

Permit # 0
 Property address: 0
 Type of Construction: 0
 Owner: 0
 Builder: 0

**Building Department
 Insulation Certification**



| | |
|--|--------|
| 9.36.1.3 | |
| Prescriptive 9.36.2 to 9.36.4 | YES |
| Part 9 groups C,D,E, F-3, under 300 m2 | |
| Performance 9.36.5 | NO |
| Part 9 groups C, under 20% common area | |
| National Energy Code of Canada for Buildings(NECB)-- | NO |
| Non Group C or F-2 over 300 m2 to NECB | |
| Exempt | NO |
| Not conditioned space or SFD not intended for use in winter months | |
| Climate Zone 4 to 8 | Zone 4 |

| |
|---------------------------------|
| Insulation Contractor: |
| Insulators Business Licence NO: |
| Telephone No: |
| Signature of installer |
| Date: |

NOTE: In Zone 4 the Required RSI is the same with or without a HRV
NOTE: 1- RSI (m2.K)/w)= 5.678263 R Value

| | Required | | Actual | | RSI To be | | Total | | Total | | OK | |
|---|--------------|-------------|---------------|--------------------|---------------------|-----------|------------------|-----------|-----------|-----------|-----------|------------|
| | Eff. RSI | R Value | Eff. RSI | R Value | made up | R Value | RSI | R Value | | | | |
| Walls 2x6 @ 16" o.c | 2.78 | 15.79 | | 2.36 | 13.4007007 | 0.42 | 2.38487046 | 2.819 | 16.007023 | | OK | |
| Ceilings below attics (trusses @ 24"oc) Blown-in | 6.91 | 39.24 | | 0 | 0 | 6.91 | 39.23679733 | 6.91 | 39.236797 | | OK | |
| Floors over Garage (@ 24" o.c Less 0.16 RSI) | 4.51 | 25.61 | | 4.298886827 | 24.41021 | 0.431 | 2.447331353 | 4.7298868 | 26.857541 | | OK | |
| Floors over Unheated Space un-enclosed (Cantilevers) | 4.67 | 26.52 | | 4.384330121 | 24.8953795 | 0.362 | 2.055531206 | 4.7463301 | 26.950911 | | OK | |
| Cathedral Ceilings (@ 24"oc) | 4.67 | 26.52 | | 4.653376 | 26.4230928 | 0.19 | 1.07886997 | 4.843376 | 27.501963 | | OK | |
| Basement Walls (crawlspc) | 1.99 | 11.3 | | 1.765 | 10.0221342 | 0.23 | 1.30600049 | 1.995 | 11.328135 | | OK | |
| unheated Floors below frost line (No Insulation Req.) | n/a | n/a | | n/a | n/a | n/a | n/a | n/a | n/a | | n/a | |
| unheated Floors Above frost line 1.2m around perimeter | 1.96 | 11.13 | | 1.62 | 9.19878606 | 0.34 | 1.93060942 | 1.96 | 11.129395 | | OK | |
| unheated Floors over heated crawlspc (No insl Req.) | 0 | 0 | | | | | | | | | OK | |
| Heated floors with 2.25" XPS Styrofoam insulation | 2.32 | 13.17 | | 1.99 | 11.299618 | 0.34 | 1.93060942 | 2.33 | 13.230353 | | OK | |
| Fenestration and Doors | 1.8 | | | | | | | | | | OK | |
| Skylights | 2.9 | | | | | | | | | | OK | |
| Slab on grade with integral footings (Monolithic slabs) | 1.96 | 11.13 | | 1.62 | | | | | | | n/a | |
| Walls Bonus Room (truss web 2 24" o.c., no sheathing) | 2.78 | 15.79 | | 2.680317379 | 15.219547 | 0.2 | 1.1356526 | 2.8803174 | 16.3552 | | OK | |
| Walls 2x6 @ 16" o.c adjoining enclosed un-conditioned space | 2.62 | 14.88 | | 2.359513209 | 13.3979366 | 0.31 | 1.76026153 | 2.6695132 | 15.158198 | | OK | |
| Ceilings below attics (trusses @ 24"oc) R-40 Batts | 6.91 | 39.24 | | 6.805153452 | 38.6414511 | 0.19 | 1.07886997 | 6.9951535 | 39.720321 | | OK | |
| under Ducts outside of thermal enclosure | 2.78 | 15.79 | | | | | | | | | | |
| Attic hatches 75mm (3") Xps or R-20 fiberglass batt | 2.6 | 14.76 | | | | | | | | | | |
| Exterior Walls | | | | | | | | | | | | |
| Interior Film Walls | 0.12 | | | | | | | | | | | |
| 12.7mm Gypsum board Int. finish | 0.08 | | | | | | | | | | | |
| 6 mill Poly (seal plastic film---negligible) | 0 | | | | | | | | | | | |
| 11mm OSB Strand board board | 0.108 | | | | | | | | | | | |
| Permeable Felt or Tyvek | 0.011 | | | | | | | | | | | |
| 13mm Air cavities | 0 | | | | | | | | | | | |
| Metal or vinyl Siding | 0.11 | | | | | | | | | | | |
| Exterior air film | 0.03 | | | | | | | | | | | |
| Total RSI of components in the assembly | 0.459 | | | | | | | | | | | |
| Ceilings | | | | | | | | | | | | |
| Interior Film | 0.11 | | | | | | | | | | | |
| 12.7mm Gypsum board Int. finish | 0.08 | | | | | | | | | | | |
| 6 mill Poly (seal plastic film---negligible) | N/A | | | | | | | | | | | |
| Exterior air film | N/A | | | | | | | | | | | |
| Total RSI of components in the assembly | 0.19 | | | | | | | | | | | |
| Floor over Garages (unconditioned enclosed Space) | | | | | | | | | | | | |
| Interior Film | 0.16 | | | | | | | | | | | |
