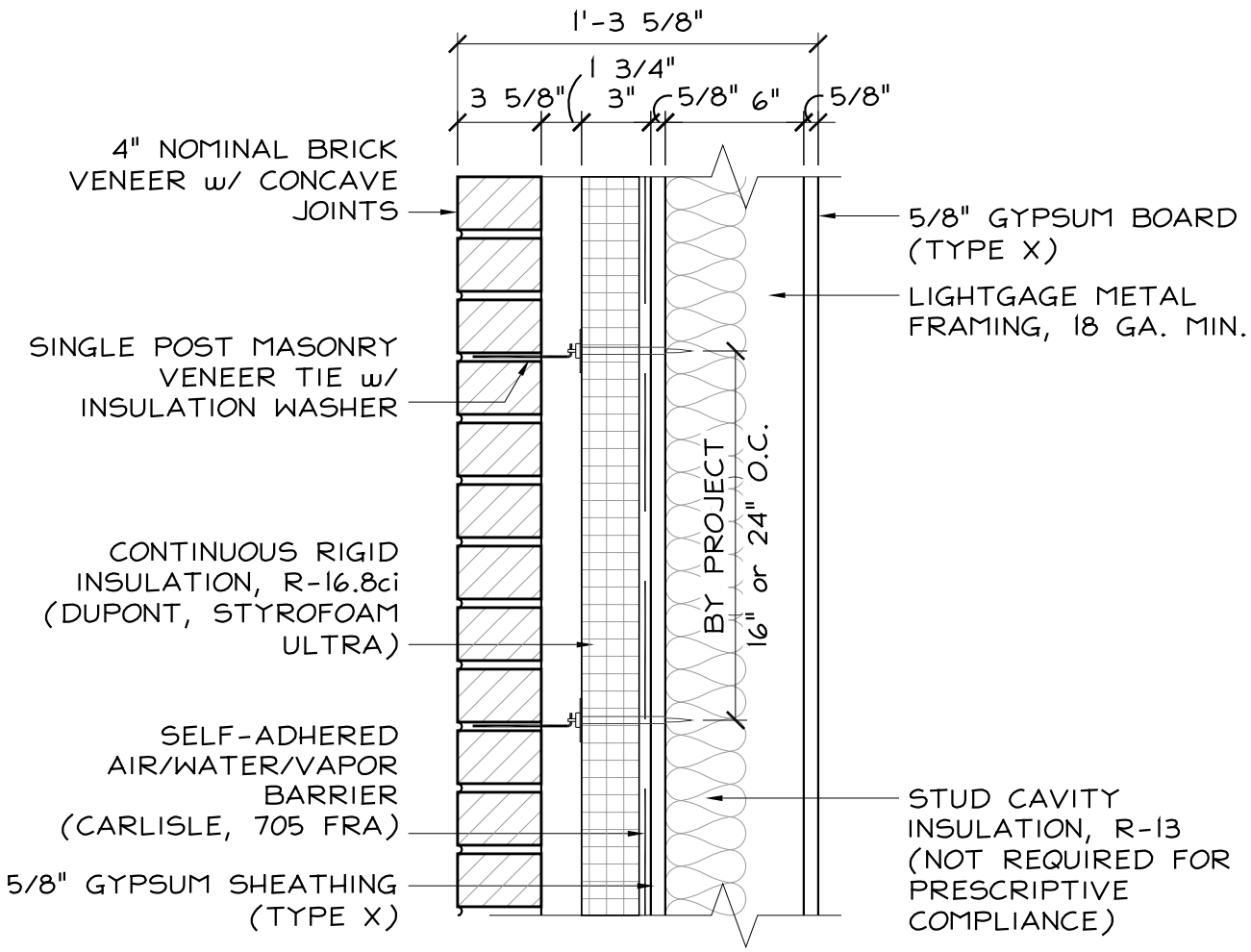
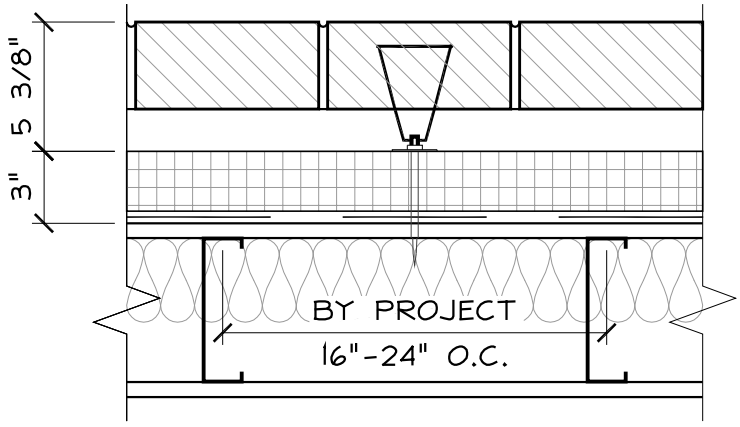
CODE = R-13 + R-10ci | U-0.055	BASE = R-16.8ci | U-0.052*	OPTIMIZED = R-16.8ci + R-13 | U-0.040*





