



Dow Building Solutions

Continuous Insulation Cost Comparison

Switch to Continuous Insulation

More R-value, more savings on utility bills, and more thermal and moisture protection...just by making the switch to STYROFOAM™ Brand Extruded Polystyrene (XPS) Foam Insulation and WEATHERMATE™ Construction Tape on exterior walls. And with no need for housewrap, there's one less trip around the house, saving labor costs and time.

STYROFOAM™ Brand XPS Foam Insulation (Climate Zones 1-2)

(Based on 24' Wall Section with 1 Window & 1 Door)⁽¹⁾

DOW RECOMMENDED

| | 2x4 @ 16 OC R-13 Batt | 2x4 @ 16 OC R-11 Batt + R-3 XPS | 2x4 @ 16 OC R-11 Batt + R-5 XPS |
|---|--|--|---|
| Framing | 247 lineal ft @ \$.33/lineal ft = \$81.51 | 247 lineal ft @ \$.33/lineal ft = \$81.51 | 247 lineal ft @ \$.33/lineal ft = \$81.51 |
| Sheathing | 6 sheets OSB @ \$7 = \$42.00 | 6 sheets 1/2" XPS @ \$12 = \$72.00 2 sheets T-ply @ \$7 (Bracing) = \$14.00 | 6 sheets 1" XPS @ \$18 = \$108.00 2 sheets T-ply @ \$7 (Bracing) = \$14.00 |
| Water-Resistive Barrier | Tape 1/4 roll @ \$18/roll = \$4.50 Wrap 1/6 roll @ \$160/roll = \$26.66 | Tape 3/4 roll @ \$18/roll = \$13.50 | Tape 3/4 roll @ \$18/roll = \$13.50 |
| Batt Cavity Insulation | 180 ft ² @ \$.34 ft ² = \$61.20 | 180 ft ² @ \$.29 ft ² = \$52.20 | 180 ft ² @ \$.29 ft ² = \$52.20 |
| Jamb Extension | \$0.00 | \$0.00 | \$40.00 |
| Total | \$215.87 | \$233.21 | \$269.21 + J Ext (if applicable) |
| Effective R-Value | R-9.3 | R-10.6 | R-11.7 |
| Price per R | \$23.21 | \$22.00 | \$23.00 |
| Labor | Once to Sheath, Once to Wrap | Once to Sheath | Once to Sheath |
| More \$\$ for Family Night Out | No | Yes | Yes |
| Reduced Mold Potential | No | Yes | Yes |
| Reduced Energy Waste/Carbon Footprint | No | Yes | Yes |
| Quality and Brand You Can Trust | Depends | 65 Years and Counting! | 65 Years and Counting! |
| 30-Year Thermal & 10-Year WRB Warranties ⁽²⁾ | No | Yes | Yes |

⁽¹⁾ Estimates are for comparison only. Actual costs will vary from region to region and as prices fluctuate.

⁽²⁾ Dow offers both a Water-Resistive Barrier 10-Year Limited Product and Labor Warranty and a 30-Year Limited Thermal Warranty for STYROFOAM™ Brand XPS Foam Insulation at 1" thickness. Visit www.dbswarranties.com for details.

Forget 2x6, Dow Has Your 2x4 Solution

Just because code changes require a higher R-value doesn't mean you must switch to 2x6 framing and thicker batt insulation. Dow has an easier and better solution. Continue to use 2x4 framing and avoid the expense of developing new floor plans by adding STYROFOAM™ Brand Extruded Polystyrene (XPS) Foam Insulation and WEATHERMATE™ Construction Tape on exterior walls. Achieve higher R-value, help eliminate condensation in wall cavities, save installation time and lower the homeowner's utility bills. That's long-term value you can count on with Dow.

STYROFOAM™ Brand XPS Foam Insulation (Climate Zones 3-5)