| 18.5 softwood plywood | 0.161 | | | | | | | | | | | |
| 12.7mm Gypsum board Int. finish | 0.08 | | | | | | | | | | | |
| 6 mill Poly (seal plastic film---negligible) | N/A | | | | | | | | | | | |
| Exterior air film | 0.03 | | | | | | | | | | | |
| Total RSI of components in the assembly | 0.431 | | | | | | | | | | | |
| CATHEDRAL CEILINGS with vented air space above | | | | | | | | | | | | |
| Interior Film | 0.11 | | | | | | | | | | | |
| 12.7mm Gypsum board Int. finish | 0.08 | | | | | | | | | | | |
| 6 mill Poly (seal plastic film---negligible) | N/A | | | | | | | | | | | |
| Exterior air film | N/A | | | | | | | | | | | |
| Total RSI of components in the assembly | 0.19 | | | | | | | | | | | |
| Floor over Unheated Exterior Space | | | | | | | | | | | | |
| Interior Film | 0.16 | | | | | | | | | | | |
| 18.5 softwood plywood | 0.161 | | | | | | | | | | | |
| 12.7mm Gypsum board Int. finish | N/A | | | | | | | | | | | |
| permeable felt or Tyvek | 0.011 | | | | | | | | | | | |
| Exterior air film | 0.03 | | | | | | | | | | | |
| Total RSI of components in the assembly | 0.362 | | | | | | | | | | | |
| Crawlspc Walls | | | | | | | | | | | | |
| Interior Film Walls | 0.12 | | | | | | | | | | | |
| 12.7mm Gypsum board Int. finish | 0 | | | | | | | | | | | |
| 6 mill Poly (seal plastic film---negligible) | 0 | | | | | | | | | | | |
| 11mm OSB Strandboard board | 0 | | | | | | | | | | | |
| Air cavity | 0 | | | | | | | | | | | |
| 20mm to 40 mm Air cavities | 0 | | | | | | | | | | | |
| 200 mm (8") concrete wall | 0.08 | | | | | | | | | | | |
| Exterior air film | 0.03 | | | | | | | | | | | |
| Total RSI of components in the assembly | 0.23 | | | | | | | | | | | |
| 1 Exterior | | | | | | | | | | | | |
| Walls @ 16" | | | % AF | 23.00 | % AC | 77.00 | | Effective | RSI | Assembly | R Value | Installers |
| 140mm 2x6 | | | 1.19 | 3.34 | | | subtotal | Made up | TOTAL | | Installed | Initials |
| R 20 Batt | | | 19.33 | 23.053892 | | | 42.38 | 2.3595132 | 0.459 | 2.8185132 | | |
| Min. 2.78 | | | | | | | | | | | | |
| 2 Ceilings @ 24" | | | | | | | | | | | | |
| first 89mm 2x4 | | | 7 | 93 | | | RSI | | Assembly | | | |
| Blown in Fiberglass | | | 0.7565 | 1.6687 | | | Total | | RSI | | | |
| Min. 6.91 | | | 9.25313946 | 55.732007 | | | 64.98514641 | 1.5388132 | 0.19 | 1.7288132 | | |
| Balance mm | | Req RSI | RSI/mm | mm Mat | | | Balance required | | | 5.1811868 | | |
| | | 276.3299636 | 5.18118682 | 0.01875 | 276.3299636 | 365.32996 | | 0 | | | | |
| Total mm | | 89 | 365.329964 mm | 14.38304067 Inches | Blown in Fiberglass | | | | | 6.91 | | |
| 3 Ceilings @ 24" | | | | | | | | | | | | |
| first 89mm 2x4 | | | 7 | 93 | | | RSI | | Assembly | | | |
| Blown in cellulose | | | 0.7565 | 2.225 | | | Total | | RSI | | | |
| Min 6.91 | | | 9.25313946 | 41.797753 | | | 51.05089227 | 1.9588296 | 0.19 | 2.1488296 | | |
| Balance mm | | Req RSI | RSI/mm | mm Mat | | | Balance required | | | 4.7611704 | | |
| | | 253.9290868 | 4.76117038 | 0.01875 | 253.9290868 | | | | | | | |
| Total mm | | 89 | 342.929087 mm | 13.50111815 Inches | Blown in Cellulose | | | | | 6.91 | | |
| 4 Floors over | | | | | | | | | | | | |
| Garage2x10 @ 24" | | | 10 | 90 | | | RSI | | Assembly | | | |
| Min 4.51 | | | 1.9975 | 4.93 | | | Total | | RSI | | | |
| R 28 Batts | | | 5.00625782 | 18.255578 | | | 23.26183592 | 4.2988868 | 0.431 | 4.7298868 | | |
| 5 Floors over | | | | | | | | | | | | |
| Garage2x10 @ 16" | | | 13 | 87 | | | RSI | | Assembly | | | |
| Min 4.51 | | | 1.9975 | 5.46 | | | Total | | RSI | | | |
| R 31 Batts | | | 6.50813517 | 15.934066 | | | 22.4422011 | 4.4558909 | 0.19 | 4.6458909 | | |
| 6 Cathedral and Flat | | | | | | | | | | | | |
| Ceilings 2x10 @ 24" | | | 10 | 90 | | | RSI | | Assembly | | | |
| Min.4.67 | | | 1.9975 | 5.46 | | | Total | | RSI | | | |
| R 31 Batts | | | 5.00625782 | 16.483516 | | | 21.48977431 | 4.653376 | 0.19 | 4.843376 | | |
| 7 Cathedral and Flat | | | | | | | | | | | | |
| Ceilings 2x8 @ 24" | | | 10 | 90 | | | RSI | | Assembly | | | |
| Min.4.67 | | | 1.564 | 4.93 | | | Total | | RSI | | | |
| R 28 Batts | | | 6.39386189 | 18.255578 | | | 24.64943999 | 4.0568873 | 0.19 | 4.2468873 | | |
| Add 16.275mm EPS | | | 16.275 | mm x | 0.026 | 0.42315 | 4.2468873 | Short RSI | 0.4231127 | 4.6700373 | | |

