



1. Product Name

PINKFORM XTRA™ Rigid Foam Insulation Concrete Forming System

2. Manufacturer

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3. Product Description

BASIC USE

The heart of the Owens Corning PINKFORM XTRA™ Insulated Concrete Forming System is an array of basic elements which have been field tested for over 10 years. It combines these elements to dramatically reduce shipping/handling costs, assembly time and general construction overhead. The result is a cost-effective, lightweight, concrete forming system with a host of benefits unique in the industry.

COMPOSITION & MATERIALS

PINKFORM XTRA Extruded Polystyrene Insulation

For the complete system, 2" (51 mm) thick sheets of PINKFORM XTRA insulation are precisely cut and sized to create the form walls. As a result, every project benefits from the stable, high efficiency properties of this proven material. For decades, this type of rigid polystyrene insulation has been preferred because of its unique benefits:

- Virtually waterproof for below grade applications
- Superior insulating value
- No environmental contamination or toxic materials
- Extensively tested and documented to meet all code requirements

Polypropylene Connector Ties

The PINKFORM XTRA Insulated Concrete Forming System features patented Life-Form® connector tie technology. All connector ties have excellent insulating qualities to minimize

thermal bridging. The patented design has the internalized strength to perform in a wide range of cast-in-place concrete construction projects.

90 Degree Corner Ties, T-Intersection Ties

The appropriate ties are included with each processed Corner Kit. The 1 piece tie design for both 90 degree corners and T-intersections reduces the assembly time and ensures proper alignment with a minimum of exterior bracing.

Folding Connector Ties

All preassembled wall sections include these unique folding ties installed 8" (203 mm) oc. Drywall and other finish materials are attached directly to the tie's exposed tabs. For traditional concrete walls, tabs are snapped off, releasing insulation for stripping. Ties are hinged to allow for high density packaging and shipping of preassembled wall sections.

Internal Alignment Brace

This unique PINKFORM XTRA accessory is available for insertion into form walls that are over 4' (1219 mm) tall. At the jobsite, it integrates into all preassembled wall sections and reduces typical external bracing requirements by 50%.

Hinged Connector Ties

These ties allow preassembled wall forms to be folded flat, eliminating wasted space for shipping and storage. Sections are quickly unfolded at the jobsite for final assembly. Owens Corning offers preassembled wall sections which constitute the major portion of the forms needed for most residential or commercial projects and drastically reduces the time consuming step of form assembly. The elements quickly integrate with each other as well as a host of special forming accessories.

Preassembled Wall Sections

Form walls are preassembled into 2' (610 mm) high, 8' (2438 mm) long sections. The folding connector ties provide for high density palleting of these sections to cut shipping and handling costs to a minimum.

Pallet capacity is 300% greater than typical rigid insulating concrete forms.

Processed Board

PINKFORM XTRA Insulation that has been factory processed is available for onsite assembly.

Processed 90 Degree Corner Kits, T-Intersections

A unique feature of the PINKFORM XTRA system is the high strength corner design. Once assembled, corners and intersections require

a minimum of external bracing. The insulation portion of the 90 degree corner kits is processed for quick assembly with the appropriate connector ties. The kit is supplied complete, using the same high density palleting technique as the wall sections. Processed Corner Kits, as well as intersections, are engineered to integrate with preassembled wall sections. Once constructed, wall and corner forms are clamped together for a precise, dependable fit.

SIZES

See product data sheet for complete size data.

COLORS

PINKFORM XTRA can be recognized by its characteristic pink color.

LIMITATIONS

PINKFORM XTRA is practical for all buildings having normal temperature conditions but should not be used in contact with chimneys, heater vents, steam pipes or other surfaces where temperatures exceed 150 degrees F (65 degrees C). It is not recommended for applications where sustained temperatures exceed 165 degrees F (74 degrees C).

All construction should be evaluated by a qualified design professional for the necessity of providing vapor retarders to avoid condensation and subsequent damage to the structure. See current ASHRAE *Handbook of Fundamentals* for more information.

Provisions should be made to protect the insulation from excessive exposure to direct sunlight by covering the insulation as soon as possible.

