



Professional Service Industries, Inc.
Pittsburgh Testing Laboratory Division

605 Young Street
Tonawanda, New York 14150
716/694-8657

REPORT

Client's No. 722600-R42

4-88G

ORDER NO. 806-82060-4
DATE May 13, 1988
Page 1

Description: Witnessing the Preparation, Conditioning, Weighings and Calculations of Vapor Permeance for Gold Bond Duraform Seaspray MVR Panels, tested in accordance with ASTM E96: Water Vapor Transmission of Materials - Desiccant Method

For: Gold Bond Building Products
A National Gypsum Division
Research Center
1650 Military Road
Buffalo, New York 14217

During the period from April 28, 1988 through May 13, 1988, a representative of Pittsburgh Testing Laboratories, Buffalo, NY District Office, witnessed the preparation, conditioning, weighing and calculation of vapor permeance for Gold Bond Duraform Seaspray MVR Panels, tested in accordance with ASTM E-96: Water Vapor Transmission of Materials - Desiccant Method. Gold Bond Duraform Seaspray MVR panels consist of a 5/16" gypsum board surfaced with a decorative textured coating.



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Test Procedure

On April 28, 1988, vapor permeance test specimens were prepared using anhydrous calcium chloride desiccant dried at 400°F and placed within 1/4" of the upper lip of 5 1/2" diameter glass dishes. The specimens were sealed to the glass dishes with molten wax. Six specimens (2 thru 7), randomly selected from a manufacturing run of this product, were prepared with the decorative texture coating on the humidity side. The specimens were placed in a 70°F/50% RH humidity room and subsequent weighings taken until a constant moisture gain was obtained for four consecutive daily measurements.

Test Results

<u>Specimen No.</u>	<u>Specimen Position</u>	<u>*Calculated Vapor Permeance English Perms</u>
2	Decorative Texture Coating on Humidity Side	0.32
3	Decorative Texture Coating on Humidity Side	0.32
4	Decorative Texture Coating on Humidity Side	0.32
5	Decorative Texture Coating on Humidity Side	0.32
6	Decorative Texture Coating on Humidity Side	0.53
7	Decorative Texture Coating on Humidity Side	0.63

*Calculation Constants: Area of glass dishes = 0.165 ft²
S for 70°F/50% RH = 0.739 in. Hg (sat. vapor pressure)

Report Per ASTM E-96

1. Material tested - 5/16" Gold Bond Duraform Seaspray MVR Panels
2. Test Method - Desiccant
3. Test Temperature = 70°F
4. Relative humidity in test chamber = 50% RH
5. Permeance of each specimen - as stated in results
6. Higher vapor pressure applied to decorative texture coated side - specimens 2-7
7. Average permeance of all samples tested = 0.41 perms
8. Cups used were Pyrex Petri Dish bottoms, actual inside dimensions 5 1/2" diameter x 11/16" high. Sealing wax was pure refined Bee's wax.



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Conclusions

Gold Bond Duraform Seaspray MVR, consisting of 5/16" gypsum board surfaced with a decorative texture coating, exhibits a perm value of less than 1.0 perms and meets the vapor retarder criteria for ceilings as outlined in HUD Manufactured Home Construction and Safety Standards, Section 3280.504(a).

Inspector: Samuel E. Doak (4/28/88)

Respectfully Submitted,
 PSI-Pittsburg Testing
 Laboratory Division

Donald W. Stevenson (5/13/88)

Donald W. Stevenson
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