

CLIENT: **NOVATIK Distribution, LLC**
4430 Wilder Road
Naples, FL 34105

Test Report No: RJ9490P-1

Issue Date: July 02, 2024

SAMPLE ID: Stone Coated Metal Roof Tiles

- 48-inch x 16-inch Novatik Nature Slate
- 48-inch x 16-inch Novatik Nature Roman

SAMPLING DETAIL: Product was independently sampled by a QAI representative at the client's facility located at 16311 Domestic Ave, Ft. Myers, FL 33912, on May 22, 2024.

DATE OF RECEIPT: Samples were received at QAI on June 06, 2024.

TESTING PERIOD: June 21, 2024.

AUTHORIZATION: QAI Test proposal Number 24DN0108-03R1 signed by Lana Pukas on 04/18/2024.

TEST REQUESTED: UL 2218, Impact Resistance Test of Prepared Roof Covering Materials.

TEST RESULTS: Summary of Results

Product	UL2218 Classification Met
48-inch x 16-inch Novatik Nature Slate	Class 4
48-inch x 16-inch Novatik Nature Roman	Class 4

STATEMENT OF CONFORMITY: See the following pages for individual results of each product type and their achieved classification.

Prepared By



Victor A Peinado
Senior Test Technician

**Signed for and on behalf of
QAI Laboratories, Inc**



Jason Friedrich P.E
Engineering Manager

IMPACT RESISTANCE TEST PER UL2218

Test Deck Preparation and Conditioning

For the Novatik Nature Roman product a 3' x 3' test deck consisting of a 2 x 4 wood frame with one vertical support batten midspan of the deck, $\frac{15}{32}$ " thick A-C Exterior Grade, Group1 Plywood. The metal shingles were fastened to 1"x 2" wood battens, following the manufacturing installation guide, using three #10 x 2" metal roofing screws per shingle with a 14-inch exposure.

For the 48-inch x 16-inch Novatik Nature Slate product a 3' x 3' test deck consisting of a 2 x 4 wood frame with one vertical support batten midspan of the deck, $\frac{15}{32}$ " thick A-C Exterior Grade, Group1 Plywood. The metal shingles were fastened direct to deck, following the manufacturing installation guide, using three 2" metal roofing screws per shingle with a 14-inch exposure. All joints were installed to not be in direct alignment with alternate courses. The test samples were verified to be under the maximum allowable 12% moisture content.

Test Procedure

The test deck was placed on a solid level surface and the roof tiles subjected to two coincident drops at six different locations using the required size steel ball at the appropriate drop height for the requested classification as outlined in Table 1. After the assemblies were subjected to all drops, the resultant impact locations were visually examined for damage under 5X magnification.

Table 1 - Classification Drop Height and Ball Size

Class	Steel Ball Diameter (in)	Drop Height (ft)
1	1.25	12.0
2	1.5	15.0
3	1.75	17.0
4	2	20.0

Test Requirements

- 1) The prepared roof covering material exposed surface, back surface and underneath layers shall show no evidence of tearing, fracturing, cracking, splitting, rupture, crazing or other evidence of opening through any prepared roof covering layer.
- 2) For plastic roof covering materials, a surface crack shall not be determined to be a failure. A crack that extends through the cross-section of the roof covering material layer shall be determined to be a failure.
- 3) Cosmetic damage in and of itself shall not be determined to be a failure. Cosmetic damage such as Denting, damage not extending through the cross-sectional area of a roof covering material layer, cracking of any paint finish, etc. shall not be determined to be a failure.

THIS REPORT IS THE CONFIDENTIAL PROPERTY OF THE CLIENT ADDRESSED. THE REPORT MAY ONLY BE REPRODUCED IN FULL. PUBLICATION OF EXTRACTS FROM THIS REPORT IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM QAI. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED FOR THE INDIVIDUAL PROJECT FILE REFERENCED. THE RESULTS OF THIS REPORT PERTAIN ONLY TO THE SPECIFIC SAMPLE(S) EVALUATED. UNLESS SPECIFICALLY STATED OR IDENTIFIED OTHERWISE, QAI HAS UTILIZED A SIMPLE ACCEPTANCE RULE TO MAKE CONFORMITY DECISIONS ON TESTING RESULTS CONTAINED IN THIS REPORT, AS APPLICABLE.

