



CONSTRUCTION MATERIALS

TECHNOLOGIES

LABORATORY TEST REPORT

Report for: Baker Metal Works & Supply, Inc.-Dixie Building Supply Co., Inc.
c/o Fenestration A & E Services
5846 Hwy 189
Baker, FL 32531

Assembly: R-PANEL	Manufacturer: Baker Metal Works & Supply, Inc.-Dixie Building Supply Co., Inc.
Project No.: FAE-027-02-02	Source: Baker Metal Works & Supply, Inc.
Date Received: May 1, 2017	Date Tested: May 16, 2017

Purpose: Determine the impact resistance of in accordance with **UL 2218 (2010) Standard for Impact Resistance of Prepared Roof Covering Materials.**

Test Methods: Testing was completed as described in UL 2218 (2010) *Standard for Impact Resistance of Prepared Roof Covering Materials.*

Samples: Samples were provided by Firestone Building Products Company.

Specimen: Specimen No 1:
Roof Covering: Nominal 0.0185-inch thick, ASTM A792 Grade 80 AZ50 steel. See Appendix A for panel profile.
Deck: 15/32" thick APA span rated plywood over 24" o.c. wood joists

Conditioning: No specimen conditioning was prior to before testing.

FAE-027-02-02B PRI-CMT Accreditations: AAMA; CRRC; IAS; LA-DBS; Miami-Dade; State of Florida; UL
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Results:

Testing was complete at a 0":12" roof slope.

Table 1. Class 4 Impact Results for Specimen No. 1

Drop Area	Results	Impact Depth (in.)	Requirement
UL 2218 – Class 4 Impact Resistance; 2" dia. steel ball; 20ft drop height			
1 – Major Rib	Pass	0.15	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 – Minor Rib	Pass	0.03	
3 – Over Joist	Pass	0.06	For wood, tile, concrete, fiber-cement, plastic and metal 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.
4 – Over center of deck span	Pass	0.03	
5 – Center of pan	Pass	0.03	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.
6 – Over center of deck span	Pass	0.04	

Classification:

R-PANEL meets the acceptance criteria of Underwriters Laboratories' UL 2218 Standard for Impact Resistance of Prepared Roof Covering Materials for Class 4 impact resistance as tested herein.

Statement of Attestation:

The laboratory test results presented in this report are representative of the material supplied by the client. Testing was completed in accordance with standard test methods and protocols as described herein.

Signed: 
Zachary Priest
Director

Report Issue History:

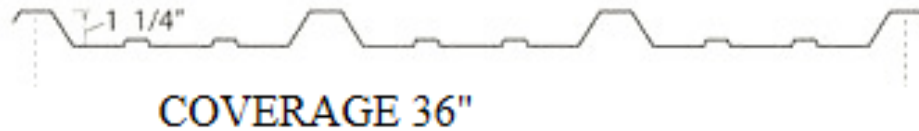
Issue #	Date	Pages	Revision Description (if applicable)
Original	05/23/2017	5	NA

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UL 2218 for
R-PANEL
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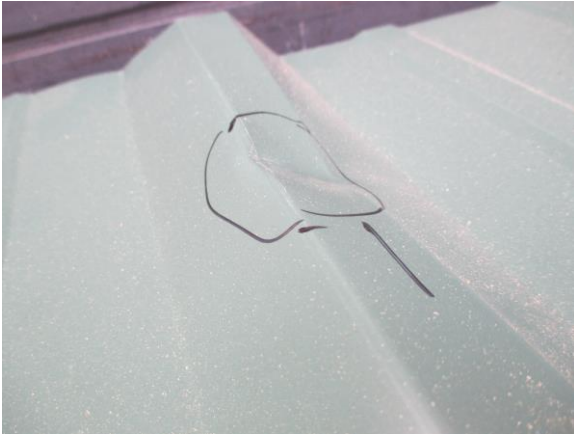
R-PANEL Panel Profile

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Specimen No. 1 – Photographs



Drop #1



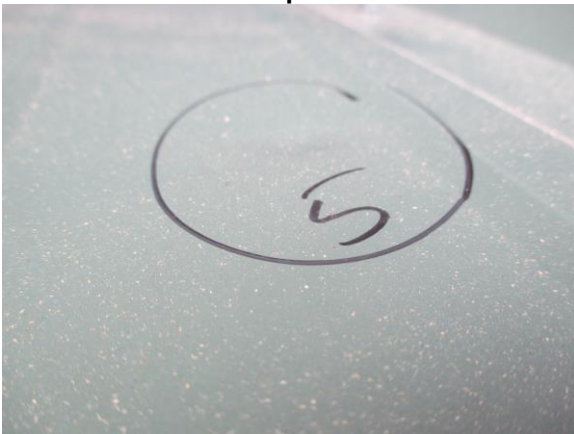
Drop #2



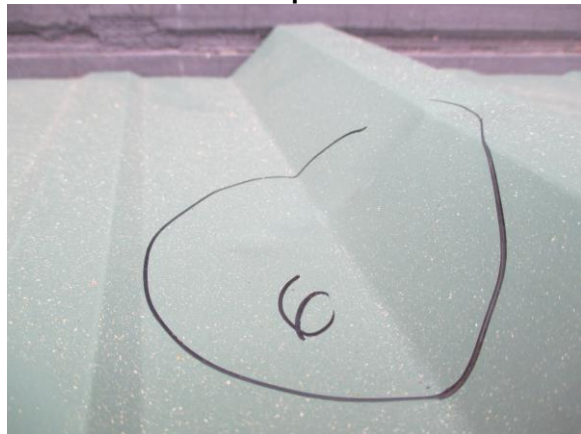
Drop #3



Drop #4



Drop #5



Drop #6

End of Report

FAE-027-02-02B

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