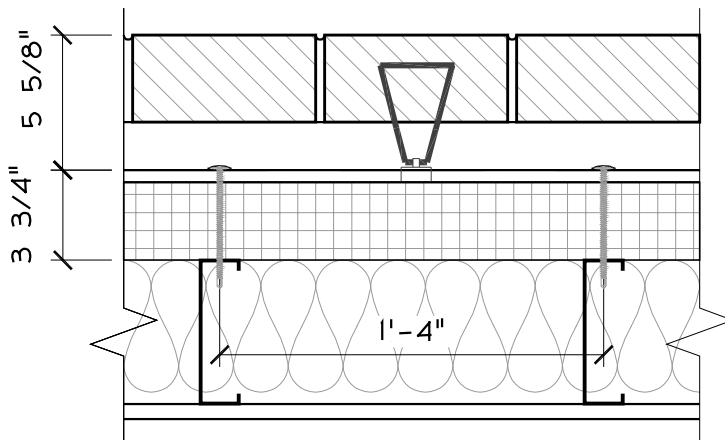
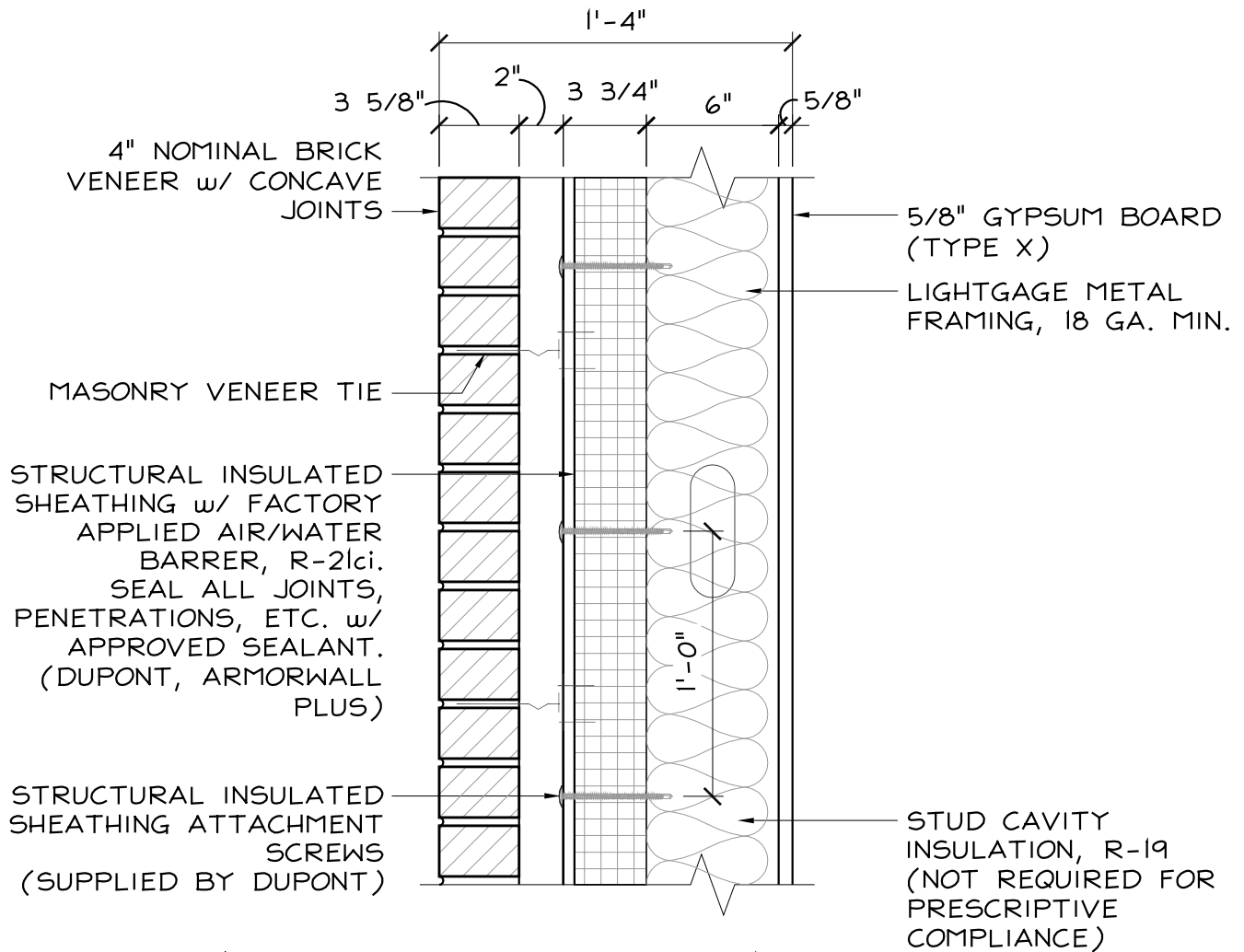




