



## 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:** Browns, tans, golds with tints of black and auburn tones

**FEATURES:**

Full Veneer: 50% seam-face, 50% 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:**

- Stone is available for custom fabrication for architectural projects
- Random Height: 100% Split-face
- Dimensional: Sawn heights, split-face and ends

Available for both building and landscape stone applications.

**ASTM C880\***

**FLEXURAL STRENGTH:** Perpendicular: 2,084 Parallel: 2,303

**ASTM C170\***

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

**ASTM C97\***

**SPECIFIC GRAVITY:** 2.68 **ABSORPTION:** 0.34%

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

**ASTM C880, FREEZE / THAW FLEXURAL TESTING\*\***

**FINISH:** Honed • **RIFT:** Perpendicular • **RESULTS:** Based on the average of 5 samples

Number of Cycles	0	50	100	150	200	250
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Number of Cycles	0
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**CONDITIONS: Dry**

Span (inches)	12.50	12.50	12.50	12.50	12.50	12.50
Width (inches)	4.06	4.082	4.074	4.072	4.074	4.118
Thickness (inches)	1.238	1.19	1.154	1.222	1.238	1.266
Failure Load (lbs)	1446.8	1174.4	1055	1161.4	1265	1.472
Average Dry Mode	2174	1869	1809	1732	1883	2069
Standard Deviation	185	334	432	623	219	310
Variance	8.51	17.87	23.88	35.98	11.63	14.99

**CONDITIONS: Wet**

Span (inches)	12.50
Width (inches)	4.082
Thickness (inches)	1.19
Failure Load (lbs)	1237
Average Wet Mode	1994
Standard Deviation	302
Variance	15.15

\*\*This information is based on test results by Construction Testing Sciences



## » 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



## » BROOKHAVEN

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

**FEATURES:**

Stone is available for custom fabrication for architectural projects  
Random Height: 100% Split-face  
Dimensional: Sawn heights, split-face and ends

Available for both building and landscape stone applications.

**SPECIFICATIONS:**

**ASTM C 97**

SPECIFIC GRAVITY: 2.55                      ABSORPTION: 2.66%

**ASTM C 99**

MODULUS OF RUPTURE: 1,866 lb/in<sup>2</sup>

**ASTM C 170**

COMPRESSIVE STRENGTH:	Perpendicular	Area 9.45 in <sup>2</sup>	13,350 psi
	Parallel	Area 9.54 in <sup>2</sup>	12,800 psi

**ASTM C 880**

FLEXURAL STRENGTH:                      Parallel to the Rift/Dry: 1,748 psi

Testing was performed in general accordance with the following ASTM Standards. This information is based in December 2017 test results by Professional Service Industries and Geotechnology.

\*C 99 and C 880 were performed under the dry condition, horizontal to the rift.





## » CANADIAN COBBLES (Page 1 of 2)

**COLOR/CHARACTERISTICS:** Pinks, whites, grays, multi-colored, smooth & round.  
 Small: 12" – 18" • Medium: 18" – 24" • Large: 24" – 36" • Pallet Weight: 3000-3400 lbs.

### SAMPLE DETAILS:

**Material:** Fine Concrete Aggregate  
**Specification:** ASTM:C33, Fine Aggregate  
**Sampling Method:** ASTM:D75

### OTHER TEST RESULTS:

Description	Method	Result	Limits
Lightweight particles(%)	ASTM C 123	<0.1	≤0.5
Shale particles (%)		<0.1	
Coal and lignite particles (%)		<0.1	
Deleterious substances (%)		<0.1	≤0.3
Chert particles (%)		<0.1	
Test sample mass (g)		200	
Aggregate size (in)		Fine Aggregate	
Type of heavy liquid		LMT	
Heavy liquid specific gravity		2.0	
Date Tested		6/21/2017	
Fineness Modulus	ASTM C 136, ASTM C 117	2.6	2.3 – 3.1
Clay lumps & friable particles (%)	ASTM C 142	0.00	<1.0
Date Tested		6/21/2017	

