Per	nnoni	Project No.: WECB-	WECB-1401	
	ASSOCIATES INC.	Report Date: Februa	ry 3, 2020	
Client:	Mr. John P. Orsina	Project Name: Westbrook Concrete B	lock Co., Inc.	
Address:	Westbrook Concrete Block Co., Inc.			
	PO Box 700	Date Received: Januar	/ 17, 2020	
	Westbrook CT 06498			
		Date of Compression Testing: Februa	ry 3, 2020	
Unit	Specification: ASTM C90			
		Date of Absorption Testing: January	/ 30, 2020	
Unit De	signation and	· · · · · · · · · · · · · · · · · · ·		
	Description: Concrete Masonry Unit	Testing Technician:	TRex	
	Light Weight Spectra Glaze I			
		Laboratory Nun	nber: 10- 178998	
Summary	of Test Results			

Average Specification Specification Average Test **Physical Property Physical Property** Test Values Values Results Results Net Compressive Strength (min.) 2000 Min. Faceshell Thickness (FST) 1.25 3180 1.36 in. psi Gross Compressive Strength Min. Web Thickness (WT) 0.750 1.15 1670 psi in. Equivalent Web Thickness Density 102.7 2.65 in. pcf Absorption (max.) 18 12.9 Equivalent Thickness 4.02 pcf in. in.²/ft.² Percent Solid Normalized Web Area 31.8 52.6 % 6.5 in. ² Max. Var. From Spec. Dimensions Net Cross-Sectional Area 62.98 in. in.² Gross Cross-Sectional Area 119.66 Moisture Content %

Individual Unit Test Results

	а ·	Received Wt, W _R	Cross-Se	ectional Area		Compressive Strength	
	Specimen No.		Gross	Net	Max. Load	Gross	Net
		lb.	in. ²	in. ²	lb	psi	psi
Compression Units	4	29.96	119.60	63.13	188960	1570	2990
compression onnes	5	30.11	119.84	62.84	209820	1750	3330
	6	30.56	119.53	62.55	202170	1690	3230
	Average	30.21	119.66	62.84	200320	1670	3180

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

	Specimen	Average Width	Average Height	Average Length	Average Min. FST	Average Min. WT	Normalized Web Area	
	No.	in.	in.	in.	in.	in.	In. ² /ft ²	
Absorption Units	1	7.64	7.60	15.65	1.36	1.15	31.7	
Absorption onits	2	7.64	7.60	15.66	1.35	1.15	31.8	
	3	7.64	7.63	15.65	1.36	1.15	31.8	
	Average	7.64	7.61	15.65	1.36	1.15	31.8	

Specimen No.	Received Wt, W _R **	Immersed Wt,W _I	Saturated Wt, W _s	Oven-Dry Wt <i>,</i> W _D	Absorption		Density	Net Volume	Net Area	Percent Solid	Moisture Content** % of total
	lb	lb	lb	lb	pcf	%	pcf	ft ³	in ²	%	absorption
1	30.21	14.71	32.05	28.49	12.8	12.5	102.5	0.2778	63.01	52.8	
2	29.55	14.43	31.62	27.96	13.3	13.1	101.5	0.2754	63.05	52.4	
3	30.57	15.09	32.44	28.95	12.6	12.1	104.1	0.2779	62.80	52.7	
Average	30.11	14.74	32.04	28.47	12.9	12.5	102.7	0.2770	62.95	52.6	

**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

NCMA Tek 7-1C Fire Resistance Rating = 2.5 hours based on the client supplied mix design. This report shall not be reproduced, except in full, without prior written approval from Pennoni. The above results relate only to the items tested. Samples were obtained and delivered to the lab by the client. The above units were tested at 28 days after casting.

Charl Sayder

Chas M. Snyder, PE Laboratory Manager

