



**TOWN OF TRUCKEE**  
**COMMUNITY DEVELOPMENT DEPARTMENT**  
BUILDING AND SAFETY DIVISION

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**Wane Edge Lap Siding 10 to 12 inch width**

**PURPOSE:** To approve the use of wane edge lap siding in 10 to 12 inch width manufactured by Weather-Tite Log Home Products, Inc.

**COMMENTS:**

Wane edge siding was tested by the Western Fire Center, Inc. in Kelso, Washington in accordance with SFM Standard 12-7A-1: Fire Resistive Standards for exterior Wall Siding and Sheathing. Ponderosa Pine was tested and passed and as per the test report.

When installed according to the report, solid sawn products including Redwood, Western Red Cedar, Incense Cedar, Port Orford Cedar, Alaska Yellow Cedar or other wood species having a flame spread rating not greater than 75 may also be used.

The material is 1/4 inch thick, with a minimum two inch overlap installed over minimum 7/16 inch OSB sheathing. Fastening is with 3/8 inch screws through the face of edge board just above the overlap into each stud. The siding is 5/8 inch thick at the lap with, a two inch long bevel. In addition, a bead of Sashco Logjam caulk shall be placed between each overlap and undercourse.

The report shall be on site for inspection.



**Western Fire Center, Inc.**

**2204 Parrott Way, Kelso, Washington 98626**  
Phone: 360-423-1400 | Fax: 360-423-5003 | Toll Free: 877-423-1401

**Testing of Exterior Siding Material  
in Accordance with SFM Standard  
12-7A-1:  
*Fire Resistive Standards for  
Exterior Wall Siding and Sheathing***

Wane Edge Ponderosa Pine Lap Siding  
10 to 12 in. Width

**PN# 09030**

Conducted for:

**WEATHER-TITE LOG HOME PRODUCTS, INC.**  
**LOON LAKE, WA.**

**TESTING COMPLETED ON: MAY 22, 2009**  
**REPORT ISSUED ON: AUGUST 12, 2009**  
**REVISED REPORT ISSUED: MARCH 16, 2010**

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## **INTRODUCTION**

This report documents the CSFM 12-7A-1 testing of solid wood siding performed by Western Fire Center, Inc. (WFCi) for Weather-Tite Log Home Products. The siding product covered by this report is identified as "Wane Edge Lap Siding" at a width of 12 in.

Wayne Beres of WFCi conducted the tests with the assistance of Mike White.

The test wall samples were assembled by the client prior to shipping to WFCi. A detailed description of the samples can be found on page 4 of this report.

The purpose of these tests was to evaluate the fire test performance characteristics of the client's solid wood siding specimen when subjected to the SFM 12-7A-1 standard fire exposure conditions in order to demonstrate conformity with Paragraph 704A.3.1 the California Building Code, Chapter 7A, Section 704A requirements.

