



3368 Cockshutt Road R.R. 1
 Scotland, ON Canada N0E 1R0
 Phone: 519-443-4951
 Fax: 519-443-4987
 Toll Free: 1-800-668-0311

Return On Investment: Examples of Energy Savings Using Insta-Insulation

House 1 Description:

Location: Brantford, ON
 Year build: 2002

4-bedroom house
 1-story house with full basement,
 1 room above garage, 2-car garage

Total heated area – 4,200 square feet



Efficient Insulation Package

Insulation in House:

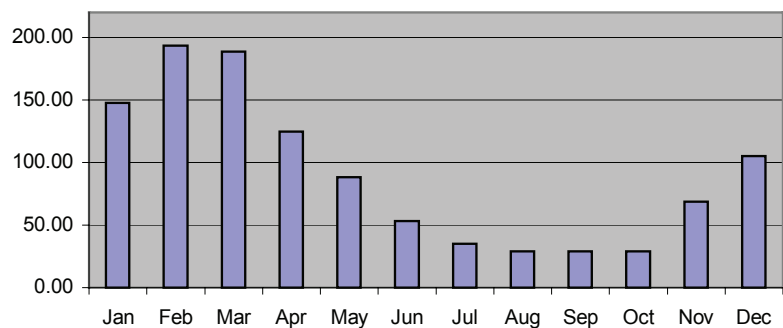
- Main Walls – Sprayed polyurethane foam R-14
 2x4 wooden frame studs
 1" polystyrene board R-5 Total R- 19
- Attic – Blown cellulose insulation R-40, Partially Cathedral ceiling blown R-40
- Basement Walls - Sprayed polyurethane foam R-15, Studded walls 1" space between walls and studs, no vapor barrier required in the walls when using foam.
- Basement Floor – Insta-Panels® R-12 – no vapour barrier necessary
- Garage Ceiling - Sprayed with 3" of polyurethane foam R-20
- Heating Ducts- Encapsulated with polyurethane foam in garage ceiling 2" of foam

Note: Efficient Insulation Package eliminates the need for dehumidifier in basement during the summer.

Natural Gas Usage Profile:

Month	Heating only	Total Gas bill
Jan	118.66	147.56
Feb	164.29	193.20
Mar	159.73	188.63
Apr	95.84	124.74
May	59.33	88.23
Jun	24.34	53.24
Jul	6.08	34.99
Aug	0.00	28.90
Sep	0.00	28.90
Oct	0.00	28.90
Nov	39.55	68.46
Dec	76.06	104.97
	743.88	1090.73

Natural Gas Usage per month [\$]



Energy Consumption

\$0.18 per square foot
 per year
 This Home



Total Natural Gas Bill
 \$ 1,090.73 per year
 (Tax Included)



3368 Cockshutt Road R.R. 1
 Scotland, ON Canada N0E 1R0
 Phone: 519-443-4951
 Fax: 519-443-4987
 Toll Free: 1-800-668-0311

**Return On Investment: Examples of Energy Savings Using Insta-Insulation
 Cont...**

House 2 Description
 (Same as House 1)

Location: Brantford, ON
 Year build: 2002

4-bedroom house
 1-story house with full basement,
 1 room above garage, 2-car garage



Total heated area – 4,200 square feet

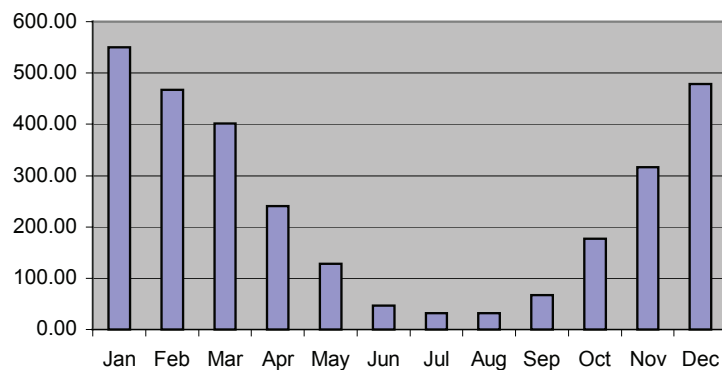
Basic Insulation Package (Basic Building Code)
Insulation Description:

- Main Walls – 2 x 6 wooden frame studs insulated with fiberglass plus vapor barrier
- Attic – Blown cellulose insulation R-40, Partially Cathedral ceiling blown R-40
- Basement Walls - Top 4 foot – R-12
- Basement Floor – No insulation
- Garage Ceiling - Fiberglass blanket R-28

Natural Gas Usage Profile:

Month	Heating only	Total Gas bill
Jan	518.25	549.79
Feb	435.25	466.79
Mar	369.56	401.10
Apr	208.45	239.99
May	96.21	127.75
Jun	14.87	46.41
Jul	0.27	31.81
Aug	0.00	31.54
Sep	35.69	67.23
Oct	145.81	177.35
Nov	284.51	316.05
Dec	447.41	478.95
	2556.28	2934.76

Natural Gas Usage per month [\$]



Total Natural Gas Bill
\$ 2,934.76 per year
 (Tax Included)

Energy Consumption

\$0.61 per square foot
 per year
 This Home





3368 Cockshutt Road R.R. 1
 Scotland, ON Canada N0E 1R0
 Phone: 519-443-4951
 Fax: 519-443-4987
 Toll Free: 1-800-668-0311

COMPARISON OF INSULATION COSTS OF HOUSE 1 vs. HOUSE 2

Basic Insulation Package (House 2)		Efficient Insulation Package (House 1)	
Walls on 1 st floor – fiberglass bats	\$ 840	Walls on 1 st floor – Sprayed with foam	\$1,500
Ceiling - blown fiberglass R-40	\$1,000	Ceiling - blown cellulose R-40	\$1,000
Basement walls – fiberglass blankets 4 ft.	\$ 525	Basement walls - Sprayed with foam full high	\$2,200
Garage ceiling R-28 fiberglass bats	\$ 675	Garage ceiling - Sprayed with foam	\$1,400
Ceiling 2 nd floor R 40 and roof R-32 bats	\$ 800	Ceiling 2 nd floor R 40 and roof R-32 bats	\$ 800
Rooms 2 nd floor – fiberglass bats	\$ 500	Rooms 2 nd floor - Sprayed with foam	\$1,500
		Basement floor – Insta-Panels	\$ 750
TOTAL	\$4,340		\$9,150

Observation: Yes, it will cost almost twice as much to insulate a house with the Efficient Insulation Package (house 1), however here is a comparison of the energy consumption/savings to show that it is the better investment.

DIFFERENCES IN ENERGY CONSUMPTION

Basic Insulation Package (House 2)		Efficient Insulation Package (House 1)	
Natural Gas	\$ 2,934	Natural Gas	\$1,090
Hydro	\$ 1,120	Hydro	\$ 970
TOTAL	\$ 4,054		\$2,060

RETURN ON INVESTMENT (ROI)

House with efficient insulation	\$9,150
House with basic package insulation (fiberglass)	\$4,340
	\$4,810
Savings on energy costs per year →	\$ 4,054 - \$2,060 = \$1,994
RETURN ON INVESTMENT in 1st year is 41% *	
This means that by investing in the Efficient Insulation Package from Insta-Insulation, homeowners would get a better return on their money than putting it into bank accounts or most other investment vehicles. Using Insta-Insulation is an excellent return on investment.	
* Return on Investment is based on 2004 energy costs. As costs increase, so will your return on investment.	

More advantages of Efficient Insulation Package: Dry basement, - no mildew
 Walls made of 2 x 4, instead of 2 x 6