CODE = R-13 + R-10ci | U-0.055

BASE = R-21ci | U-0.047*

OPTIMIZED = R-21ci + R-19 | U-0.034*



MASONRY VENEER w/ METAL STUD

SCALE: 1 1/2" = 1'-0"

PACE
 BUILDING ENVELOPE REPRESENTATIVES
 One Rockdale Street | Braintree, MA 02184
 781-541-5060 | www.pacerepresentatives.com

MASONRY VENEER w/ STRUCTURAL INSULATED SHEATHING & METAL STUD BACK-UP
 (IECC 2021 + MA STRETCH ENERGY CODE)

Sketch #:

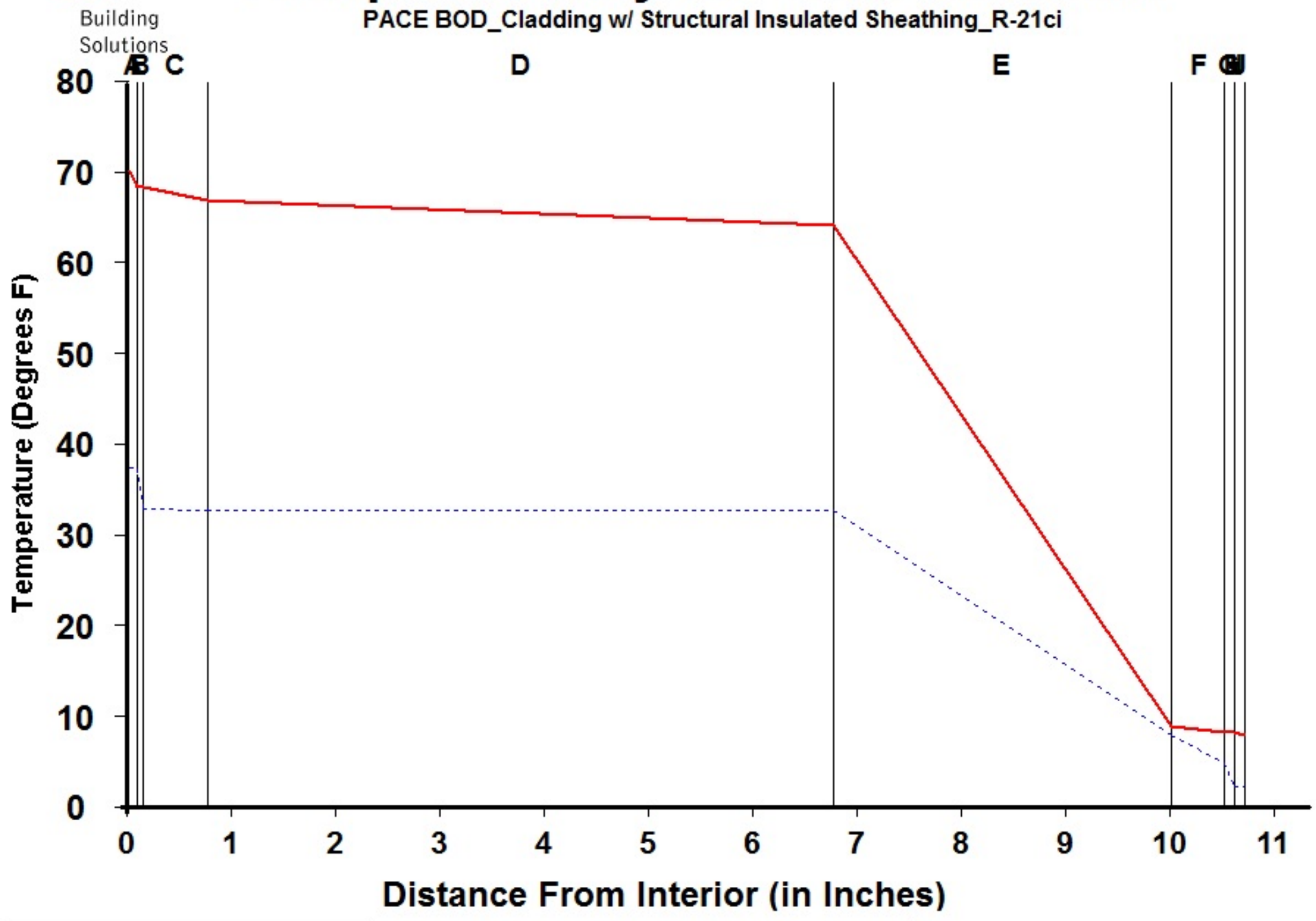