## **SUMMARY OF THE TEST METHOD**

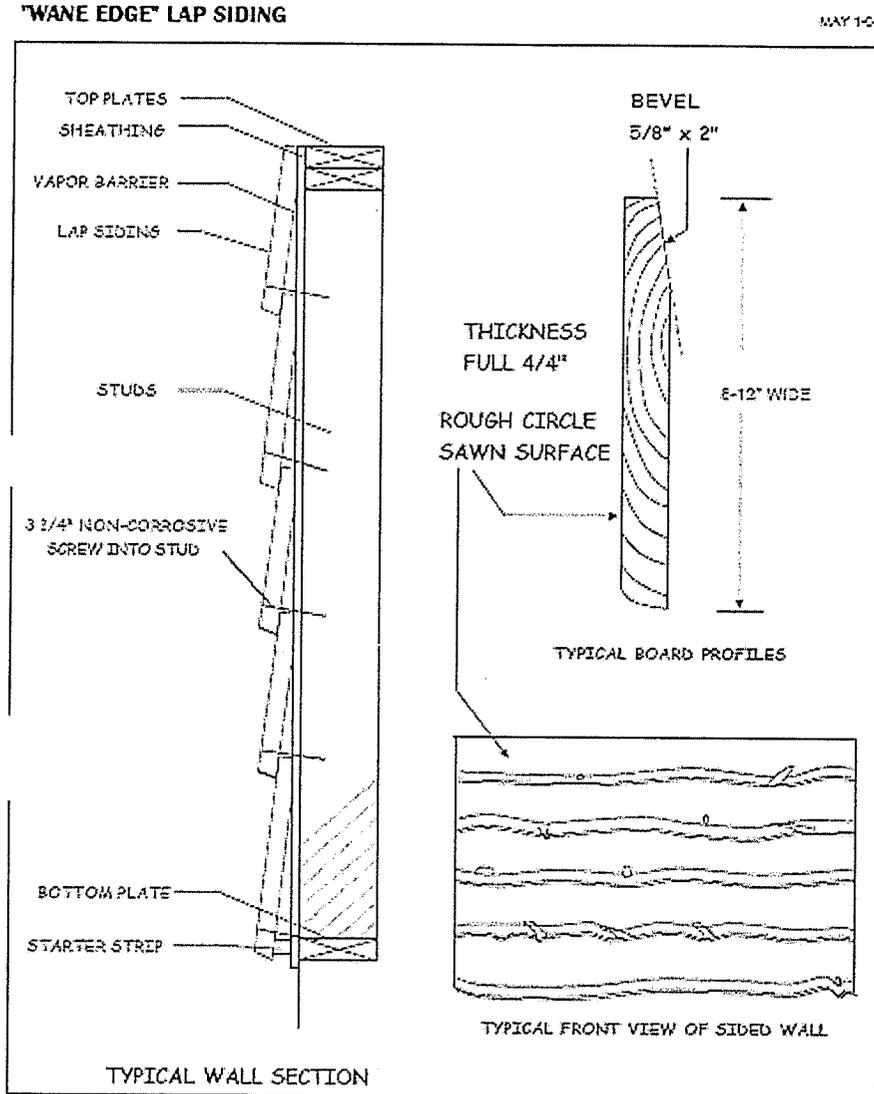
The CSFM 12-7A-1 test methodology incorporates a protocol utilizing a 4" x 39" gas diffusion burner positioned at the base of a 4' wide by 8' high wall construction with the fire exposure conducted at 150 kW for a period of 10 minutes. After fire exposure, the wall specimens are observed for a 60-minute post-exposure period for signs of progressive combustion and/or flame penetration through to the unexposed side of the assembly. Signs of flame penetration at any time during the test, or presence of glowing combustion at the end of the 60-minute post exposure period constitute a failure to meet the conditions of acceptance. Tests are conducted in triplicate for conformity with the California Building Code, Chapter 7A requirements. An infrared thermal imaging camera is used in each test to assist in determination of the progression of hidden combustion and associated temperature changes. Tests are conducted under the WFCi large combustion products collector at ambient airflow conditions. Samples were not subjected to accelerated weathering prior to the test. Specimens were tested at a moisture content of no greater than 9 to 10% (as determined by an electrical resistance Delmhorst moisture meter). The heat output of the burner and corresponding gas flow is calibrated at the outset of the test program, and the mass flow of gas delivered to the burner is checked and compared to the initial calibration prior to each test run.

## **SAMPLE DESCRIPTION**

The 4' x 8' wall assemblies clad with solid wood siding were constructed by the client and shipped to the WFCi laboratory for testing. For these tests, the siding materials were installed horizontally over 7/16" oriented strandboard (OSB) sheathing mounted to a wood stud supporting assembly in accordance with client specifications. The wall assemblies were prepared in accordance with the test method requirements. Fastening was with 3-1/4" screws through the face of edge board just above the overlap into each supporting element as shown in the drawing below. In addition, a bead of Sashco LogJam caulk was placed between each overlap and undercourse. The siding was installed with an approximate 2" overlap at the lap joint.

The client provided information describing the siding product as consisting of Ponderosa pine, 1" thick (thickest point) with a 5/8" x 2"

bevel. The tested product was nominally 11" wide. A representative drawing of the siding is included below.



## TEST OBSERVATIONS

Testing was commenced on May 22, 2009 at 8:40 am. The moisture content of the siding was measured by an electrical resistance meter to be 9% prior to testing. The moisture content of the supporting stud elements

### TEST #1

Time	Observation
0:00:00	Start Test, Ignite Burner
0:00:49	Ignition of siding
0:00:55	Flaming at soffit
0:10:00	Burner out- flaming continues
0:11:00	Flames out, some light glowing
0:35:00	Temperatures diminishing front and back sides, no evidence of progressive combustion- IR scan reveals diminishing temperatures, no flame penetration to unexposed side, no signs of glowing combustion unexposed side, stop test
Post Fire Exposure:	All signs of flaming and/or glowing combustion ceased at point of test termination; <b>test pass</b>
<b>Date</b>	5/22/09
<b>Burner Exposure</b>	150 kW
<b>Laboratory Temp</b>	60°F
<b>Sample Moisture Content</b>	Siding 9%, sheathing 6-7%; studs 8%

