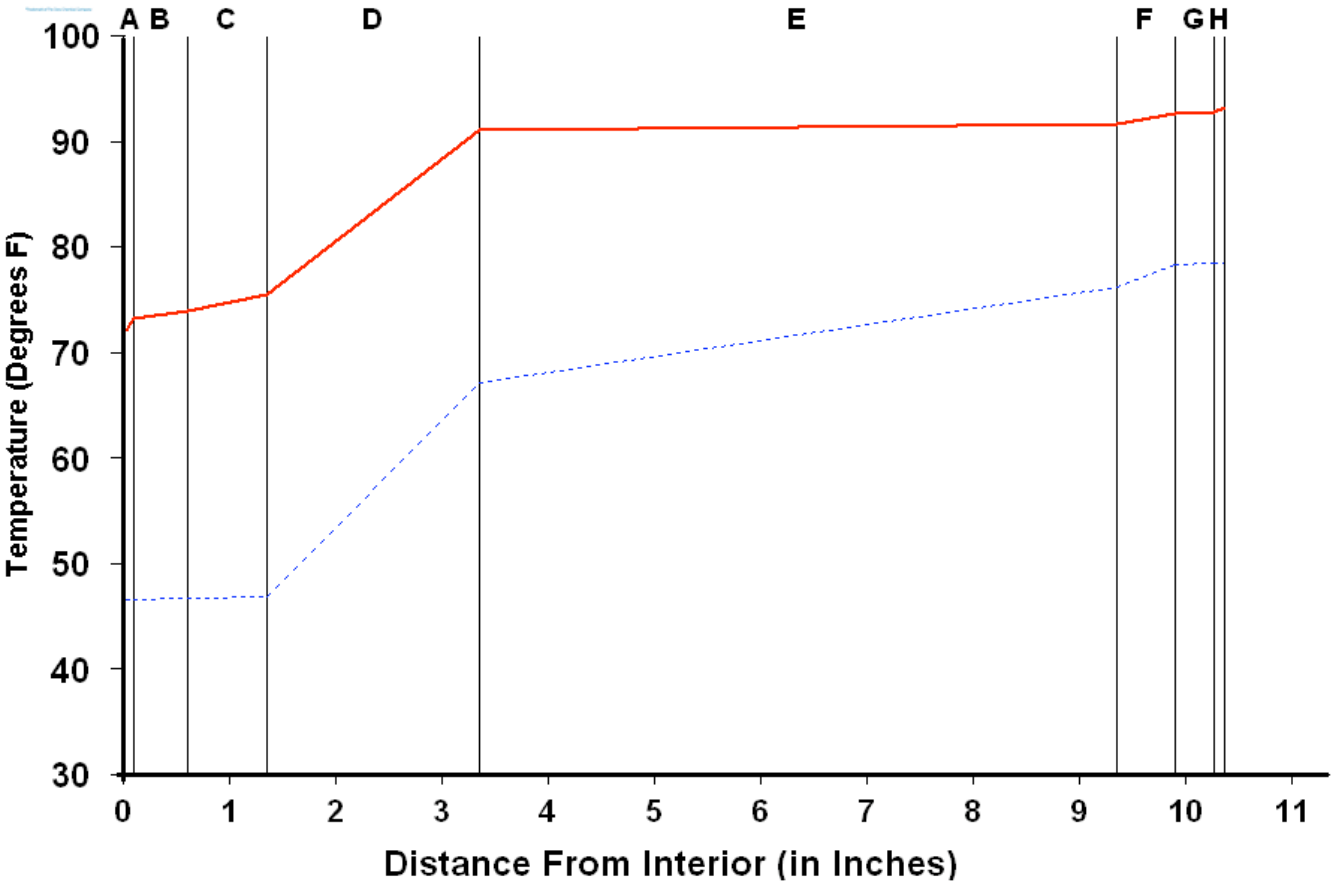
Dewpoint Analysis - Dow Chemical

Efficient Wall two



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	72.0	93
Humidity	40.0	62.5

	Component Name	Thickness	R-Value	Rep
A	Interior Air Film	0.100	0.68	0.001
B	Drywall .5in	0.500	0.45	0.014
C	Wall Air Space NonRefl	0.750	1.01	0.006
D	STYROFOAM Square Edge	2.000	10.00	1.800
E	Concrete	6.000	0.32	1.240
F	14mm Magnesium board	0.550	0.66	0.350
G	Cementitious coating	0.375	0.08	0.020
H	Out Air Film Summer	0.100	0.25	0.001
I				
J				
K				
L				
	TOTAL	10.375	13.45	3.432

Interface	Temperature Actual	Temperature Dewpnt	Accum (oz/day-sqft)
-A	72.00	46.37	0.000
AB	73.06	46.38	0.000
BC	73.76	46.61	0.000
CD	75.34	46.70	0.000
DE	90.95	66.95	0.000
EF	91.45	76.00	0.000
FG	92.48	78.17	0.000
GH	92.61	78.30	0.000
HI	93.00	78.30	0.000
IJ			
JK			
KL			
L-			

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