### PARTICLE SIZE DISTRIBUTION:

**Method:** ASTM C 136, ASTM C 117  
**Drying By:** Oven

Sieve Size	% Passing	Limits
3/8in (9.5mm)	100	100
No.4 (4.75mm)	99	95-100
No.8 (2.36mm)	87	80-100
No.16 (1.18mm)	75	50-85
No.30(600µm)	55	25-60
No.50 (300µm)	18	5-30
No.100 (150µm)	2	0-10
No.200 (75µm)	0.8	0.0-3.0





## >> CANADIAN COBBLES (Page 2 of 2)

### SOUNDNESS

Sample Size	Weighted Multiplier %	Initial Mass (g)		Retained Mass (g)	Loss (g)	Loss %	Weighted Loss %
P1 1/2" – R1" P1" – R3/4"	**** 0	****	****	****	****	****	****
P3/4" – R1/2" P1/2" – R3/8"	**** 65	671.2 332.4	1003.6	**** 995.2	**** 8.4	**** 0.8	**** 0.5
P3/8" – R#4	35	302.4		302.4	300.2	2.2	0.7

### SODIUM SULPHATE SOUNDNESS

5 cycles, AASHTOT104, Weighted Loss %

0.7
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### FREEZE THAW

Sample Size	Weighted Multiplier %	Initial Mass (g)		Retained Mass (g)	Loss (g)	Loss %	Weighted Loss %
P1 1/2" – R1" P1" – R3/4"	**** 0		****	****	****	****	****
P3/4" – R1/2" P1/2" – R3/8"	**** 65		****	****	****	****	****
P3/8" – R#4	35						

### SOUNDNESS OF AGGREGATES BY FREEZING AND THAWING

AASHTOT103, Weighted Loss %

### COARSE AGGREGATE SPECIFIC GRAVITY

Sample #	1	2	3	
Saturated Weight, g	3092.1	3196.1		
Oven-Dry Weight, g	3066.0	3167.6		
Weight in Water, g	1962.0	2021.9		<b>Average</b>
Absorption, %	0.851	0.900		0.876
Bulk Specific Gravity	2.713	2.698		2.705
Bulk Specific Gravity, SSD	2.736	2.722		2.729
Apparent Specific Gravity	2.777	2.765		2.771

## » 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 14" PREMIUM MACHINE SPLIT

**COLOR/CHARACTERISTICS:** Buff and Gray in color with uniform heights of 13" to 15" with average depths of 18" to 20" and 4' to 5' average lengths.

Average Pallet Weight: 3500 to 4000 lbs.

### SPECIFICATIONS:

#### ASTM C 97\*

SPECIFIC GRAVITY: Dry: 2.542 Wet: 2.684

ABSORPTION: 2.1%

#### ASTM C 99\*\*

MODULUS OF RUPTURE: 1,500 PARALLEL  
MODULUS OF RUPTURE: 1,680 PERPENDICULAR

#### ASTM C 170\*\*

COMPRESSIVE STRENGTH: 11,960 psi

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

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

\*\*Information is based on test results by Tetra Tech, Inc.





## » 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



## » DOVE GRAY

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**COLOR/CHARACTERISTICS:** Overall tone is light gray with some occasional darker gray variegation through the stone

**SPECIFICATIONS:**

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**ASTM C 97**

DRY WEIGHT: 1025.7 g  
SSD WEIGHT: 1045.3 g  
WET WEIGHT: 641.7 g  
DENSITY: 158.6 lbs/ft<sup>3</sup>  
ABSORPTION: 1.91%

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**ASTM C 170**

COMPRESSIVE STRENGTH: 11,960 psi

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**ASTM C 99**

MODULUS OF RUPTURE: 1,500	PARALLEL
MODULUS OF RUPTURE: 1,680	PERPENDICULAR

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\*This information is based on test results by Tetra Tech, Inc.







## » EASTERN WEATHERED SANDSTONE

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**COLOR/CHARACTERISTICS:** Eastern Weathered Sandstone is a naturally occurring sandstone material, weathered naturally by the effects of its environment. Colors range from gray to brown and mossy covered.

