

Client: Mr. John P. Orsina
Address: Westbrook Concrete Block Co., Inc.
PO Box 700
Westbrook CT 06498

Project Name: Westbrook Concrete Block Lab Tests

Date Received: February 3, 2016

Date of Compression Testing: February 24, 2016

Unit Specification: ASTM C90

Unit Designation and Description: Concrete Masonry Unit
8x8x16" Regular Light Weight
with Pozzotive

Laboratory Number: 10- 137761

Summary of Test Results

Physical Property	Specification Values	Average Test Results	Physical Property	Specification Values	Average Test Results
Net Compressive Strength (min.)	2000	3800 psi	Min. Faceshell Thickness (FST)	1.25	1.30 in.
Gross Compressive Strength		2020 psi	Min. Web Thickness (WT)	0.750	1.15 in.
Density		101.9 pcf	Equivalent Web Thickness		2.65 in.
Absorption (max.)	18	12.0 pcf	Equivalent Thickness		4.06 in.
Percent Solid		53.1 %	Normalized Web Area	6.5	31.8 in. ² /ft. ²
Net Cross-Sectional Area		63.27 in. ²	Max. Var. From Spec. Dimensions		in.
Gross Cross-Sectional Area		118.98 in. ²	Moisture Content		%

Individual Unit Test Results

Specimen No.	Received Wt, W _R lb.	Cross-Sectional Area		Max. Load lb	Compressive Strength	
		Gross in. ²	Net* in. ²		Gross psi	Net psi
4	29.48	119.03	63.32	271185	2270	4280
5	30.11	119.11	63.15	247925	2080	3920
6	29.52	118.80	63.32	203950	1710	3220
Average	29.70	118.98	63.27	241020	2020	3800

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

Specimen No.	Average Width	Average Height	Average Length	Average Min. FST	Average Min. WT	Normalized Web Area
	in.	in.	in.	in.	in.	In. ² /ft. ²
1	7.65	7.61	15.58	1.30	1.15	31.8
2	7.65	7.60	15.59	1.31	1.15	31.8
3	7.63	7.60	15.57	1.30	1.15	31.9
Average	7.64	7.60	15.58	1.30	1.15	31.8

Specimen No.	Received Wt, W _R **	Immersed Wt, W _I	Saturated Wt, W _S	Oven-Dry Wt, W _O	Absorption		Density	Net Volume	Net Area	Percent Solid	Moisture Content**
	lb	lb	lb	lb	pcf	%	pcf	ft ³	in ²	%	% of total absorption
1	29.72	14.32	31.67	28.33	12.0	11.8	101.9	0.2779	63.15	53.0	
2	30.07	14.47	31.91	28.60	11.8	11.6	102.3	0.2794	63.28	53.3	
3	29.42	14.17	31.45	28.09	12.1	12.0	101.4	0.2768	63.24	53.0	
Average	29.74	14.32	31.68	28.34	12.0	11.8	101.9	0.2781	63.22	53.1	

**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



Chas M. Snyder, PE
Laboratory Manager