IMPACT RESISTANCE TEST PER UL2218 (CONT.)

Test Results

Sample ID: *Novatik Nature Roman*

Classification Tested: Class 4

Drop Location	Description.	Evidence of tearing, fracturing, cracking, splitting, rupture, crazing through any layer.
#1	Corner/Edge of Shingle	No
#2	Corner/Edge of Shingle	No
#3	Center of Shingle	No
#4	Center of Shingle	No
#5	Over Shingle Joint/Edge of Shingles	No
#6	Center of Shingle	No

Observations

No tearing, fracturing, cracking, splitting, rupture, crazing or other evidence of opening through any prepared roof covering layer was observed at any of the six impact locations when viewed through 5X magnification. Minor cosmetic damage was observed at the impact location but did not meet the failure requirements.

Conclusion

The 48-inch x 16-inch Novatik Nature Roman metal coated shingle has **met** the requirements of UL2218 for Class 4 recognition.

Photo

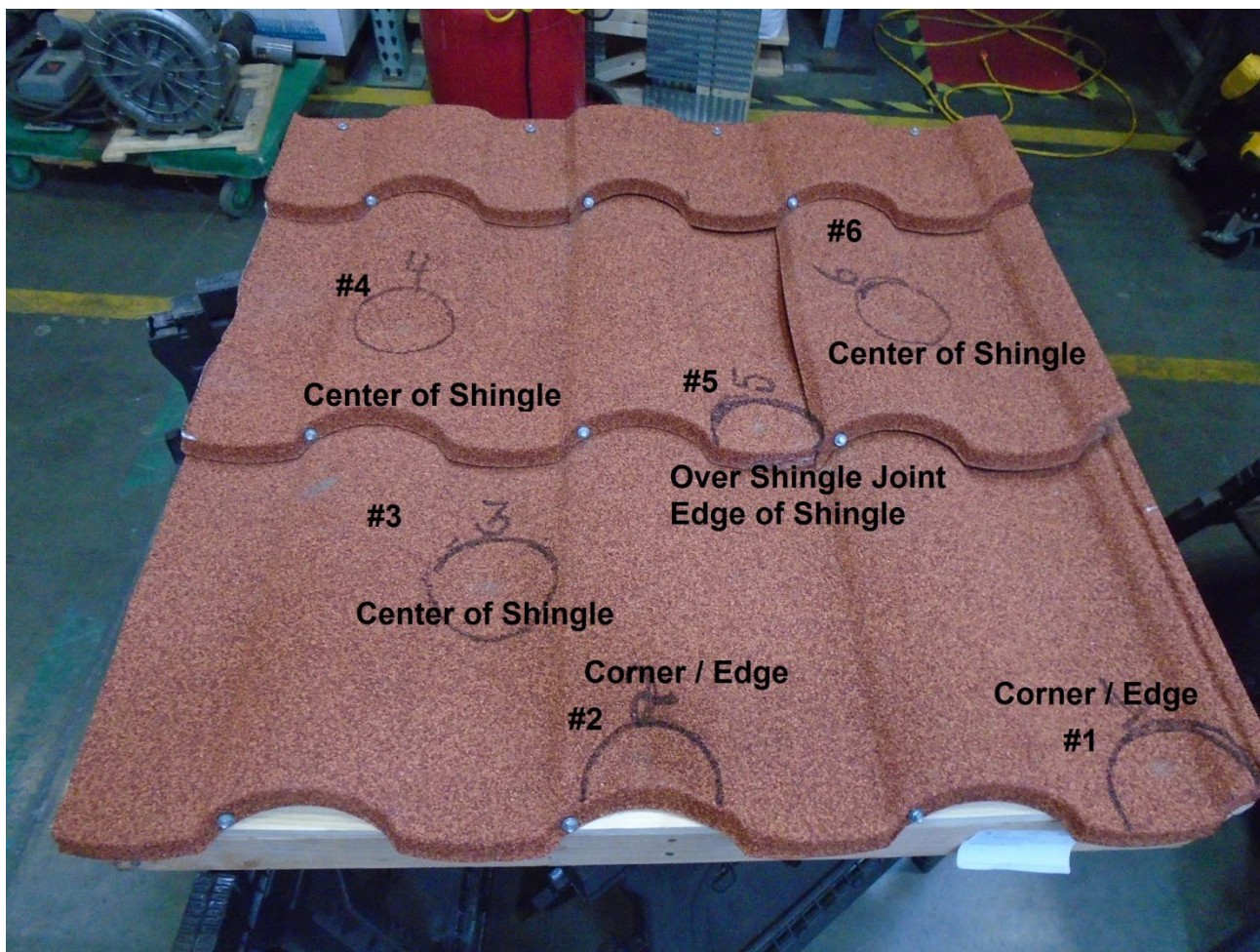


Photo 1: *Impact Locations for Novatik Nature Roman metal coated shingle deck*

THIS REPORT IS THE CONFIDENTIAL PROPERTY OF THE CLIENT ADDRESSED. THE REPORT MAY ONLY BE REPRODUCED IN FULL. PUBLICATION OF EXTRACTS FROM THIS REPORT IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM QAI. