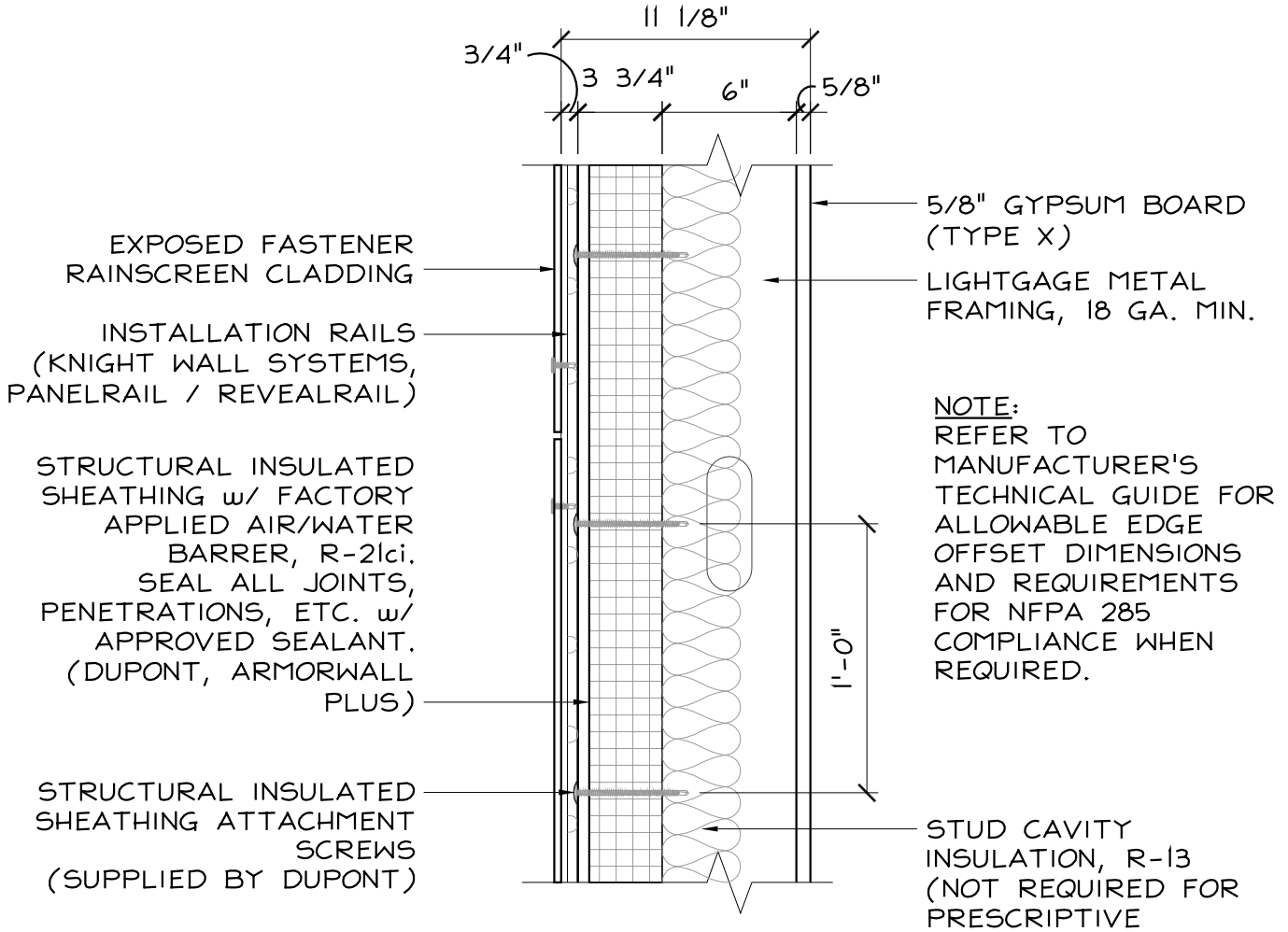
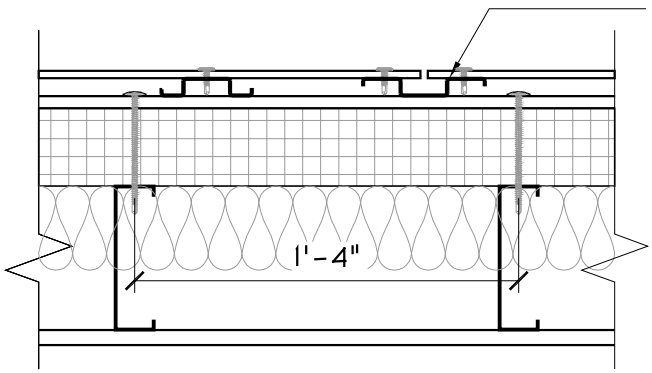
CODE = R-13 + R-10ci | U-0.055	BASE = R-21ci | U-0.042*	OPTIMIZED = R-21ci + R-13 | U-0.035*





PACE
BUILDING ENVELOPE REPRESENTATIVES
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781-541-5060 | www.pacerepresentatives.com

