



# FOAMULAR<sup>®</sup> CEL-LOK<sup>®</sup>

EXTRUDED POLYSTYRENE RIGID INSULATION

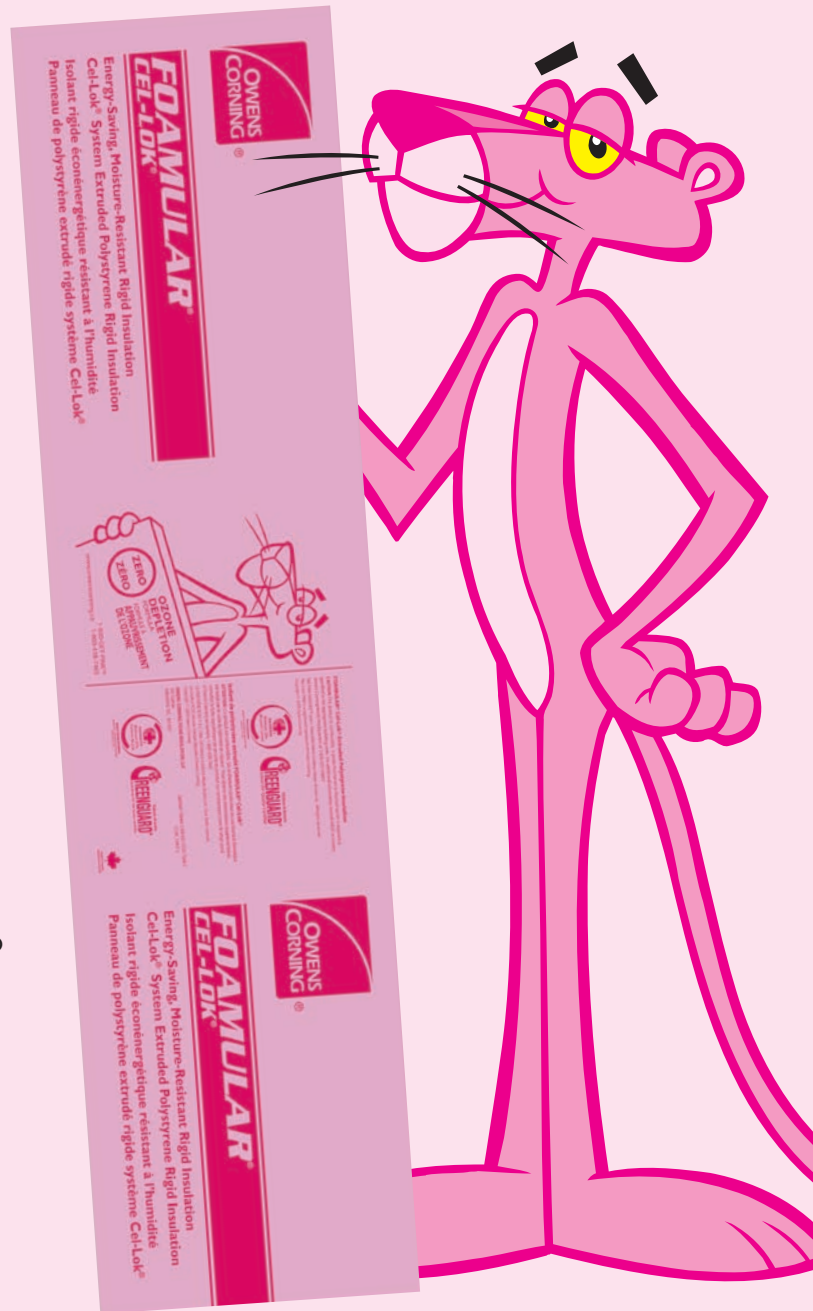
## EASY TO INSTALL! NO STUDS.

- ▶ Apply insulation directly to basement walls
- ▶ Apply drywall directly over insulation
- ▶ R5 per inch
- ▶ Available in thicknesses of 1½" and 2"
- ▶ Lightweight, rigid and strong
- ▶ Pre-grooved 2' x 8' sheet

