

March 24, 2021

Behadir "Nick" Tivari
Linda Group S.H.P.K.
Xheme Topalla
6000 Gjilan, Kosovo

Mr. Tivari,

Enclosed please find a report of testing performed by the National Concrete Masonry Association Research and Development Laboratory on the following products:

Report Number	Unit Description
21-164A 21-164B	ASTM C140: Absorption and Dimensions ASTM C482: Shear Bond Strength

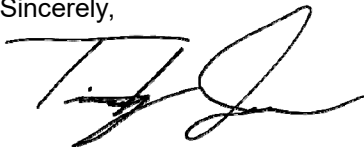
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www.surveymonkey.com/s/DDFPZT9

After taking the online survey, make use of the many resources available at our website, www.ncma.org. There you will find the latest industry news and events, a searchable directory of products and services, a vast collection of literature on the design, implementation, and marketing of manufactured concrete products and systems, as well as a list of the available laboratory services for future testing.

We take pride in meeting your product evaluation requirements and look forward to continuing to service your testing needs for years to come. Thank you for choosing NCMA's Research and Development Laboratory. Please feel free to contact me directly with any comments or questions at: 571-224-0924 or tjones@ncma.org.

Sincerely,



Timothy Jones
Manager, Research and Development Laboratory

ASTM C140/C140M - Absorption Test Report

Job No.: 21-164A
Report Date: 3/24/2021

Client: Linda Group S.H.P.K.
Address: Xheme Topalla
6000 Gjilan, Kosovo

Testing Agency: National Concrete Masonry Association
Research and Development Laboratory
Address: 13750 Sunrise Valley Drive
Herndon, VA 20171-4662

Standard Specification: ASTM C1670/C1670M-21

Sampling Party: Linda Group S.H.P.K.

Unit Description: Adhered Manufactured Stone Masonry Veneer Unit
Mark: 'ID No. 811184861'

Date Samples Manufactured: Unknown

Date Samples Received: 3/1/2021

Summary of Test Results

	ASTM C1670-21 Specified Values			Average Test Results		ASTM C1670-21 Specified Values			Maximum Test Results
	Physical Property	Values	Results			Physical Property	Values	Results	
Net Compressive Strength	2100 min	Not Tested	psi	Unit Face Area	5 max	0.15	ft ²		
Density	****	142.4	pcf	Unit Face Dimension	36 max	8.42	in.		
Absorption	****	14.2	pcf						
Saturated Unit Weight	15 max	7.7	lb/ft ²						
Average Thickness	2.625 max	0.650	in.						

Absorption Units

Specimen No.	Average Width in.	Average Length in.	Max Face Dimension in.	Unit Face Area ft ²	Average Thickness in.
1	2.41	8.35	8.36	0.14	0.692
2	2.49	8.42	8.42	0.15	0.594
3	2.40	8.30	8.30	0.14	0.693
4	2.45	8.35	8.36	0.14	0.639
5	2.45	8.30	8.31	0.14	0.634
6	2.46	8.06	8.06	0.14	0.649
Average	2.44	8.29	8.30	0.14	0.650

Date Tested: 3/10/2021

Date Tested: 3/13/2021 to 3/15/2021

Specimen No.	Received Weight lb	Immersed Weight lb	Saturated Weight lb	Oven-Dry Weight lb	Saturated Unit Weight lb/ft ²	Absorption pcf	Density pcf	Net Volume ft ³
1	1.08	0.63	1.14	1.04	8.1	14.8	141.2	0.0080
2	0.98	0.58	1.03	0.94	7.1	14.4	142.7	0.0072
3	1.09	0.64	1.13	1.04	8.2	14.1	142.3	0.0080
4	1.02	0.60	1.07	0.98	7.5	14.3	141.6	0.0075
5	1.01	0.60	1.06	0.98	7.5	14.0	142.6	0.0074
6	1.02	0.60	1.07	0.98	7.8	14.0	143.8	0.0074
Average	1.04	0.61	1.08	0.99	7.7	14.2	142.4	0.0076



Timothy Jones
Manager, Research and Development Laboratory



Jason J. Thompson
Vice President of Engineering

ASTM C482-20 Test Report
Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement Paste

Client: Linda Group S.H.P.K.
Xheme Topalla
6000 Gjilan, Kosovo

Job No: 21-164B
Report Date: 3/24/2021

Testing Agency: National Concrete Masonry Assoc.
Research and Development Laboratory
Address: 13750 Sunrise Valley Drive
Herndon, VA 20171-4662

Unit Description: Art Stone Technology

Date Received: 3/1/2021

Sampling Party: Linda Group S.H.P.K.

The client provided five manufactured veneer units for shear bond testing. Shear bond assemblies were constructed in accordance with ASTM C482-20 utilizing the mortar substrate for non-vitreous tile, as modified by ASTM C1670/C1670M-21, and portland cement paste substrate as a bonding matrix. Each assembly was tested for shear bond strength in accordance with ASTM C482-20.

Individual Unit Test Results

Date Tested: 3/22/2021

Shear Bond Specimens

	Veneer Sample				
	Average Width (in.)	Average Height (in.)	Shear Bond Area* (in. ²)	Maximum Load (lb)	Shear Bond Strength** (psi)
Unit #1	2.35	2.34	5.51	1130	205
Unit #2	2.36	2.35	5.55	810	146
Unit #3	2.35	2.36	5.54	720	130
Unit #4	2.34	2.35	5.52	740	134
Unit #5	2.34	2.35	5.51	510	93
Average	2.35	2.35	5.53	782	142

*Shear bond area calculated by multiplying the width and length of manufactured stone sample.

**Minimum shear bond strength required by TMS 402-16 is 50 psi.



Timothy Jones
Manager, Research and Development Laboratory



Jason J. Thompson
Vice President of Engineering