HYGROTHERMAL SNAPSHOT

Standing Seam Metal Roof

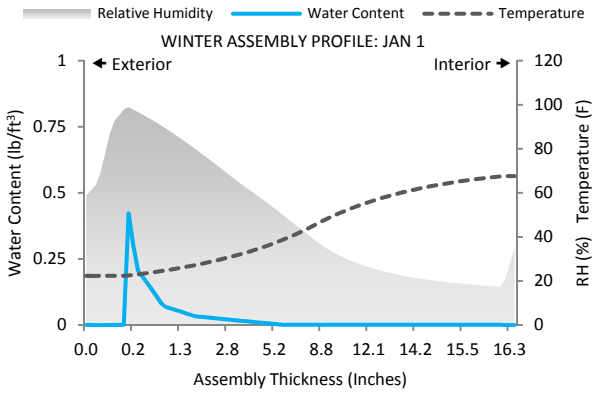
Oklahoma City, Oklahoma | 35.23°N 97.36°W | Elev. 1,285 ft | -6 UTC

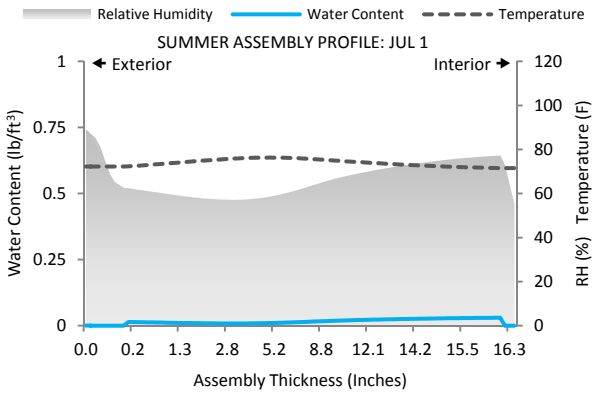
RATING
Conditional **C**

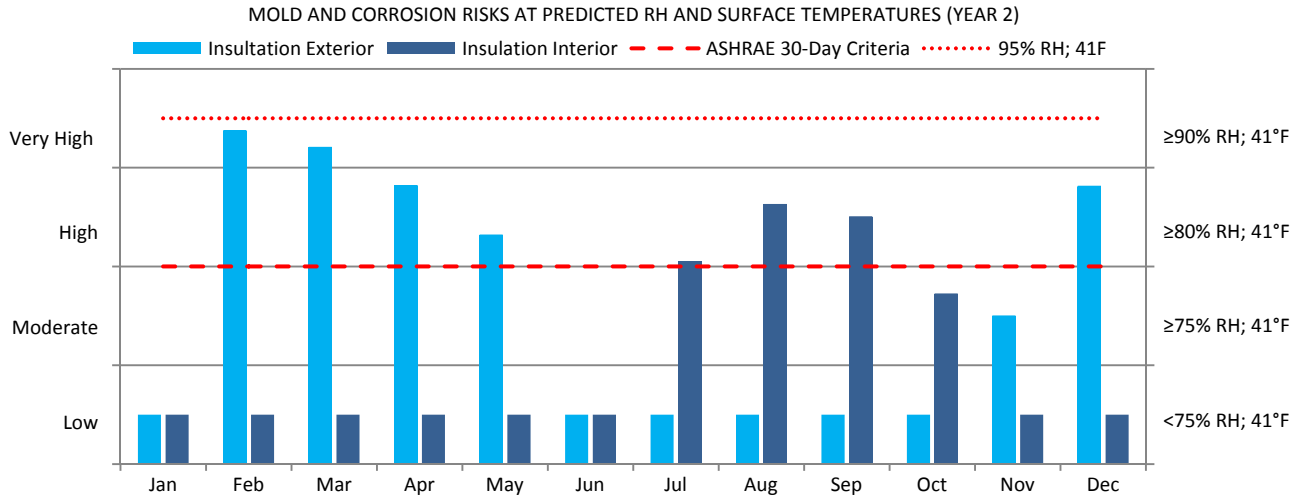
ASSEMBLY COMPONENTS		
1	Standing Seam Metal Roof	0.03 in
2	Ice & Water Membrane	0.04 in
3	Metal Roof Deck (1.5")	0.03 in
4	Fiberglass Batt Insulation	16 in
5	Polyethylene VR	0.03 in

PARAMETERS	
Test Duration	2 Yrs
Interior Moisture	Low
Interior Temperature	69.8°F ± 1.8°F
Interior Humidity	45% ± 15%
Orientation / Inclination	S/ 12°
Roof Surface Absorptivity	0.2
Roof Surface Emissivity	0.9
Rain Exposure / Deposition[1]	1 / 1
Rain Penetration[1] (▶)	0%
Rainscreen / ACH	No / 0

CLIMATE NORMALS	
Temp. Daily Max / Min	72.2°F / 50.7°F
RH Daily Max / Min	80% / 54%
Rainfall	36.52 in
Snowfall	7.6 in
Wind Speed	11.4 mph
Wind Direction	170°
Station Air Pressure	28.6 in
Heating Degree Days (65 F)	3,365
Cooling Degree Days (65 F)	2,099
Modeled Climate Data	WUFI







PERFORMANCE RATINGS

Ratings are based on ASHRAE Standard 160[1]. 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 findings[2]. For more information, visit our website at www.built-environments.com.

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

2. ASTM MNL 18: Moisture Control in Buildings.