



BLOCK TEST REPORT

Imperial Standard

HEAVY, MEDIUM & LIGHTWEIGHT

Report Date: January 21, 2015

Santerra Stonecraft Standard C.M.U. Test Report

The following is a summary of the most recent test results performed on standard masonry units manufactured by Santerra Stonecraft in accordance with Canadian Standards Association No: CSA A165.1 (R2014). The results shown below represent products as supplied in each classification as defined in Table 1 Facet 3 of the standard and as permitted in section 10.4 to represent all sizes of product produced in the same mix design.

Block
Class

A	Description: Normal Heavy Weight Manufacturing Date: December 2, 2014 Absorption: 126 kg./cu.meter Compressive Strength: 21.3 mpa	Facet Coding: H, SS or SF/ 20 / A / M Test No: 15-02 Lot Size: 3,450 pcs. Density: 2,068 kg./cu.meter
B	Description: Normal Medium Weight Manufacturing Date: December 15, 2014 Absorption: 166 kg./cu.meter Compressive Strength: 21.3 mpa	Facet Coding: H, SS or SF/ 20 / B / M Test No: 15-01 Lot Size: 7,113 pcs. Density: 1,970 kg./cu.meter
C	Description: Lightweight Manufacturing Date: May 20, 2014 Absorption: 184 kg./cu.meter Compressive Strength: 19.7 mpa	Facet Coding: H, SS or SF/ 15 / C / M Test No: 15-03 Lot Size: 7,092 pcs. Density: 1,794 kg./cu.meter
D	Description: Ultra Lightweight - Special Order call for performance details	

Please find attached detailed test data and results for each of the block classifications as listed above. Should any questions arise in regard to the results presented, please contact the undersigned at your earliest convenience.



Dennis Sauve CCMTT

PRODUCT TESTING

2015

Test Number : 15-02

Production date: December 2, 2014

Size - Imperial > 8 inch

OR - Metric . > 0

Weight Class: A - Heavy Weight

Date tested December 16, 2015

Run Quant: 3,450

Physical Data

Block width: 7.625 inches 194 mm

length: 15.625 inches 397 mm

height: 7.625 inches 194 mm

Gross Volume 0.53 Cu. Ft. 14,887 cu. cm

	Rec: weight lbs	Susp: weight	Sat: weight	Dry weight	Density (kg/cu.m)	Density (lbs/cu.ft)	Absorption (kg/cu.m)
Sample #1	35.90	20.00	37.35	35.25	2031	127	121
Sample #2	36.05	20.55	37.40	35.30	2094	131	125
Sample #3	35.95	20.45	37.30	35.05	2079	130	133
Sample Average	35.97	20.33	37.35	35.20	2068	129	126

Test summary:	Density (kg/cu.m)	Absorption (kg/cu.m)	Permeation (mph)	Received Absorption	Percent Solid	Net Volume Cu.Ft.	Inch Equiv: Thickness
Averages:	2068	126		6.1%	51.9%	0.27	3.95

Heavy weight	>2000	<175
Medium weight	1800-2000	<200
Light weight	1700-1800	<225
Ultra light weight	<1700	<300

Compression Results

Date tested: January 19, 2015

	Comp: Guage reading	Conv: PSI gross area	Conv: PSI net area	Net strenght MPA
Sample #1	196,070	1,646	3,173	21.88
Sample #2	201,670	1,693	3,264	22.51
Sample #3	195,060	1,637	3,157	21.77
Sample #4	192,230	1,613	3,111	21.46
Sample #5	199,580	1,675	3,230	22.28
Averages:	196,922	1,653	3,187	21.98

Std. Deviation	0.42
Range	1.63
Factored	0.68
Net Comp:	21.90

PRODUCT TESTING

2015

Test Number : 15-01

Production date: December 1, 2014

Physical Data

Size - Imperial > 8 Inch

Block width: 7.625 inches 194 mm

OR - Metric > 0

length: 15.625 inches 397 mm

Weight Class: B - Medium Weight

height: 7.625 inches 194 mm

Date tested December 15, 2014

Gross Volume 0.53 Cu. Ft. 14,887 cu. cm

Run Quant: 7,113

	Rec: weight lbs	Susp: weight	Sat: weight	Dry weight	Density (kg/cu.m)	Density (lbs/cu.ft)	Absorption (kg/cu.m)
Sample #1	34.05	19.20	36.00	33.25	1978	124	164
Sample #2	33.75	19.05	35.75	33.00	1975	123	165
Sample #3	33.75	18.95	35.75	32.90	1958	122	170
Sample Average	33.85	19.07	35.83	33.05	1970	123	166

Test summary:	Density (kg/cu.m)	Absorption (kg/cu.m)	Permeation (mph)	Received Absorption	Percent Solid	Net Volume Cu.Ft.	Inch Equiv: Thickness
Averages:	1970	166		8.4%	51.1%	0.27	3.90

Heavy weight	>2000	<175
Medium weight	1800-2000	<200
Light weight	1700-1800	<225
Ultra light weight	<1700	<300

Compression Results

Date tested: January 19, 2015

	Comp: Guage reading	Conv: PSI gross area	Conv: PSI net area	Net strenght MPA
Sample #1	213,610	1,793	3,508	24.19
Sample #2	234,710	1,970	3,854	26.58
Sample #3	204,300	1,715	3,355	23.14
Sample #4	193,620	1,625	3,180	21.93
Sample #5	220,550	1,851	3,622	24.98
Averages:	213,358	1,791	3,504	24.16

Std. Deviation	1.77
Range	1.63
Factored	2.89
Net Comp:	21.28

PRODUCT TESTING

2015

Test Number : 15-03

Production date: May 20, 2015

Size - Imperial > 8-Inch

OR - Metric > 0

Weight Class: C - Light Weight

Date tested January 12, 2015

Run Quant: 7,092

Physical Data

Block width: 7.625 inches 194 mm

length: 15.625 inches 397 mm

height: 7.625 inches 194 mm

Gross Volume 0.53 Cu. Ft. 14,887 cu. cm

	Rec: weight lbs	Susp: weight	Sat: weight	Dry weight	Density (kg/cu.m)	Density (lbs/cu.ft)	Absorption (kg/cu.m)
Sample #1	32.05	16.50	33.50	30.25	1779	111	191
Sample #2	32.65	16.90	34.00	30.95	1809	113	178
Sample #3	32.25	16.60	33.60	30.50	1793	112	182
Sample Average	32.32	16.67	33.70	30.57	1794	112	184

Test summary:	Density (kg/cu.m)	Absorption (kg/cu.m)	Permeation (mph)	Received Absorption	Percent Solid	Net Volume Cu.Ft.	Inch Equiv: Thickness
Averages:	1794	184		10.3%	51.9%	0.27	3.96

Heavy weight	>2000	<175
Medium weight	1800-2000	<200
Light weight	1700-1800	<225
Ultra light weight	<1700	<300

Compression Results

Date tested:	January 19			
	Comp: Guage reading	Conv: PSI gross area	Conv: PSI net area	Net strenght MPA
Sample #1	219,310	1,841	3,545	24.45
Sample #2	204,060	1,713	3,299	22.75
Sample #3	201,010	1,687	3,249	22.41
Sample #4	184,860	1,552	2,988	20.61
Sample #5	187,630	1,575	3,033	20.92
Averages:	199,374	1,673	3,223	22.23

Std. Deviation	1.55
Range	1.63
Factored	2.52
Net Comp:	19.70