



## Semco Stone ASTM Stone Testing Results



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## » BALTIC BUFF

**COLOR/CHARACTERISTICS:** A natural sandstone buff with brown swirls

### SPECIFICATIONS:

#### ASTM C 97

OVEN DRY DENSITY: 154.4 lb/ft <sup>3</sup>	CLASS I SANDSTONE
SSD DENSITY: 142.7 lb/ft <sup>3</sup>	CLASS I SANDSTONE
SPECIFIC GRAVITY: 2.16	
ABSORPTION: 5.93%	CLASS I SANDSTONE

#### ASTM C 99

MODULUS OF RUPTURE:	Perpendicular & Dry	950 psi
	Parallel & Dry	500 psi
	Perpendicular & Wet	710 psi
	Parallel & Wet	410 psi

#### ASTM C 170

COMPRESSIVE STRENGTH:	Perpendicular & Dry	12,900 psi
	Parallel & Dry	7,500 psi
	Perpendicular & Wet	11,100 psi
	Parallel & Wet	7,000 psi

#### ASTM C 153

ABRASION RESISTANCE OF DIMENSION STONE SUBJECTED TO FOOT TRAFFIC USING A ROTARY PLATFORM:

Initial Mass (Average): 217.15	CLASS I SANDSTONE
Mass after 1,000 revolutions (Average): 199.53	CLASS I SANDSTONE
Index Abrasion Resistance (Average): 4.51	CLASS I SANDSTONE

#### ASTM C 666

**FREEZE/THAW TESTING:** These results are available upon request. It is a long report so did not include on this particular page due to lack of space.

\*This information is based on test results by CTL Group



## » BALTIC BUFF FREEZE / THAW TESTING RESULTS

### ASTM C215, DYNAMIC MODULUS OF ELASTICITY DURING ASTM C666 FREEZE/THAW TESTING:

Number of Cycles	0	33	63	99	135	171	207	303
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### SAMPLE DIMENSIONS

Length, m	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282
Width, m	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078
Depth, m	0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077
Cross-Sectional Area, m <sup>2</sup>	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Poisson's Ration (assumed)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Radius of Gyration, K	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
K/L	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Correction Factor per Table 1 of ASTM C215	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
Constant per Eq. 1 of ASTM C215	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1
Mass of Test Sample, kg	3.83	3.84	3.84	3.84	3.85	3.85	3.85	3.86

### NON-DESTRUCTIVE EVALUATION PER ASTM C215

Average Transverse Resonant Frequency, Hz	1313	1223	1236	1236	1236	1236	1243	1230
Dynamic Modulus of Elasticity	5.9	5.1	5.2	5.2	5.2	5.2	5.3	5.2

### NOTES:

1. As requested, Poisson' Ration was assumed to be 0.2 based on internet research.
2. This report represents specifically the samples submitted.
3. This report may not be reproduced except in its entirety.



## » BLACK HILLS RUSTIC

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**COLOR/CHARACTERISTICS:** Brown and rust with red tones

**FEATURES:**

Full Veneer: 100% Seam-face/Bed-face

ThinCut<sup>TM</sup> Veneer: 50% seam-face, 50% bed-face

Available in Full Veneer & ThinCut<sup>TM</sup>

**SPECIFICATIONS:**

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**ASTM C 97**

DENSITY: 155.34 lb/ft<sup>3</sup>

ABSORPTION: 3.0%

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**ASTM C 170**

COMPRESSIVE STRENGTH: 23,814 psi CLASS III QUARTZITE

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**ASTM C 880**

FLEXURAL STRENGTH: Perpendicular: 3,065 psi

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**ASTM C 97**

BULK SPECIFIC GRAVITY 2.561 CLASS II QUARTZITIC SANDSTONE

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\*This information is based on test results by Pacific Materials Laboratory



## » BLUE RIVER

**COLOR/CHARACTERISTICS:** Gray with some variegation

**FEATURES:**

Random Height: 100% Split-face

Dimensional: Sawn heights, split-face and ends

Available in Full Veneer & ThinCut<sup>™</sup>

**SPECIFICATIONS:**

**ASTM C 880**

FLEXURAL STRENGTH:	Perpendicular: 2,304	Parallel: 2,303
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**ASTM C 170**

COMPRESSIVE STRENGTH:	Perpendicular	Area 4.512	PS 17,778
	Parallel	Area 4.553	PS 19,034

**ASTM C 97**

SPECIFIC GRAVITY: 2.68	ABSORPTION: 0.34%
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\*This information is based on test results by PSI, Inc. in St. Louis, MO.



