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
1. EIFS Finish Coat 0.06 in
2. EIFS Base Coat 0.063 in
3. Expanded Polystyrene 4 in
4. Drainage Channel 0.5 in
5. Liquid-Applied WRB 0.003 in
6. Glass-Mat Gypsum 0.492 in
7. Wall Cavity (Air) 6 in
8. Interior Gypsum Board 0.492 in
9. Interior Paint & Primer 0.003 in

PARAMETERS
- Test Duration 2 Yrs
- Interior Moisture Low
- Interior Temperature 69.8°F ± 1.8°F
- Interior Humidity 45% ± 15%
- Orientation / Inclination E / 90°
- Exterior Coating -
- Interior Coating -
- Rain Exposure / Deposition¹ 1/0.5
- Rain Penetration² (%) 1%
- Rainscreen / ACH Partial / 0

CLIMATE NORMALS
- Temp. Daily Max / Min 86.6°F / 75.4°F
- RH Daily Max / Min 82% / 76%
- Rainfall 56.4 in
- Snowfall 0 in
- Wind Speed 7.8 mph
- Wind Direction 90°
- Station Air Pressure 29.9 in
- Heating Degree Days (65 F) 0
- Cooling Degree Days (65 F) 5,855
- Modeled Climate Data Measured

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

PERFORMANCE RATINGS
Ratings are based on ASHRAE Standard 160³. 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

2. ASTM MNL 18: Moisture Control 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 findings². For more information, visit our website at www.built-environments.com.

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