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DATE: May 5, 1992

Report #18158

SUBMITTED BY: Petersen Aluminum Corporation  
955 Estes Avenue  
Elk Grove Village, IL 60007

DATE OF TESTING: April 27, 1992

TESTING FACILITY: The Dallas Laboratories, Inc.  
Dallas, Texas

WITNESSED BY:  
Yoosef Lavi, P.E. — Lavi & Associates  
Harbert J. Cole — The Dallas Laboratories, Inc.  
Jim Hicks — The Dallas Laboratories, Inc.

TESTS:  
ASTM E 331-86- Standard test method for water penetration of exterior windows, curtain walls and Doors by uniform static air pressure difference.

ASTM E 283-91- Standard test method for rate of air leakage through exterior windows, curtain walls and doors.

**DESCRIPTION OF UNIT TESTED**

Type: Metal deck roof panel

Series: Redi-Roof Standing Seam

Panel Profile: 12 wide by 1-1/2 high

Overall size: 8 -0 wide by 10 -0 long



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Test unit was installed over an 8'-0" wide by 10'-0" long chamber, at a slope of approximately 2:12 in the following sequence.

15/32" plywood decking supported at 24" o.c. was installed as substrate support. Type 30 organic felt as underlayment was installed over the plywood using 3/8" long steel staples. 18" wide by .024" thick panels were attached to the substrate using clips at 24" o.c. . The Clips were made of .024" thick coated steel, and were fastened with 2 No. 10 x 1" long coated steel screws.

**SUMMARY OF TEST RESULTS**

<u>Title of Test</u>	<u>Test Method</u>	<u>Measured</u>
Air Infiltration @ 1.57 psf	ASTM E 283-91	.004CFM/Ft2
Air Infiltration @ 6.24 psf	ASTM E 283-91	.006CFM/Ft2
Air Exfiltration @ 1.57 psf	ASTM E 283-91	.015CFM/Ft2
Air Exfiltration @ 6.24 psf	ASTM E 283-91	.06CFM/Ft2
Water Penetration @ 12.00 psf	ASTM E 331-86	No Leakage

The above test results were obtained using the applicable ASTM test methods.

**TEST SUPERVISED BY:**

**TEST CONDUCTED BY:**

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Yoosef Lavi, P.E.

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Harbert J. Cole