**FOAMULAR<sup>®</sup>**  
**CEL-LOK<sup>®</sup>**



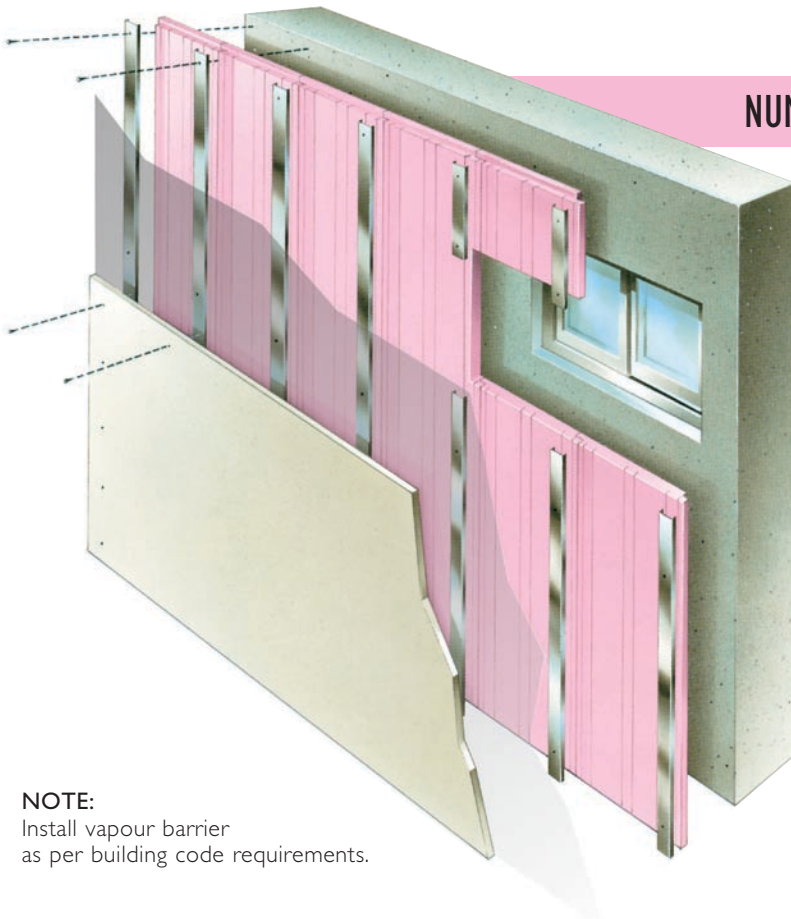
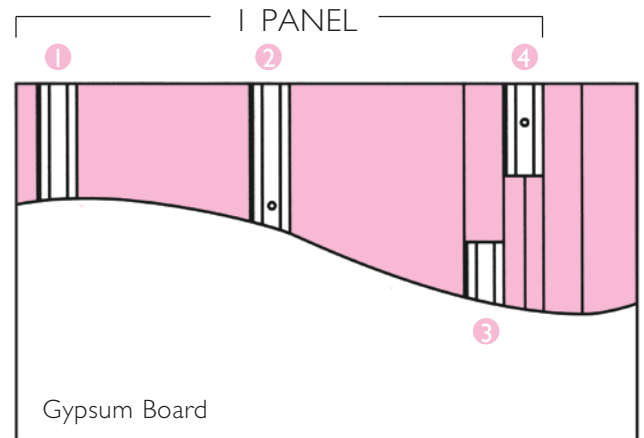
INNOVATIONS FOR LIVING™



# INSTALLATION

**FOAMULAR® Cel-Lok® System Extruded Polystyrene Rigid Insulation** has three sets of grooves per sheet, allowing you to position the metal channel in four ways.

- 1 Use the two grooves on the left of the sheet when starting at the left hand corner of a wall.
- 2 Use the two grooves in the middle of the sheet when you have to cut the sheet, for example to fit a window.
- 3 Use the two grooves at the right of the sheet when starting at the right hand corner of a wall.
- 4 Use one groove from each sheet to attach two sheets together along the edge.



**NOTE:**  
Install vapour barrier  
as per building code requirements.

## NUMBER OF METAL CHANNELS YOU'LL REQUIRE

- One metal channel per insulation sheet.
- One additional metal channel per wall where you apply FOAMULAR® Cel-Lok®.
- One additional channel for each window.
- Three additional channels for each door.

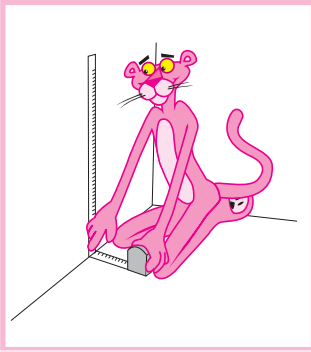
For example, if your project requires 20 insulation sheets on 4 walls where there is 1 window and 1 door, you should calculate as follows:

20 insulation sheets = 20 metal channels  
4 walls (1 channel per wall) = 4 channels  
1 window (1 channel per window) = 1 channel  
1 door (3 channels per door) = 3 channels  
**TOTAL: 28 metal channels**

## THE TOOLS YOU'LL NEED

- Masonry Nails or Screws • Measuring Tape
- Pencil • Drywall Screws • Hacksaw • Utility Knife • Hammer
- Latex Sealant • Expanding Foam Sealant
- Masonry Bit • Screwdriver Bit • Hammer Drill • Safety Glasses

# INSTALLATION PROCEDURE



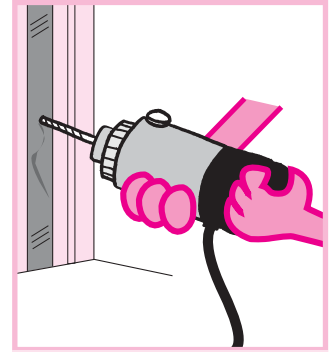
**1** Measure the height of the wall to be insulated.



