Cross Section & Energy Efficiencies

As Per Calculation Above

0.0000

0.0061

N/A

0.0000

13.0000

N/A

Paralell Path RSI

6 mil poly vapour barrier

1/2" Gypsum Board

Interior Air Film

			Ceiling	g Below Att	ic Space					Wall Ab
	Zone 4	Required RSI: 6	5.91	Equivalent Required R-Value:	39.3			Zone 4	Required RSI:	2.78
<u>(</u>	Calculation for	<u>RSI (Paralell Pa</u>	ath):					Calculation for R	<u>SI (Paralell F</u>	⊃ath):
				100			_			
		11				89			23	
[% area of framing (Af)] from Table A-9.36.2.4.(1)A +			- +	[% area of cavity (Ac)] from Table A-9.36.2.4.(1)A			[% area of framir	g (Af)] from Table A	A-9.36.2.4.(1)A	
	89	Х	0.0085		89	Х	0.0188	140	Х	0.0085
	Thickness (mm) for 2x4 bottom chord of truss		RSI per mm		Thickness (mm) for insulation within cavity		RSI per mm	Thickness (mm) for 2x6 framed wall		RSI per mm
	[F	RSIf] from Table A-9.36.2.4.(1)D				[RSIc] from Table A-9.36.2.4	.(1)D	[RSIf] from Table A-9.36.2.4.(1)D
<u>(</u>	Calculation for	RSI (Continuou	<u>s Path):</u>					Calculation for R	<u>SI (Continuc):</u>	ous Path):
	Item Description Thicknes			Thickness (mm)	RSI per mm	RSI	Equivalent Effective R-Value	Item Description		
	Exterior Air Film N/A			N/A	N/A	0.0300	0.17	Exterior Air Film		
	min. 300mm blown-in insulation above bottom chords			300.0000	0.0188	5.6250	31.96	Horizontal Fibercement Siding		
						0.0000	0.00		1/2" Air Cavity	

1.4733

0.0000

0.0793

0.1000

0.0000

0.0000

7.308

Total Effective

RSI

8.37

0.00

0.45

0.57

0.00

0.00

41.52

Equivalent

Effective

R-Value





Equivalent R-Value: 15.8

1/2" Fir Ply Sheeting

Paralell Path RSI - As per Calculation Above

6 mil poly vapour barrier

1/2" Gypsum Board

Interior Air Film



N/A N/A		0.030	0.17	
8.0000	0.0030	0.024	0.14	
N/A	N/A	0.160	0.91	
12.5000	0.0111	0.139	0.79	
As Per Calcu	lation Above	2.356	13.39	
N/A	N/A	0.000	0.00	
13.0000	0.0061	0.079	0.45	
N/A	N/A	0.120	0.68	
		0.000	0.00	
		0.000	0.00	
		2.91	16.525	
		Total Effective RSI	Equivalent Effective R-Value	

Unheated Floor Above Frost Line

Required RSI: 1.96 Equivalent R-Value: 11.1

Calculation for RSI (Paralell Path):

Zone 4

			100			_
	0				0	
[% area of framing (Af)] from Table A-9.36.2.4.(1)A				[% area of cavity (Ac)] from Table A-9.36.2.4.(1)A		
0	Х	0.0000	+	0	Х	0.0000
Thickness (mm) for 2x4 bottom chord of truss		RSI per mm		Thickness (mm) for insulation within cavity		RSI per mm
[RSI	f] from Table A-9.36.2.4.(1)D		[RS	Ic] from Table A-9.36.2.4	l.(1)D

Calculation for RSI (Continuous Path):

Item Description	Thickness (mm)	RSI per mm	RSI	Equivalent Effective R-Value
Interior Air Film	N/A	N/A	0.160	0.17
4" Concrete Floor	102.0000	0.0004	0.041	0.23
			0.000	0.00
Paralell Path RSI - N/A for Concrete Floor	As Per Calcu	lation Above	0.000	0.00
			0.000	0.00
50mm (2") styrospan (Extruded Polystyrene Foam, Type 2, 3, or 4)	50.0000	N/A	1.760	10.00
			0.000	0.00
			0.000	0.00
			0.000	0.00
		•	1.961	10.402
			Total Effective RSI	Equivalent Effective R-Value

