



INTERTEK TEST REPORT #3099991

REPORT

OF

IMPACT RESISTANCE

TESTS OF

INSPIRE SLATE (CLASS C FORMULA)
SIMULATED SLATE ROOFING TILES

FOR

INSPIRE ROOFING PRODUCTS
1101 INDUSTRIAL BLVD.
ALBION , MI 49224

BY

INTERTEK TESTING SERVICES NA INC.
8431 MURPHY DRIVE
MIDDLETON, WISCONSIN 53562

TEST DATE: JUNE 30, 2006
REPORT DATE: JUNE 30, 2006



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INTRODUCTION

This report gives the results of the evaluation of the provided sample (Job #3099991). The test results described in this report are limited to the submitted items. On June 30, 2006 Intertek conducted tests on Inspire Slate Roofing Tiles at the Intertek Middleton, Wisconsin facility for Inspire Roofing Products. The tests conducted are listed in the procedure section. The samples were tested according to UL 2218, "Impact Resistance of Prepared Roof Covering Materials", dated January 25, 2002.

SPECIMEN DESCRIPTION

INSPIRE SLATE:

Shingle Type: Compression Molded Polymer Roofing Tile
Dimensions: 17-3/4 inches long by 12 inches wide by 1/4 inch thick
Weight per Square: 240 lbs.
Color: Grey

PROCEDURE

A 3 foot by 3 foot square base frame was constructed, using nominal 2 inch by 4 inch wood studs, with a stud positioned centrally, running parallel to the edges. The frame was sheathed with 15/32 inch A-C Grade plywood, with the 'A' side facing up. The roofing material was applied with the recommended maximum exposure of 7-1/4 inches using galvanized 1-1/2 inch long roofing nails with 3/8 inch diameter heads (2 nails per tile). All materials used in construction of the test samples were stored at ambient temperatures of approximately 70 degrees F for 48 hours prior to testing. The test decks were then placed on a concrete floor and a 2 inch diameter stainless steel ball, weighing 1.18 lbs., was elevated to 20 feet with an electromagnetic clamp and then released. The ball was dropped twice on the same impact location, and depression measurements and observations were made. This procedure was repeated for 6 different impact locations on each test deck. Observations were made using 5X magnification.

RESULTS

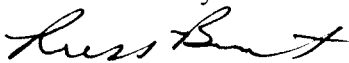
INSPIRE SLATE

<u>Drop Location</u>	<u>Distance Between Depressions</u>	<u>Depth of Depression</u>	<u>Observations</u>
Edge over Seam	Less than 1/2"	No Visible Depression	No evidence of tearing, fracturing, cracking, splitting, rupture, crazing, or other evidence of opening in the roof covering system
Corner	Less than 1/2"	No Visible Depression	No evidence of tearing, fracturing, cracking, splitting, rupture, crazing, or other evidence of opening in the roof covering system
Center	Less than 1/2"	No Visible Depression	No evidence of tearing, fracturing, cracking, splitting, rupture, crazing, or other evidence of opening in the roof covering system
Center	Less than 1/2"	No Visible Depression	No evidence of tearing, fracturing, cracking, splitting, rupture, crazing, or other evidence of opening in the roof covering system
Seam	Less than 1/2"	No Visible Depression	No evidence of tearing, fracturing, cracking, splitting, rupture, crazing, or other evidence of opening in the roof covering system
Corner	Less than 1/2"	No Visible Depression	No evidence of tearing, fracturing, cracking, splitting, rupture, crazing, or other evidence of opening in the roof covering system

CONCLUSION

The Inspire Slate roofing tiles, as described herein, met the requirements of UL 2218 "Impact Resistance of Prepared Roof Covering Material" after testing with a 2.00 inch diameter ball at a 20 foot drop distance.

Test Conducted by:



Russ Burt
Associate Engineer

Report Reviewed by:



Jim Turgeson
Project Manager

IMPACT LOCATIONS

