

SNS® Thermal Block
“The Performer”

R and U Value with 8" deep Zee Purlins

U Value **0.048**
R Value **20.833**

*Test Report: T10-29 Sample 7, dated April 8, 2010, John Manville Technical Center
The above test was conducted with 0.75" thick EPS thermal block installed under the interior side of purlin. U value obtained from test was 0.047. U value was increased to 0.048 for use without EPS thermal block.*

Unfaced insulation layer thickness (in) over SNS block 3
Faced insulation layer thickness (in) in Cavity 6
Zee purlin depth (in) 8
MBI blanket rated R value 29
Equivalent blanket thickness (in) (20.83/3.25) 6.410

MBI Blanket Rated R Value	Insulation Layer Thickness (in)			R Value	U Value
	Upper	Cavity	Suspended		
R-29	3	6	0	20.83	0.0480
R-39	3	6	3	30.58	0.0327
R-42	3	6	4	33.83	0.0296
R-45	3	6	5	37.08	0.0270
R-48	3	6	6	40.33	0.0248
R-54	3	6	8	46.83	0.0214

Sample Calculation

R value with 3" thick suspended insulation $20.83 + 3 \times 3.25 = 30.58$
U value with 3" thick suspended insulation $1/30.58 = 0.0327$
R value for 1" blanket insulation was assumed as 3.25.