### TEST #2

Time	Observation
0:00:00	Start Test, Ignite Burner
0:00:49	Ignition of face
0:01:04	Flaming to soffit
0:10:00	Burner out- flaming on face continues
0:11:00	Flames out, some glowing combustion on face
0:24:30	All signs of combustion combustion ceased, temperatures diminishing, Stop test, no evidence of continuing combustion, no signs of flame penetration or glowing combustion on unexposed side
Post Fire Exposure:	All signs of flaming and/or glowing combustion ceased at point of test termination; <b>test pass</b>
<b>Date</b>	5/22/09
<b>Burner Exposure</b>	150 kW
<b>Laboratory Temp</b>	60°F
<b>Sample Moisture Content</b>	Siding 9%, sheathing 6-7%; studs 9%

**TEST #3**

<b>Time</b>	<b>Observation</b>
0:00:00	Start Test, Ignite Burner
0:00:50	Ignition face
0:01:10	Flaming to soffit
0:10:00	Burner out- light flaming continues
0:10:32	Flames out, some glowing combustion on face
0:43:00	All glowing combustion ceased
0:47:00	Temperatures diminishing, Stop test,
Post Fire Exposure:	All signs of flaming and/or glowing combustion ceased at point of test termination; no flame penetration, <b>test pass</b>
<b>Date</b>	5/22/09
<b>Slot Burner Exposure</b>	150 kW
<b>Laboratory Temp</b>	60F
<b>Sample Moisture Content</b>	Siding 9%, sheathing 6-7%; studs 9%

## **CONCLUSION AND EXTENSION OF DATA**

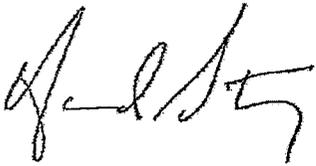
The Wane Edge pine siding product as tested and described in this report successfully met the conditions of acceptance specified in SFM 12-7A-1, and therefore conforms to the requirements of Section 704A, Paragraph 704A.3.1 of the 2007 California Building Code.

These results are judged to be applicable to 10 in. widths and wider, with a minimum overlap of 2 inches over the undercourse.

When installed in the same manner as the item tested, these results are also deemed to apply to "Wane Edge" solid sawn siding products made of the wood species "Redwood", "Western Red Cedar", "Incense Cedar", "Port Orford Cedar", "Alaska Yellow Cedar", or other wood species having a Flame Spread Rating not greater than 75 (Class B) when tested in accordance with ASTM E84.

## **SIGNATURE PAGE**

Reviewed and approved,

A handwritten signature in black ink, appearing to read "H. Stacy", written over a horizontal line.

Howard Stacy

Director, Testing Services

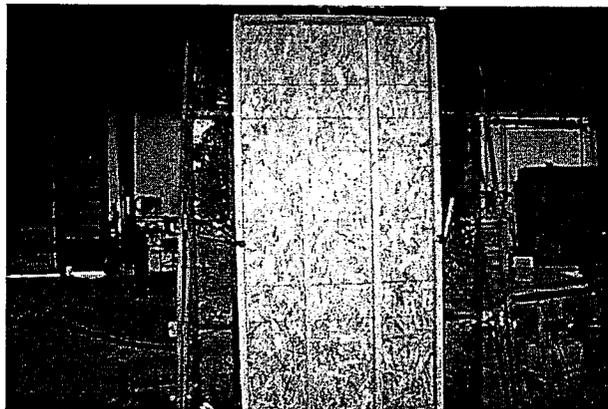
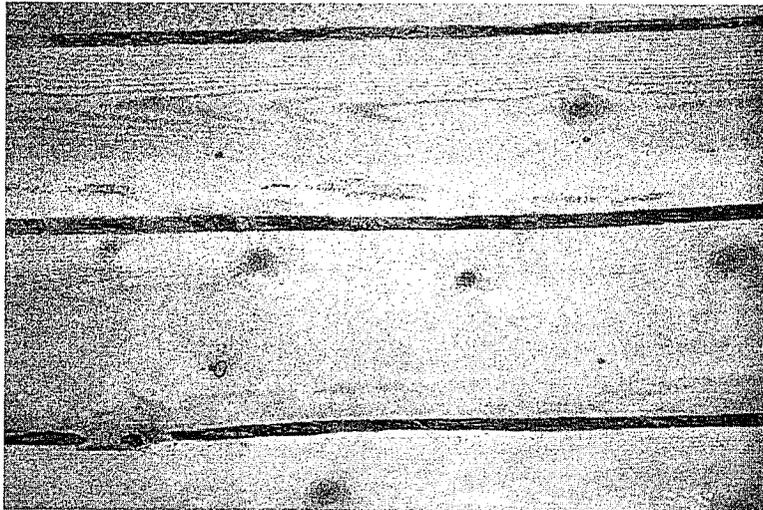
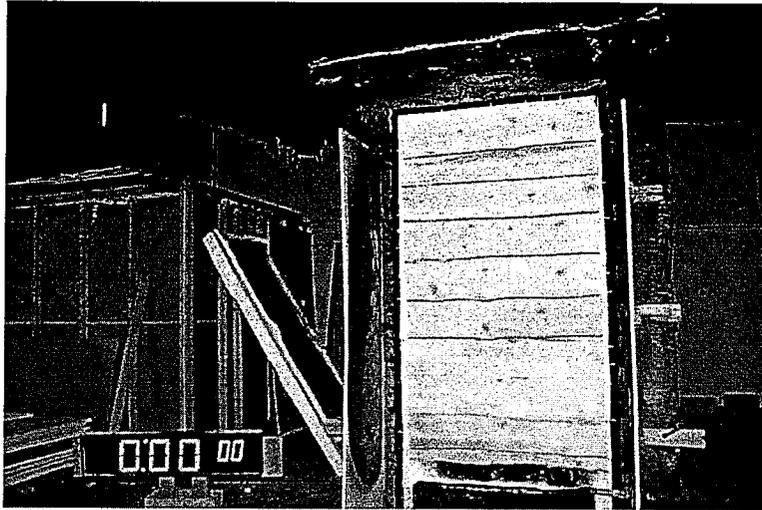
**WESTERN FIRE CENTER AUTHORIZES THE CLIENT NAMED HEREIN TO  
REPRODUCE THIS REPORT ONLY IF REPRODUCED IN ITS ENTIRETY**