### SPECIFICATIONS:

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**ASTM C 97**

SPECIFIC GRAVITY: 2.33

ABSORPTION: 2.7%

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**ASTM C 99**

MODULUS OF RUPTURE: 2.939 psi

ORIENTATION/CONDITION: Parallel to the Rift/Dry

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**ASTM C 170**

COMPRESSIVE STRENGTH: 12,000 psi

ORIENTATION/CONDITION: Parallel to the Rift/Dry



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## » FOND DU LAC

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**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<sup>TM</sup>

### SPECIFICATIONS:

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**ASTM C 97**

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

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**ASTM C 99**

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

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**ASTM C 170**

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

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**ASTM C 880**

FLEXURAL STRENGTH:	Perpendicular: 2,470 (psi)	Parallel: 2,470 (psi)
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## » GLACIER BOULDERS (Page 1 of 2)

**COLOR/CHARACTERISTICS:** Pinks, whites, grays, multi-colored, smooth & round.  
 Small: 12" – 18" • Medium: 18" – 24" • Large: 24" – 36" • Pallet Weight: 3000-3400 lbs.

### SAMPLE DETAILS:

**Material:** Fine Concrete Aggregate  
**Specification:** ASTM:C33, Fine Aggregate  
**Sampling Method:** ASTM:D75

### OTHER TEST RESULTS:

Description	Method	Result	Limits
Lightweight particles(%)	ASTM C 123	<0.1	≤0.5
Shale particles (%)		<0.1	
Coal and lignite particles (%)		<0.1	
Deleterious substances (%)		<0.1	≤0.3
Chert particles (%)		<0.1	
Test sample mass (g)		200	
Aggregate size (in)		Fine Aggregate	
Type of heavy liquid		LMT	
Heavy liquid specific gravity		2.0	
Date Tested		6/21/2017	
Fineness Modulus	ASTM C 136, ASTM C 117	2.6	2.3 – 3.1
Clay lumps & friable particles (%)	ASTM C 142	0.00	<1.0
Date Tested		6/21/2017	

### PARTICLE SIZE DISTRIBUTION:

**Method:** ASTM C 136, ASTM C 117  
**Drying By:** Oven

Sieve Size	% Passing	Limits
3/8in (9.5mm)	100	100
No.4 (4.75mm)	99	95-100
No.8 (2.36mm)	87	80-100
No.16 (1.18mm)	75	50-85
No.30(600µm)	55	25-60
No.50 (300µm)	18	5-30
No.100 (150µm)	2	0-10
No.200 (75µm)	0.8	0.0-3.0



## >> GLACIER BOULDERS (Page 2 of 2)

### SOUNDNESS

Sample Size	Weighted Multiplier %	Initial Mass (g)		Retained Mass (g)	Loss (g)	Loss %	Weighted Loss %
P1 1/2" – R1" P1" – R3/4"	**** 0	****	****	****	****	****	****
P3/4" – R1/2"	****	671.2	1003.6	****	****	****	****
P1/2" – R3/8"	65	332.4		995.2	8.4	0.8	0.5
P3/8" – R#4	35	302.4	302.4	300.2	2.2	0.7	0.2

### SODIUM SULPHATE SOUNDNESS

5 cycles, AASHTOT104, Weighted Loss %

<b>0.7</b>
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### FREEZE THAW

Sample Size	Weighted Multiplier %	Initial Mass (g)		Retained Mass (g)	Loss (g)	Loss %	Weighted Loss %
P1 1/2" – R1" P1" – R3/4"	**** 0		****	****	****	****	****
P3/4" – R1/2"	****		****	****	****	****	****
P1/2" – R3/8"	65			****	****	****	****
P3/8" – R#4	35						

### SOUNDNESS OF AGGREGATES BY FREEZING AND THAWING

AASHTOT103, Weighted Loss %

### COARSE AGGREGATE SPECIFIC GRAVITY

Sample #	1	2	3	
Saturated Weight, g	3092.1	3196.1		
Oven-Dry Weight, g	3066.0	3167.6		
Weight in Water, g	1962.0	2021.9		<b>Average</b>
Absorption, %	0.851	0.900		0.876
Bulk Specific Gravity	2.713	2.698		2.705
Bulk Specific Gravity, SSD	2.736	2.722		2.729
Apparent Specific Gravity	2.777	2.765		2.771

## » HAWKEYE SAWN LEDGE

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**COLOR/CHARACTERISTICS:** Color ranges from light to dark buffs & browns, tans, golds with tints of black and auburn tones.