EXPOSED FASTENER CLADDING SYSTEM w/
ARMORWALL PLUS STRUCTURAL INSULATED SHEATHING
& METAL STUD BACK-UP
(IECC 2021 - CLIMATE ZONE 5)

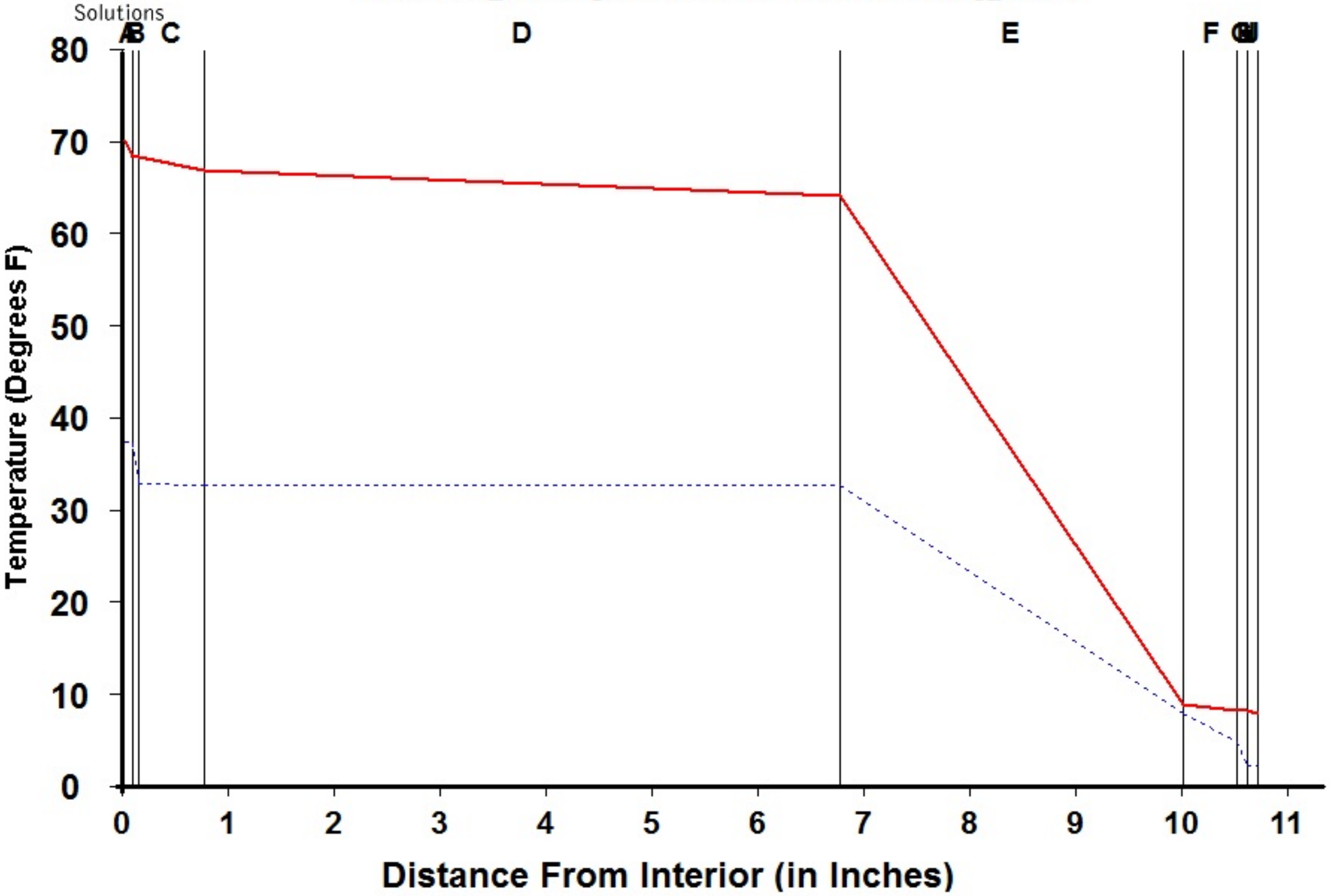
Sketch #:
SK-01
Sheet: 1 of 1

Reference detail. Registered professional in responsible charge to review prior to use | Revised: September 2023
** Assembly U-Factor based on ASHRAE Standard 90.1 Table A3.3 for insulation values noted*

Dewpoint Analysis - Dow Chemical

Building Solutions

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
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	Wall Air Space NonRefl	6.000	1.01	0.006
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	23.43	2.514

Interface	Temperature Actual	Temperature Dewpnt	Accum (oz/day-sqft)
-A	70.00	37.17	0.000
AB	68.19	37.16	0.000
BC	68.17	32.75	0.000
CD	66.68	32.54	0.000
DE	63.99	32.48	0.000
EF	8.82	7.69	0.000
FG	8.15	4.68	0.000
GH	8.15	2.11	0.000
HI	8.15	2.11	0.000
IJ	8.15	2.11	0.000
JK	7.70	2.08	0.000
KL			
L-			

