

HAUSER

HAUSER CHEMICAL RESEARCH, INC.

August 18, 1992

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ENGINEERING SERVICES
DEPARTMENT

CLIENT: ATLANTA METAL PRODUCTS, INC.

MATERIAL: An 8 foot by 10 foot test section of metal panel roofing fabricated by Knudson Mfg, Inc. of Broomfield, Colorado and identified as A.M.P. Thin Seam. This test section is shown in Figure 1.

The panels were 18 inches wide, and fabricated from 24 gauge steel. The joints formed were 1 3/4 inch high standing integral lock seams sealed with a 1/4 inch (nominal) bead of butyl sealant and were attached to underlying steel beams (48 inches on-center) with clips.

The clips were made of 0.050 inch thick steel, and were fastened with 2 #10 steel screws each. Details of this joint are shown in Figure 2.

TESTS: Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors by ASTM E283, at test pressures of 1.57 PSF and 6.24 PSF.

Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Pressure Difference by ASTM E331, at test pressures of 1.57 PSF, 6.24 PSF, 12.5 PSF and 15.1 PSF.

RESULTS: The edges of the test section were sealed and were excluded from these measurements.

Air Leakage

The test section exhibited air leakage rates as detailed in Table 1.

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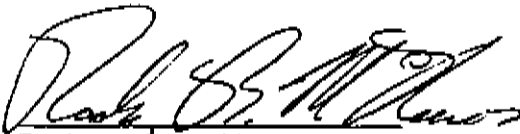
TABLE I
AIR INFILTRATION RESULTS

Test Pressure (PSF)	Measured Air Leakage	
	(SCFM)	(CFM/Unit Length of Crack)
1.57	0.67	0.014 CFM/FT.
6.24	0.42	0.009 CFM/FT.

Water Penetration

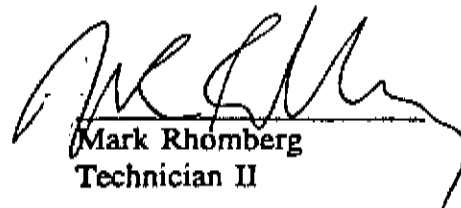
The test section was tested in a horizontal position. The roofing was exposed to water spray at a rate of 5.0 GPM for 15 minutes duration at each test pressure. No evidence of water penetration was noted at any of the test pressures.

TESTS SUPERVISED BY:



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