Heights: Sawn top and bottom heights of 2", 3" and 4"  
Lengths: Random lengths up to 24"

**FEATURES:**

Available in ThinCut<sup>TM</sup> Veneer: 100% bed-face with a natural back

**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

**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





## »» INDIANA LIMESTONE

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Request this file by emailing [info@semcostone.com](mailto:info@semcostone.com)  
because this testing data report has several pages and is easier to email.



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## » 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>TM</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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## » PLATINUM FALLS

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**COLOR/CHARACTERISTICS:** Light to dark grays & blues

**FEATURES:**

100% Bed-face with a natural back

Sawn Heights: 2", 3", 4"

Lengths: Random up to 24"

Available in ThinCut<sup>TM</sup> only

**SPECIFICATIONS:**

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**ASTM C 97**

DENSITY: 142.8 lb/ft<sup>3</sup>

ABSORPTION: 1.5534%

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**ASTM C 99**

MODULUS OF RUPTURE: 890 psi

CLASS III QUARTZITE

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**ASTM C 170**

COMPRESSIVE STRENGTH: 7,500 psi

CLASS III QUARTZITE

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**ASTM C 97**

BULK SPECIFIC GRAVITY

2.3872

CLASS II QUARTZITIC SANDSTONE

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



## » ROCKPORT BLEND

**BLEND PERCENTAGE:** This unique blend is made up of approximately 90% Mountain Ridge Split-face and 10% Blue River Split-face.

**COLOR / CHARACTERISTICS:** Light & dark gray, blue & buff tones

**LENGTHS:** Random up to 24 inches

**FEATURES:**

Random Height: 100% Split-face

Dimensional: Sawn heights, split-face and ends

Available in Full Veneer & ThinCut™

### MOUNTAIN RIDGE SPECIFICATIONS:

**ASTM C 170**

COMPRESSIVE STRENGTH:	Perpendicular	PSI (gross) 12,547
	Parallel	PSI (gross) 12,310

**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.

### BLUE RIVER 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.



## » SILVERDALE

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**COLOR/CHARACTERISTICS:** Limestone buff in color with some light yellow variegation throughout the stone

**SPECIFICATIONS:**

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**ASTM C 97**

DENSITY: 134.19

SPECIFIC GRAVITY: 2.151 lb/ft<sup>3</sup>

ABSORPTION: 7.51%

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**ASTM C 99**

MODULUS OF RUPTURE: 822 psi (5.67 MPa)

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**ASTM C 170**

COMPRESSIVE STRENGTH: 5047 psi (34.79 MPa)

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**ASTM C 880**

FLEXURAL STRENGTH: 725 psi (5.00 MPa)

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**ASTM C 241**

ABRASION RESISTANCE: 3.18

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Testing was performed in general accordance with the following ASTM Standards. Test results by SGS U.S. Testing Company, Inc.



## » SILVER MIST

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### COLOR/CHARACTERISTICS:

100% Split-Face

Gray tones with some veining throughout the stone

### FEATURES:

Heights: 4" – 10"

Lengths: Random lengths

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

### SPECIFICATIONS:

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AVERAGE PSI: 11,750 (psi)

ABSORPTION: 5.2%

OVEN DRY SPECIFIC GRAVITY: 2.23

SSD SPECIFIC GRAVITY: 2.34

APPERENT SPECIFIC GRAVITY: 2.52

OVEN DRY DENSITY: 138.6 lbs/ft<sup>3</sup>

SSD DENSITY: 145.8 lbs/ft<sup>3</sup>

APPERENT DENSITY: 156.7 lbs/ft<sup>3</sup>

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Testing was performed in general accordance with the following ASTM Standards.  
This information is based on test results by Koehler Engineering.