(Based on 24' Wall Section with 1 Window & 1 Door)⁽¹⁾

DOW RECOMMENDED

| | 2x6 @ 24 OC R-20 Batt | 2x4 @ 16 OC R-13 Batt + R-5 XPS | 2x4 @ 16 OC R-11 Batt + R-7.5 XPS | 2x4 @ 16 OC R-15 Batt + R-5 XPS |
|--|--|--|---|--|
| Framing | 223 lineal ft @ \$.44/lineal ft = \$98.12 | 247 lineal ft @ \$.33/lineal ft = \$81.51 | 247 lineal ft @ \$.33/lineal ft = \$81.51 | 247 lineal ft @ \$.33/lineal ft = \$81.51 |
| Sheathing | 6 sheets OSB @ \$7 = \$42.00 | 4 sheets 1" XPS @ \$18 = \$72.00 2 sheets 1/2" XPS @ \$12 = \$24.00 2 sheets OSB @ \$7 (Bracing) = \$14.00 | 4 sheets 1.5" XPS @ \$25 = \$100.00 2 sheets 1" XPS @ \$17 = \$34.00 2 sheets OSB @ \$7 (Bracing) = \$14.00 | 4 sheets 1" XPS @ \$18 = \$72.00 2 sheets 1/2" XPS @ \$12 = \$24.00 2 sheets OSB @ \$7 (Bracing) = \$14.00 |
| Water-Resistive Barrier | Tape 1/4 roll @ \$18/roll = \$4.50 Wrap 1/6 roll @ \$160/roll = \$26.66 | Tape 3/4 roll @ \$18/roll = \$13.50 | Tape 3/4 roll @ \$18/roll = \$13.50 | Tape 3/4 roll @ \$18/roll = \$13.50 |
| Batt Cavity Insulation | 182 ft ² @ \$.55/ft ² = \$100.10 | 180 ft ² @ \$.34 ft ² = \$61.20 | 180 ft ² @ \$.29 ft ² = \$52.20 | 180 ft ² @ \$.59 ft ² = \$106.20 |
| Jamb Extension | \$0.00 | \$40.00 | \$40.00 | \$40.00 |
| Total | \$271.38 | \$266.21 + J Ext (if applicable) | \$295.21 + J Ext (if applicable) | \$311.21 + J Ext (if applicable) |
| Effective R-Value | R-13.2 | R-13.6 | R-14.2 | R-14.2 |
| Price per R | \$20.56 | \$19.57 | \$20.64 | \$21.92 |
| Labor | Once to Sheath, Once to Wrap | Once to Sheath | Once to Sheath | Once to Sheath |
| Lost Sellable Square Footage | Yes | No | No | No |
| Redraw Plans | Yes | No | No | No |
| More \$\$ for Family Night Out | No | Yes | Yes | Yes |
| Reduced Mold Potential | No | Yes | Yes | Yes |
| Reduced Energy Waste/ Carbon Footprint | No | Yes | Yes | Yes |
| Quality and Brand You Can Trust | Depends | 65 Years and Counting! | 65 Years and Counting! | 65 Years and Counting! |
| 30-Year Thermal & 10-Year WRB Warranties ⁽²⁾ | No | Yes | Yes | Yes |

⁽¹⁾ Estimates are for comparison only. Actual costs will vary from region to region and as prices fluctuate.

⁽²⁾ Dow offers both a Water-Resistive Barrier 10-Year Limited Product and Labor Warranty and a 30-Year Limited Thermal Warranty for STYROFOAM™ Brand XPS Foam Insulation at 1" thickness. Visit www.dbswarranties.com for details.

STYROFOAM™ Brand XPS Foam Insulation (Climate Zones 6-8)