## » BRENTWOOD

**COLOR/CHARACTERISTICS:** Range of chocolate to light brown, buff and gray. Some pieces have a beautiful texture resembling wood rings on a tree

**FEATURES:** Natural bed heights that range between 4" - 9" in height, with the split-face and natural edge exposed

Available in Full Veneer & ThinCut™

### SPECIFICATIONS:

#### ASTM C 97

DENSITY: 151.55 lb/ft<sup>3</sup>

SPECIFIC GRAVITY: 2.429

ABSORPTION: 1.81%

CLASS II QUARTZITIC SANDSTONE

CLASS III QUARTZITE

#### ASTM C 99

MODULUS OF RUPTURE: 1,554 psi

CLASS III QUARTZITE

10.71 Mpa

#### ASTM C 170

COMPRESSIVE STRENGTH: 11,403 psi

CLASS III QUARTZITE

78.61 Mpa

#### ASTM C 241

ABRASION RESISTANCE: 52.58

CLASS III QUARTZITE

#### ASTM C 880

FLEXURAL STRENGTH:

Perpendicular: 3,065 psi

Parallel: 21.13 Mpa

#### X-RAY DIFFRACTION MINERALOGICAL ANALYSIS

FREE SILICA CONTENT: 93%

CLASS II QUARTZITIC SANDSTONE

**STATIC COEFFICIENT OF FRICTION** DRY: 1.21 WET: .94



## » CANADIAN LEDGE

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**COLOR/CHARACTERISTICS:** Class III Quartzitic Sandstone with a range of colors from light buff to dark brown and rust shades

**FEATURES:**

3" - 5" Heights, Random Lengths  
50% snapped to 50% natural edge

Available in Full Veneer & ThinCut<sup>TM</sup>

**SPECIFICATIONS:**

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**ASTM C 97**

DENSITY: 155.43 lb/ft<sup>3</sup>  
SPECIFIC GRAVITY: 2.561  
ABSORPTION: 1.6%

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**ASTM C 170**

COMPRESSIVE STRENGTH: 23,814 psi

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**ASTM C 880**

AVERAGE FLEXURAL STRENGTH: 3,065 psi

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**STATIC COEFFICIENT OF FRICTION:** DRY: 1.21      WET: .94

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## » CASTLEWOOD

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**COLOR/CHARACTERISTICS:** Buff colored limestone

**FEATURES:**

Uniform heights of 4" – 6" or 13" – 15"

Average depth is 24" - 30"

Average length: 4 ft. – 5 ft.

**SPECIFICATIONS:**

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**ASTM C 97**

SPECIFIC GRAVITY: Dry: 2.542 Wet: 2.684

ABSORPTION: 2.1%

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**FREEZE/THAW SOUNDESS RATIO:** 98% Retained

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\*This information is based on test results by Kansas Department of Transportation



## » CEDAR RIDGE

**COLOR/CHARACTERISTICS:** Light gray with light buff to white mottling

**FEATURES:**

Random Height: 100% Split-face  
Dimensional: Sawn heights, split-face and ends

Available in Full Veneer & ThinCut<sup>TM</sup>

**SPECIFICATIONS:**

**ASTM C 97**

SPECIFIC GRAVITY: 2.62

ABSORPTION: 2.22%

**ASTM C 170**

COMPRESSIVE STRENGTH:

Perpendicular

Area 4.512

PS 8,390

Parallel

Area 4.424

PS 11,556

**ASTM C 880**

FLEXURAL STRENGTH:

Perpendicular: 1,160

Parallel: 1,183

\*This information is based on test results by PSI, Inc. in St. Louis, MO.



