

SNS® Thermal Block
“The Performer”

R and U Value with 10" deep Zee Purlins

U Value **0.043**
R Value **23.290**

Test Report: T10-58 Sample 8, dated June 18, 2010, John Manville Technical Center

Unfaced insulation layer thickness (in) over SNS block 3
Faced insulation layer thickness (in) in Cavity 8
Zee purlin depth (in) 10
MBI blanket rated R value 35
Equivalent blanket thickness (in) (23.29/3.25) 7.166

MBI Blanket Rated R Value	Insulation Layer Thickness (in)			R Value	U Value
	Upper	Cavity	Suspended		
R-35	3	8	0	23.29	0.0430
R-45	3	8	3	33.04	0.0303
R-48	3	8	4	36.29	0.0276
R-52	3	8	5	39.54	0.0253
R-54	3	8	6	42.79	0.0234
R-60	3	8	8	49.29	0.0203

Sample Calculation

R value with 3" thick suspended insulation $23.29 + 3 \times 3.25 = 33.04$
U value with 3" thick suspended insulation $1/33.04 = 0.0303$
R value for 1" blanket insulation was assumed as 3.25.

