



Farabaugh Engineering and Testing Inc.

Project No. T295-14A

Report Date: November 30, 2014

No. Pages: 3 (inclusive)

PERFORMANCE TEST REPORT

FREEZING AND THAWING TEST

Terreal Languedocienne

Roof Tile

FOR

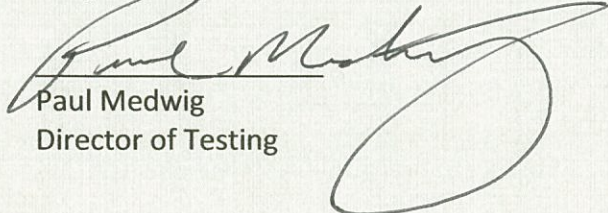
TERREAL NORTH AMERICA, LLC

4757 TILE PLANT ROAD

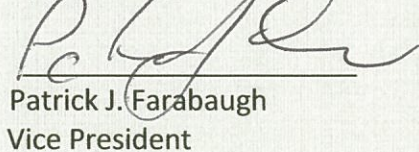
PO BOX 69

NEW LEXINGTON, OH 43764

Prepared by:


Paul Medwig
Director of Testing

Approved by:


Patrick J. Farabaugh
Vice President



ACCREDITED
LABORATORY



ACCREDITED
LABORATORY



ACCREDITED
LABORATORY



TEXAS DEPARTMENT
OF INSURANCE
ACCREDITED LABORATORY

PERFORMANCE TEST REPORT

Manufacturer: Terreal North America
4757 Tile Plant Road
PO Box 69
New Lexington, oh 43764

Test specimen Identification:

Terreal Languedocienne, Barrel Tile, measuring 19 .54" Long X 8.38" Wide X 0.450" thick.

Test Procedure

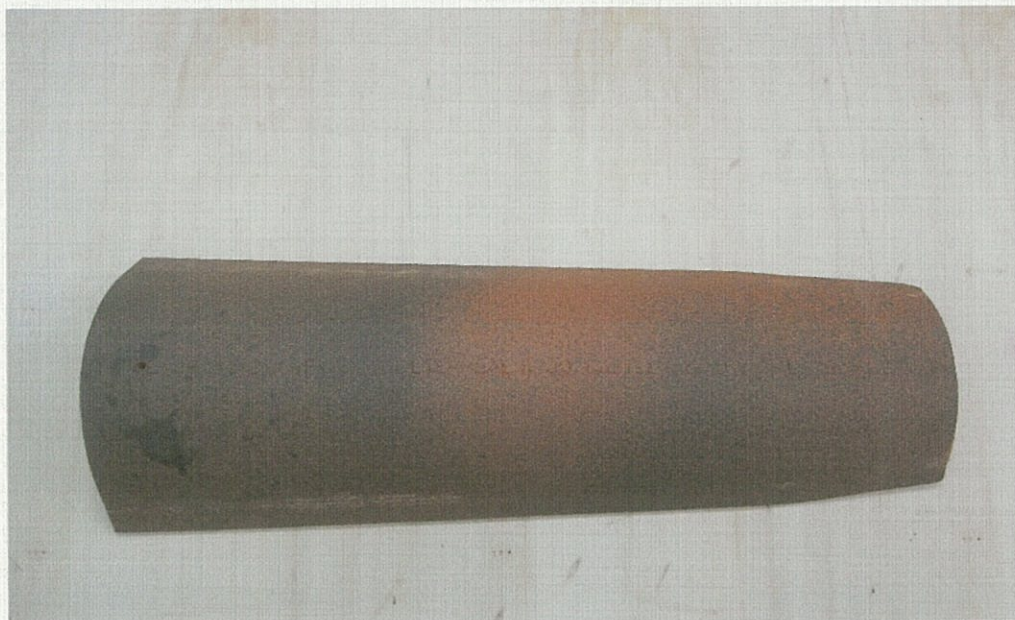
Testing was performed In General Accordance with ASTM C1167-03 "Standard Specification for Clay Roof Tiles" Section 6.2 Freezing and Thawing.

Test Requirements

No breakage, no crack development that exceeds the minimum dimension of the specimen, and not greater than 0.5% loss in dry weight when subjected to 50 cycles of freezing -and – thawing.

TEST RESULTS

SAMPLE ID.	INITIAL DRY WEIGHT (LBS)	FINAL DRY WEIGHT (LBS)	% WEIGHT LOSS	VISUAL OBSERVATIONTS	FREEZE THAW CYCLES
Languedocienne Tile #1	5.490	5.486	0.072	no breakage, no crack development	100 Cycles
Languedocienne Tile #2	5.588	5.584	0.070	no breakage, no crack development	100 Cycle
Languedocienne Tile #3	5.532	5.526	0.108	no breakage, no crack development	100 Cycle
Languedocienne Tile #4	5.486	5.482	0.072	no breakage, no crack development	100 Cycle
Languedocienne Tile #5	5.590	5.586	0.071	no breakage, no crack development	100 Cycle



Languedocienne (Top View)



Languedocienne (Bottom View)