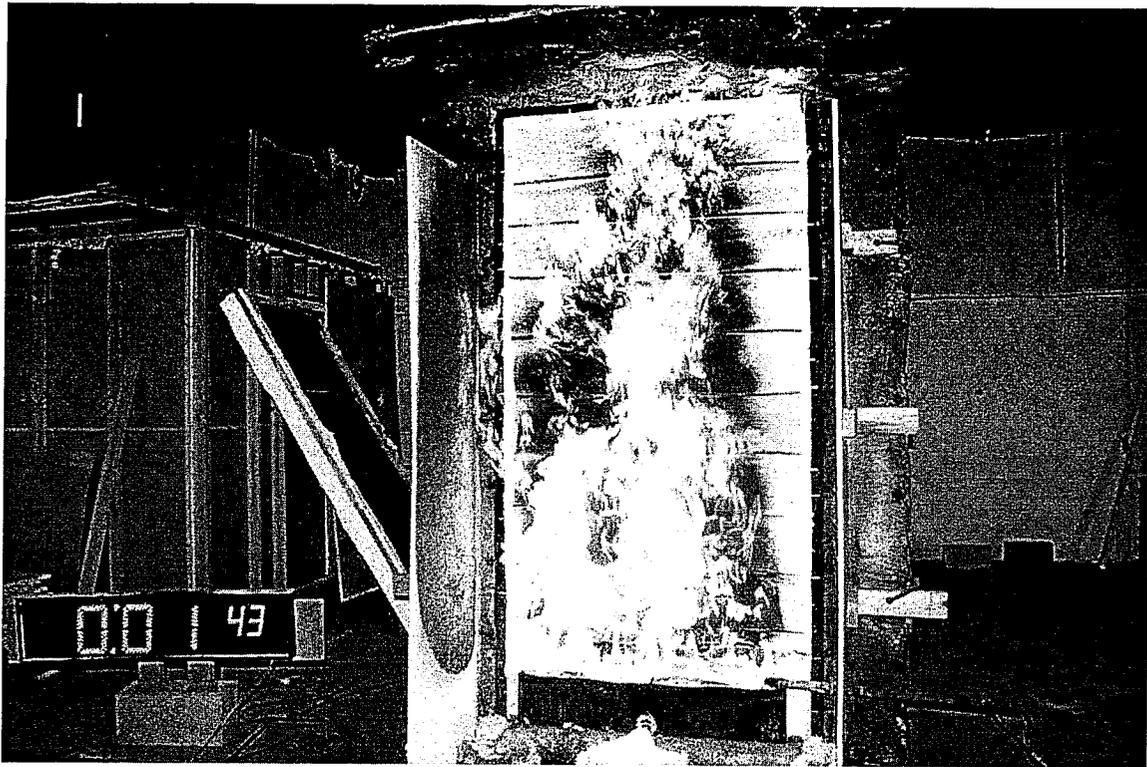
**The test specimen identification is as provided by the client and WFCi  
accepts no responsibilities for any inaccuracies therein. WFCi did not select  
the specimen and has not verified the composition, manufacturing  
techniques or quality assurance procedures.**

## Revision Log

Rev. #	Date	Page(s)	Revision(s)
0	8/12/09	0	Original issue
1	3/16/10	7 of 13	Add recognition of additional wood species to Conclusion

# **APPENDIX A: TEST PICTURES from Selected Test**







Exposed face at test termination



Unexposed side at test termination