



# ETC Laboratories

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## Final Test Report HIGS Fog Test Report ASTM 2189

Rendered To:  
Ultrafab  
1050 Hook Road  
Farmington, NY 14125

Project Description		Product Description	
Report No.	ETC-06-006-18407	IG Size	14 in. x 20 in. x 7/8 in.
Product ID	Art Glass Grids Mfg. DGI	Air Space	1/2 in.
Manufactured Date		Glass Type	3/16 in. 1 Clear, 1 LOW E
Sample Received Date	10/20/2006	Spacer Material	Super Spacer
Test Start Date	10/30/2006	Spacer Inside Dimension	19 1/4 in. x 13 1/4 in.
Final Report Date	11/6/2006	Primary Seal MVT Dimension	3/16 in. Super Spacer
Specifications	ASTM E2189	Secondary Seal MVT Dimension	3/16 in. HM
Permanent Label		Total Seal MVT Dimension	3/8 in.
		Dessicant	In Super Spacer
Samples were provided by the manufacturer for testing		Corner	Continous Corners
		Other Features	Art Glass Grids Mfg. by DGI

### Test Results

Ultrafab Art Glass Grids Mfg. by DGI 4 units meet the requirements of ASTM E2189

Unit No.	Initial FP <sub>I</sub>		Final FP <sub>II</sub>		Fog After Test (yes/no)	Fog After 24 hours (yes/no)	Fog After 1 Week (yes/no)	Meets Req (yes/no)
	°F	°C	°F	°C				

### ASTM E2189 Samples

1	N.A.	N.A.	N.A.	N.A.	No	N.A.	N.A.	Yes
2	N.A.	N.A.	N.A.	N.A.	No	N.A.	N.A.	Yes
3	N.A.	N.A.	N.A.	N.A.	No	N.A.	N.A.	Yes
4	N.A.	N.A.	N.A.	N.A.	No	N.A.	N.A.	Yes

Unit # 1 Loose Natural Connectors

Unit # 3 Muntin Bars with 4 each 2 x 2 Mixed Art Glass Components

Unit # 2 Loose Brush Nickle Connectors

Unit # 4 Muntin Bars with 4 each 2 x 2 Mixed Art Glass Components

### Notes:

FP<sub>I</sub> – Initial frost point & chemical dew point of samples after arrival at laboratory. FP<sub>II</sub> – Final frost point & chemical dew point of samples after testing at laboratory. The units are tested for 1 week in the Fog Test after testing the units are checked for fog, if fog is seen the units sit for 24 hours and are checked again, if fog is still seen then the units are allowed to sit for 1 week. At this point if fog is still seen in the units then the units fail the fog test.

Nancy Spetz,  
Test Technician

Dave Kehrl  
Person in Responsible Charge