| Basement Walls (crawl space) | |
|--|--------------|
| Interior Film Walls | 0.12 |
| 12.7mm Gypsum board Int. finish | 0.08 |
| 6 mill Poly (seal plastic film---negligible) | 0 |
| 11mm OSB Strandboard board | 0 |
| Air cavity | 0 |
| 20mm to 40 mm Air cavities | 0.18 |
| 200 mm (8") concrete wall | 0.08 |
| Exterior air film | 0.03 |
| Total RSI of components in the assembly | 0.49 |
| Bonus room Walls (Attic Truss web walls @ 24" o.c) | |
| Interior Film Walls | 0.12 |
| 12.7mm Gypsum board Int. finish | 0.08 |
| 6 mill Poly (seal plastic film---negligible) | 0 |
| 11mm OSB Strandboard board | 0 |
| Air cavity | 0 |
| 20mm to 40 mm Air cavities | 0 |
| Exterior air film | 0 |
| Total RSI of components in the assembly | 0.2 |
| Walls adjoining enclosed un-conditioned space (e.g.. Garage) | |
| Interior Film Walls | 0.12 |
| 12.7mm Gypsum board Int. finish | 0.08 |
| 6 mill Poly (seal plastic film---negligible) | 0 |
| 11mm OSB Strandboard board | 0 |
| Air cavity | 0 |
| 13mm Air cavities | 0 |
| 12.7mm Gypsum board Int. finish | 0.08 |
| Exterior air film | 0.03 |
| Total RSI of components in the assembly | 0.31 |
| Rim Joists | |
| Interior Film Walls | 0.12 |
| 12.7mm Gypsum board Int. finish | N/A |
| 6 mill Poly (seal plastic film---negligible) | 0 |
| 2x10 rim joist | 0.323 |
| Permeable Felt | 0.011 |
| 13mm Air cavities | 0.16 |
| Metal or vinyl Siding (Hollow backed) | 0.11 |
| Exterior air film | 0.03 |
| Total RSI of components in the assembly | 0.754 |
| Basement Floors Above frost line un-heated | |
| Interior Film Walls | 0.12 |
| 90 mm concrete | 0.22 |
| Total RSI of components in the assembly | 0.34 |
| Basement Floors Above frost line un-heated | |
| Interior Film Walls | 0.12 |
| 90 mm concrete | 0.22 |
| Total RSI of components in the assembly | 0.34 |
| Walls adjoining enclosed un-conditioned space (e.g.. Garage electrical panel) | |
| Interior Film Walls | 0.12 |
| 12.7mm Gypsum board Int. finish | 0.08 |
| 6 mill Poly (seal plastic film---negligible) | 0 |
| 11mm OSB Strandboard board | 0 |
| Air cavity | 0 |
| 13mm Air cavities | 0 |
| 12.7mm Gypsum board Ext. finish(n/a behind electrical panel) | 0 |
| Exterior air film | 0.03 |
| Total RSI of components in the assembly | 0.23 |

