



244 Blair Bend Road
 Loudon, TN 37774
 Phone: (865) 458-3998
 Website: www.vanhooseco.com

R/U Value Certification for Enviro-Cast Basement Wall System (10 foot panels)

R-Values:

Concrete		0.08	R/inch
EPS Insulation	(@70 degrees F)	4.4	R/inch
Interior Air Film		0.68	R/inch
Exterior Air Film		0.17	R/inch
Sheetrock		0.9	R/inch

Section @ Concrete Ribs:

	<u>R-Values</u>	<u>U Values</u>
7 1/2" Concrete Rib	0.6	
1 1/2" EPS Insulation	6.6	
Air Film (Int & Ext)	0.85	
1 1/2" Air Space	1.02	
1/2" Sheet Rock	0.45	
Totals	9.52	0.105042

Section @ Cavity:

2" Concrete Face	0.16	
7" EPS Insulation	30.8	
Air Film (Int & Ext)	0.85	
1 1/2" Air Space	1.02	
1/2" Sheet Rock	0.45	
Totals	33.28	0.030048

Composite R Values:

Rib Spacing	19.125	inches
Rib Width Ratio	0.188542	
Cavity Width Ratio	0.811458	

Rib Values	Rib U x Rib Ratio	0.019805
Cavity Values	Cavity U x Cavity Ratio	0.024383
	Total U	0.044188
	Total R	22.63

