

Client: Chad Tobias
Address: Anchor Concrete Products - Oldcastle
975 Burnt Tavern Road
Brick, NJ 08724

Project Name: Oldcastle Corporate Lab Tests

Date Received: September 20, 2012

Date of Compression Testing: October 3, 2012

Unit Specification: ASTM C90

Laboratory Number: 10- 103961

Unit Designation and
Description: Concrete Masonry Unit
12x8x16 Split Face NRG
Brick, NJ Plant

Summary of Test Results

Physical Property	Specification Values	Average Test Results	Physical Property	Specification Values	Average Test Results
Net Compressive Strength	>1900	7750 <i>psi</i>	Min. Faceshell Thickness (FST)		- <i>in.</i>
Gross Compressive Strength		7490 <i>psi</i>	Min. Web Thickness (WT)		- <i>in.</i>
Density		139.9 <i>pcf</i>	Equivalent Web Thickness		- <i>in.</i>
Absorption	0-13	4.4 <i>pcf</i>	Equivalent Thickness		7.01 <i>in.</i> ²
Percent Solid		95.7 %	Net Cross-Sectional Area		8.92 <i>in.</i> ²
Moisture Content		N/A %	Gross Cross-Sectional Area		9.22 <i>in.</i> ²

Individual Unit Test Results

Specimen No.	Received Wt, <i>W_R</i> <i>lb.</i>	Cross-Sectional Area		Max. Load <i>lb.</i>	Compressive Strength	
		Gross <i>in.</i> ²	Net <i>in.</i> ²		Gross <i>psi</i>	Net <i>psi</i>
1	66.00	9.23	8.85	66985	7250	7570
2	65.70	9.17	8.93	69660	7590	7790
3	66.20	9.26	8.98	70865	7650	7890
Average	65.97	9.22	8.92	69170	7490	7750

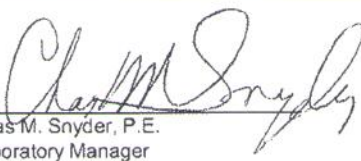
* Net area determined from absorption specimens unless solid units are used.


Specimen No.	Average Width <i>in.</i>	Average Height <i>in.</i>	Average Length <i>in.</i>	Average Min. FST <i>in.</i>	Average Min. WT <i>in.</i>
4	1.5	3.1	6.2	-	-
5	1.5	3.1	6.2	-	-
6	1.5	3.1	6.2	-	-
Average	1.5	3.1	6.2	-	-

Specimen No.	Received Wt, <i>W_R</i> **	Immersed Wt, <i>W_I</i>	Saturated Wt, <i>W_S</i>	Oven-Dry Wt, <i>W_D</i>	Absorption		Density	Net Volume	Net Area	Percent Solid	Moisture Content**
	<i>lb.</i>	<i>lb.</i>	<i>lb.</i>	<i>lb.</i>	<i>pcf</i>	%	<i>pcf</i>	<i>ft</i> ³	<i>in.</i> ²	%	% of total absorption
4	65.29	1.40	2.45	2.38	4.2	2.9	141.4	0.0168	8.92	99.5	N/A
5	65.40	1.29	2.29	2.22	4.4	3.2	138.5	0.0160	8.83	95.3	N/A
6	65.90	1.26	2.22	2.15	4.6	3.3	139.8	0.0154	8.83	92.2	N/A
Average	65.53	1.32	2.32	2.25	4.4	3.1	139.9	0.0161	8.86	95.7	N/A

**Received weight determined at the time of unit delivery to the job site or from units sampled at that time and delivered to the laboratory in sealed containers for moisture content determination.

Remarks: The units were tested according to ASTM C140. This set meets the absorption and compressive strength requirements of ASTM C90. Tests conducted on reduced size specimens. Original nominal dimensions were 12 x 8 x 16 in. NCMA Fire Rating: > 4 hours.


Chas M. Snyder, P.E.
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Quinton D. Davis, Jr.
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