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|---------------------------|------------|-----------|-------------|------------------|---------|------------------|
| 8 Floors | 13 | 89 | | RSI | | Assembly |
| over | 1.9975 | 5.46 | | Total | | RSI |
| Exterior 2x10 @ 16" | 6.50813517 | 16.300366 | 22.80850147 | 4.3843301 | 0.362 | 4.7463301 |
| Min. 4.67 | | | | | | |
| R 31 Batts | | | | | | |
| 9 Crawl space below grade | % AF | % AC | | Effective | | Assembly |
| Walls Concrete 8" | 0.00 | 100.00 | | RSI | RSI | RSI |
| R 10 (67mm. 2.67") | 0 | 1.765 | | subtotal | Made up | TOTAL |
| Styrofoam | 0.00 | 56.657224 | 56.66 | 1.765 | 0.23 | 1.995 |
| Min. 1.99 | | | | | | |
| 10 Basement below grade | % AF | % AC | | Effective | | Assembly |
| Walls 8" conc. | 14.50 | 85.50 | | RSI | RSI | RSI |
| 89mm 2x4 @ 16" o.c | 0.7565 | 2.11 | | subtotal | Made up | TOTAL |
| R 12 Batt | 19.17 | 40.521327 | 59.69 | 1.6753634 | 0.49 | 2.1653634 |
| Min. 1.99 | | | | | | |
| 11 Bonus Rm | % AF | % AC | | Effective | | Assembly |
| Walls @ 24" | 16.00 | 84.00 | | RSI | RSI | RSI |
| 152mm full 6" wall | 1.19 | 3.52 | | subtotal | Made up | TOTAL |
| R 20 Batt | 13.45 | 23.863636 | 37.31 | 2.6803174 | 0.2 | 2.8803174 |
| Min. 2.78 | | | | | | |
| 12 Gr to House | % AF | % AC | | Effective | | Assembly |
| Walls @ 16" | 23.00 | 77.00 | | RSI | RSI | RSI |
| 140mm 2x6 | 1.19 | 3.34 | | subtotal | Made up | TOTAL |
| R 20 Batt | 19.33 | 23.053892 | 42.38 | 2.3595132 | 0.31 | 2.6695132 |
| Min. 2.62 | | | | | | |
| 13 Ceilings attics | | 7 | 93 | | | Assembly |
| first 2.11 RSI | 0.7565 | 2.11 | | Total | | RSI |
| 2x4 @24" o.c | 9.25313946 | 44.075829 | 53.32896884 | 1.8751535 | 0.19 | 2.0651535 |
| | | | | | | |
| | 0 | 100 | | | | |
| Balance RSI | 0 | 4.93 | | | | |
| R 40 Batt | 0 | 20.283976 | 20.28397566 | 4.93 | 0 | 4.93 |
| Min. 6.91 | | | | 6.8051535 | Total | 6.9951535 |
| 14 Cathedral and flat | | 10 | 90 | | | Assembly |
| Ceilings 2x8 @ 24" | 1.564 | 5.655 | | Total | | RSI |
| 188.5 mm (7.42") | 6.39386189 | 15.915119 | 22.30898126 | 4.4824996 | 0.19 | 4.6724996 |
| Type 3 EPS(white) | | | | | | |
| Min. 4.67 | | | | | | |
| 15 Rim Joists | % AF | % AC | | Effective | | Assembly |
| Joists @ 16" | 23.00 | 77.00 | | RSI | RSI | RSI |
| 152mm | 1.292 | 2.46 | | subtotal | Made up | TOTAL |
| R 20 Batt | 17.80 | 31.300813 | 49.10 | 2.0365491 | 0.754 | 2.7905491 |
| Min. 2.78 | | | | | | |
| 16 above frost un-heated | | | | | | |
| Basement floors | 0 | 100 | | RSI | RSI | Assembly |
| 90mm conc. | 0 | 1.62 | | Total | Made up | RSI |
| 46.3mm EXP (1.83") | 0 | 61.728395 | 61.72839506 | 1.62 | 0.34 | 1.96 |
| 1.2m around perimeter | | | | | | |
| Min. 1.96 | | | | | | |
| 17 above frost heated | | | | | | |
| Basement floors | 0 | 100 | | RSI | RSI | Assembly |
| 90mm conc. | 0 | 1.99 | | Total | Made up | RSI |
| 57mm EXP (2.25") | 0 | 50.251256 | 50.25125628 | 1.99 | 0.34 | 2.33 |
| 1.2m under slab | | | | | | |
| Min. 2.32 | | | | | | |
| 18 Bonus Rm | % AF | % AC | | Effective | | Assembly |
| Walls @ 16" R-19 | 19.00 | 81.00 | | RSI | RSI | RSI |
| First 89mm 2x4 | 0.75658 | 2.11 | | subtotal | Made up | TOTAL |
| Advanced walls | 25.11 | 38.388626 | 63.50 | 1.5747626 | 0.2 | 1.7747626 |
| Balance RSI 1.23 | 100% | 1.23 | | | | 1.23 |
| Min. 2.78 | | | | | | 3.00 |
| 19 Bonus Rm | % AF | % AC | | Effective | | Assembly |
| Walls @ 16" | 19.00 | 81.00 | | RSI | RSI | RSI |
| 152mm full 6" wall | 1.19 | 3.87 | | subtotal | Made up | TOTAL |
| Advanced walls | | | | | | |
| R 22 Batt | 15.97 | 20.930233 | 36.90 | 2.7102754 | 0.2 | 2.9102754 |
| Min. 2.78 | | | | | | |
| 20 Gr to House | % AF | % AC | | Effective | | Assembly |
| Walls @ 16" | 23.00 | 77.00 | | RSI | RSI | RSI |
| Behind Elec. Panel | 1.19 | 3.422 | | subtotal | Made up | TOTAL |
| 97 mm EXP (3.85") | 19.33 | 22.501461 | 41.83 | 2.3906749 | 0.23 | 2.6206749 |
| Min. 2.62 | | | | | | |

