CIS

Interior Basement and Concrete Insulation System

Installation Guidelines

Quik-Therm Insulation Solutions Inc.
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The following instructions are designed for DIY. For best results, read and understand these instructions before beginning. An installation overview video can be viewed by clicking here.

Materials Provided by Quik-Therm

- ½" thick x 8" wide by 4' or 8' long foam gaskets
- Quik-Therm foam insulation panels
- Plastic stud stabilizers
- 25 gauge L-Studs
- Top and bottom track/angle (same as L-Studs)
- Concrete IDP Plastic Foam Insulation Anchors
- 9/16" pan head screws
- Tapcon screws or equivalent

Other Materials Required

- PL300 or equivalent adhesive compatible with polystyrene insulation

NOTE: Rather than IDP anchors, should you choose to use adhesive, allow 1 tube of compatible foam adhesive for every 64 ft^2 of panel coverage.

Tools Required

- Hand saw
- Long level
- Tin snips
- Hammer drill
- Metal vice grips
- Chalk line (preferably black chalk)
- Screw gun / Hand drill
- Knife and blades
- Optional: Chop saw with metal cutting carbide blade

Preparation

- Sweep/clean around perimeter of all walls.
- Remove large residue from wall surfaces. Note areas of major imperfection. Where there are large protrusions that cannot easily be re- moved, carving (sculpturing) out the back of some QT panels or insulating around the object may be necessary.

** Do not install CIS over top water lines, gas lines, heat ducts, electrical, etc. **
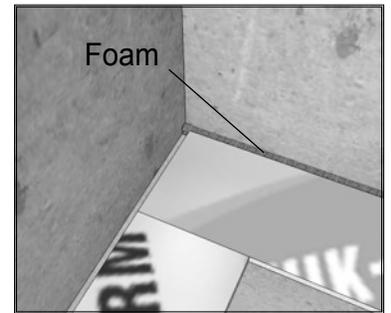
Instructions:

Step 1: Foam Base Gasket

Using dabs of compatible adhesive, adhere the foam base gasket to inside edges of concrete walls and floor. Allow approximately 1/2" (12 mm) gap between wall and gasket.

Step 2: Install CIS Panels

At corner, measure from top of foam gasket to underside of floor joist. Cut CIS panel to this height. Before installing panels, spray a liberal amount of foam in ½" gap from corner, 4 feet outward.
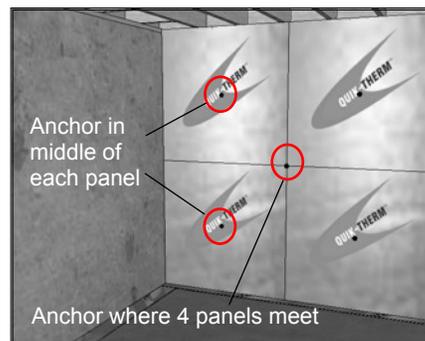

Foam

4' Panels: Install full 4' bottom panel in corner ensuring it is tight to corner and plumb. Measure from top of panel to underside of floor joists. Cut and install top panel utilizing spray foam between top and bottom panel. Ensure outside edges and panel slots line up with each other. Use sufficient concrete anchors or adhesive to ensure panel is tight against wall.

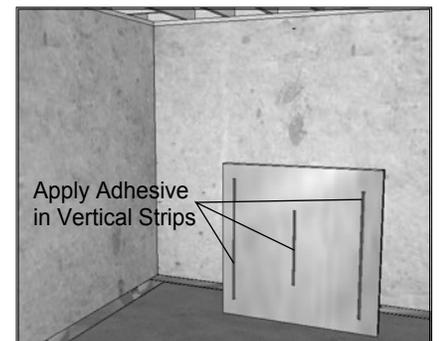**8' or Longer Panels:** Cut panels to height and install as per 4' panels.

OPTION 1
Mechanical Fastening
(Recommended - Faster & Less Expensive)

Anchor in middle of each panel

Anchor where 4 panels meet

OPTION 2
Adhering to Concrete Walls

Apply Adhesive in Vertical Strips

Cut and install remaining CIS panels, applying spray foam in panel grooves and ½" gap along wall. For proper fit, cut to width last panel at corner. Check panels for crack and gaps. Spray foam as required.

NOTE: When connecting tongue & groove panels, ensure slots maintain 8" O.C.

Step 3: Install Plastic Stabilizers

Insert plastic stabilizers into slots in CIS Panels at 24" O.C. wide intervals (Note for 16" stud spacing, additional L-studs must be purchased). Ensure stabilizers are all facing the same direction. Three (3) stabilizers are required for each slot, located approximately at 1/3, 1/2 and 2/3 up wall. Additional stabilizers will be required for wall heights above 9'.

