

# **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: TUFF-RIB   Manufacturer:Baker Meta	RIB   Manufacturer:Baker Metal Works & Supply, IncDixie 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-027-02-02A

PRI-CMT Accreditations: AAMA; CRRC; IAS; LA-DBS; Miami-Dade; State of Florida; UL

The test results, opinions, or interpretations are based on the material supplied by the client. This report is for the exclusive use of stated client. No reproduction or facsimile in any form can be made without the client's permission. This report shall not be reproduced except in full without the written approval of this laboratory. PRI Construction Materials Technologies LLC assumes no responsibility nor makes a performance or warranty statement for this material or products and processes containing this material in connection with this report.

Baker Metal Works & Supply, Inc. c/o Fenestration A & E Services Dixie Building Supply Co., Inc. UL 2218 for TUFF-RIB Page 2 of 5

#### 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	0.08	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.  For wood, tile, concrete, fibercement, plastic and metal roof covering materials, a surface crack shall not be determined to be a failure. A crack that		
2 – Minor Rib	Pass	0.04			
3 – Over Joist	Pass	0.07			
4 – Over center of deck span	Pass	0.03	extends through the cross- section of the roof covering material layer shall be determined to be a failure.		
5 – Center of pan	Pass	0.02	Cosmetic damage in and of itself shall not be determined to be a failure. Cosmetic damage such as denting, damage not extending		
6 – Over center of deck span	Pass	0.02	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.		

## Classification:

TUFF-RIB 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.

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

The test results, opinions, or interpretations are based on the material supplied by the client. This report is for the exclusive use of stated client. No reproduction or facsimile in any form can be made without the client's permission. This report shall not be reproduced except in full without the written approval of this laboratory. PRI Construction Materials Technologies LLC assumes no responsibility nor makes a performance or warranty statement for this material or products and processes containing this material in connection with this report.

Baker Metal Works & Supply, Inc. c/o Fenestration A & E Services Dixie Building Supply Co., Inc.

UL 2218 for TUFF-RIB Page 3 of 5

### 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

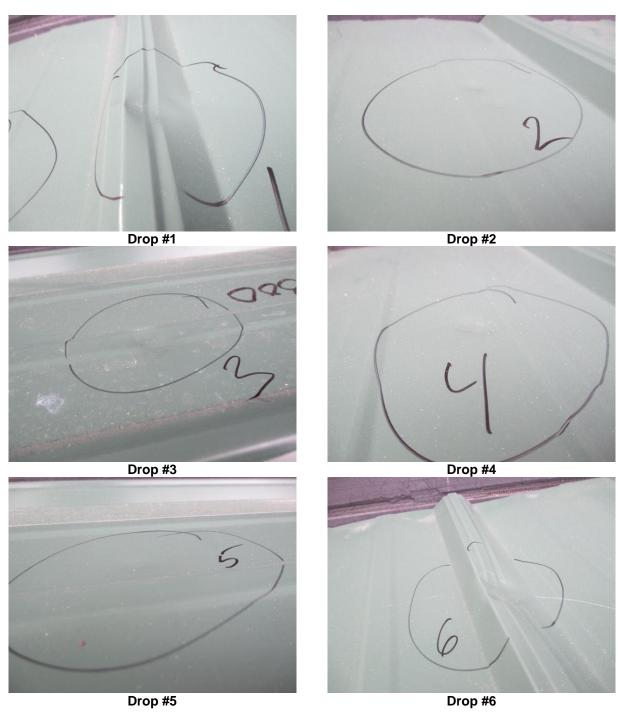
## **Report Issue History:**

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



**TUFF-RIB Panel Profile** 

# Specimen No. 1 - Photographs



**End of Report** 

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

The test results, opinions, or interpretations are based on the material supplied by the client. This report is for the exclusive use of stated client. No reproduction or facsimile in any form can be made without the client's permission. This report shall not be reproduced except in full without the written approval of this laboratory. PRI Construction Materials Technologies LLC assumes no responsibility nor makes a performance or warranty statement for this material or products and processes containing this material in connection with this report.