

# PlastiSpan® Insulation

## EXTERIOR INSULATING SHEATHING



See step-by-step  
instructions on reverse.



### Features & Benefits

- Meets all building code requirements
- Meets CAN/ULC-S701, Type 1
- Long term RSI 0.65/25 mm  
(R-value 3.75/inch)
- Compressive Resistance: 10 psi
- Closed cell insulation resists moisture
- CCMC 12424-L
- Custom sizes available

### Energy Tip

Continuous insulation over your exterior walls eliminates thermal bridging, increasing your total effective RSI/R-value. This reduces energy costs and increases your energy savings.

# PlastiSpan® Insulation

## EXTERIOR INSULATING SHEATHING



Continuous insulating sheathing over the exterior eliminates thermal bridging and reduces air infiltration.



MILLIMETERS	RSI	INCHES	R-VALUE
19	0.49	¾"	2.81
25	0.65	1"	3.75
38	0.99	1 ½"	5.63
50	1.30	2"	7.50
75	1.95	3"	11.25



- 1. Follow the building code.**  
Be sure to follow the building code requirements applicable in your region.



- 4. Install sheathing membrane.**  
Sheathing membrane to be installed as per local building code requirements.



- 2. Plan the joints.**  
Apply the insulating sheathing board over the exterior of wood framing with all vertical edges of boards butted tightly together over stud locations for adequate support.



- 5. Install exterior cladding.**  
Follow cladding manufacturer instructions and building code requirements for installation of exterior finishing materials.



- 3. Use correct fasteners.**  
Insulation board must be fastened to framing using fasteners with heads or washers at least 1/2" diameter where the cladding will be applied directly against the insulation. Fasteners with heads or washers at least 1" diameter must be used where an air space will exist between the insulation board and the cladding (e.g. brick cladding).

NBC 2005, Table 9.23.16.2.A./NBC 2010 Table 9.23.17.2.A.  
Wall Continuous Insulating Sheathing Thickness and Specifications  
Forming part of NBC 2005 Sentence 9.23.16.2.(1)/NBC 2010, Sentence 9.23.17.2.(1)

Type of Sheathing	Minimum Thickness, mm See Note 1 Below		Material Standards CAN/ULC-S701
	With Supports 400 mm o.c.	With Supports 600 mm o.c.	
PlastiSpan Insulation	38	38	Type 1
PlastiSpan HD Insulation	38	38	Type 2
PlastiSpan 25 Insulation	25	25	Type 3

#### Notes to Table:

- Minimum thickness applies for insulating sheathing when exterior walls and gable ends must be sheathed when the exterior cladding requires intermediate fastening between supports or if the exterior cladding requires solid backing.
- Where wood shingles or shakes are applied over insulating sheathing, the shingles or shakes must be attached to a wood lath not less than 38 mm by 9.5 mm thick securely nailed to the framing.
- Minimum thickness of continuous insulating sheathing applied to the exterior of wood frame walls must also comply with regional requirements for ratio of outboard to inboard thermal resistance (see Plasti-Fab PIB 287 for additional guidance).



Watch the How-To video  
on our YouTube Channel  
Search: Plasti-Fab

**1-88-THINK-EPS®**  
**1-888-446-5377**

View how-to videos, project profiles &  
testimonials @ [www.plastifab.com](http://www.plastifab.com)

Follow us on twitter: @PlastiFab  
Subscribe to our blog: [Plastifab.Wordpress.com](http://Plastifab.Wordpress.com)



Copyright © 2013 by Plasti-Fab Ltd. All rights reserved.  
Plasti-Fab & PlastiSpan are registered trademarks of Plasti-Fab Ltd.





