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PERFORMANCE TEST REPORT

Rendered to:

FABRAL, INC.
P.O. Box 4608
Lancaster, Pennsylvania 17604-4608

Report No: 01-31113.02
Test Date: 05/04/98
Report Date: 06/03/98

Project Summary: Architectural Testing, Inc. (ATT) was contracted by Fabral, Inc. to perform air and water testing on their model Slim Seam metal roof panels. The test specimen successfully completed all of the requirements in the referenced specifications. Individual data and results are reported below.

Test Methods: The specimen was tested in accordance with the following:

ASTM E 1646-95, Standard Test Method for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference.

ASTM E 1680-95, Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems.

Test Specimen Description: The test specimen utilized of 16-gauge (0.062" thick) steel "C" purlins. Steel one-piece 22-gauge (0.031" thick) clips were used to anchor the panels to the purlins. The panels were 24-gauge (0.025" thick) steel by 16-1/4" wide by 1-3/8" high. The seams were snapped together to hold them in place. A single bead of butyl sealant was shop applied to the female part of the seam on each panel. The overall size of the specimen was 6' 0" wide by 5' 6" long.

Test Results

The results are tabulated as follows:


<u>Title of Test</u>	<u>Results</u>
Simulated Thermal Expansion Cycling (2 cycles of 1" in ea. direction)	-----
Preload (3 cycles) @ +15.0 psf	-----
@ -20.0 psf	-----

**Test Results
(Continued)**

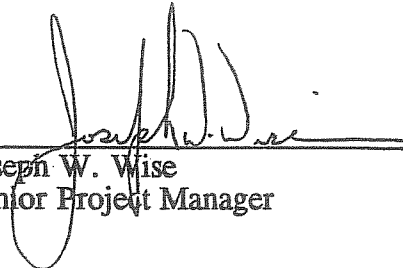
<u>Title of Test</u>	<u>Total</u>	<u>Tare</u>	<u>Results</u>
Air Infiltration			
@ 1.57 psf	5.4	5.4	<0.01 cfm/ft ²
@ 6.24 psf	14.4	14.4	<0.01 cfm/ft ²
@ 12.0 psf	22.0	22.0	<0.01 cfm/ft ²
@ 20.0 psf	32.0	32.0	<0.01 cfm/ft ²
Air Exfiltration			
@ 1.57 psf	5.8	5.4	0.01 cfm/ft ²
@ 6.24 psf	15.0	14.4	0.02 cfm/ft ²
@ 12.0 psf	24.0	22.0	0.06 cfm/ft ²
@ 20.0 psf	34.0	32.0	0.06 cfm/ft ²
Water Penetration			
@ 6.24 psf			No leakage
@ 12.0 psf			No leakage

Representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. This report is the exclusive property of the client so named herein and is applicable to the sample tested. Results obtained are tested values and do not constitute an opinion or endorsement by this laboratory.

For ARCHITECTURAL TESTING, INC:



Steven M. Urich
Test Engineer



Joseph W. Wise
Senior Project Manager

SMU:rac
01-31113.02