## » CHESTNUT HILL

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**COLOR/CHARACTERISTICS:** Brown and rust with red tones

**FEATURES:**

Full Veneer: 100% Seam-face/Bed-face

ThinCut<sup>TM</sup> Veneer: 50% Seam-face, 50% Bed-face

Available in Full Veneer & ThinCut<sup>TM</sup>

**SPECIFICATIONS:**

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**ASTM C 97**

DENSITY: 155.34 lb/ft<sup>3</sup>

ABSORPTION: 3.0%

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**ASTM C 170**

COMPRESSIVE STRENGTH: 23,814 psi CLASS III QUARTZITE

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**ASTM C 880**

FLEXURAL STRENGTH: Perpendicular: 3,065 psi

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**ASTM C 97**

BULK SPECIFIC GRAVITY 2.561 CLASS II QUARTZITIC SANDSTONE

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\*This information is based on test results by Pacific Materials Laboratory



## » DEER HAVEN

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**COLOR/CHARACTERISTICS:** Light tan to brown with some gray tones

**FEATURES:**

100% Bed-face material with random heights from 3" to 6"  
Random lengths

Available in Full Veneer & ThinCut<sup>TM</sup>

**SPECIFICATIONS:**

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**ASTM C 97**

BULK SPECIFIC GRAVITY	2.387	CLASS II QUARTZITIC SANDSTONE
BULK SPECIFIC GRAVITY, SSD	2.459	
APPARENT SPECIFIC GRAVITY	2.5718	

ABSORPTION: 3.0%

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**ASTM C 170**

COMPRESSIVE STRENGTH: 7,500 psi CLASS III QUARTZITE

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**ASTM C 880**

FLEXURAL STRENGTH: Perpendicular: 3,065 psi

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\*This information is based on test results by Pacific Materials Laboratory



## » EASTON

**COLOR/CHARACTERISTICS:** Range of light buff to gold

**FEATURES:**

100% Seam-face  
Random lengths

Available in Full Veneer & ThinCut™

**SPECIFICATIONS:**

**ASTM C 97**

SPECIFIC GRAVITY: 2.67  
ABSORPTION: 1.88%

DENSITY: 166.3 lb/ft<sup>3</sup>

**ASTM C 99**

MODULUS OF RUPTURE:

Paralled & Dry

1,191 psi

**ASTM C 170**

COMPRESSIVE STRENGTH:

Perpendicular & Dry  
Parallel & Dry

11,633 psi  
6,366 psi

**ASTM C 880**

FLEXURAL STRENGTH:

Paralled & Dry

1,030 psi

\* ASTM C97 and ASTM C170 is based on test results by PSI, Inc. in St. Louis, MO.  
ASTM C99 and ASTM C880 is based on test results by Geotechnology, Inc. in St. Louis, MO.



## » FOND DU LAC

**COLOR/CHARACTERISTICS:** Range of light buff to light gray.

**FEATURES:** Range of heights from 2" to 6" with random lengths up to 40"  
100 % split-face material

Available in Full Veneer & ThinCut™

### SPECIFICATIONS:

#### ASTM C 97

DENSITY: 167.3 (pcf)  
SPECIFIC GRAVITY: 2.683  
ABSORPTION: 0.6%

#### ASTM C 99

MODULUS OF RUPTURE: 3,390            PARALLEL  
MODULUS OF RUPTURE: 3,430            PERPENDICULAR

#### ASTM C 170

COMPRESSIVE STRENGTH: 19,080 (psi)            PARALLEL  
COMPRESSIVE STRENGTH: 24,310 (psi)            PERPENDICULAR

#### ASTM C 880

FLEXURAL STRENGTH:    Perpendicular: 2,470 (psi)            Parallel: 2,470 (psi)



## » GUNSMOKE GRAY

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**COLOR/CHARACTERISTICS:** Gray with darker variegation

**FEATURES:**

Random Height: 100% Split-face  
Dimensional: Sawn heights, split-face and ends

**WEIGHT:** 145 per cu. ft., so depending what thickness you are looking at using, will determine what it correlates to on a square foot basis.