NFPA 285 NOTES:

- MAXIMUM 3" STYROFOAM INSULATION THICKNESS
- USE HEADER CONDITIONS AS SHOWN IN MANUFACTURER'S EXTENSION REPORT

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/ RIGID INSULATION
& METAL STUD BACK-UP
(IECC 2021 - CLIMATE ZONE 5)

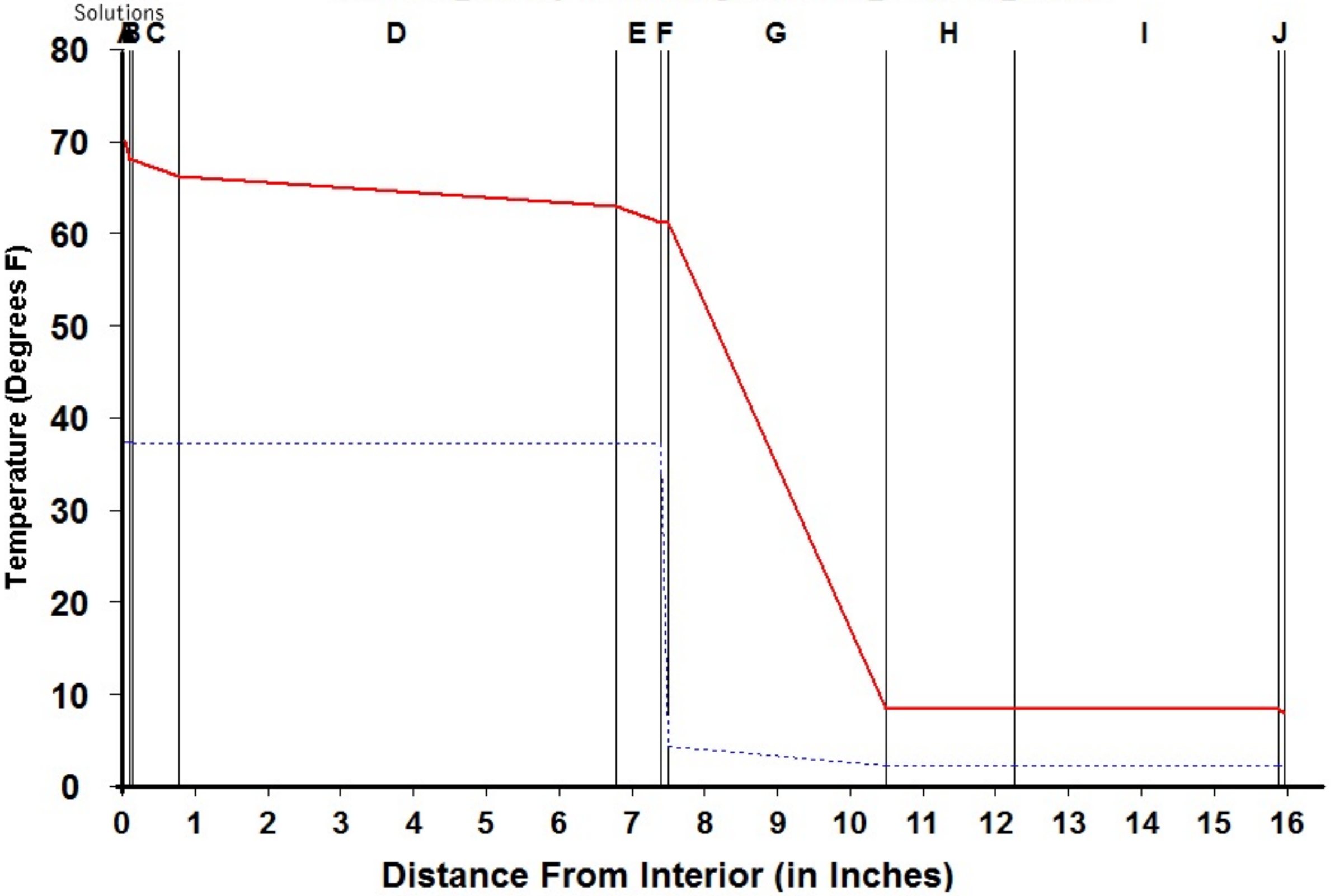
Sketch #:
SK-01
Sheet: 1 of 1

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 and 16" o.c. stud spacing*

Dewpoint Analysis - Dow Chemical

Building Solutions

PACE BOD_Masonry Veneer w/ Rigid Insulation_Metal Stud_R-16.8ci



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	1.05	0.006
E	Gypsum Sheathing	0.625	0.56	0.027
F	CCW 705FRA	0.100	0.01	100.000
G	DuPont Styrofoam Ultra	3.000	16.80	2.865
H	Wall Air Space NonRefl	1.750	0.00	0.000
I	Masonry Veneer (vented)	3.625	0.00	0.000
J	Out Air Film Winter	0.100	0.17	0.001
K				
L				
	TOTAL	15.975	19.84	103.423

Interface	Temperature Actual	Temperature Dewpnt	Accum (oz/day-sqft)
-A	70.00	37.17	0.000
AB	67.86	37.17	0.000
BC	67.83	37.06	0.000
CD	66.07	37.06	0.000
DE	62.78	37.06	0.000
EF	61.02	37.05	0.000
FG	60.99	4.25	0.000
GH	8.23	2.08	0.000
HI	8.23	2.08	0.000
IJ	8.23	2.08	0.000
JK	7.70	2.08	0.000
KL			
L-			