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|-----------------------|------------|-----------|-------------|------------------|-------|------------------|
| 21 Cathedral and Flat | | 10 | 90 | | | Assembly |
| Ceilings truss @ 16" | 1.9975 | 5.46 | | Total | | RSI |
| R 31 Batts | 5.00625782 | 16.483516 | 21.48977431 | 4.653376 | 0.19 | 4.843376 |
| Min.4.67 | | | | | | |
| 22 Floors | 13 | 89 | | RSI | | Assembly |
| over | 1.9975 | 5.329 | | Total | | RSI |
| Exterior 2x10 @ 16" | 6.50813517 | 16.70107 | 23.20920479 | 4.3086353 | 0.362 | 4.6706353 |
| Min. 4.67 | | | | | | |
| 152.26mm EXP styro | | | | | | |
| Cathedral | | 10 | 90 | | | Assembly |
| Ceilings 2x8 @ 24" | 1.564 | 5.655 | | Total | | RSI |
| 161.5mm (6.36") | 6.39386189 | 15.915119 | 22.30898126 | 4.4824996 | 0.19 | 4.6724996 |
| Type 3 Exp (SM) | | 0.035 | 161.5714286 | 5.655 | | |
| Min. 4.67 | | 5.655 | 0.035 | 161.57143 | | |
| Cathedral | | 14.5 | 85.5 | | | Assembly |
| Ceilings Joists @ 12" | 1.9975 | 5.68 | | Total | | RSI |
| R 32.376 Batts | 7.25907384 | 15.052817 | 22.31189074 | 4.4819151 | 0.19 | 4.6719151 |
| Min.4.67 | | | | | | |

