

SNS® Thermal Block
“The Performer”

R and U Value with 10" deep Zee Purlins

U Value	from test	0.042
R Value		23.750
<i>Test Report: T10-29 Sample 8, dated April 8, 2010, John Manville Technical Center</i>		
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)	(23.75/3.25)	7.308

MBI Blanket Rated R Value	Insulation Layer Thickness (in)			R Value	U Value
	Upper	Cavity	Suspended		
R-35	3	8	0	23.75	0.0420
R-45	3	8	3	33.50	0.0299
R-48	3	8	4	36.75	0.0272
R-52	3	8	5	40.00	0.0250
R-54	3	8	6	43.25	0.0231
R-60	3	8	8	49.75	0.0201

Sample Calculation

R value with 3" thick suspended insulation $23.75 + 3 \times 3.25 = 33.5$
U value with 3" thick suspended insulation $1/33.5 = 0.0299$
R value for 1" blanket insulation was assumed as 3.25.