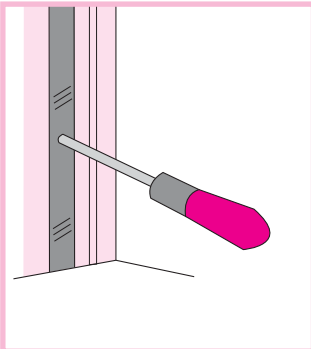
**2** Trim a sheet of **FOAMULAR® Cel-Lok®** and the metal channel to the correct length.



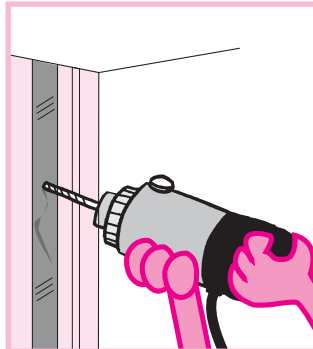
**3** Place the first sheet vertically on the wall starting in a corner and ensure that it is plumb. Trim the sheet's shiplap along the edge that will butt against the corner.



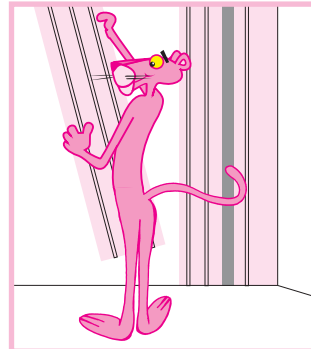
**4** In the centre of the steel channel, choose one of the pre-punched holes and drill your first pilot hole for the self-tapping fastener. (Ensure at least 1" penetration into the masonry.)



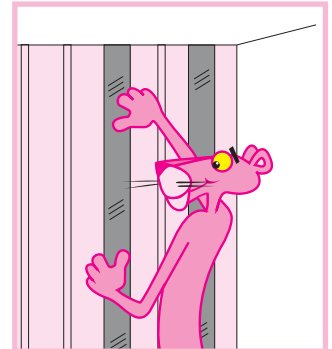
**5** Drive in the self-tapping masonry fastener.



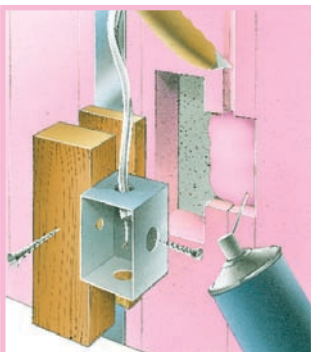
**6** Repeat drilling and fastening at floor and ceiling levels. (Use a minimum of three fasteners per metal channel.)



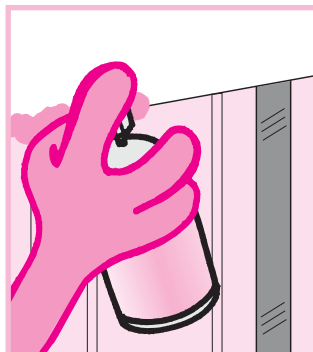
**7** Add the next sheet of pre-trimmed insulation.



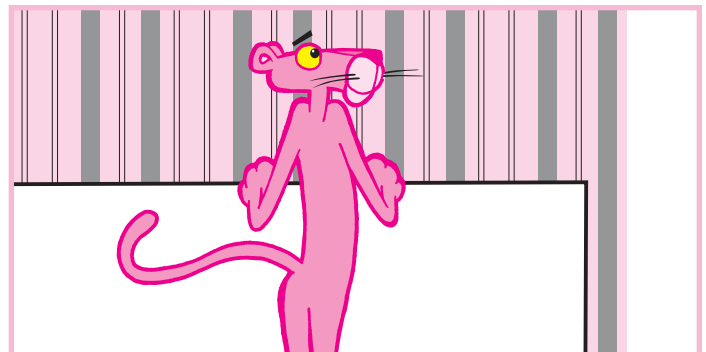
**8** Insert the metal channel into the grooves along the edges of the two boards where they touch. Repeat fastening procedure, steps 4 to 7.



