



PRI Construction Materials Technologies LLC

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Laboratory Test Report

Report for: Jess Varela
Yoder Metals
76 Alberta Rd.
Screven, Ga 31560

Product Name: Coated Metal Roofing Panel AZ50 grade 80
Galvanized Metal Roofing Panel AZ55 grade 80

Project No.: 2181T0001

Dates Tested: Jul. 22, 2019

Test Methods: UL 2218 (2010)

Results Summary: Compliant: UL 2218 Impact Resistance – Class 4

Purpose: Determine the impact resistance of the identified product in accordance with **UL 2218 (2010) Standard for Impact Resistance of Prepared Roof Covering Materials**. Brava Shake is a composite roofing shingle.

Test Methods: Testing was conducted in accordance with standard test methods.

<u>Test Method</u>	<u>Title</u>	<u>Year</u>
UL 2218	Standard for Impact Resistance of Prepared Roof Covering Materials.	2010

Sampling: The following materials were received by PRI.

<u>Product</u>	<u>Source</u>	<u>Date</u>	<u>Sampling</u>
Galvalume Panel	Tampa, FL	Jun. 6, 2019	Yoder Metals
Valspar Weather XL Coated Panel	Tampa, FL	Jun. 6, 2019	Yoder Metals
Butyl Rubber Sealant	Tampa, FL	Jun. 6, 2019	Yoder Metals

Products tested were 36in. wide metal roofing panels with 0.75in. rib eight on 9in. centers with a thickness of 0.0142in. Panels were cut to allow a lap to be incorporated in the test specimen. Proponent-supplied butyl rubber sealant was utilized to seal the lap.

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Results:

Physical Properties	Test Method	Results		Requirement
		Depression (in)	Result [Pass/Fail]	
Hail Impact Resistance [Pass/Fail] 2 specimens; Coated Metal Panel; 3ft x 3ft test deck Class 4; 2.00±0.01in steel ball ø 1.15±0.04lb steel ball mass 20.0ft steel ball drop 23.71ft-lb impact kinetic energy 2 drops per impact location 6 impact locations	UL 2218 Class 4			
	Impact Location #1	0.13	Pass	Report
	Impact Location #2	0.50	Pass	
	Impact Location #3	0.25	Pass	
	Impact Location #4	0.50	Pass	
	Impact Location #5	0.75	Pass	
	Impact Location #6	0.75	Pass	
Hail Impact Resistance [Pass/Fail] 2 specimens; Galvanized Metal Panel; 3ft x 3ft test deck Class 4; 2.00±0.01in steel ball ø 1.15±0.04lb steel ball mass 20.0ft steel ball drop 23.71ft-lb impact kinetic energy 2 drops per impact location 6 impact locations	UL 2218 Class 4			
	Impact Location #1	0.05	Pass	Report
	Impact Location #2	0.50	Pass	
	Impact Location #3	0.20	Pass	
	Impact Location #4	0.25	Pass	
	Impact Location #5	0.50	Pass	
	Impact Location #6	0.75	Pass	

Notes: None

Statement of Attestation:

The results of testing were determined in accordance with and UL 2218 (2010) *Standard for Impact Resistance of Prepared Roof Covering Materials*. The laboratory test results presented in this report are representative of the material supplied.

Signed: 
 Brent Barbeau
 Manager

Date: 08/01/2019

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	08/1/2019	2	NA

END OF REPORT

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