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|--|-------------|
| Interior Film | 0.11 |
| 12.7mm Gypsum board Int. finish | 0.08 |
| 6 mill Poly (seal plastic film---negligible) | N/A |
| Exterior air film | N/A |
| Total RSI of components in the assembly | 0.19 |

| | | | | | | | | |
|--------------------|------------|-----------|-------------|------------------|-------|------------------|--|--|
| Floors | 12 | 88 | | RSI | | Assembly | | |
| over | 1.9975 | 4.93 | | Total | | RSI | | |
| Garage2x10 @ 19.2" | 6.00750939 | 17.849899 | 23.85740797 | 4.1915702 | 0.431 | 4.6225702 | | |
| Min 4.51 | | | | | | | | |
| R 28 Batts | | | | | | | | |

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|--------------------|------------|-----------|-------------|------------------|------|------------------|--|--|
| Cathedral and flat | 10 | 90 | | RSI | | Assembly | | |
| Ceilings 2x8 @ 24" | 1.565 | 5.818632 | | Total | | RSI | | |
| | 6.38977636 | 15.467553 | 21.85732956 | 4.5751243 | 0.19 | 4.7651243 | | |
| ISO Ridged 6.0" | mm | inches | mmxRSI/mm | RSI/mm | | RSI@ 162.6mm | | |
| Min. 4.67 | 152.4 | 6 | 5.818632 | 0.03818 | | | | |

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|----------------------|------------|-----------|-------------|------------------|-------|------------------|--|--|
| Floors | 20 | 80 | | RSI | | Assembly | | |
| over | 1.9975 | 5.516 | | Total | | RSI | | |
| Garage2x10 @ 12" | 10.0125156 | 14.503263 | 24.51577888 | 4.0790056 | 0.431 | 4.5100056 | | |
| Min 4.51 | | | | | | | | |
| R 31.44 Batts | | | | | | | | |

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|---------------------------------|------|-----------|---------------|-------------|---------|-------------|--|--|
| Crawspace walls with average of | | | | | | | | |
| over 24" above grade | % AF | % AC | | Effective | | Assembly | | |
| Walls Concrete 8" | 0.00 | 100.00 | R Value below | RSI | RSI | RSI | | |
| R 14.5 (98.1mm. 3.87") | 0 | 2.55 | 14.47957065 | subtotal | Made up | TOTAL | | |
| Styrofoam EPS type 1 | 0.00 | 39.215686 | 39.22 | 2.55 | 0.23 | 2.78 | | |
| Min. 2.78 | | 98.076923 | 3.861288462 | | | | | |

