



ENGINEERING EVALUATION REPORT

Report Number	0098-24	Issue Date	2025-12-31
Client	Nichiha USA, Inc.	Issue Number	2-6070
Address	6465 E. Johns Crossing, Suite 250, Johns Creek, GA 30097	Expiry Date	2026-12-31

Subject

Nichiha AWP Fiber-Cement Wall Cladding System for Interior Applications summary results and verification of compliance to NFPA 286, *Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth*.

Test Summary

Nichiha's Architectural Wall Panels (AWP) were tested in accordance with ASTM C1288 at Intertek in Coquitlam, BC. Intertek is accredited for this testing by International Accreditation Service (IAS) certificate TL-274.

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

Clips

Panels are held in place by 26-inch galvanized steel clips installed on top and fastened to framing members using a #10 x 1-1/2" screw at each stud. Clips are spaced 4 inches apart along the panel length, and the top row of panels is face-fastened with #8 x 2-1/2" screws.

The AWP system was installed as wall and ceiling finish to the interior of the test room in accordance with NFPA 286, fastened directly to framing of 2x4 wood studs and 2x6 wood ceiling joists @ 16" o/c.

TEST RESULTS

Table 1: Nichiha AWP – NFPA 286 Test Results

Section 9				
Flashover	Peak Heat Flux	Peak Heat Release Rate	Peak Average Room Temperature	Result
None	1.41 kW/m ²	198 kW	306°C	Pass
Annex C				
Performance Criteria		Test Observations		Result
During 40 kW exposure, flames should not spread to the ceiling.		Flames did not spread to the ceiling during the 40kW exposure.		Pass



During the 160-kW exposure, flames not to spread to the outer extremity of the sample on any wall or ceiling and flashover not to occur.	Flame propagation to the outer extremities and/or flashover did not occur during the 160-kW exposure.	Pass
The peak rate of heat release not to exceed 800 kW.	The peak heat release rate was 198 kW.	Pass
The total smoke released not to exceed 1,000 m ² .	The total smoke released during the entirety of the test was 115 m ² .	Pass

The results of this testing comply with the requirements of NFPA 286-24 and the criteria of in 2024 IBC Section 803.1.1, *Interior wall and ceiling finish tested in accordance with NFPA 286*.

Manufacturing Plants, Labeling and Quality Assurance

The products evaluated in this report are manufactured at 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 by Intertek in accordance with ASTM C1288-23 Section 9.2. Labeling shall be in accordance with the requirements of the IBC, ASTM C1288-23 Section 10.1, 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. Nichiha AWP NFPA 286 results: Intertek Laboratory report 106025025COQ-002 R1, dated 01/24/25

Signed

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

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

2025-12-31

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 2026-12-31, 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.

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