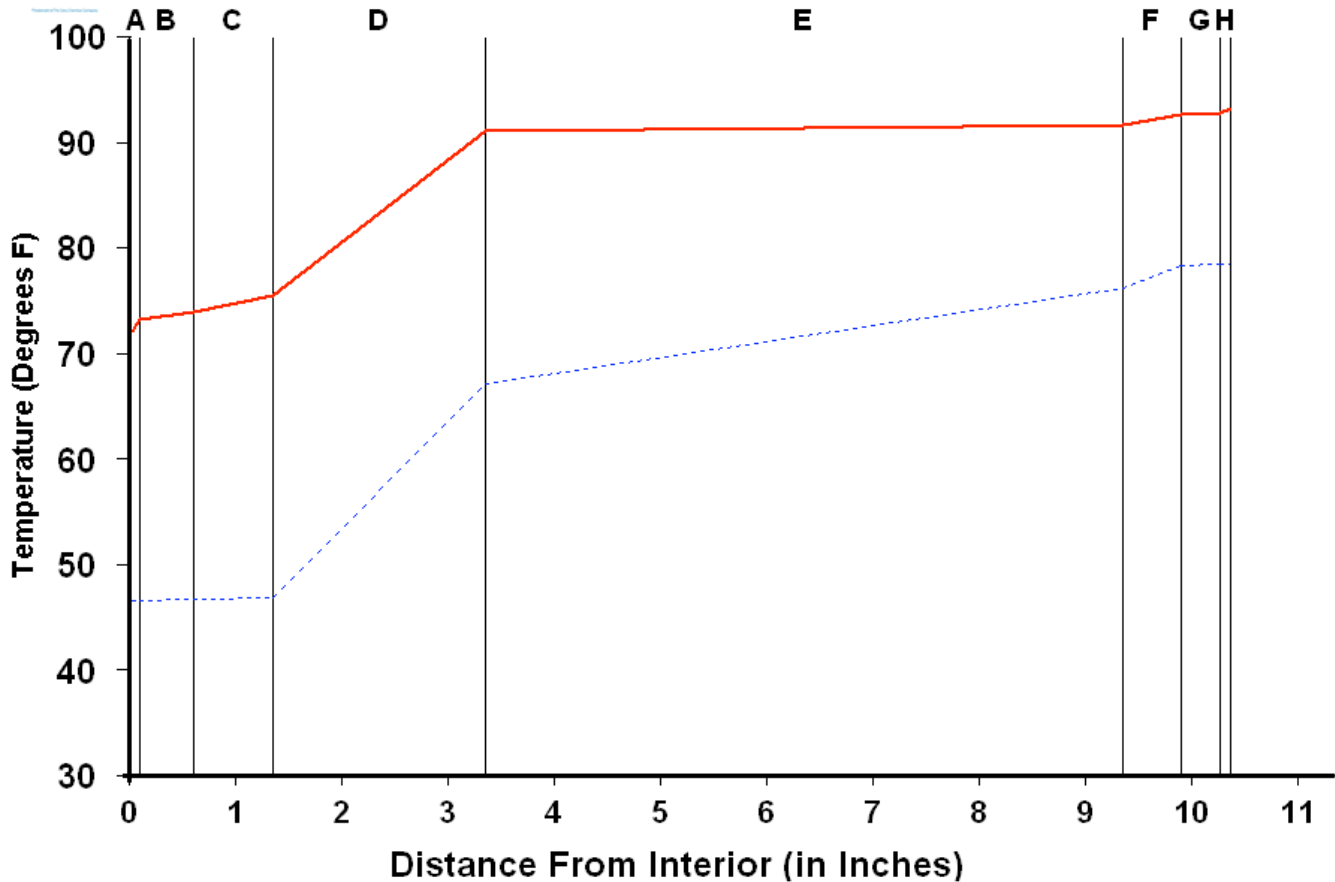




# Dewpoint Analysis - Dow Chemical

Efficient Wall two



Legend	
— (Red)	Actual Temperature
- - - (Blue)	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	Interface	Temperature Actual	Temperature Dewpnt	Accum (oz/day-sqft)
A Interior Air Film	0.100	0.68	0.001	-A	72.00	46.37	0.000
B Drywall .5in	0.500	0.45	0.014	AB	73.06	46.38	0.000
C Wall Air Space NonRefl	0.750	1.01	0.006	BC	73.76	46.61	0.000
D STYROFOAM Square Edge	2.000	10.00	1.800	CD	75.34	46.70	0.000
E Concrete	6.000	0.32	1.240	DE	90.95	66.95	0.000
F 14mm Magnesium board	0.550	0.66	0.350	EF	91.45	76.00	0.000
G Cementitious coating	0.375	0.08	0.020	FG	92.48	78.17	0.000
H Out Air Film Summer	0.100	0.25	0.001	GH	92.61	78.30	0.000
I				HI	93.00	78.30	0.000
J				IJ			
K				JK			
L				KL			
				L-			
<b>TOTAL</b>	<b>10.375</b>	<b>13.45</b>	<b>3.432</b>				

NOTICE: This calculation is based on the theory of Water Vapor Migration presented in the ASHRAE 1993 Fundamentals Handbook. Actual performance may vary depending upon air infiltration, workmanship, and building materials. Since the information is provided without charge, The Dow Chemical Company assumes **no obligation or liability** for its use.