| | | | | | | | | |
|---------------------------------|------|-----------|---------------|-------------|---------|-------------|--|--|
| Crawspace walls with average of | | | | | | | | |
| over 24" above grade | % AF | % AC | | Effective | | Assembly | | |
| Walls Concrete 8" | 0.00 | 100.00 | R Value below | RSI | RSI | RSI | | |
| R 14.5 (91mm. 3.59") | 0 | 2.55 | 14.47957065 | subtotal | Made up | TOTAL | | |
| Styrofoam EPS type 2 | 0.00 | 39.215686 | 39.22 | 2.55 | 0.23 | 2.78 | | |
| Min. 2.78 | | 91.071429 | 3.585482143 | | | | | |

| | | | | | | | | |
|---------------------------------|------|-----------|---------------|-------------|---------|-------------|--|--|
| Crawspace walls with average of | | | | | | | | |
| over 24" above grade | % AF | % AC | | Effective | | Assembly | | |
| Walls Concrete 8" | 0.00 | 100.00 | R Value below | RSI | RSI | RSI | | |
| R 14.5 (85mm. 3.35") | 0 | 2.55 | 14.47957065 | subtotal | Made up | TOTAL | | |
| Styrofoam EPS type 3 | 0.00 | 39.215686 | 39.22 | 2.55 | 0.23 | 2.78 | | |
| Min. 2.78 | | 85 | 3.34645 | | | | | |

| | | | | | | | | |
|---------------------------------|------|-----------|---------------|-------------|---------|-------------|--|--|
| Crawspace walls with average of | | | | | | | | |
| over 24" above grade | % AF | % AC | | Effective | | Assembly | | |
| Walls Concrete 8" | 0.00 | 100.00 | R Value below | RSI | RSI | RSI | | |
| R 14.5 (72.86mm. 2.87") | 0 | 2.55 | 14.47957065 | subtotal | Made up | TOTAL | | |
| Styrofoam XPS (SM type) | 0.00 | 39.215686 | 39.22 | 2.55 | 0.23 | 2.78 | | |
| Min. 2.78 | | 72.857143 | 2.868385714 | | | | | |

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|---------------------------------|------|-----------|---------------|-------------|---------|-------------|--|--|
| Crawspace walls with average of | | | | | | | | |
| over 24" above grade | % AF | % AC | | Effective | | Assembly | | |
| Walls Concrete 8" | 0.00 | 100.00 | R Value below | RSI | RSI | RSI | | |
| R 14.5 (64.8mm. 2.55") | 0 | 2.55 | 14.47957065 | subtotal | Made up | TOTAL | | |
| ISO impermiably faced | 0.00 | 39.215686 | 39.22 | 2.55 | 0.23 | 2.78 | | |
| Min. 2.78 | | 64.77013 | 2.55 | | | | | |

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|---------------------------------|------|-----------|---------------|-------------|---------|-------------|--|--|
| Crawspace walls with average of | | | | | | | | |
| less than 24" above grade | % AF | % AC | | Effective | | Assembly | | |
| Walls Concrete 8" | 0.00 | 100.00 | R Value below | RSI | RSI | RSI | | |
| R10 (67.7mm. 2.67") | 0 | 1.76 | 9.99374288 | subtotal | Made up | TOTAL | | |
| Styrofoam EPS type 1 | 0.00 | 56.818182 | 56.82 | 1.76 | 0.23 | 1.99 | | |
| Min. 1.99 | | 67.692308 | 2.665046154 | | | | | |

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|---------------------------------|------|-----------|---------------|-------------|---------|-------------|--|--|
| Crawspace walls with average of | | | | | | | | |
| less than 24" above grade | % AF | % AC | | Effective | | Assembly | | |
| Walls Concrete 8" | 0.00 | 100.00 | R Value below | RSI | RSI | RSI | | |
| R 10 (62.86mm. 2.48") | 0 | 1.76 | 9.99374288 | subtotal | Made up | TOTAL | | |
| Styrofoam EPS type 2 | 0.00 | 56.818182 | 56.82 | 1.76 | 0.23 | 1.99 | | |
| Min.1.99 | | 62.857143 | 2.474685714 | | | | | |