Available in Full Veneer & ThinCut<sup>TM</sup>

**SPECIFICATIONS:**

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**ASTM C 97**

SPECIFIC GRAVITY: 2.121  
ABSORPTION: 6.13%

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**ASTM C 99\***

MODULUS OF RUPTURE: 801 psi

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**ASTM C 170\***

COMPRESSIVE STRENGTH: 8,138 psi

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Testing was performed in general accordance with the following ASTM Standards. This information is based in October 2003 test results by Construction Consulting & Testing, Inc.

\*C 99 and C 170 were performed under the dry condition, perpendicular to the bedding planes.



## » MOJAVE LEDGE

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**COLOR/CHARACTERISTICS:** Wide range of color & texture, including white, tans, browns, golds and rusts

**FEATURES:**

Up to 50% may be angled slightly and/or dramatically. Random heights 1.5" to 3"  
Random lengths 8" to 20"

Available in Full Veneer & ThinCut<sup>TM</sup>

**SPECIFICATIONS:**

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**ASTM C 97**

BULK SPECIFIC GRAVITY: 2.387 CLASS II QUARTZITIC SANDSTONE  
DENSITY: 155.34 lbs./ft<sup>3</sup>

ABSORPTION: 3.0%

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**ASTM C 170**

COMPRESSIVE STRENGTH: 7,500 psi CLASS III QUARTZITE

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\*This information is based on test results by Pacific Materials Laboratory



## » MOUNTAIN RIDGE

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**COLOR/CHARACTERISTICS:** Gray, blue & buff tones

**FEATURES:**

Random Height: 100% Split-face

Dimensional: Sawn heights, split-face and ends

Available in Full Veneer & ThinCut<sup>™</sup>

**SPECIFICATIONS:**

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**ASTM C 170**

COMPRESSIVE STRENGTH:

Perpendicular

PSI (gross) 12,547

Parallel

PSI (gross) 12,310

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**ASTM C 97**

SPECIFIC GRAVITY: 2.61

ABSORPTION: 4.0%

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\*This information is based on test results by PSI, Inc. in St. Louis, MO.





## » PINE RIDGE

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**COLOR/CHARACTERISTICS:** Brown and rust with red tones

**FEATURES:**

Full Veneer: 100% Seam-face/Bed-face

ThinCut™ Veneer: 50% Seam-face, 50% Bed-face

Available in Full Veneer & ThinCut™

**SPECIFICATIONS:**

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**ASTM C 97**

DENSITY: 161.77 lb/ft<sup>3</sup>

SPECIFIC GRAVITY: 2.592

ABSORPTION: 0.59%

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## »» RUSTIC BLUE

**COLOR/CHARACTERISTICS:** Light blue/gray with some buff variegation

**FEATURES:**

Random Height: 100% Split-face

Dimensional: Sawn heights, split-face and ends

Available in Full Veneer & ThinCut<sup>™</sup>

**SPECIFICATIONS:**

**ASTM C 880**

FLEXURAL STRENGTH: Perpendicular: 1,160 Parallel: 1,183

**ASTM C 170**

COMPRESSIVE STRENGTH: Perpendicular Area 4.512 PS 8,390  
Parallel Area 4.424 PS 11,556

**ASTM C 97**

SPECIFIC GRAVITY: 2.62 ABSORPTION: 2.22%

\*This information is based on test results by Geotechnology, Inc. in St. Louis, MO.



## » RUSTIC CEDAR

**COLOR/CHARACTERISTICS:** Buff with some blue and gray veining

**FEATURES:**

Random Height: 100% Split-face  
Dimensional: Sawn heights, split-face and ends

Available in Full Veneer & ThinCut<sup>TM</sup>

**SPECIFICATIONS:**

**ASTM C 97**

DENSITY: 154.6 lb/ft<sup>3</sup>  
ABSORPTION: 3.54%

**ASTM C 170**  
COMPRESSIVE STRENGTH

**DRY CONDITION**  
Parallel: 17,002 psi  
Perpendicular: 21,591 psi

**WET CONDITION**  
Parallel: 11,919 psi  
Perpendicular: 19,787 psi

**ASTM C 880**  
FLEXURAL STRENGTH

**DRY CONDITION**  
Parallel: 1,743 psi  
Perpendicular: 922 psi

**WET CONDITION**  
Parallel: 1,248 psi  
Perpendicular: 834 psi

Testing was performed in general accordance with the following ASTM Standards.  
This information is based on test results by The Council of North America, Inc.