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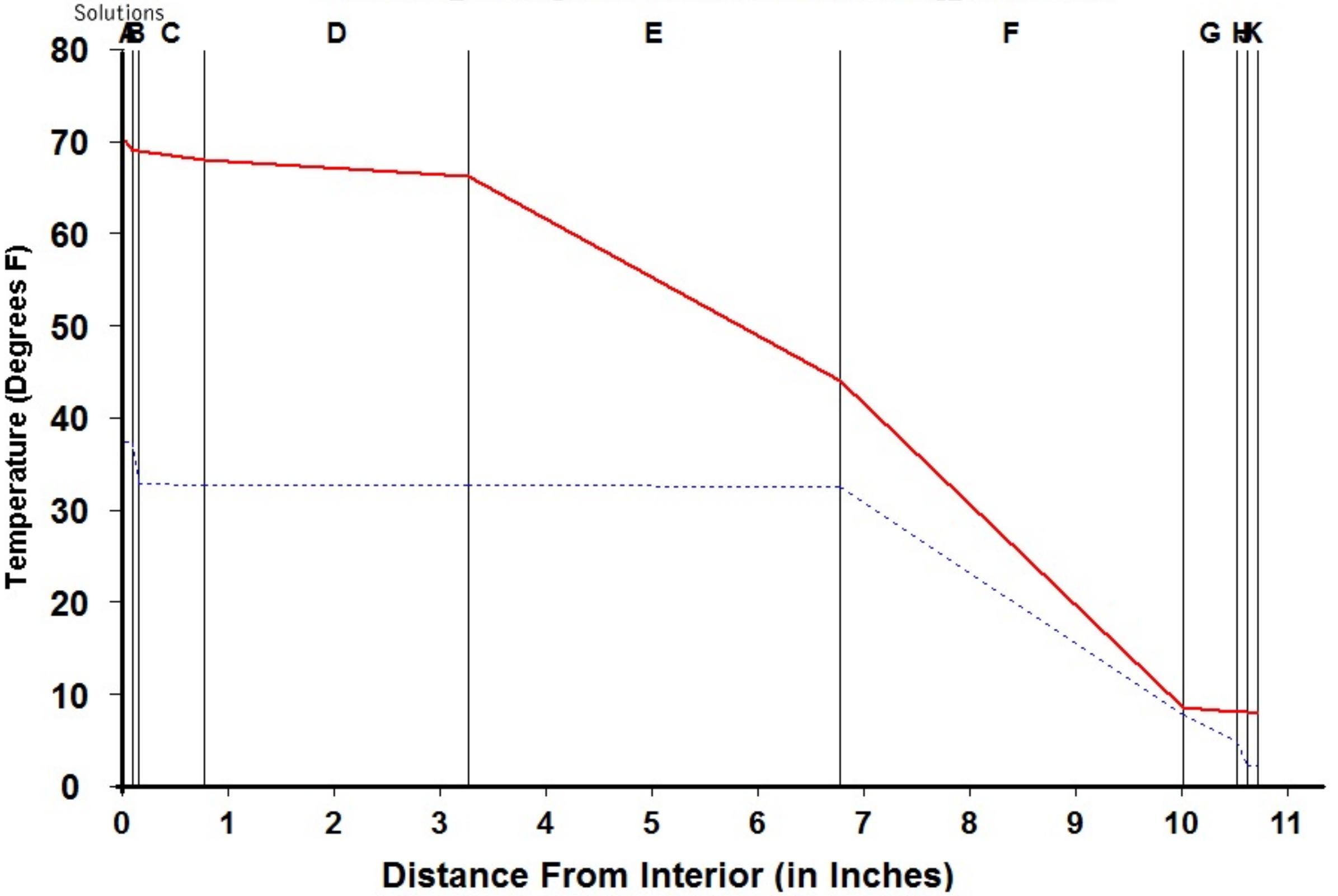
Dewpoint Analysis - Dow Chemical

Building Solutions

PACE BOD_Cladding w/ Structural Insulated Sheathing_R-21ci + R-13



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	Wall Air Space NonRefl	2.500	1.01	0.006
E	Batt Insulation	3.500	13.00	0.010
F	Polyurethane Insulation	3.250	20.75	1.788
G	MgO Board	0.500	0.25	0.112
H	Air/Water Barrier	0.100	0.00	0.083
I	Wall Air Space NonRefl	0.000	0.00	0.000
J	Ventilated Cladding	0.000	0.00	0.000
K	Out Air Film Winter	0.100	0.17	0.001
L				
	TOTAL	10.725	36.43	2.524

Interface	Temperature Actual	Temperature Dewpnt	Accum (oz/day-sqft)
-A	70.00	37.17	0.000
AB	68.84	37.16	0.000
BC	68.82	32.77	0.000
CD	67.86	32.56	0.000
DE	66.14	32.50	0.000
EF	43.90	32.41	0.000
FG	8.42	7.67	0.000
GH	7.99	4.67	0.000
HI	7.99	2.11	0.000
IJ	7.99	2.11	0.000
JK	7.99	2.11	0.000
KL	7.70	2.08	0.000
L-			

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