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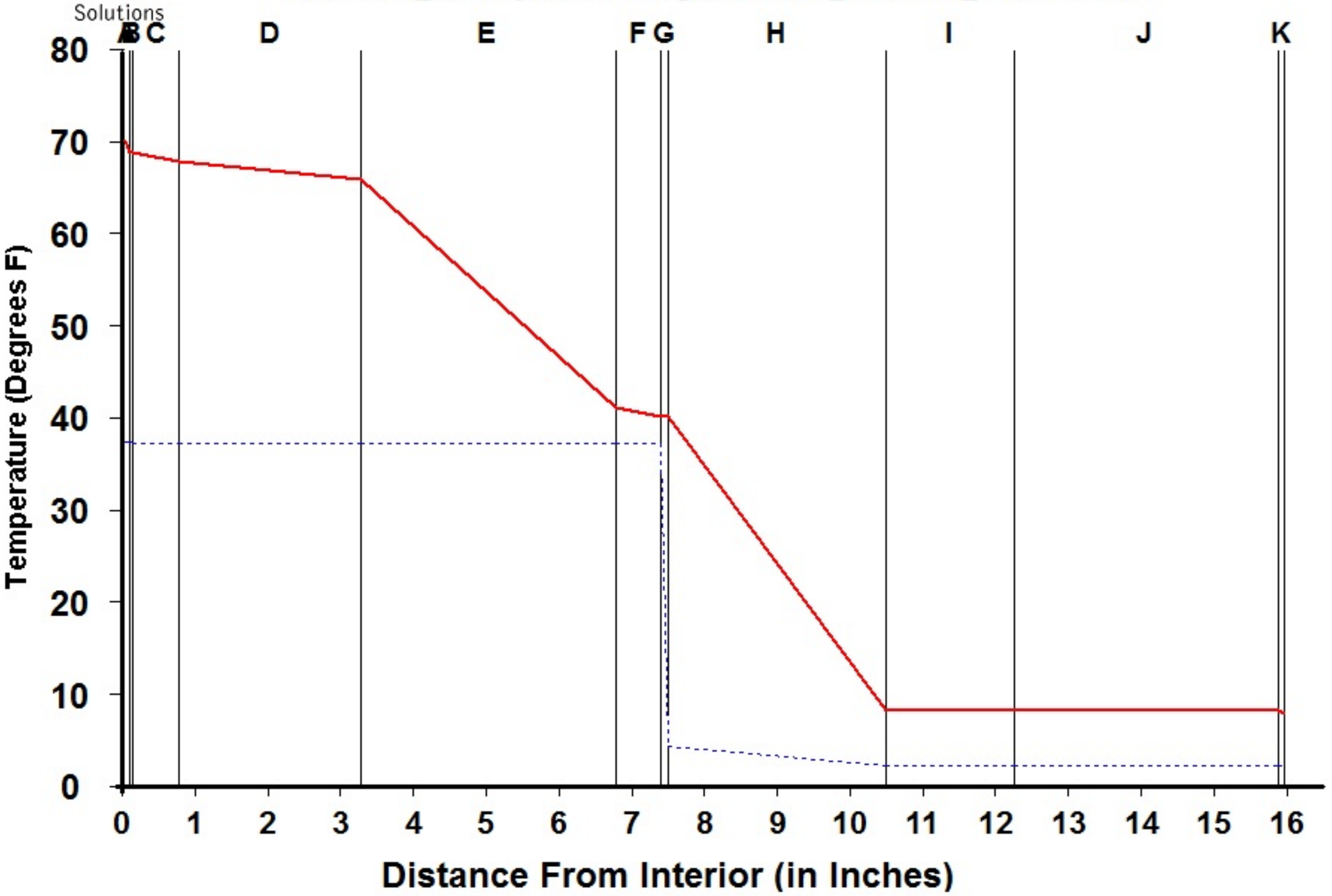
Dewpoint Analysis - Dow Chemical

Building Solutions

PACE BOD_Masonry Veneer w/ Rigid Insulation_Metal Stud_R-16.8ci + 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	Gypsum Sheathing	0.625	0.56	0.027
G	CCW 705FRA	0.100	0.01	100.000
H	DuPont Styrofoam Ultra	3.000	16.80	2.865
I	Wall Air Space NonRefl	1.750	0.00	0.000
J	Masonry Veneer (vented)	3.625	0.00	0.000
K	Out Air Film Winter	0.100	0.17	0.001
L				
	TOTAL	15.975	32.80	103.433

Interface	Temperature Actual	Temperature Dewpnt	Accum (oz/day-sqft)
-A	70.00	37.17	0.000
AB	68.71	37.17	0.000
BC	68.69	37.06	0.000
CD	67.63	37.06	0.000
DE	65.71	37.06	0.000
EF	41.02	37.06	0.000
FG	39.95	37.05	0.000
GH	39.93	4.25	0.000
HI	8.02	2.08	0.000
IJ	8.02	2.08	0.000
JK	8.02	2.08	0.000
KL	7.70	2.08	0.000
L-			

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