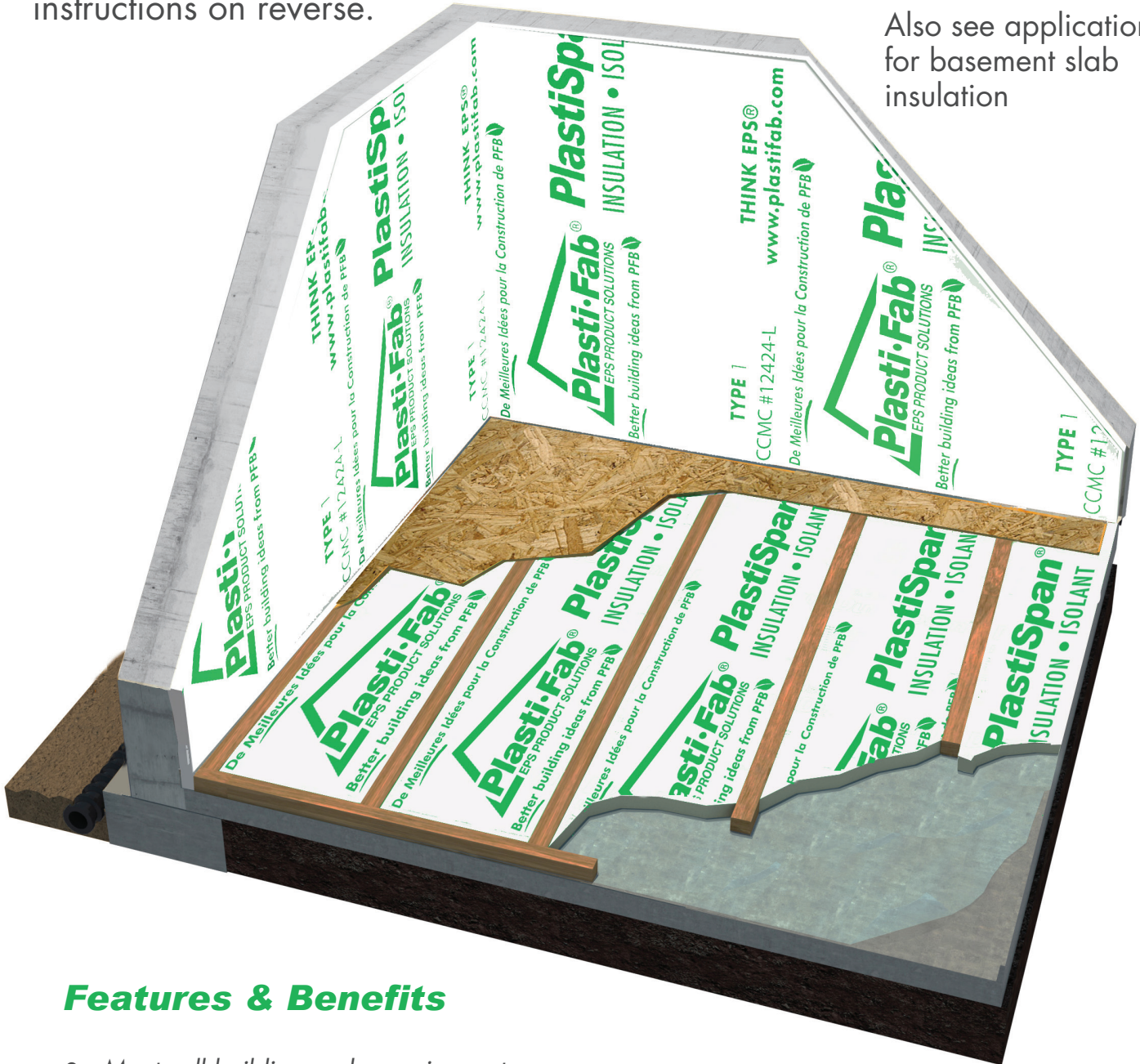
# PlastiSpan® Insulation

## INSULATING INTERIOR BASEMENT WALLS



See step-by-step  
instructions on reverse.

Also see application  
for basement slab  
insulation



### Features & Benefits

- Meets all building code requirements
- Meets CAN/ULC-S701, Type 1
- Long term RSI 0.65/25 mm  
(R-value 3.75/inch)
- Compressive Resistance: 10 psi
- Closed cell insulation resists moisture
- CCMC 12424-L
- Custom sizes available

### Energy Tip

Continuous insulation applied over the interior surface of basement walls eliminates thermal bridges and ensures the wood frame wall cavity will remain warmer.

# PlastiSpan® Insulation

## INSULATING INTERIOR BASEMENT WALLS



Follow these simple How-to steps to install your PlastiSpan insulation to have an insulated interior basement wall.

