



ENGINEERING EVALUATION REPORT

Issued Date	2024-12-03
Expiry Date	2025-12-31
Report Number	0098-14-1-6037
Client	Nichiha USA
Address	6465 East Johns Crossing, Suite 250 Johns Creek

SUBJECT

Nichiha AWP Siding and Soffit, and Sierra/Savannah Siding, ignition-resistance testing results.

TEST SUMMARY

Nichiha AWP and Sierra/ Savannah Siding samples have been tested in accordance with ASTM E2768, *Standard Test Method for Extended Duration Surface Burning Characteristics of Building Materials (30 min Tunnel Test)* at Intertek Building & Construction (B&C) in Coquitlam, BC. Intertek is an accredited laboratory by International Accreditation Service (IAS).

PRODUCT DESCRIPTION

Nichiha exterior wall claddings are Fiber-cement panels manufactured from a pressed, stamped, and autoclaved mix of cement, fly ash, silica, recycled rejects, and wood fiber bundles. The surface is pre-finished with a variety of colors and textures. Cladding panels and planks are installed on the exterior of buildings.

AWP PANEL SIDING

The AWP series panels are installed using corrosion-resistant metal clips supplied as part of the system, fastened to framing providing a 10 mm air-space rainscreen between the cladding and wall sheathing.

AWP 3030 is $\frac{5}{8}$ " thick, and $17 \frac{7}{8}$ " H x $119 \frac{5}{16}$ " L, with horizontal or vertical applications.

AWP 1818 is $\frac{5}{8}$ " thick, available in $\frac{5}{8}$ ", $\frac{3}{4}$ ", and $\frac{7}{8}$ " thicknesses, is $17 \frac{7}{8}$ " H x $71 \frac{9}{16}$ " L and is for horizontal applications only.

SIERRA & SAVANNAH LAP SIDING

Lap siding are plank boards installed horizontally, overlapping, and fastened against sheathing to the wall framing, which may include vertical wood straps to form a 10 mm airspace rainscreen between the cladding and wall sheathing. Lap siding planks are installed with the long dimension oriented horizontally.

Sierra Lap Siding is $\frac{1}{2}$ " thick and available in $6 \frac{1}{4}$ ", $7 \frac{1}{4}$ ", and $8 \frac{1}{4}$ " H x $9' 4"$ L.

Savannah Lap Siding is $\frac{1}{2}$ " thick and $8 \frac{7}{8}$ " H x $9' 4"$ L.



TEST RESULTS

Table 1: AWP and Sierra/Savannah – ASTM E2768-11 (2018) Test Results

Flame Spread Index			
Result ¹		Requirement	Compliance
Frontside	0	≤25	Pass
Backside			
Maximum Flame Front after 30- minutes (ft)			
Result ¹		Requirement	Compliance
Frontside	4 ½	≤10.5	Pass
Backside			

1. AWP siding tested with 1/8" longitudinal gap.

The test results meet the definition of *Ignition-resistant materials* in the 2022 California Building Code (CBC) Section 704A.3, and 2024 International Wildland Urban Interface Code (I-WUI) Section 503.2.

Manufacturing Plants, Labeling and Quality Assurance

The products evaluated in this report were sampled at the approved manufacturing locations: Iwaki, Fukushima, JPN; Handa-shi, Aichiken, JPN; Nagoya, Aichi, JPN; Narashino, Chiba, JPN; Shimonoseki, Yamaguchi, JPN. Macon, GA, USA with third-party quality assurance inspections and product certification labeling by Intertek. Labeling shall be in accordance with the requirements of the CBC and IWUI, and the Accredited Quality Assurance Agency.

SOURCE DOCUMENTS

The published versions of the following sources, current on the date of this evaluation, were used as reference material to support the conclusions made:

1. AWP ASTM E2768 test results: Intertek Building & Construction (B&C) Report No. 105863935COQ-001E R1 and No. 105863935COQ-001F R1, dated October 4, 2024
2. Sierra/Savannah ASTM E2768 test results: Intertek Building & Construction (B&C) Report No. 105863935COQ-001A R0, and No. 105863935COQ-001B R0, dated September 17th, 2024.

SIGNED

This report has been prepared and reviewed on behalf of BOCA by:

Chris Bowness, P.Eng., P.E.

2024-12-04

Issue Date

2025-12-31

Expiry Date



EVALUATION REPORT TERMS:

1. This report is a general evaluation of the building code sections and/or standards requirements as identified and applies



only to the samples that were evaluated. It does not imply any endorsement or warranty, nor that the signatory Engineer is the Designer of Record of any construction project for which the information is used.

2. This Evaluation Report expires Dec. 31, 2025, open to renewal. Up to the renewal date, the report is valid until such time as the named product(s) changes, the Quality Assurance Agency changes, or provisions of the Code that relate to the product change.

CERTIFICATION OF INDEPENDENCE:

1. Boca Engineering Co., its employees and shareholders, do not have, nor do they intend to or will acquire, a financial interest in any company manufacturing or distributing products that they evaluate.
2. Boca Engineering Co. is not owned, operated, or controlled by any company manufacturing or distributing products that they evaluate.