

WAYNE BUILDING PRODUCTS TEST REPORT

SCOPE OF WORK

REPORT OF ARMOURSIDE 6 IN. STEEL SIDING TESTED IN ACCORDANCE WITH CAN/CGSB-93.4-92, *GALVANIZED STEEL AND ALUMINUM-ZINC ALLOY COATED STEEL SIDING, SOFFITS AND FASCIA, PREFINISHED, RESIDENTIAL*, SECTION 8.2.1 *DEFORMATION RESISTANCE TEST*

REPORT NUMBER

104175306COQ-006

TEST DATE(S)

02/19/20

ISSUE DATE

02/24/20

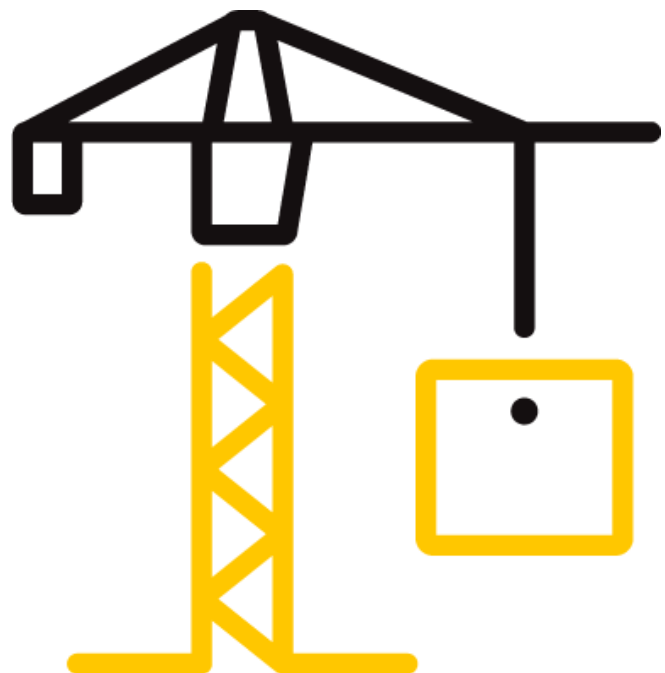
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TEST REPORT FOR WAYNE BUILDING PRODUCTS

Report No.: 104175306COQ-006

Date: 02/24/20

REPORT ISSUED TO

WAYNE BUILDING PRODUCTS

12603 – 123 Street NW

Edmonton, AB, T5L 0H9

Canada

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Wayne Building Products, 12603 – 123 Street NW, Edmonton, AB, T5L 0H9, Canada to perform testing in accordance with Section 8.2.1 *Deformation Resistance Test* of CAN/CGSB-93.4-92, *Galvanized Steel and Aluminum-Zinc Alloy Coated Steel Siding, Soffits and Fascia, Prefinished, Residential*, on their metal siding product. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at the Intertek test facility in Coquitlam, BC, Canada.



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

SECTION 2

SUMMARY OF TEST RESULTS

| PROPERTY | AVERAGE RESULT (MM) | REQUIREMENT (MM) | PASS/FAIL |
|------------------------|---------------------|------------------|-----------|
| DEFORMATION RESISTANCE | 1.4 | ≤ 5.1 | PASS |

For INTERTEK B&C:

| | | | |
|----------------------|---|---------------------|---|
| COMPLETED BY: | Chris Chang | REVIEWED BY: | Baldeep Sandhu |
| TITLE: | Senior Tech. – Building & Construction | TITLE: | Manager – Building & Construction |
| SIGNATURE: |  | SIGNATURE: |  |
| DATE: | 02/24/20 | DATE: | 02/24/20 |

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SECTION 3

TEST METHOD

The specimen was evaluated in accordance with the following:

CAN/CGSB-93.4-92, *Galvanized Steel and Aluminum-Zinc Alloy Coated Steel Siding, Soffits and Fascia, Prefinished, Residential, Section 8.2.1 Deformation Resistance Test*

SECTION 4

MATERIAL SOURCE/INSTALLATION

Intertek representative, Kevin Binksma, randomly sampled the siding product on December 16, 2019. The sample selection process was conducted at 14525 112 Avenue NW, Edmonton, AB, Canada. The product was selected in accordance with recognized independent sampling procedures, and was received at the Evaluation Center on December 20, 2019 (Coquitlam ID# VAN1912200842-001).