Step 4: Install Top and Bottom Angles

Check walls for plumb. To determine plumb, use a long level and randomly check along each wall.

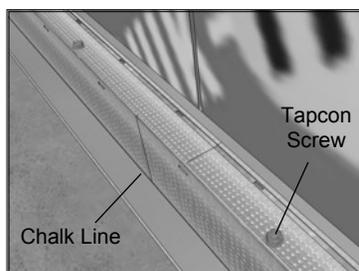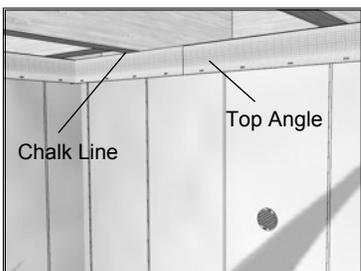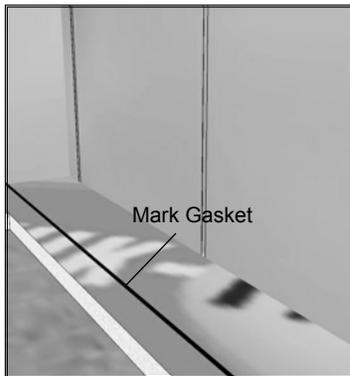**IMORTANT NOTE#** For severely out of plumb walls (1.5" or greater) see special instructions.
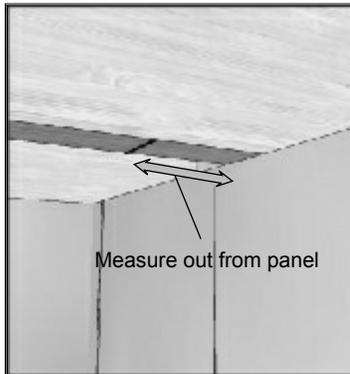
EXAMPLE ONLY: Once plumb is determined and assuming the wall tilts outward ½" at top, measure outward 3-1/2 inches. Mark at corners and snap a chalk line along floor joists.

NOTE# for attaching top angle, additional blocking may be required. Using wood or metal left overs, cut and install as required.

Measure out from panel

At the bottom, measure outwards 3". Mark at corners along foam gasket and snap a chalk line.

Mark Gasket

With angle facing inwards, fasten top angle to joists along chalk lines using 9/16" pan head screws. Using Tapcon screws (supplied), drill and fasten bottom angle to floor along chalk line.

NOTE: If you have in-floor heating, check location of plumbing lines before fastening bottom track (angle) to floor.

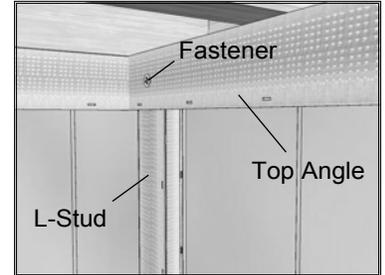Chalk Line
Top Angle

Chalk Line
Tapcon Screw

Step 5: Install Metal L-Studs

Cut metal L-Studs to the required length. L-studs must be installed all facing the same direction. Ensure recessed dimples (knurls) are positioned to catch drywall screws.
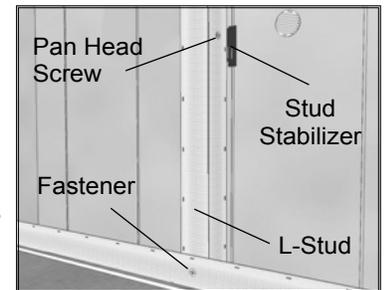
Starting at a corner, fasten L-Studs in this order:

A. Top Angle

B. Bottom Angle

C. Plastic Stabilizers

Fastener
Top Angle
L-Stud

TIP#: Use Vice grips as a "third hand" to hold L-stud in place while fastening to top angle.

IMORTANT NOTE# For severely out of plumb walls (1.5" or greater) see special instructions.

Pan Head Screw
Stud Stabilizer
Fastener
L-Stud

Step 6: Install Electrical and Plumbing

Install electrical and plumbing as per building code requirements. Utilize holes in stud stabilizers for electrical wires. Water lines must not be in contact with L-Studs.

When installing water lines between L-Studs and QT panels, the back of L-Studs must be notched out to accommodate tubing. A minimum 1/2" gap between L-Studs and water line must be maintained.

Step 7: Install Drywall

Install drywall (horizontal is best) applying screws approximately 8" apart.

When completed, trim the foam base gasket flush to the drywall.

Drywall Screw