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|---------------------------------|------|-----------|---------------|-------------|---------|-------------|--|--|
| Crawspace walls with average of | | | | | | | | |
| less than 24" above grade | % AF | % AC | | Effective | | Assembly | | |
| Walls Concrete 8" | 0.00 | 100.00 | R Value below | RSI | RSI | RSI | | |
| R 10 (58.67mm. 2.3") | 0 | 1.76 | 9.99374288 | subtotal | Made up | TOTAL | | |
| Styrofoam EPS type 3 | 0.00 | 56.818182 | 56.82 | 1.76 | 0.23 | 1.99 | | |
| Min.1.99 | | 58.666667 | 2.309706667 | | | | | |

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|---------------------------------|------|-----------|---------------|-------------|---------|-------------|--|--|
| Crawspace walls with average of | | | | | | | | |
| less than 24" above grade | % AF | % AC | | Effective | | Assembly | | |
| Walls Concrete 8" | 0.00 | 100.00 | R Value below | RSI | RSI | RSI | | |
| R 10 (50.3mm. 1.98") | 0 | 1.76 | 9.99374288 | subtotal | Made up | TOTAL | | |
| Styrofoam XPS (SM type) | 0.00 | 56.818182 | 56.82 | 1.76 | 0.23 | 1.99 | | |
| Min. 1.99 | | 50.285714 | 1.979748571 | | | | | |

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|---------------------------------|------|-----------|---------------|-------------|---------|-------------|--|--|
| Crawspace walls with average of | | | | | | | | |
| less than 24" above grade | % AF | % AC | | Effective | | Assembly | | |
| Walls Concrete 8" | 0.00 | 100.00 | R Value below | RSI | RSI | RSI | | |
| R 10 (44.7mm. 1.76") | 0 | 1.76 | 9.99374288 | subtotal | Made up | TOTAL | | |
| ISO impermiably faced | 0.00 | 56.818182 | 56.82 | 1.76 | 0.23 | 1.99 | | |
| Min. 1.99 | | 44.704089 | 1.76 | | | | | |

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|-----------------------------|--------|-----------|---------------|------------------|---------|------------------|--|--|
| Basement walls with average | | | | | | | | |
| of over 24" above grade | % AF | % AC | | Effective | | Assembly | | |
| Walls 8" conc. With | 14.50 | 85.50 | R Value below | RSI | RSI | RSI | | |
| 140mm 2x6 @ 16" o.c | 0.7565 | 3.49 | 19.81713787 | subtotal | Made up | TOTAL | | |
| R 20 Batt | 19.17 | 24.498567 | 43.67 | 2.2901226 | 0.49 | 2.7801226 | | |
| Min. 2.78 | | | | | | | | |

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|---|-------------|
| 8" concrete crawspace walls with no framed wall with an average of over 2ft. Above grade | |
| Interior Film Walls | 0.12 |
| 12.7mm Gypsum board Int. finish | 0 |
| 6 mill Poly (seal plastic film---negligible) | 0 |
| 11mm OSB Strandboard board | n/a |
| Air cavity | n/a |
| 20mm to 40 mm Air cavities | 0 |
| 200 mm (8") concrete wall | 0.08 |
| Exterior air film | 0.03 |
| Total RSI of components in the assembly | 0.23 |

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|---|-------------|
| 8" Conc. Basement and crawspace walls with added framed interior wall with an average of over 2ft. above grade | |
| Interior Film Walls | 0.12 |
| 12.7mm Gypsum board Int. finish | 0.08 |
| 6 mill Poly (seal plastic film---negligible) | 0 |
| 11mm OSB Strandboard board | n/a |
| Air cavity | n/a |
| 20mm to 40 mm Air cavities | 0.18 |
| 200 mm (8") concrete wall | 0.08 |
| Exterior air film | 0.03 |
| Total RSI of components in the assembly | 0.49 |

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|---|-------------|
| Conc. Basement Walls incl. crawspace walls over 2ft. Above grade | |
| Interior Film Walls | 0.12 |
| 12.7mm Gypsum board Int. finish | 0 |
| 6 mill Poly (seal plastic film---negligible) | 0 |
| 11mm OSB Strandboard board | n/a |
| Air cavity | n/a |
| 20mm to 40 mm Air cavities | 0.18 |
| 200 mm (8") concrete wall | 0.08 |
| Exterior air film | 0.03 |
| Total RSI of components in the assembly | 0.41 |