901 pá
#2	2268 pá	2842 pá
#3	2188 pá	2755 pá
#4	2209 pá	2951 pá
#5	2213 pá	2832 pá
Average	2194 pá	2856 pá

ASTM C-170: COMPRESSIVE STRENGTH DRY CONDITION

<i>SAMPLE ID</i>	<i>PARALLEL TO BED</i>	<i>PERPENDICULAR TO BED</i>
#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

<i>SAMPLE ID</i>	<i>PARALLEL TO BED</i>	<i>PERPENDICULAR TO BED</i>
#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

<i>SAMPLE ID</i>	<i>THERMAL FACE</i>	<i>NATURAL CLEFT</i>
#1	26.8	9.2
#2	27.4	8.8
#3	26.9	8.6
Average	27.0	8.9