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED FOR THE INDIVIDUAL PROJECT FILE REFERENCED. THE RESULTS OF THIS REPORT PERTAIN ONLY TO THE SPECIFIC SAMPLE(S) EVALUATED. UNLESS SPECIFICALLY STATED OR IDENTIFIED OTHERWISE, QAI HAS UTILIZED A SIMPLE ACCEPTANCE RULE TO MAKE CONFORMITY DECISIONS ON TESTING RESULTS CONTAINED IN THIS REPORT, AS APPLICABLE.

IMPACT RESISTANCE TEST PER UL2218 (CONT.)

Test Results

Sample ID: *Novatik Nature Slate*

Classification Tested: Class 4

Drop Location	Description.	Evidence of tearing, fracturing, cracking, splitting, rupture, crazing through any layer.
#1	Corner/Edge of Shingle	No
#2	Over Shingle Joint/Edge of Shingles	No
#3	Over Shingle Joint/Edge of Shingles	No
#4	Center of Shingle	No
#5	Center of Shingle	No
#6	Center of Shingle on Groove	No

Observations

No tearing, fracturing, cracking, splitting, rupture, crazing or other evidence of opening through any prepared roof covering layer was observed at any of the six impact locations when viewed through 5X magnification. Minor cosmetic damage was observed at the impact location but did not meet the failure requirements.

Conclusion

The 48-inch x 16-inch Novatik Nature Slate metal coated shingle has **met** the requirements of UL2218 for Class 4 recognition.

