



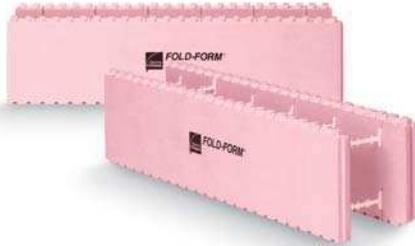
INNOVATIONS FOR LIVING™

FOLD-FORM®
INSULATED CONCRETE FORMS
DEFINING SUPERIOR BUILDINGS





CONCRETE REASONS TO DEMAND FOLD-FORM® INSULATED CONCRETE FORMS AND WEATHERPROTECTR® SYSTEM



The Fold-Form® system is made up of preassembled, interlocking concrete form sections. It has a patented folding design to lower shipping costs when compared to rigid block systems. Each section is 4 sq. ft. in size (4' wide, 1' high), allowing the user to build insulated foundations and buildings with concrete walls from 4" to 16" thick and accommodate the worldwide codes for steel reinforcing. The system provides:

ENERGY EFFICIENCY. Finished walls can attain an insulating value of R-20.*

STRENGTH. In university tests, *Fold-Form* solid concrete walls were proven to be the best protection against flying debris created by winds as high as 250 mph, when compared to conventional framed walls and hollow concrete block walls.**

PEACE AND QUIET. Solid concrete is regularly used as an economical barrier to sound pollution. A structure's resistance to sound penetration is described as an STC (Sound Transmission Class) rating. Higher STC ratings mean better resistance to sound penetration and pollution. Industry tests show that *Fold-Form* ICF walls have an STC rating of 44–52. Typical framed structures have an STC rating of 36.***

MOISTURE CONTROL. Achieve optimal moisture control with the WeatherProtectR® system. Combined with Owens Corning *Fold-Form* Insulated Concrete Forms, the system provides a complete foundation seal. Its self-adhering properties allow for unmatched coverage, and it remains flexible even in cold-weather conditions.

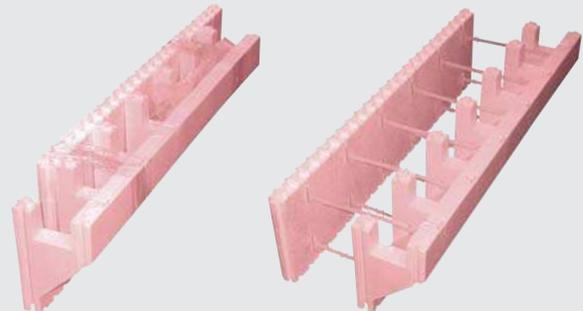
AFFORDABILITY. For the builder, using the *Fold-Form* system means reduced labor at the job site. For the homeowner, it means smaller heating/cooling equipment and lower utility costs or insurance premiums. The result? Structures using *Fold-Form* Insulated Concrete Forms often cost less to construct and maintain than those built using conventional systems.

VERSATILITY. The *Fold-Form* system is a cost-effective technique for building warehouses, office and retail complexes, multistory industrial structures, and special-use buildings.

ADAPTABILITY. The *Fold-Form* system can be used to create special wall shapes for a more customized look. It also adds year-round versatility by reducing the costs associated with concrete or masonry construction during cold weather and, because of its thermal barrier, the steps required for concrete building in extremely hot conditions.

ALSO AVAILABLE: PRE-MOLDED BRICK LEDGE

- Assembled blocks are ideal for interior joist ledges. No special hardware is required for installation
- 4" monolithic ledge is pre-molded for 4", 6", 8" and 10" concrete walls
- Blocks fold flat, requiring less space on the truck and on the job. Each block includes 6 ledge spacer ties to insert at job site
- Positive interlock



* Owens Corning tests and reports all insulating products at a mean temperature of 75 degrees to determine R-value. The FTC requires that any insulating products installed in homes follow this process. Fold-Form Insulated Concrete Form walls attain R-20 by calculation, with concrete and exterior finishes.

** *Investigation of Wind Projectile Resistance of Insulating Concrete Form Homes*, Portland Cement Association, 1998.

*** Vanderwerf, P.A., S.J. Feige, P. Chammas, L.A. Lemay, *Insulating Concrete Forms for Residential Design and Construction*, 1st edition, McGraw-Hill, New York, 1997.



COMBINE FOLD-FORM® AND WEATHERPROTECTR® PRODUCTS FOR COMPLETE MOISTURE RESISTANCE



WeatherProtectR® Membrane is a proprietary, self-adhesive membrane uniquely formulated to combine low-temperature adhesion with dimensional stability and strength to provide a resilient barrier against water migration on foundation walls.

The membrane is designed to work with WeatherProtectR® P Primer and WeatherProtectR® M Mastic for optimal waterproofing performance.

PRODUCT BENEFITS

- The only fully integrated below-grade moisture resistance system specifically designed for use with polystyrene foam applications such as the *Fold-Form* system
- Provides optimal moisture and liquid control, helping to protect the foundation of a building
- Creates a premium air, moisture and thermal envelope when used with insulated concrete forms
- Can be applied at low temperatures
- Does not require tar, adhesives or special equipment for installation
- Works well with any structural concrete, masonry, wood, plywood, metallic or plastic surface

For more information on the benefits of combining the *Fold-Form* system with the *WeatherProtectR* system, see the Owens Corning *WeatherProtectR* product brochure (Pub. No. I00374-A).

