Portland Stucco on Framed Wall + Rainscreen
Minneapolis, Minnesota | 44.52°N 66.00°W | Elev. 872 ft | -6 UTC

RATING
Pass

ASSEMBLY COMPONENTS
1 Portland Stucco 0.875 in
2 Ventilated Air Space 0.75 in
3 Two-Ply 60-Minute Paper 0.017 in
4 OSB Sheathing 0.492 in
5 Fiberglass Batt Insulation 5.5 in
6 Polyethylene Vapor Barrier 0.039 in
7 Interior Gypsum Board 0.492 in
8 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 N / 90°
Exterior Coating -
Rain Exposure / Deposition1 1 / 0.5
Rain Penetration1 1%
Rainscreen / ACH Yes / 60

CLIMATE NORMALS
Temp. Daily Max / Min 53.9°F / 35.9°F
RH Daily Max / Min 79% / 59%
Rainfall 30.6 in
Snowfall 54.4 in
Wind Speed 9.7 mph
Wind Direction 320°
Station Air Pressure 29.1 in
Heating Degree Days (65 F) 7,580
Cooling Degree Days (65 F) 753
Modeled Climate Data WUFI

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

PERFORMANCE RATINGS
Ratings are based on ASHRAE Standard 1601. 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

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.

2. ASTM MNL 18: Moisture Control in Buildings.