

ASTM C482-02 (2014) Test Report
Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement Paste

Client:	Living Stones 1653 Lititz Pike Lancaster, PA 17601	Testing Agency:	National Concrete Masonry Assoc. Research and Development Laboratory 13750 Sunrise Valley Drive Herndon, VA 20171-4662
Unit Description:	Manufactured Stone Veneer	Address:	
Date Received:	2/22/2017	Sampling Party:	Living Stones
		Job No:	17-247B
		Report Date:	4/4/2017

The client provided five manufactured stone veneer units for shear bond testing. Shear bond assemblies were constructed in accordance with ASTM C482-02 (2014) utilizing the mortar substrate for non-vitreous tile, as modified by ASTM C1670/C1670M-16, and portland cement paste substrate as a bonding matrix. Each assembly was tested for shear bond strength in accordance with ASTM C482-02 (2014).

Individual Unit Test Results
Date Tested: 3/16/2017

Shear Bond Specimens

	Stone Sample		Shear Bond Area* (in. ²)	Maximum Load (lb)	Shear Bond Strength (psi)
	Avg. Width (in.)	Avg. Height (in.)			
Unit #1	4.01	3.94	15.77	3880	246
Unit #2	4.02	4.00	16.09	2840	176
Unit #3	4.00	4.02	16.11	3440	214
Unit #4	4.01	4.05	16.26	4010	247
Unit #5	4.01	4.02	16.09	3570	222
Average	4.01	4.01	16.06	3548	221

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



Nicholas R. Lang
Director of Business Development