LEARN MORE ABOUT FOLD-FORM® INSULATED CONCRETE FORMS

The *Fold-Form* Web site—www.foldform.com—includes a step-by-step installation and assembly guide as well as a directory to help you locate the *Fold-Form* supplier nearest you.

For technical support and questions about *Fold-Form*, call 1-800-GET-PINK or 1-800-551-3313 in North America. Or, if you're interested in becoming a **Certified Fold-Form® Contractor**, contact your Owens Corning Area Sales Manager today for certification details and requirements.



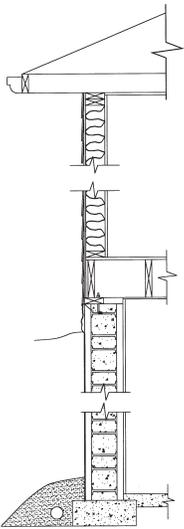


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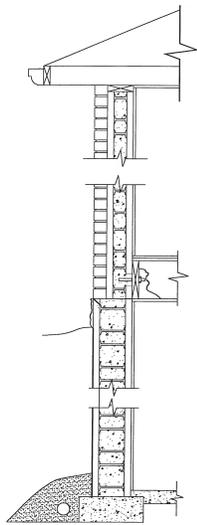
GENERAL SPECIFICATIONS

Installers and designers must comply with local building codes for monolithic reinforced concrete construction. If local codes are not available, structural design parameters are available from the ACI (American Concrete Institute) and the PCA (Portland Cement Association). Guidelines for the proper assembly, bracing and concrete placement for *Fold-Form* are available from Lite-Form® Technologies and authorized *Fold-Form* suppliers.

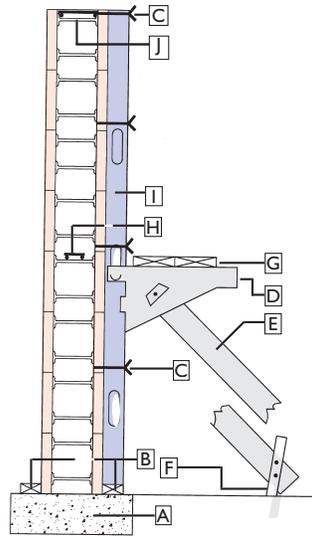
In buildings where people normally work, reside or assemble, rigid polystyrene concrete forms must be fully protected from the interior of the building by not less than ½" drywall or the approved fire-resistant equivalent. Installer must follow the finish manufacturer's instructions and warranty restrictions for all materials applied to wall forms.



Fold-Form® basement and wood frame upper wall and wood floor joists in the floor system.



Fold-Form® basement and upper wall with brick veneer. Metal joist hangers are anchored to concrete wall.

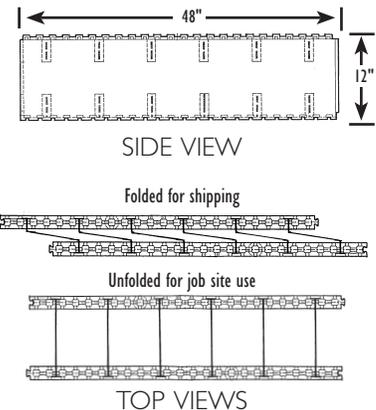


Steel reinforcing not shown. Installer must follow approved reinforcing codes, which may vary from region to region.

Typical form setup and bracing (not to scale)

- A. Footing or pad
- B. Alignment cleats
- C. Wire anchor to vertical brace
- D. Scaffold bracket
- E. 2x4 diagonal brace
- F. Brace anchored at base
- G. Scaffold platform
- H. In-wall brace, full perimeter
- I. 2x4 vertical brace
- J. In-wall brace, full perimeter

Folding EPS Form Sections



To Determine Concrete Volumes (Cubic Yards)

Height (ft.) x Length (ft.) x Thickness (in.) x .0031 = cu. yds.

Form Wall Thickness

2" per side, continuous polystyrene

Fire Rating (Siliceous Aggregate) by Test. Concrete Wall Without Insulation

4" concrete wall: 1 hr. 6" concrete wall: 3 hr. 8" concrete wall: 4 hr.

STC (Sound Transmission Class)

8" concrete, forms and finish: STC 53 by calculation

EPS Insulation Properties

Supplied by manufacturer

TYPE II Expanded Polystyrene Foam

15 p.s.i. minimum compressive strength

1.70 p.c.f. minimum density

Complies with ASTM E 84 (flame spread and smoke development)

Form Widths for Concrete Wall Thicknesses of 4", 6", 8", 10", 12", 14", 16"

In-Wall Bracing Widths 4", 6", 8", 10", 12"

R-Values*

Insulating forms only

R-16 at 75° F mean temperature

R-18 at 25° F mean temperature

Finished wall, by calculation

R-20 at 75° F mean temperature

R-23 at 25° F mean temperature

*note - Federal Trade Commission uses R-values determined at 75° F mean temperature for residential

For more information on the Owens Corning family of home building products, contact your Owens Corning dealer; visit our Web site at www.owenscorning.com or call **1-800-GET-PINK.**



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