## » STONEYBROOK

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### COLOR/CHARACTERISTICS:

100% SPLIT FACE LIMESTONE: Gray with a touch of blue & mauve  
100% BED FACE LIMESTONE: Range of lavenders, browns, gray & mauve

**FEATURES:** 100 % Split-face - Range of heights from 2" to 6" with random lengths up to 40"  
100% Bed-face - 6", 8", 12" and 18" heights with random lengths up to 40"  
(ThinCut™ cannot exceed 10.5" heights)

Available in Full Veneer & ThinCut™

### SPECIFICATIONS:

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#### ASTM C 97

DENSITY: 176.5 (pcf)  
SPECIFIC GRAVITY: 2.83  
ABSORPTION: 0.2%

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#### ASTM C 99

MODULUS OF RUPTURE: 2,630	PARALLEL
MODULUS OF RUPTURE: 2,980	PERPENDICULAR

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#### ASTM C 170

COMPRESSIVE STRENGTH: 24,500 (psi)	PARALLEL
COMPRESSIVE STRENGTH: 21,030 (psi)	PERPENDICULAR

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#### ASTM C 880

FLEXURAL STRENGTH:	Perpendicular: 1,660 (psi)	Parallel: 1,890 (psi)
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## »» TIMBER CREEK

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**COLOR/CHARACTERISTICS:** Buff with some light and dark gray veining

**FEATURES:**

Dimensional: Sawn heights, split-face and ends

Available in Full Veneer & ThinCut<sup>TM</sup>

**SPECIFICATIONS:**

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**ASTM C 97**

DENSITY: 166.5 lb/ft<sup>3</sup>

ABSORPTION: 2.668%

**ASTM C 170**

COMPRESSIVE STRENGTH

**DRY CONDITION**

Perpendicular: 22,600 psi

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Testing was performed in general accordance with the following ASTM Standards.  
This information is based on test results by Geotechnology, Inc. in St. Louis, MO.



## » WEATHERED FIELDSTONE

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**COLOR/CHARACTERISTICS:** Weathered Fieldstone is a naturally occurring sandstone material, weathered naturally by the effects of its environment. Harvested from the hills of Southern Missouri and Northern Arkansas, it is then shipped to our fabrication facility in Perryville Missouri, where it is fabricated into building stone veneer, full bed depth and ThinCut<sup>™</sup> veneer.

**FEATURES:**

- Random Height: 100% Split-face
- Dimensional: Sawn heights, split-face and ends

Available in ThinCut<sup>™</sup>

**SPECIFICATIONS:**

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**ASTM C 97**

SPECIFIC GRAVITY: 2.121  
ABSORPTION: 6.13%

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**ASTM C 99\***

MODULUS OF RUPTURE: 801 psi

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**ASTM C 170\***

COMPRESSIVE STRENGTH: 8,138 psi

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Testing was performed in general accordance with the following ASTM Standards. This information is based on test results by Construction Consulting & Testing, Inc.

\*C 99 and C 170 were performed under the dry condition, perpendicular to the bedding planes.



## » WESTON CREAM

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**COLOR/CHARACTERISTICS:** Light buff cream colored

**FEATURES:**

Random Height: 100% Split-face

Dimensional: Sawn heights, split-face and ends

Available in Full Veneer & ThinCut<sup>TM</sup>

**SPECIFICATIONS:**

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**ASTM C 97**

DENSITY: 135.61 lb/ft<sup>3</sup>

SPECIFIC GRAVITY: 2.173

ABSORPTION: 6.51%

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**ASTM C 99**

MODULUS OF RUPTURE: 883 psi      6.09 Mpa

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**ASTM C 170**

COMPRESSIVE STRENGTH: 5,686 psi      39.20 Mpa

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**ASTM C 241**

ABRASION RESISTANCE: 5.06

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**ASTM C 880**

FLEXURAL STRENGTH:                      Perpendicular: 1,053 psi      Parallel: 7.26 Mpa