(Based on 24' Wall Section with 1 Window & 1 Door)⁽¹⁾

DOW RECOMMENDED

| | 2x6 @ 24 OC R-21 Batt | 2x4 @ 16 OC R-13 Batt + R-5 XPS | 2x4 @ 16 OC R-11 Batt + R-7.5 XPS | 2x4 @ 16 OC R-15 Batt + R-5 XPS | 2x4 @ 16 OC R-13 Batt + R-10 XPS |
|---|--|--|---|--|---|
| Framing | 223 lineal ft @ \$.44/lineal ft = \$98.12 | 247 lineal ft @ \$.33/lineal ft = \$81.51 | 247 lineal ft @ \$.33/lineal ft = \$81.51 | 247 lineal ft @ \$.33/lineal ft = \$81.51 | 247 lineal ft @ \$.33/lineal ft = \$81.51 |
| Sheathing | 6 sheets OSB @ \$7 = \$42.00 | 4 sheets 1" XPS @ \$18 = \$72.00 2 sheets 1/2" XPS @ \$12 = \$24.00 2 sheets OSB @ \$7 (Bracing) = \$14.00 | 4 sheets 1.5" XPS @ \$25 = \$100.00 2 sheets 1" XPS @ \$17 = \$34.00 2 sheets OSB @ \$7 (Bracing) = \$14.00 | 4 sheets 1" XPS @ \$18 = \$72.00 2 sheets 1/2" XPS @ \$12 = \$24.00 2 sheets OSB @ \$7 (Bracing) = \$14.00 | 4 sheets 2" XPS @ \$35 = \$140.00 2 sheets 1.5" XPS @ \$25 = \$50.00 2 sheets OSB @ \$7 (Bracing) = \$14.00 |
| Water-Resistive Barrier | Tape 1/4 roll @ \$18/roll = \$4.50 Wrap 1/6 roll @ \$160/roll = \$26.66 | Tape 3/4 roll @ \$18/roll = \$13.50 | Tape 3/4 roll @ \$18/roll = \$13.50 | Tape 3/4 roll @ \$18/roll = \$13.50 | Tape 3/4 roll @ \$18/roll = \$13.50 |
| Batt Cavity Insulation | 182 ft ² @ \$.55/ft ² = \$100.10 | 180 ft ² @ \$.34 ft ² = \$61.20 | 180 ft ² @ \$.29 ft ² = \$52.20 | 180 ft ² @ \$.59 ft ² = \$106.20 | 180 ft ² @ \$.34 ft ² = \$61.20 |
| Jamb Extension | \$0.00 | \$40.00 | \$40.00 | \$40.00 | \$40.00 |
| Total | \$271.38 | \$266.21 + J Ext (if applicable) | \$295.21 + J Ext (if applicable) | \$311.21 + J Ext (if applicable) | \$360.21 + J Ext (if applicable) |
| Effective R-Value | R-13.2 | R-13.6 | R-14.3 | R-14.2 | R-16.3 |
| Price per R | \$20.56 | \$19.57 | \$20.64 | \$21.91 | \$22.10 |
| Labor | Once to Sheath, Once to Wrap | Once to Sheath | Once to Sheath | Once to Sheath | Once to Sheath |
| Lost Sellable Square Footage | Yes | No | No | No | No |
| Redraw Plans | Yes | No | No | No | No |
| More \$\$ for Family Night Out | No | Yes | Yes | Yes | Yes |
| Reduced Mold Potential | No | Yes | Yes | Yes | Yes |
| Reduced Energy Waste/ Carbon Footprint | No | Yes | Yes | Yes | Yes |
| Quality and Brand You Can Trust | Once to Sheath, Once to Wrap | 65 Years and Counting! | 65 Years and Counting! | 65 Years and Counting! | 65 Years and Counting! |
| 30-Year Thermal & 10-Year WRB Warranties ⁽²⁾ | No | Yes | Yes | Yes | Yes |

⁽¹⁾ Estimates are for comparison only. Actual costs will vary from region to region and as prices fluctuate.

⁽²⁾ Dow offers both a Water-Resistive Barrier 10-Year Limited Product and Labor Warranty and a 30-Year Limited Thermal Warranty for STYROFOAM™ Brand XPS Foam Insulation at 1" thickness. Visit www.dbswarranties.com for details.

The Dow Chemical Company

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DOW Polyurethane Foam Insulation and Sealant

CAUTION: When cured, these products are combustible and will burn if exposed to open flame or sparks from high-energy sources. Do not expose to temperatures above 240°F (116°C). For more information, consult (Material) Safety Data Sheet ((M)SDS), call Dow at 1-866-583-BLUE (2583) or contact your local building inspector. In an emergency, call 1-989-636-4400 in the U.S. or 1-519-339-3711 in Canada.

(For Retrofit and Residential segment add this statement): When air sealing buildings, ensure that combustion appliances, such as furnaces, water heaters, wood burning stoves, gas stoves and gas dryers are properly vented to the outside. See website: <http://www.epa.gov/iaq/homes/hip-ventilation.html>. In Canada visit: <http://archive.nrc-cnrc.gc.ca/eng/ibp/irc/bsi/83-house-ventilation.html>.

STYROFOAM™ Brand Spray Polyurethane Foam contains isocyanate, hydrofluorocarbon blowing agent and polyol. Read the instructions and (Material) Safety Data Sheet ((M)SDS) carefully before use. Wear protective clothing (including long sleeves), gloves, goggles and proper respiratory protection. Supplied air or an approved air-purifying respirator equipped with an organic vapor sorbent and a P100 particulate filter is required to maintain exposure levels below ACGIH, OSHA, WEEL or other applicable limits. Provide adequate ventilation. Contents under pressure. STYROFOAM™ Brand SPF should be installed by a trained SPF applicator.

Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplier including Dow can give assurance that mold will not develop in any specific system.

*View the U.S. Department of Energy climate zones map at www.eia.gov/emeu/cbecs/climate_zones.html.

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