



TECHNICAL BULLETIN

Issue Date : March 9, 2005**Revised: February 5, 2013****No. 01-259-05**

Air and Water Infiltration Mirage 24 Ga.

On November 11, 2002, McElroy Metal, Inc. tested its Mirage Panel for air leakage and water penetration.

TEST METHODS:

Air Leakage: ASTM E1680-95, "Rate of Air Leakage Through Exterior Metal Roof Panel Systems"

Water Penetration: ASTM E1646-95, "Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference"

TEST SPECIMEN:

McElroy Metal, Inc. 24 Ga. 16 in. wide Mirage Roof Panels were attached to purlins with Mirage panel clips using (4)#10-16 x 1" Pancake fasteners per clip. 5/16" x 1/4" bead butyl tape sealant was used in the sidelap with 1/8" x 1" tape sealant placed under each clip at the sealant location.

TEST RESULTS:

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
Mirage 16" 24* Ga.	+6.24	0.007	0.006	12.00	5	15	None
Mirage 16" 24* Ga.	+1.57	0.004	0.003				
Mirage 16" 24* Ga.	-6.24	0.006	0.004				
Mirage 16" 24* Ga.	-1.57	0.004	0.003				

Test Report No. : T271-02

Dated : November 11, 2002

*Test results are valid for heavier gauges or thicknesses.

**CORPORATE OFFICE
SHREVEPORT, LOUISIANA**

BOSSIER CITY, LA
CLINTON, IL

PEACHTREE CITY, GA
MARSHALL, MI

WINCHESTER, VA
ADELANTO, CA

LEWISPORT, KY
MAUSTON, WI

ASHBURN, GA
MERKEL, TX

SUNNYVALE, TX
HOUSTON, TX