## »» 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

---

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.



## » TUSCAN TAN

---

### COLOR/CHARACTERISTICS:

100% Split-Face

Tan and cream colors, some gray tones with some veining throughout the stone

### FEATURES:

Heights: 4" – 10"

Lengths: Random lengths

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

### SPECIFICATIONS:

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#### ASTM C 568

AVERAGE PSI: 6,670 (psi)

ABSORPTION: 8.8%

OVEN DRY SPECIFIC GRAVITY: 2.08

SSD SPECIFIC GRAVITY: 2.26

APPERENT SPECIFIC GRAVITY: 2.54

OVEN DRY DENSITY: 129.5 lbs/ft<sup>3</sup>

SSD DENSITY: 140.8 lbs/ft<sup>3</sup>

APPERENT DENSITY: 158.4 lbs/ft<sup>3</sup>

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Testing was performed in general accordance with the following ASTM Standards.  
This information is based on test results by Koehler Engineering.





## » WEATHERED SANDSTONE

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**COLOR/CHARACTERISTICS:** Weathered Sandstone is a naturally occurring sandstone material, weathered naturally by the effects of its environment. Harvested from the hills of Southern Missouri and Northern Arkansas

### 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.





## » WEATHERED LIMESTONE BOULDERS & LEDGEROCK

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**COLOR/CHARACTERISTICS:** Weathered Limestone Boulders & Ledgerock are light buff to cream to dark gray in color. Palletized in small, medium or large. Average Pallet Weight is 2200-3800 lbs.

### SPECIFICATIONS:

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**ASTM C 97**  
SPECIFIC GRAVITY: 2.77  
ABSORPTION: 0.62%

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Testing was performed in general accordance with the following ASTM Standards.  
This information is based in August 2020 test results by Intertek-PSI in St. Louis, MO.



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## » WESTON CREAM

**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:**

**ASTM C 97**

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

SPECIFIC GRAVITY: 2.173

ABSORPTION: 6.51%

**ASTM C 99**

MODULUS OF RUPTURE: 883 psi      6.09 Mpa

**ASTM C 170**

COMPRESSIVE STRENGTH: 5,686 psi      39.20 Mpa

**ASTM C 241**

ABRASION RESISTANCE: 5.06

**ASTM C 880**

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



## » 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>TM</sup> cannot exceed 10.5")  
Random lengths from 10" to 30"

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

**SPECIFICATIONS:**

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**ASTM C 97**

BULK SPECIFIC GRAVITY: 2.16

DENSITY: 134.6 lbs./ft<sup>3</sup>

ABSORPTION: 6.1%

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**ASTM C 170**

COMPRESSIVE STRENGTH: 5,800 psi    PARALLEL

COMPRESSIVE STRENGTH: 6,010 psi    PERPENDICULAR

---

**ASTM C 99**

MODULUS OF RUPTURE: 1,050            PARALLEL

MODULUS OF RUPTURE: 810            PERPENDICULAR



## » WOLF RIDGE

### COLOR/CHARACTERISTICS:

Primarily charcoal gray in color, with some light gray color veining throughout the stone.

### FEATURES:

Heights: 3" – 6"

Lengths: Random lengths up to 24"

The test results below exceed the minimum requirements of ASTM C 616-97 (see table below for reference)

### 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

#### ASTM C 170

COMPRESSIVE STRENGTH: 23,814 psi

CLASS III QUARTZITE

164.17 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



## » 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<sup>™</sup>

**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
--------------------------	-------------------------------

**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
----------------------------	---------------------

**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



## » WIND RIVER

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**COLOR:** Tan, pink, rust and dark brown in color

### SPECIFICATIONS:

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**ASTM C 97**

SPECIFIC GRAVITY: 2.53

ABSORPTION: 1.2%

---

**ASTM C 99**

MODULUS OF RUPTURE: 3,225 psi

ORIENTATION/CONDITION: Parallel to the Rift/Dry

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**ASTM C 170**

COMPRESSIVE STRENGTH: 29,300 psi

ORIENTATION/CONDITION: Parallel to the Rift/Dry





## » 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 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