SK-01

Sheet: 1 of 1



Dewpoint Analysis - Dow Chemical

PACE BOD_Cladding w/ Structural Insulated Sheathing_R-21ci



Legend	
—	Actual Temperature
- - -	Dewpoint Temperature

Dewpoint Theory predicts condensation in a system at any point where the actual and dewpoint temperature lines cross.

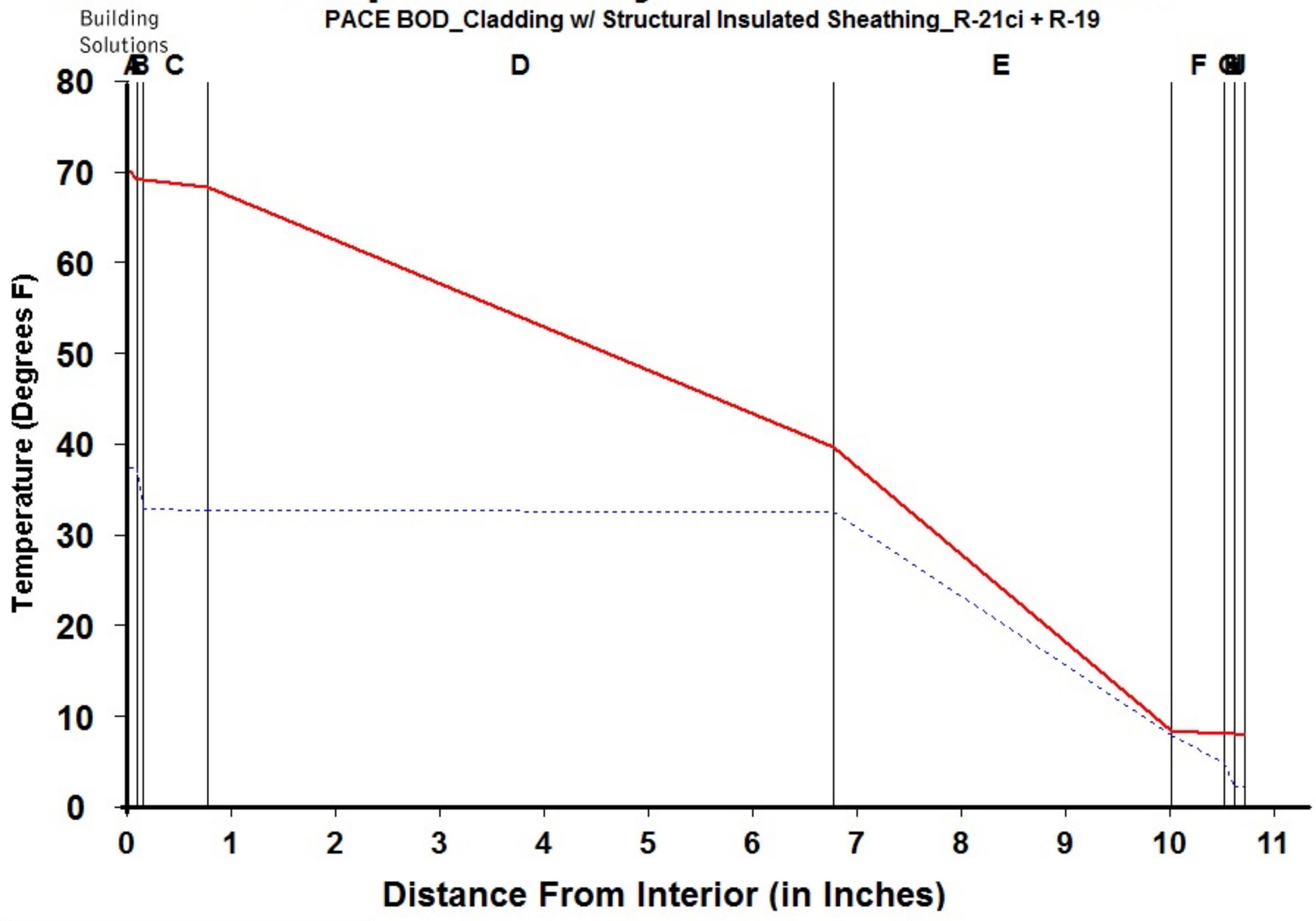
Conditions:		
	Interior	Exterior
Temperature	70.0	7.7
Humidity	30.0	75.0

