

CONCRETE MASONRY UNIT TEST REPORT

Report Number: 90111113.0004
 Service Date: 6/13/2011
 Report Date: 6/13/2010

Terracon
 Consulting Engineers & Scientists
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Client

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 Jarrell, Texas 76537

Project

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

Project Number: 90111113

PROJECT INFORMATION AND TEST RESULTS

Sample Identification: 12" Medium Weight CMU Units Terracon Representative: Steve Kosub

Summary of Tests Results

Physical Property	Specified Values	Average Test		Physical Property	Specified Values	Average Test Results
		Results	Results			
Net Compressive Strength	1,900	2,250 psi	2,250 psi	Min. Faceshell Thickness (FST)	1.25	1.29 in.
Gross Compressive Strength		960 psi	960 psi	Min. Web Thickness (WT)	1.12	1.26 in.
Density	105 to 125	113.23 pcf	113.23 pcf	Equivalent Web Thickness	2.50	2.92 in.
Absorption	15 max	13.52 pcf	13.52 pcf	Equivalent Thickness	--	4.94 in.
Percent Solid		42.58 psi	42.58 psi	Net Cross-Sectional Area	--	77.05 in. ²
				Gross Cross-Sectional Area	--	180.96 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	180.96	77.05	163,210	900	2,120
	#2	0.00	180.96	77.05	175,660	970	2,280
	#3	0.00	180.96	77.05	180,870	1,000	2,350
	Average	0.00	180.96	77.05	173,247	960	2,250

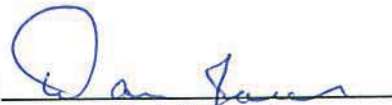
* Net area determined from absorption specimens unless solid units are used.

	Specimen No.	Avg. Width (in)	Avg. Height (in)	Avg. Length (in)	Avg. min FST (in)	Avg. min WT (in)
<i>Absorption Units</i>	#4	11.600	7.600	15.600	1.28	1.26
	#5	11.600	7.600	15.600	1.29	1.26
	#6	11.600	7.600	15.600	1.29	1.27
	Average	11.600	7.600	15.600	1.29	1.26

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	38.79	21.79	43.19	38.45	13.82	112.12	0.3429	77.98	43.09	--
#5	38.59	21.76	42.76	38.26	13.37	113.69	0.3365	76.52	42.28	--
#6	38.75	21.87	42.91	38.40	13.38	113.89	0.3372	76.66	42.37	--
Average	38.71	21.81	42.95	38.37	13.52	113.23	0.3389	77.05	42.58	--

** 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