

CONCRETE MASONRY UNIT TEST REPORT



Consulting Engineers & Scientists

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210-641-2112 Reg No: F-3272

Report Number: 90111113.0003

Service Date: 6/13/2011

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Client

Capitol Products, Inc.
Attn: Steve Muniz
7531 N. IH35
Jarrell, Texas 76537

Project

Concrete Masonry Unit Testing
7531 N. IH 35
Jarrell, Texas

Project Number: 90111113

PROJECT INFORMATION AND TEST RESULTS

Sample Identification: 8" Medium Weight CMU Units

Terracon Representative: Steve Kosub

Summary of Tests Results

Physical Property	Specified Values	Average Test Results	Physical Property	Specified Values	Average Test Results
Net Compressive Strength	1,900 min	2,197 psi	Min. Faceshell Thickness (FST)	1.25	1.27 in.
Gross Compressive Strength		1,120 psi	Min. Web Thickness (WT)	1.00	1.17 in.
Density	105 to 125	112.85 pcf	Equivalent Web Thickness	2.25	2.71 in.
Absorption	15 max	11.70 pcf	Equivalent Thickness	--	3.87 in.
Percent Solid		50.88 psi	Net Cross-Sectional Area	--	60.33 in. ²
			Gross Cross-Sectional Area	--	118.56 in. ²

Individual Unit Test Results

	Specimen No.	Received Wt,WR (lb)	Cross-Sectional Area		Max. Load (lb)	Compressive Strength	
			Gross (in. ²)	Net* (in. ²)		Gross (psi)	Net (psi)
<i>Compression Units</i>	#1	0.00	118.56	60.33	128,860	1,090	2,140
	#2	0.00	118.56	60.33	136,790	1,150	2,270
	#3	0.00	118.56	60.33	131,650	1,110	2,180
	Average	0.00	118.56	60.33	132,433	1,120	2,197

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

	Specimen No.	Avg. Width (in)	Avg. Height (in)	Avg. Length (in)	Avg. min FST (in)	Avg. min WT (in)
<i>Absorption Units</i>	#4	7.600	7.600	15.600	1.27	1.17
	#5	7.600	7.600	15.600	1.27	1.18
	#6	7.600	7.600	15.600	1.28	1.17
	Average	7.600	7.600	15.600	1.27	1.17

Specimen No.	Received Wt,WR** (lb)	Immersed Wt, WI (lb)	Saturated Wt, Ws (lb)	Oven-Dry Wt, Wd (lb)	Absorp. (pcf)	Density (pcf)	Net Volume (ft ³)	Net Area (in ²)	Percent Solid (%)	Moisture Content** % of total absorption
#4	30.16	16.38	32.90	29.82	11.63	112.64	0.2647	60.19	50.77	--
#5	30.20	16.51	33.04	29.90	11.85	112.87	0.2649	60.23	50.80	--
#6	30.42	16.58	33.20	30.11	11.60	113.05	0.2663	60.56	51.08	--
Average	30.26	16.49	33.05	29.94	11.70	112.85	0.2653	60.33	50.88	--

** 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. These tested properties meet or exceed the applicable requirements of ASTM C90-11 unless indicated with *.

Reviewed By:

Daniel E. Jacobs
Senior Project Manager