Component Name	Thickness	R-Value	Rep	Interface	Temperature Actual	Temperature Dewpnt	Accum (oz/day-sqft)
A Interior Air Film	0.100	0.68	0.001	-A	70.00	37.17	0.000
B Latex Paint 2 Coat	0.050	0.01	0.500	AB	68.19	37.16	0.000
C Gypsum Board	0.625	0.56	0.023	BC	68.17	32.75	0.000
D Wall Air Space NonRefl	6.000	1.01	0.006	CD	66.68	32.54	0.000
E Polyurethane Insulation	3.250	20.75	1.788	DE	63.99	32.48	0.000
F MgO Board	0.500	0.25	0.112	EF	8.82	7.69	0.000
G Air/Water Barrier	0.100	0.00	0.083	FG	8.15	4.68	0.000
H Wall Air Space NonRefl	0.000	0.00	0.000	GH	8.15	2.11	0.000
I Ventilated Cladding	0.000	0.00	0.000	HI	8.15	2.11	0.000
J Out Air Film Winter	0.100	0.17	0.001	IJ	8.15	2.11	0.000
K				JK	7.70	2.08	0.000
L				KL			
TOTAL	10.725	23.43	2.514	L-			



Dewpoint Analysis - Dow Chemical

PACE BOD_Cladding w/ Structural Insulated Sheathing_R-21ci + R-19



Legend	
—	Actual Temperature
- - - -	Dewpoint Temperature

Dewpoint Theory predicts condensation in a system at any point where the actual and dewpoint temperature lines cross.

Conditions:		
	Interior	Exterior
Temperature	70.0	7.7
Humidity	30.0	75.0

Component Name	Thickness	R-Value	Rep
A Interior Air Film	0.100	0.68	0.001
B Latex Paint 2 Coat	0.050	0.01	0.500
C Gypsum Board	0.625	0.56	0.023
D Batt Insulation	6.000	19.00	0.010
E Polyurethane Insulation	3.250	20.75	1.788
F MgO Board	0.500	0.25	0.112
G Air/Water Barrier	0.100	0.00	0.083
H Wall Air Space NonRefl	0.000	0.00	0.000
I Ventilated Cladding	0.000	0.00	0.000
J Out Air Film Winter	0.100	0.17	0.001
K			
L			
TOTAL	10.725	41.42	2.518

Interface	Temperature Actual	Temperature Dewpnt	Accum (oz/day-sqft)
-A	70.00	37.17	0.000
AB	68.98	37.16	0.000
BC	68.96	32.76	0.000
CD	68.12	32.55	0.000
DE	39.54	32.45	0.000
EF	8.33	7.69	0.000
FG	7.96	4.68	0.000
GH	7.96	2.11	0.000
HI	7.96	2.11	0.000
IJ	7.96	2.11	0.000
JK	7.70	2.08	0.000
KL			
L-			