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December 19, 2007

Mr. Kevin Cavanaugh
Oldcastle Architectural, Inc.
375 Northridge Road, Suite 250
Atlanta, GA 30350

Please find enclosed a copy of a test report that we performed at your request on the following product that you supplied:

8 x 4 x 16 inch
Quik-Brik with "V Technology"
NCMA Job Number: 07-665-1

We are pleased to report that the tested properties from this report comply with the applicable requirements of ASTM C 90-06, Standard Specification for Loadbearing Concrete Masonry Units.

The attached report includes the tested compressive strength of the concrete masonry unit. The compressive strength of masonry constructed using these units can be calculated using the Unit Strength Method as outlined in Section 1.4.B.2.b of Specifications for Masonry Structures (ACI 530.1-05 / ASCE 6-05 / TMS 602-05). In accordance with this method, the compressive strength of masonry is a function of unit strength and mortar type. As shown in the attached test report...

Net Area Compressive Strength of
8 x 4 x 16 inch 5320 psi
Quik-Brik with "V Technology"

Therefore, the net area compressive strength of masonry when these units are used, can be considered to be the following:

	Net Area Compressive Strength of Masonry	
<u>When used with:</u>		
Type M or S mortar	3000	psi
Type N mortar	3000	psi

The values provided above can be compared directly to the specified compressive strength of masonry, f'_m . If these values exceed f'_m , compliance has been documented.

Sincerely,


Jeffrey S. Stein, P.E.
Manager, Research and Development Laboratory



**NATIONAL
CONCRETE MASONRY
ASSOCIATION**

Sustainable Concrete Products for Structures and Hardscapes

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ASTM C 140 Test Report
From Saw-Cut Specimens

Job No.: 07-665-1
Report Date: 12/19/2007

Client: Oldcastle Architectural, Inc.
Address: 375 Northridge Road, Suite 250
Atlanta, GA 30350

Testing Agency: National Concrete Masonry Association
Address: Research and Development Laboratory
13750 Sunrise Valley Drive
Herndon, Virginia 20171-4662

Unit Specification: ASTM C90-06

Sampling Party: Oldcastle Architectural, Inc.

Unit Designation/Description:
8 x 4 x 16 inch
Quik-Brik with "V Technology"

Note: Specimens have been saw cut from full-size units in order to provide a full bearing surface on the top of the unit for compressive strength testing as per ASTM C 140.

Summary of Test Results

<u>Physical Property</u>	<u>Required Values</u>	<u>Tested Values¹</u>		<u>Physical Property</u>	<u>Required Values</u>	<u>Tested Values²</u>	
Net Compressive Strength	1900 min	5320	psi	Density	****	134.3	pcf
Gross Compressive Strength	****	2730	psi	Absorption	13 max	8.0	pcf
				Min. Faceshell Thickness (t _{fs})	1.25 min	1.28	in.
				Min. Web Thickness (t _w)	1.00 min	1.19	in.
				Equivalent Web Thickness	2.25 min	2.76	in.
				Equivalent Thickness	****	3.85	in.
				Max. Var. from Spec. Dimensions	.125 max	0.095	in.
				Net Cross-Sectional Area	****	59.99	in ²
				Gross Cross-Sectional Area	****	119.05	in ²
				Percent Solid	****	50.39	%

¹ Reported values are based on the properties of saw cut absorption and compression specimens.

² Reported values are based on the properties of full sized units.

Individual Unit Test Results

<u>Properties of Full-Size Units</u>	Avg Width	Avg Height	Avg Length	Avg./Min. t _{fs} ³	Min. t _w	Received Wt, W _R	Immersed Wt, W _I	Saturated Wt, W _S	Oven-Dry Wt, W _D
	in.	in.	in.	in.	in.	lb	lb	lb	lb
Unit #4	7.65	3.61	15.57	1.28	1.19	17.28	10.05	17.84	16.87
Unit #5	7.65	3.64	15.54	1.29	1.19	17.16	9.98	17.84	16.87
Unit #6	7.65	3.59	15.58	1.28	1.19	17.10	10.00	17.81	16.76
Average	7.65	3.61	15.56	1.28	1.19	17.18	10.01	17.83	16.83

³ Where the thinnest point of opposite face shells differ in thickness by less than 0.125 inches, their measurements are averaged.

	Net Volume ft ³	Percent Solid %	Absorption pcf	Density pcf
16.26	0.1248	50.26	7.8	135.1
16.46	0.1260	50.37	7.7	133.9
16.50	0.1252	50.55	8.4	133.9
Average	0.1253	50.39	8.0	134.3

Properties of Saw-Cut Compression Specimens

<u>Specimens</u>	Received Wt, W _R	Avg Width	Avg Height	Avg Length	<u>Cross-Sectional Area⁴</u>		Max. Load	<u>Compressive Strength</u>	
					Gross	Net		Gross	Net
					in ²	in ²		psi	psi
Unit #1	15.87	7.65	3.26	15.57	119.05	61.12	340070	2860	5560
Unit #2	15.65	7.65	3.27	15.54	119.05	61.12	338580	2840	5540
Unit #3	15.87	7.65	3.27	15.58	119.05	61.12	297490	2500	4870
Average	15.80	7.65	3.26	15.56	119.05	61.12	325380	2730	5320

⁴ Unit areas determined as the average of the three saw-cut absorption specimens and are assumed to be the same as those units tested in compression.

Properties of Saw-Cut Absorption Specimens

<u>Specimens</u>	Received Wt, W _R	Immersed Wt, W _I	Saturated Wt, W _S	Net Volume ft ³
Unit #4	15.87	9.12	16.26	0.1144
Unit #5	15.65	9.23	16.46	0.1159
Unit #6	15.87	9.26	16.50	0.1160
Average	15.80	9.20	16.41	0.1154

Comments: These tested properties meet or exceed the applicable requirements of ASTM C 90-06.

Jeffrey S Stein
Jeffrey S. Stein, P.E.
Manager, Research and Development Laboratory