SECTION 5

EQUIPMENT

| ASSET # | DESCRIPTION | MODEL | CAL DUE DATE |
|---------|-------------------------------------|-------------|--------------|
| P60610 | T&D Temperature and Humidity Logger | TR-72Ui | 04/09/20 |
| P60005 | Mitutoyo Digital Calipers | CD 8 CSX | 05/24/20 |
| 52606 | Setra 2000g Digital Scale | 2000/Quartz | 02/03/21 |
| P60494 | Stanley Tape Measure | FatMax | 09/03/20 |

SECTION 6

LIST OF OFFICIAL OBSERVERS

| NAME | COMPANY |
|-------------------|--------------|
| Frank Gadea-Lopez | Intertek B&C |
| Chris Chang | Intertek B&C |

SECTION 7

CONDITIONING

Unless stated otherwise, the test specimen materials were held in standard laboratory conditions for at least 48 hours at a temperature of $23 \pm 2^{\circ}\text{C}$ ($73.4 \pm 4^{\circ}\text{F}$) and relative humidity of $50 \pm 5\%$.

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DEFORMATION RESISTANCE TEST

A test assembly, measuring 475 mm (18.7 in.) x 960 mm (37.8 in.), was constructed using 16 mm (0.625 in.) thick plywood sheathing, with two parallel 960 mm (37.8 in.) lengths of 25 mm (0.98 in.) x 50 mm (1.97 in.) furring strips nailed to the plywood 390 mm (15.4 in.) apart.

Six (6) pieces of the metal siding product were screwed to the test assembly through the furring strips and into the plywood sheathing using two (2) #10 x 1.5 in. long siding screws for each panel.

The middle panel of each group of three (3) panels was subjected to an impact drop using a 50 mm (1.97 in.) diameter steel ball weighing 0.55 kg. The assembly was positioned with the geometric center of the middle panel as the impact target. The 50 mm steel ball was dropped from a height of 1.5 m (4.9 ft.) above the test deck. A magnetic release device was utilized to hold the steel ball at the desired drop height. After the impact, the resultant depression was also measured using a depth gauge. The impact drops were repeated on the other two (2) locations, for a total of three (3) tests. The average overall deformation was reported.

SECTION 8

TEST SPECIMEN DESCRIPTION

The sample was identified as Armourside 6 in., a steel siding product. The product is white in color and measures overall dimensions 150-1/4 in. long x 6-13/16 in. wide. The siding product has 3/8 in. wide nail slots spaced every 1-5/8 in. for installation along the tab. Thickness measures 0.4 mm.

SECTION 9

TEST RESULTS

Lab Conditions: 23.0°C (73.4°F), 51.0% RH

| PROPERTY | TEST | TEST RESULT (MM) | REQUIREMENT (MM) | PASS/FAIL |
|------------------------|------|------------------|------------------|-----------|
| DEFORMATION RESISTANCE | 1 | 1.55 | ≤ 5.1 | PASS |
| | 2 | 1.37 | ≤ 5.1 | PASS |
| | 3 | 1.40 | ≤ 5.1 | PASS |

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SECTION 10

CONCLUSION

The Wayne Building Products Armourside 6 in. Steel Siding product identified and evaluated in this report has met the Deformation Resistance Test requirement of CAN/CGSB-93.4-92, *Galvanized Steel and Aluminum-Zinc Alloy Coated Steel Siding, Soffits and Fascia, Prefinished, Residential.*



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SECTION 11 REVISION LOG

| REVISION # | DATE | PAGES | REVISION |
|------------|----------|-------|-----------------------|
| 0 | 02/24/20 | N/A | Original Report Issue |