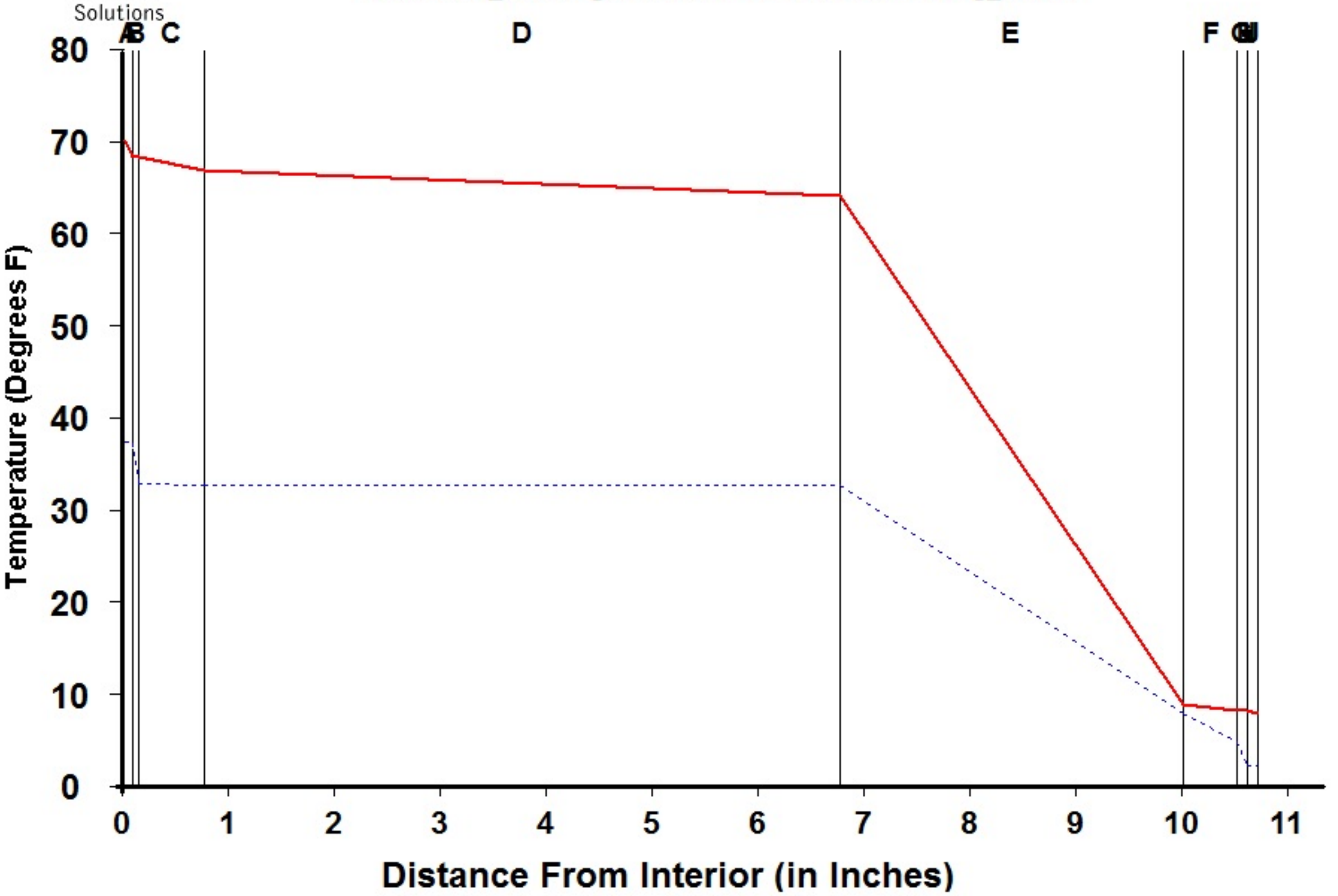
Dewpoint Analysis - Dow Chemical

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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