MILLIMETERS	RSI	INCHES	R-VALUE
19	0.49	3/4"	2.81
25	0.65	1"	3.75
38	0.99	1 1/2"	5.63
50	1.30	2"	7.50
75	1.95	3"	11.25



- Follow the building code.**  
Be sure to follow the building code requirements applicable in your region.

The wall surfaces must be clean, dry and free of foreign materials and sharp projections.



- Frame the Wall.**  
Construct a wood framed wall to be installed in front of the insulated basement wall to support the 1/2" thick gypsum board. The vertical framing members should be at least 2'x2' spaced at 16" or 24" on centres.



- Start From a Corner.**  
Starting from a corner, attach insulation boards to the basement wall using an adhesive compatible with expanded polystyrene (EPS) insulation.



- Install the Wall.**  
Fasten the framed wall to the upper floor joist and basement floor leaving a small gap between the insulation and the back of the framed wall. Electrical wiring can be placed by running it in the small gap behind the framing. Use shallow electrical boxes.



- Measure and Cut.**  
Measure and cut insulation board with a utility knife or fine tooth hand saw such as a keyhole type or drywall saw to fit openings such as windows. Insulation boards should be tightly butted together.



- Attach Gypsum.**  
See Vapour Barrier note & reference Plasti-Fab Product Information Bulletin 284 for additional information.

Attach 1/2" thick gypsum board to the face of the framed wall.

### Vapour Barrier.

PlastiSpan insulation at minimum 5" thickness used as the sole thermal insulation does not require a separate vapour barrier to control condensation within the assembly.

- Canadian code recognizes that when low-permeance insulation is the sole thermal insulation in a building assembly the temperature of the inner surface of the low-permeance insulation will be close to the interior room temperature.



Watch the How-To video  
on our YouTube Channel  
Search: Plasti-Fab



**1-88-THINK-EPS®**  
**1-888-446-5377**

View how-to videos, project profiles & testimonials @ [www.plastifab.com](http://www.plastifab.com)



Follow us on twitter: @PlastiFab  
Subscribe to our blog: [Plastifab.Wordpress.com](http://Plastifab.Wordpress.com)

Copyright © 2013 by Plasti-Fab Ltd. All rights reserved.  
Plasti-Fab & PlastiSpan are registered trademarks of Plasti-Fab Ltd.



# PlastiSpan® Insulation

## INSULATING ABOVE A BASEMENT SLAB



See step-by-step instructions on reverse.

Also see application for basement wall insulation



### Features & Benefits

- Meets all building code requirements
- Meets CAN/ULC-S701, Type 1
- Long term RSI 0.65/25 mm (R-value 3.75/inch)
- Compressive Resistance: 10 psi
- Closed cell insulation resists moisture
- CCMC 12424-L
- Custom sizes available

### Energy Tip

Insulating your basement floor provides added comfort and increased energy savings.

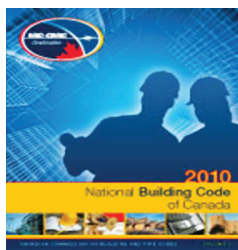
# PlastiSpan® Insulation

## INSULATING ABOVE A BASEMENT SLAB

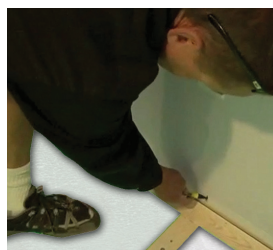


Follow these simple How-To steps to install your PlastiSpan insulation for an insulated basement floor.

MILLIMETERS	RSI	INCHES	R-VALUE
19	0.49	¾"	2.81
25	0.65	1"	3.75
38	0.99	1 ½"	5.63
50	1.30	2"	7.50
75	1.95	3"	11.25



- 1. Follow the building code.**  
Be sure to follow the building code requirements applicable in your region.



- 5. Prepare to Lay Sub-Floor**  
Mark the walls where the nailer centres intersect it to help locate the nailers when attaching the sub-floor. The sub-floor thickness should be 5/8" T&G. Snap chalk lines across the nailers to ensure the sub floor material is placed squarely.



- 2. Install a Moisture Barrier**  
Cover the entire floor area with a 6-mil polyethylene moisture barrier to eliminate moisture migration into your living area. Plan your project to place your insulation and nailers at 24" on centre across the floor in one direction.



