

Client: Mr. Kevin Earley
Address: Nicolock Paving Stones & Retaining Walls
3025 Fairhill Drive
Collegeville, PA 19426

Project Name: Nicolock Laboratory Tests

Date Received: August 15, 2012

Date of Compression Testing: September 26, 2012

Unit Specification: ASTM C1491

Laboratory Number: 10- 103079

Unit Designation and Description: Concrete Plaza Pavers
24"x24" Plaza Pavers
PO #8357

Summary of Test Results

Physical Property	Specification Values	Average Test Results	Physical Property	Specification Values	Average Test Results
Net Compressive Strength	≥ 3000	7510 psi	Min. Faceshell Thickness (FST)	-	in.
Gross Compressive Strength		7420 psi	Min. Web Thickness (WT)	-	in.
Density		131.2 pcf	Equivalent Web Thickness	-	in.
Absorption	<13	9.1 pcf	Equivalent Thickness	-	in.
Ballast Weight		21 lb/ft ²	Compressive Net Cross-Sectional Area		31.82 in. ²
Flexural Load	>350	1473 lb.	Compressive Gross Cross-Sectional Area		32.19 in. ²
Flexural Strength		535 psi			

Individual Unit Test Results

Specimen No.	Received Wt, W _R lb.	Cross-Sectional Area		Max. Load lb.	Compressive Strength		Average Width in.	Average Height in.	Average Length in.
		Gross in. ²	Net in. ²		Gross psi	Net psi			
4	N/A	31.94	31.87	229710	7190	7200	2.0	2.0	16.0
5	N/A	32.24	31.87	246680	7650	7730	2.0	2.0	16.0
6	N/A	32.38	31.72	241175	7440	7600	2.0	2.0	16.0
Average	N/A	32.19	31.82	239188	7420	7510	2.0	2.0	16.0

Compression Tests
Reduced Size Units

Specimen No.	Average Width in.	Average Height in.	Average Length in.	Immersed Wt, W _I lb.	Saturated Wt, W _S lb.	Oven-Dry Wt, W _D lb.	Absorption pcf	Density pcf
1	2.0	2.0	16.0	2.91	5.25	4.90	9.3	130.7
2	2.0	2.0	16.0	2.93	5.28	4.95	8.8	131.4
3	2.0	2.0	16.0	2.91	5.23	4.89	9.1	131.5
Average	2.0	2.0	16.0	2.92	5.25	4.91	9.1	131.2

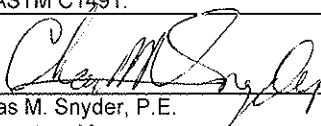
Absorption Tests
Whole Units

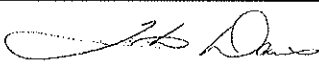
Specimen No.	Received Wt, W _R ** lb.	Average Width in.	Average Height in.	Average Length in.	Gross Area in. ²	Flexural Load lb.	Percent Solid %	Moisture Content** % of total absorption	Flexural Strength psi
1	N/A	10.0	2.1	17.0	170.17	1645	99.9	N/A	585
2	N/A	9.9	2.1	17.0	168.64	1365	99.4	N/A	535
3	N/A	10.0	2.1	17.0	169.66	1410	97.2	N/A	485
Average	86.22	10.0	2.1	17.0	169.49	1473	98.8	N/A	535

Flexural Tests
Whole Units

**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 sample meets the absorption, flexural load and compressive strength requirements of ASTM C1491.


Chas M. Snyder, P.E.
Laboratory Manager


Quinton D. Davis, Jr.
Division Manager