

TRULOG SIDING TEST REPORT

SCOPE OF WORK

UL 2218 IMPACT RESISTANCE TESTING OF TRULOG, STEEL SIDING

REPORT NUMBER

L4540.01-109-44

TEST DATE(S)

11/20/20

ISSUE DATE

02/11/21

RECORD RETENTION END DATE

11/20/24

PAGES

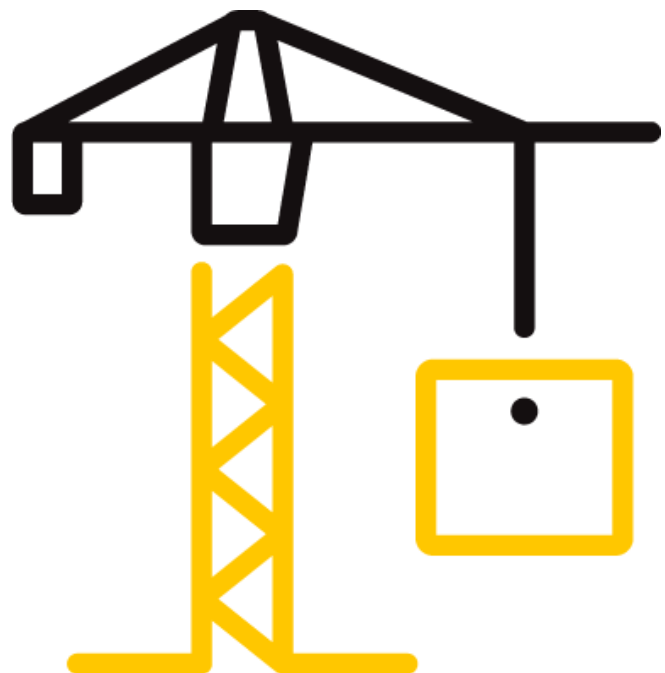
11

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RT-R-AMER-Test-2957

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TEST REPORT FOR TRULOG SIDING

Report No.: L4540.01-109-44

Date: 02/11/21

REPORT ISSUED TO

TRULOG SIDING

3543 County Road 5

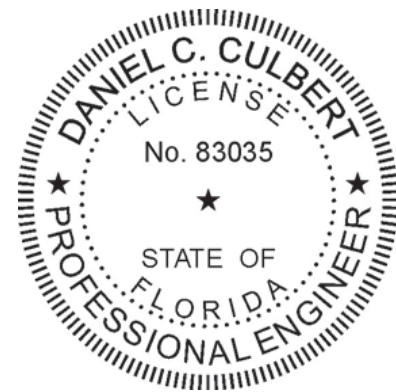
Loveland, Colorado 80537

SECTION 1


SCOPE


Intertek Building & Construction (B&C) was contracted by TruLog Siding to perform impact resistance testing in accordance with UL 2218 on their TruLog, steel siding. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek B&C test facility in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.



For INTERTEK B&C:

COMPLETED BY:	Robert J. Beatty
TITLE:	Technician – Product Testing
SIGNATURE:	 <small>Digitally Signed by: Robert Beatty</small>
DATE:	02/11/21

REVIEWED BY:	Daniel C. Culbert, P.E.
TITLE:	Senior Project Engineer
SIGNATURE:	 <small>Digitally Signed by: Daniel C. Culbert</small>
DATE:	02/11/21

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2021.02.16 09:08:36 -05'00'

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SECTION 2

TEST METHOD(S)

The specimen was evaluated in accordance with the following:

UL 2218 (1996), *Standard for Safety for Impact Resistance of Prepared Roof Covering Materials*, Underwriters Laboratories, Inc.

SECTION 3

MATERIAL SOURCE/INSTALLATION

Test specimen was provided by the client. Representative samples of the test specimen(s) will be retained by Intertek B&C for a minimum of four years from the test completion date.

Installation of the tested product was performed by the client.