- 6. Secure the Sub-Floor**  
Be sure to stagger the floor sheathing joints for extra stability. Apply adhesive to the nailers. Fasten the 5/8" floor sheathing directly to the nailers using either ringed nails or deck screws every 8". With an air nailer, use 2-inch ringed floor sheathing or screw nails. With a screw gun, use 1-1/2" or 1-3/4" deck screws.



- 3. Attach Perimeter Nailers**  
Attach nailer with the same thickness as the insulation around the perimeter using self-tapping concrete screws penetrating the concrete floor as recommended by the screw manufacturer.



- 7. Ready for Floor Finishing.**  
Your basement floor is now correctly insulated and ready for your final decorating touch. You should notice the finished floor is now much more comfortable.



- 4. Install Nailers and Insulation**  
Cut the first row of insulation to a 21-3/4" width. Cut subsequent rows to 22-1/2" widths. Use the insulation cut as guides to place successive rows of nailers at 24" on centres.



Watch the How-To video  
on our YouTube Channel  
Search: Plasti-Fab



**1-88-THINK-EPS®**  
**1-888-446-5377**

View how-to videos, project profiles & testimonials @ [www.plastifab.com](http://www.plastifab.com)



Follow us on twitter: @PlastiFab  
Subscribe to our blog: [Plastifab.Wordpress.com](http://Plastifab.Wordpress.com)

Copyright © 2013 by Plasti-Fab Ltd. All rights reserved.  
Plasti-Fab & PlastiSpan are registered trademarks of Plasti-Fab Ltd.

