

# HYGROTHERMAL SNAPSHOT

## EIFS with Half-Inch Drainage Channel

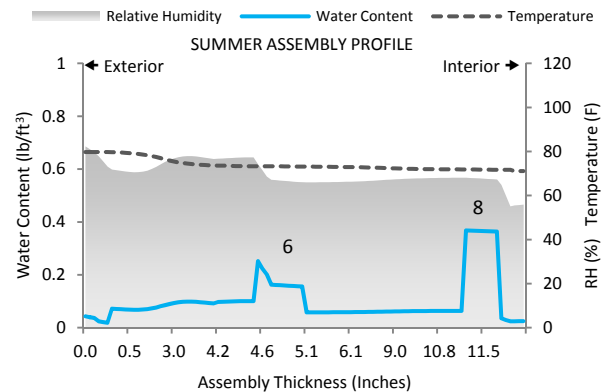
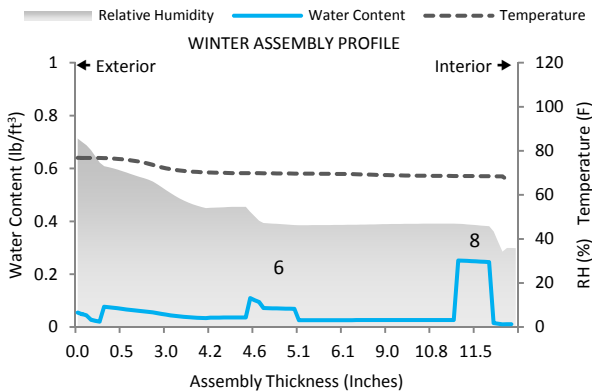
San Juan, Puerto Rico | 18.25°N 66.0°W | Elev. 9 ft | -4 UTC

**RATING**

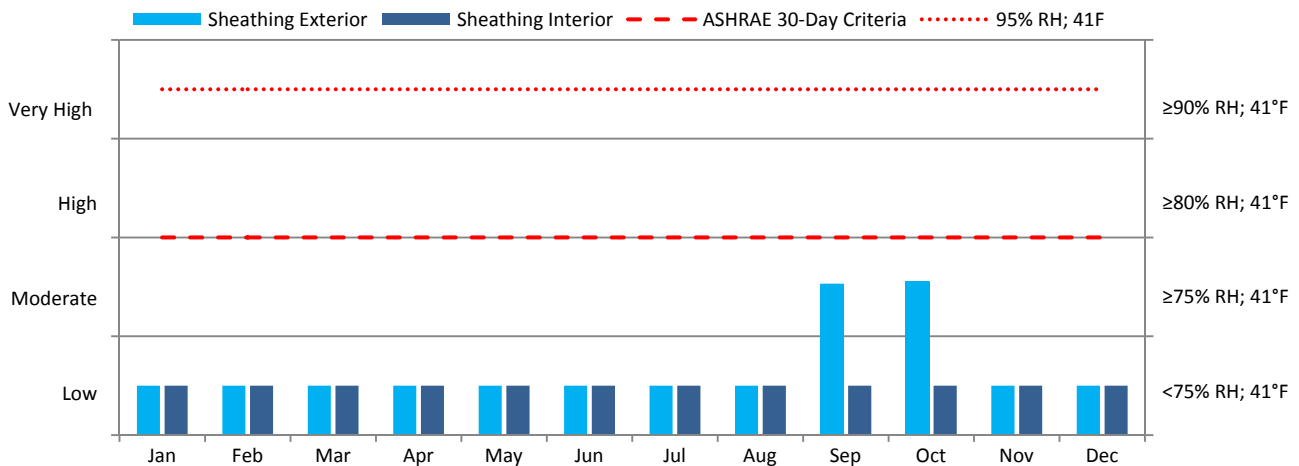
Pass



ASSEMBLY COMPONENTS			PARAMETERS		CLIMATE NORMALS	
1	EIFS Finish Coat	0.06 in	Test Duration	2 Yrs	Temp. Daily Max / Min	86.6°F / 75.4°F
2	EIFS Base Coat	0.063 in	Interior Moisture	Low	RH Daily Max / Min	82% / 76%
3	Expanded Polystyrene	4 in	Interior Temperature	69.8°F ± 1.8°F	Rainfall	56.4 in
4	Drainage Channel	0.5 in	Interior Humidity	45% ± 15%	Snowfall	0 in
5	Liquid-Applied WRB	0.003 in	Orientation / Inclination	E / 90°	Wind Speed	7.8 mph
6	Glass-Mat Gypsum	0.492 in	Exterior Coating	-	Wind Direction	90°
7	Wall Cavity (Air)	6 in	Interior Coating	-	Station Air Pressure	29.9 in
8	Interior Gypsum Board	0.492 in	Rain Exposure / Deposition <sup>1</sup>	1 / 0.5	Heating Degree Days (65 F)	0
9	Interior Paint & Primer	0.003 in	Rain Penetration <sup>1</sup> (▶)	1%	Cooling Degree Days (65 F)	5,855
			Rainscreen / ACH	Partial / 0	Modeled Climate Data	Measured



### MOLD AND CORROSION RISKS AT PREDICTED RH AND SURFACE TEMPERATURES (YEAR 2)



### PERFORMANCE RATINGS

Ratings are based on ASHRAE Standard 160<sup>1</sup>. Resistant materials are evaluated based on hourly 30-day running averages at ≥95% RH, 41°F.

P = Pass; Criteria met

C = Conditional; Criteria compliance is uncertain

F = Fail; Criteria not met for a 30-day running average

CF = Critical Fail; Criteria not met at multiple 30-day running averages

1. ASHRAE Standard 160: Criteria for Moisture-Control Design Analysis in Buildings.

### ABOUT THIS REPORT

These findings are offered for informational purposes only and are not intended as a comprehensive hygrothermal analysis. Design considerations should not rely on this report as the sole means for predicting assembly performance. Uncertainties and limitations inherent to hygrothermal modeling apply to these findings<sup>2</sup>. For more information, visit our website at [www.built-environments.com](http://www.built-environments.com).

2. ASTM MNL 18: Moisture Control in Buildings.