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## » WESTON SHELL

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**COLOR/CHARACTERISTICS:** Shades of buff to tan. Sea shells have been preserved for millions of years in this unique limestone

**FEATURES:**

100% Split-face with random heights from 4" to 12" (ThinCut<sup>™</sup> cannot exceed 10.5")  
Random lengths from 10" to 30"

Available in Full Veneer & ThinCut<sup>™</sup>

**SPECIFICATIONS:**

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**ASTM C 97**

DENSITY: 132 lbs./cft.  
SPECIFIC GRAVITY: 2.118  
ABSORPTION: 5.4 %

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**ASTM C 170**

COMPRESSIVE STRENGTH: 2,964 psi

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## » WILLOWBROOK BLUE

**COLOR/CHARACTERISTICS:** Willowbrook Blue is blue/gray in color with some brown and rust variegation

**FEATURES:**

50% Bed-face, 50% Split-face  
 Heights: 3" – 7" Lengths: Random

Available in Full Veneer & ThinCut™

**SPECIFICATIONS:**

**ASTM C 97**

DENSITY: 159.83 lb/ft <sup>3</sup>	CLASS II QUARTZITIC SANDSTONE
SPECIFIC GRAVITY: 2.561	
ABSORPTION: 0.97%	CLASS III QUARTZITE

**ASTM C 99**

MODULUS OF RUPTURE: 2,639 psi	CLASS III QUARTZITE	18.19 Mpa
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**ASTM C 170**

COMPRESSIVE STRENGTH: 23,814 psi	CLASS III QUARTZITE	164.17 Mpa
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**ASTM C 241**

ABRASION RESISTANCE: 52.58	CLASS III QUARTZITE
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**ASTM C 880**

FLEXURAL STRENGTH:	Perpendicular: 3,065 psi	Parallel: 21.13 Mpa
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**X-RAY DIFFRACTION MINERALOGICAL ANALYSIS**

FREE SILICA CONTENT: 93%	CLASS II QUARTZITIC SANDSTONE
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**STATIC COEFFICIENT OF FRICTION** DRY: 1.21 WET: .94



## » WILLowBROOK BROWN

**COLOR/CHARACTERISTICS:** Willowbrook Brown has shades of brown & tan, speckled with dark brown

**FEATURES:**

50% Bed-face, 50% Split-face  
 Heights: 3" – 7" Lengths: Random

Available in Full Veneer & ThinCut™

**SPECIFICATIONS:**

**ASTM C 97**

DENSITY: 159.83 lb/ft <sup>3</sup>	CLASS II QUARTZITIC SANDSTONE
SPECIFIC GRAVITY: 2.561	
ABSORPTION: 0.97%	CLASS III QUARTZITE

**ASTM C 99**

MODULUS OF RUPTURE: 2,639 psi	CLASS III QUARTZITE	18.19 Mpa
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**ASTM C 170**

COMPRESSIVE STRENGTH: 23,814 psi	CLASS III QUARTZITE	164.17 Mpa
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**ASTM C 241**

ABRASION RESISTANCE: 52.58	CLASS III QUARTZITE
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**ASTM C 880**

FLEXURAL STRENGTH:	Perpendicular: 3,065 psi	Parallel: 21.13 Mpa
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**X-RAY DIFFRACTION MINERALOGICAL ANALYSIS**

FREE SILICA CONTENT: 93%	CLASS II QUARTZITIC SANDSTONE
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**STATIC COEFFICIENT OF FRICTION** DRY: 1.21 WET: .94



## » YUKON LEDGE

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**COLOR/CHARACTERISTICS:** Deep rust to dark brown seam-face

**FEATURES:**

Random heights 1" to 4"  
Random lengths 5" to 20"

Available in Full Veneer & ThinCut<sup>TM</sup>

**SPECIFICATIONS:**

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**ASTM C 97**

BULK SPECIFIC GRAVITY: 2.387  
DENSITY: 155.34 lbs./ft<sup>3</sup>

CLASS II QUARTZITIC SANDSTONE

ABSORPTION: 3.0%

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**ASTM C 170**

COMPRESSIVE STRENGTH: 7,500 psi

CLASS III QUARTZITE

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\*This information is based on test results by Pacific Materials Laboratory