SECTION 4

EQUIPMENT

Drop Tube: Constructed from PVC piping with an electromagnet release mechanism

Missile: 50.8 mm (2.0") steel balls - 63655

Dial Indicator: 62207

Weather Station: 63316

Tape Measure Verification: 63788

Scale: 65571

SECTION 5

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Andrew P. Mehalik	Intertek B&C
Timothy J. McGill	Intertek B&C
Daniel C. Culbert, P.E.	Intertek B&C
Robert J. Beatty	Intertek B&C

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SECTION 6

TEST SPECIMEN DESCRIPTION

Product Type: Steel Siding

Series/Model: TruLog

Color: Brown

Finish: Woodgrain

Overall Assembly Size: 36 in (914 mm) width by 36 in (914 mm) length

Nominal Thickness: 0.02 in (0.5 mm)

Steel Skin Thickness: 0.02 in (0.5 mm)

Panel Description:

Individual Panel Weight: 2.24 lb (1016 g)

Individual Panel Size: 10 in (254 mm) width by 36 in (914 mm) length

Exposed Panel Size: 9-1/2 in (241 mm) width by 35-1/2 in (902 mm) length

Number of Panels: 4

Deck Construction:

The wood test deck was 3' wide x 3' high and constructed with 2x4 Spruce-Pine-Fir construction lumber at the perimeter with one stud located at midspan. The test deck was covered with 15/32" thick plywood decking secured to the test deck with #6 x 1-5/8" screws located 2" from each end and on 6" centers.

Panel Construction:

The test specimens were composed of four courses horizontally installed with a male interlock at the bottom interfaced with a steel starter strip. The ends were covered with a J-channel segment along the length of the test wall. Each course had a panel consisting of a 0.02" thick steel panel with a woodgrain finish and Styrofoam backer.

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SECTION 7

TEST RESULTS

UL 2218, Safety for Impact Resistance of Prepared Roof Covering Materials

Sample Conditioning Temperature: 23°C (74°F)

Sample Conditioning Relative Humidity: 24%

Steel Ball Weight: 532.5 g (1.17 lbs)

Steel Ball Diameter: 50.8 mm (2")

Steel Ball Drop Height: 6.1 m (20.0')

Muzzle Distance from Test Specimen: 35"

The ambient temperature during testing was 23°C (74°F). The results are tabulated as follows.

Test Unit #1:

IMPACT	IMPACT AREA	DEPRESSION DEPTH		OBSERVATIONS	RESULTS
		IMPACT #1	IMPACT #2		
1	Center of panel, at the third course	0.24	0.28	Dented siding, no visible evidence of tearing, cracking, fracturing, splitting, rupture, crazing, or other evidence of opening in the prepared roof covering layer.	Pass
2	Interlock of panel at the center, at the second and third course	0.25	0.30	Dented siding, no visible evidence of tearing, cracking, fracturing, splitting, rupture, crazing, or other evidence of opening in the prepared roof covering layer.	Pass
3	Top edge of panel at the center, at the first course	0.08	0.08	Dented siding, no visible evidence of tearing, cracking, fracturing, splitting, rupture, crazing, or other evidence of opening in the prepared roof covering layer.	Pass
4	Bottom edge of panel at center, at the first course	0.20	0.30	Dented siding, no visible evidence of tearing, cracking, fracturing, splitting, rupture, crazing, or other evidence of opening in the prepared roof covering layer.	Pass

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IMPACT	IMPACT AREA	DEPRESSION DEPTH		OBSERVATIONS	RESULTS
		IMPACT #1	IMPACT #2		
5	Right edge of panel at center, at the second course	0.27	0.50	Dented siding, no visible evidence of tearing, cracking, fracturing, splitting, rupture, crazing, or other evidence of opening in the prepared roof covering layer.	Pass
6	Top corner of panel, at the second course	0.20	0.30	Dented siding, no visible evidence of tearing, cracking, fracturing, splitting, rupture, crazing, or other evidence of opening in the prepared roof covering layer.	Pass

Note: See Intertek B&C Sketch No. 1 for impact locations.