Zone 4						
2010	Required RSI: 1	.99	Equivalent R-Value:	11.3		
Calculation for F	<u>RSI (Paralell Pa</u>	<u>th):</u>				
_			100			-
	0				0	
[% area of framin	ng (Af)] from Table A-9.	.36.2.4.(1)A	 +	[% area of	cavity (Ac)] from Table	A-9.36.2.4
0	х	0.0000		0	Х	
Thickness (mm) for 2x4 framed wall		RSI per mm		Thickness (mm) for R-12 Insulation		F
[RSI	If] from Table A-9.36.2.4.(1)D				[RSIc] from Table A-9.36.2.4.	.(1)D
		<u>/</u> _		I	1	
	Item Description		Thickness (mm)	RSI per mm	RSI	Equiva
Exterior air	Item Description film (N/A as it's under c	ground)	Thickness (mm) N/A	RSI per mm N/A	RSI 0.0000	Equiva
Exterior air 8" Ci	Item Description film (N/A as it's under g ement Foundation Wall	ground)	Thickness (mm) N/A 203.2000	RSI per mm N/A 0.0004	RSI 0.0000 0.0813	Equiva
Exterior air 8" Ce	Item Description film (N/A as it's under g ement Foundation Wall	ground)	Thickness (mm) N/A 203.2000	RSI per mm N/A 0.0004	RSI 0.0000 0.0813 0.0000	Equiva
Exterior air 8" Ce	Item Description film (N/A as it's under g ement Foundation Wall	ground)	Thickness (mm) N/A 203.2000	RSI per mm N/A 0.0004	RSI 0.0000 0.0813 0.0000 0.0000	Equiva
Exterior air 8" Ce	Item Description film (N/A as it's under g ement Foundation Wall aralell Path RSI - N/A	ground)	Thickness (mm) N/A 203.2000 As Per Calcu	RSI per mm N/A 0.0004	RSI 0.0000 0.0813 0.0000 0.0000 0.0000	Equiva
Exterior air 8" Co Pa R-13 Johns	Item Description film (N/A as it's under g ement Foundation Wall aralell Path RSI - N/A	ground) I	Thickness (mm) N/A 203.2000 As Per Calcu N/A	RSI per mm N/A 0.0004 Ilation Above	RSI 0.0000 0.0813 0.0000 0.0000 0.0000 2.2100	Equiva
Exterior air 8" Ca Pa R-13 Johns	Item Description film (N/A as it's under g ement Foundation Wall aralell Path RSI - N/A s Manville Foil-faced ins	ground) I	Thickness (mm) N/A 203.2000 As Per Calcu N/A	RSI per mm N/A 0.0004 Ilation Above	RSI 0.0000 0.0813 0.0000 0.0000 2.2100 0.0000	Equiva
Exterior air 8" Co Pa R-13 Johns	Item Description film (N/A as it's under of ement Foundation Wall aralell Path RSI - N/A s Manville Foil-faced ins Interior Air Film	ground) I	Thickness (mm) N/A 203.2000 As Per Calcu N/A N/A	RSI per mm N/A 0.0004 Ilation Above N/A	RSI 0.0000 0.0813 0.0000 0.0000 2.2100 0.0000 0.1200	Equiva
Exterior air 8" Co Pa R-13 Johns	Item Description film (N/A as it's under of ement Foundation Wall aralell Path RSI - N/A & Manville Foil-faced ins Interior Air Film	ground) I	Thickness (mm) N/A 203.2000 As Per Calcu N/A N/A	RSI per mm N/A 0.0004 Ilation Above N/A N/A	RSI 0.0000 0.0813 0.0000 0.0000 2.2100 0.0000 0.1200 0.0000	Equiva
Exterior air 8" Co Pa R-13 Johns	Item Description film (N/A as it's under of ement Foundation Wall aralell Path RSI - N/A & Manville Foil-faced ins Interior Air Film	ground) I	Thickness (mm) N/A 203.2000 As Per Calcu N/A N/A	RSI per mm N/A 0.0004 Ilation Above N/A N/A	RSI 0.0000 0.0813 0.0000 0.0000 2.2100 0.0000 0.1200 0.0000 0.0000 0.0000	Equiva
Exterior air 8" Co Pa R-13 Johns	Item Description film (N/A as it's under g ement Foundation Wall aralell Path RSI - N/A Manville Foil-faced ins Interior Air Film	ground) I sulation	Thickness (mm) N/A 203.2000 As Per Calcu N/A N/A	RSI per mm N/A 0.0004 Ilation Above N/A N/A	RSI 0.0000 0.0813 0.0000 0.0000 2.2100 0.0000 0.1200 0.0000 0.0000 2.411	Equiva

Total Effective RSI

Effective R-Value

27'-0½" [8.24m] Average Grade to Peak

Average Grade 15.0m

	DWG NO:	DESIGN BY:	
1234 COLWOOD DRIVE COLWOOD, BC	4 OF 5		
	DATE:	DRA WN BY:	Colwood, B.C.