Photo

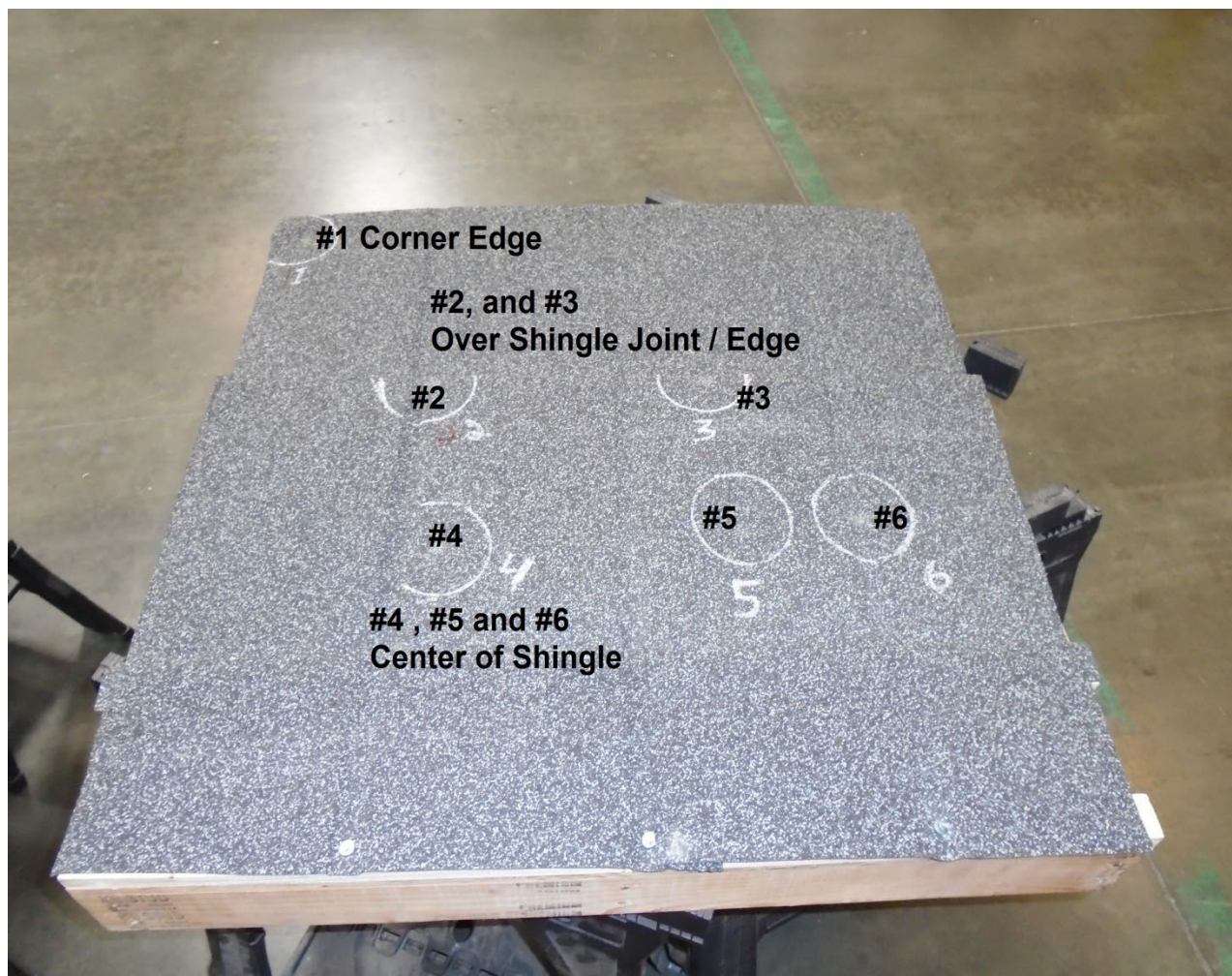


Photo 2: Impact Locations for Novatik Nature Slate metal coated shingle deck

*****<END OF REPORT>*****

THIS REPORT IS THE CONFIDENTIAL PROPERTY OF THE CLIENT ADDRESSED. THE REPORT MAY ONLY BE REPRODUCED IN FULL. PUBLICATION OF EXTRACTS FROM THIS REPORT IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM QAI. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED FOR THE INDIVIDUAL PROJECT FILE REFERENCED. THE RESULTS OF THIS REPORT PERTAIN ONLY TO THE SPECIFIC SAMPLE(S) EVALUATED. UNLESS SPECIFICALLY STATED OR IDENTIFIED OTHERWISE, QAI HAS UTILIZED A SIMPLE ACCEPTANCE RULE TO MAKE CONFORMITY DECISIONS ON TESTING RESULTS CONTAINED IN THIS REPORT, AS APPLICABLE.