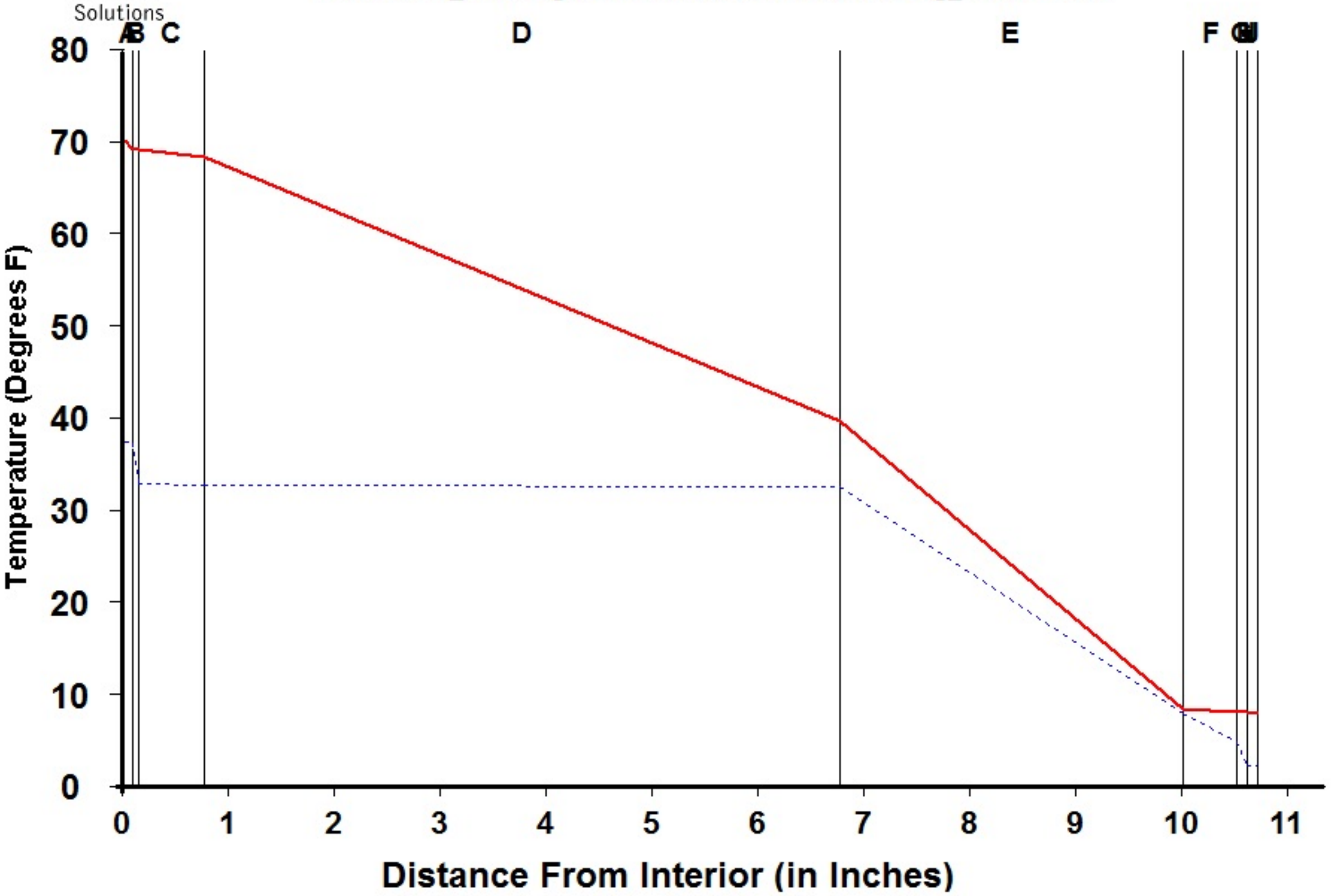
Dewpoint Analysis - Dow Chemical

Building Solutions

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

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