

MRS System 2000 16" 24 Ga. Air and Water Infiltration

On April 2, 2006, Metal Roofing Systems, Inc. tested its MRS System 2000 Panel for air leakage and water penetration

TEST METHODS:

Air Leakage: ASTM E1680-95

Water Penetration: ASTM E1646-95

TEST SPECIMEN:

Metal Roofing Systems, Inc. 24 Ga. 16 in. wide MRS System 2000 Roof Panel. Panels were attached to purlins using (1) #10-16 Pancake Head self-driller fastener per clip

TEST RESULTS: *Results are extrapolated to different panel widths.

| Specimen | Air Infiltration | | | Water Penetration | | | |
|----------------------------|------------------------------------|--------------------------------|--------------------------------|------------------------------------|-------------------|---------------------|--------------------|
| | Static Pressure Differential (psf) | Air Infiltration rate (cfm/lf) | Air Infiltration rate (cfm/sf) | Static Pressure Differential (psf) | Rate (gal./hr/sf) | Test Duration (min) | Water Infiltration |
| MRS System 2000 16" 24 Ga. | +6.24 | 0.006 | 0.004 | 2.86 | 5 | 15 | None |
| MRS System 2000 16" 24 Ga. | -6.24 | 0.004 | 0.003 | | | | |
| MRS System 2000 16" 24 Ga. | +1.57 | 0.002 | 0.001 | | | | |
| MRS System 2000 16" 24 Ga. | -1.57 | 0.004 | 0.003 | | | | |

Test Report No. : T111-06

Dated : April 2, 2006