**SECTION 8
CONCLUSION**

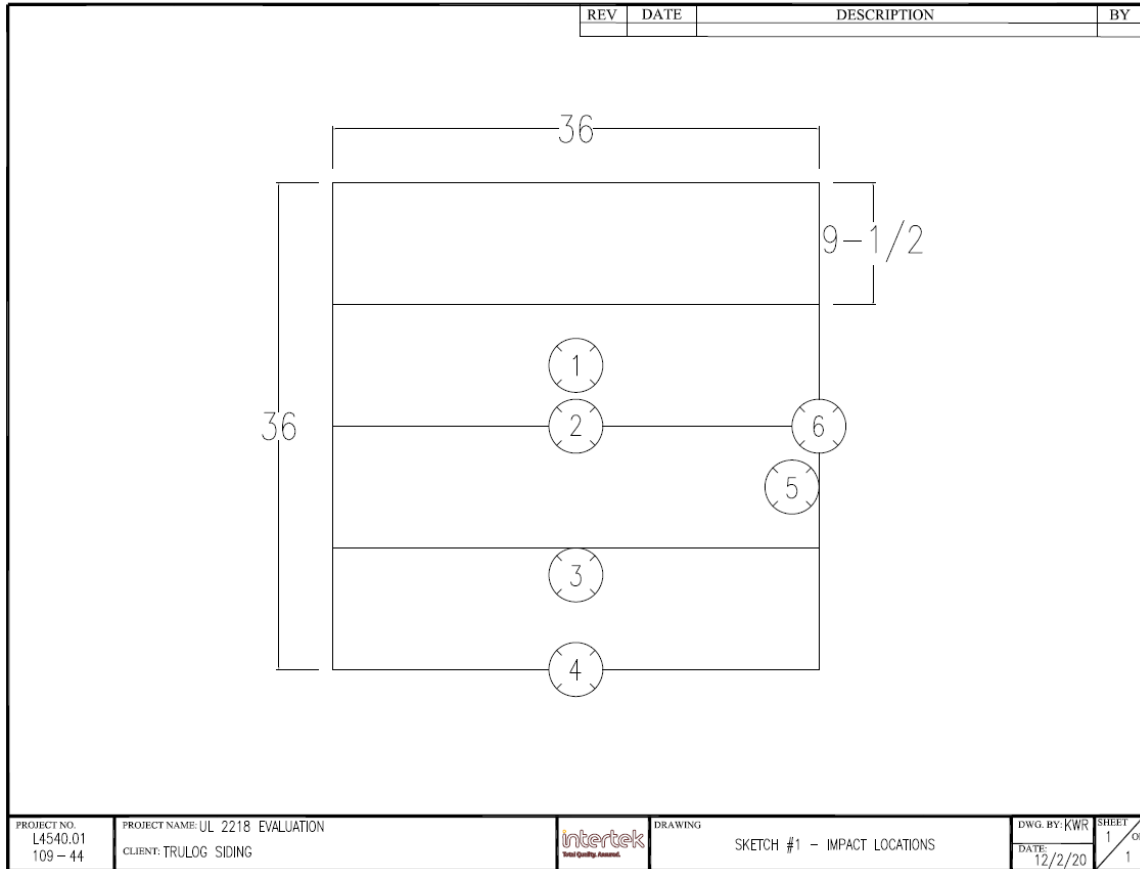
The sample tested met the performance requirements set forth in the referenced test procedures for a Class 4.

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SECTION 9 SKETCH(ES)



**Sketch No. 1
Impact Locations**

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SECTION 10

PHOTOGRAPH

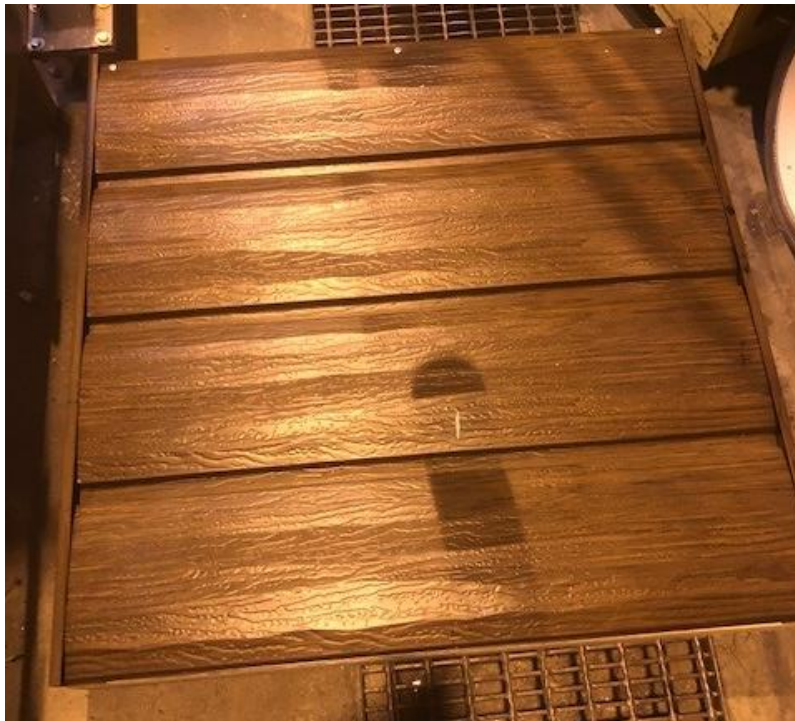


Photo No. 1
TruLog, Steel Siding



Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

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www.intertek.com/building

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SECTION 11 DRAWINGS

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.



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SECTION 12

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	02/11/21	N/A	Original Report Issue