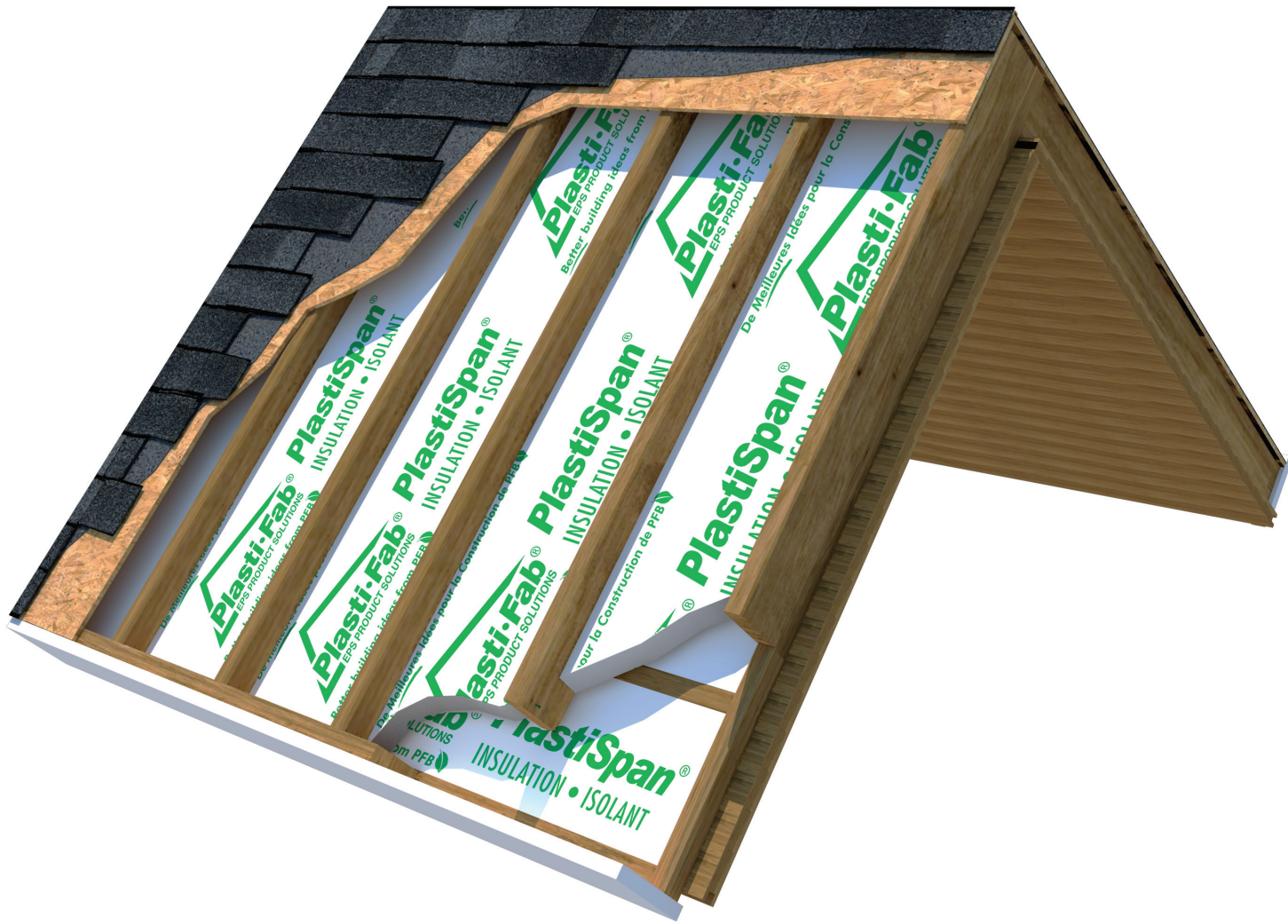


# PlastiSpan® Insulation

## INSULATING CATHEDRAL CEILINGS



See step-by-step  
instructions on reverse.



### Features & Benefits

- Meets all building code requirements
- Meets CAN/ULC-S701, Type 1
- Long term RSI 0.65/25 mm  
(R-value 3.75/inch)
- Compressive resistance: 10 psi
- Closed cell insulation resists moisture
- CCMC 12424-L
- Custom sizes available

### Energy Tip

The roof area can be the area of highest heat loss in buildings. In order to conserve energy and to make buildings more comfortable, building codes stipulate higher thermal resistances (R-values) for the roof area compared to other building components.

On traditional cathedral ceilings where tongue and groove timber exposed on the inside is used as an architectural feature, PlastiSpan insulation board is ideal for both single and double layered applications.

# PlastiSpan® Insulation

## INSULATING CATHEDRAL CEILINGS



Follow these simple How-to steps to install PlastiSpan insulation as a component in an insulated cathedral ceiling assembly.

MILLIMETERS	RSI	INCHES	R-VALUE
19	0.49	¾"	2.81
25	0.65	1"	3.75
38	0.99	1½"	5.63
50	1.30	2"	7.50
75	1.95	3"	11.25



- 1. Follow the building code.**  
Be sure to follow the building code requirements applicable in your region.



- 4. Fastening Layers of Insulation.**  
Fasten second layer nailer to first layer nailer where they intersect. If the thermal resistance requires extra layers of insulation, add layers to the bottom of the system changing the nailer direction as required. The top nailer must always run from the bottom of the roof slope to the ridge of roof.



- 2. First Layer of Insulation.**  
Use nailers the same thickness as the first layer of insulation. Lay nailer, then insulation, then nailer up the slope of the roof, all joints tightly butted. Fasten nailer to deck as work proceeds.



- 5. Finish.**  
Nail roof sheathing to nailers taking care that air movement is unobstructed in ventilation space.



- 3. Second Layer of Insulation.**  
Lay second layer of insulation perpendicular to first layer. Lay insulation with joints tightly butted. Lay nailers over insulation spaced to support roof sheathing. Second layer of nailers to achieve a minimum airspace as determined by local building code.



- 6. Roofing Cover.**  
Install roof covering in accordance with manufacturer's instructions. Adequate ventilation must be insured using an acceptable method to the applicable building code and/or local regulations.

**Note:** The depth of the top nailer should always be chosen to ensure the required vent space within the roof system is provided per local building code. For example, Canadian building codes typically require not less than 63 mm of space be provided between the top of the insulation and the underside of the roof sheathing.



**Sign up Now**  
To receive our monthly e-newsletter with events, products, updates, & more



**1-88-THINK-EPS®**  
**1-888-446-5377**

View how-to videos, project profiles & testimonials @ [www.plastifab.com](http://www.plastifab.com)



Follow us on twitter: @PlastiFab  
Subscribe to our blog: [Plastifab.Wordpress.com](http://Plastifab.Wordpress.com)

Copyright © 2013 by Plasti-Fab Ltd. All rights reserved.  
Plasti-Fab & PlastiSpan are registered trademarks of Plasti-Fab Ltd.