**9** Install electrical boxes and wiring. (See electrical details on back.)



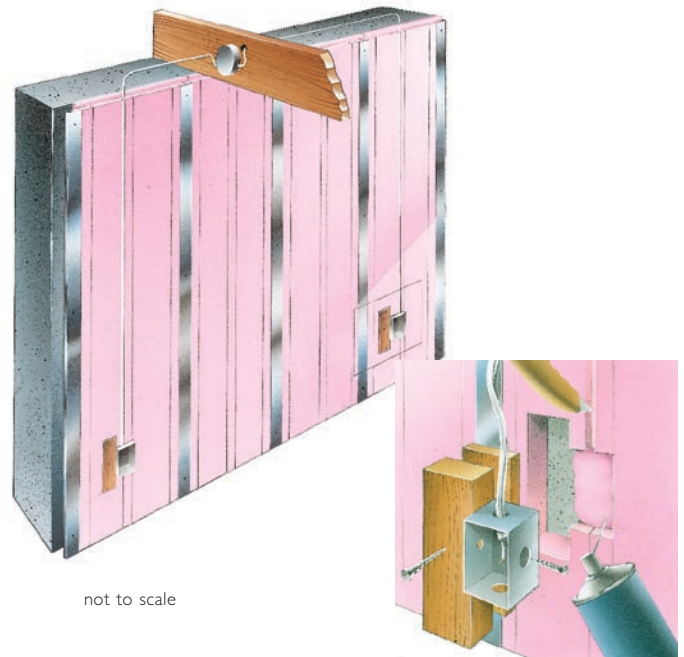
**10** Fill in joint at the perimeter of the insulated wall as well as all perforations made in the insulating panel (i.e.: electrical boxes, windows) using foam sealant.



**11** When installation is complete, cover the insulation with ½" gypsum board attaching it with self-tapping drywall screws to the metal channel. (Screws should be spaced 8" on centre). Measure the distance between metal channels to insure that the drywall joints occur at the center of the channels. It may be necessary to cut the drywall panels occasionally to assure this. Finish the drywall according to manufacturer's instructions. Consult the National Building Code for requirements when using other finishes.

# ELECTRICAL DETAILS

- 1 Install junction box for electrical outlets in ceiling joists above.
- 2 Cut out an opening in the insulation, at the location of the electrical outlet in order to receive the electrical box and a 2"x3"x6" piece of wood.
- 3 Fasten the 2"x3"x6" wood piece to the foundation wall.
- 4 For 1½" thick panels, fasten the electrical box to the side of the 2"x3"x6" wood piece. The electrical box must exceed the 2"x3"x6" by ½" or by the thickness of the drywall finish. The drywall should be flush with the electrical box. For 2" thick panels, repeat the above mentioned procedure while adding a ½" thick spacer behind the 2"x3"x6" wood piece, to ensure that it remains flush with the insulation panel.
- 5 Widen one of the two existing grooves at the center of the insulation panel to receive the electrical wire coming from the junction box to the outlet (depth approx. ½"). Make a knife cut into the back of the groove and insert electrical wire into it. Embedment of wire should be ½" minimum (i.e. electrical wire should be at least 1" from drywall surface).
- 6 Set electrical wire into groove leading to outlet.
- 7 Connect the wire to the electrical box.
- 8 Use foam sealant to fill the enlarged groove, the void behind the electrical box and the perimeter of the 2"x3"x6" piece of wood and the electrical box.



not to scale

Electrical installation laws and requirements may vary from province to province. Some laws prohibit non licensed people from installing their own electrical work and some allow it providing a permit is obtained. Consult the national building code for electrical requirements. Owens Corning recommends that all electrical work be done by qualified people only.

## SAVE TIME:

FOAMULAR® Cel-Lok® eliminates the need for wood stud framing, with FOAMULAR® Cel-Lok® you're ready to start insulating immediately!

## SAVE MONEY:

A basement insulated with FOAMULAR® Cel-Lok® is a good investment because it helps keep the heat in and energy costs down! Also, studies show you can regain some of that investment when reselling your home with a finished basement.

## SAVE SPACE:

Because FOAMULAR® Cel-Lok® is flush with your basement wall it packs maximum insulation value into minimum thickness. That means more living-space and better comfort!

**PRODUCT DATA WARNING: COMBUSTIBLE.** FOAMULAR® products are combustible and can be a fire hazard if improperly used or installed. Though the panels contain a flame retardant to inhibit ignition, they will ignite if exposed to fire of sufficient heat and intensity. Do not expose to open flame or other ignition sources during shipping, handling, storage, installation or use. Used in buildings for human habitation, Celfort® must be protected by a minimum ½" (12.7 mm) thick gypsum board, or approved equal. The board must be mechanically fastened in place as prescribed by the applicable building codes.

## Codes & Standards Compliance:

- Meets Montreal Protocol 2010, CFC, HCFC Free
  - Zero Ozone Depletion Potential
  - 70% Less Global Warming Potential\*

Available at:



INNOVATIONS FOR LIVING™

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