Some plastic or oil based adhesives and many solvent laden mastics are not compatible with polystyrene based rigid foam insulation.

4. Technical Data

APPLICABLE STANDARDS

- ASTM C203 Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation
- ASTM C272 Standard Test Method for Water Absorption of Core Materials for Structural Sandwich Constructions
- ASTM C518 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
- ASTM D1621 Standard Test Method for Compressive Properties of Rigid Cellular Plastics



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- ASTM D2126 Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging
- ASTM D2863 Standard Test Method for Measuring Minimum Oxygen Concentration to Support Candle-Like Combustion of Plastics (Oxygen Index)
- ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
- ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials

ENVIRONMENTAL CONSIDERATIONS

Conserving energy through effective insulation lowers fuel consumption and resultant operating cost.

PHYSICAL/CHEMICAL PROPERTIES

Provides an R20+ when left in place. Test reports and additional information are available upon request.

- Flexural strength, 75 psi (517 kPa) min
- Water absorption, 0.10 % by volume max
- Thermal conductivity k-value of 0.20 at 75 degrees F (24 degrees C)
- Thermal conductivity k-value of 0.18 at 40 degrees F (4 degrees C)
- Compressive strength of 25 psi (172 kPa) min
- Dimensional stability of 2% linear change max
- Oxygen index, 24 min
- Flamespread, 5
- Smoke developed, 45 - 175
- Water vapor permeance, 1.1 perm max

FIRE PERFORMANCE

Fire resistance rating of 8" (203 mm) finished wall is 3 hours.

SOUND PERFORMANCE

Sound Transmission Class for an 8" (203 mm) finished wall is STC 58.

5. Installation

PREPARATORY WORK

Handle and store product according to Owens Corning recommendations.

High Density Palleting

All preassembled wall sections are provided on standard pallets for common carrier shipping and forklift handling. The folding feature of the standard connector ties eliminates wasted space for shipping and handling.

Site Preparation

Forms are placed on a standard footing or concrete pad. Temporary cleats keep forms aligned during final assembly and insertion of

concrete. Any building code required reinforcing bar schedule can be accommodated.

Customizing

Preassembled wall sections are easily trimmed to fit any project dimension. The common vertical seams between the 2' x 8' (610 x 2438 mm) sections are quickly clamped together without special tools.

METHODS OF APPLICATION

Final Assembly

In addition to producing a fully engineered concrete wall, the PINKFORM XTRA system gives the installer freedom to incorporate any reinforcing bar schedule for residential or commercial projects.

Special Shapes

The installer can incorporate a wide variety of accessories to assemble special shapes such as 45 degree angles and curved walls. They integrate into the PINKFORM XTRA elements and are quickly assembled at the jobsite.

Bracing

The internal strength of the PINKFORM XTRA design offers the builder the ability to construct forms with a minimum of external bracing. Vertical braces are placed every 8' - 10' (2 - 3 m) along 1 side of the form and anchored with dimensional lumber and hand tools. Diagonal bracing is used to align the form and provide final support. Complete installation recommendations are available from the manufacturer.

PRECAUTIONS

Caution - Combustible

PINKFORM XTRA insulation will ignite if exposed to fire of sufficient heat and intensity, although it does contain a flame retardant additive to inhibit ignition from small fire sources. Products intended for wall applications should be installed only with a thermal barrier on the interior side of the wall. During shipping, storage, installation and use, this product should not be exposed to open flame or other ignition sources.

BUILDING CODES

Current data on building code requirements and product compliance may be obtained from Owens Corning technical support specialists. Installation must comply with the requirements of all applicable local, state and national code jurisdictions.

6. Availability & Cost

AVAILABILITY

PINKFORM XTRA products are available through a network of Owens Corning distributors throughout the country. Contact manufacturer for more information. Note: All products and sizes may not be available in all markets. For information about nonstandard products, consult a local sales representative.

COST

Budget installed cost information may be obtained from a local Owens Corning distributor or from the manufacturer.

7. Warranty

It is the responsibility of the contractor to install PINKFORM XTRA in accordance with Owens Corning's published recommendations. The presence of an Owens Corning representative at the jobsite does not relieve the contractor from the responsibility to follow these instructions. Owens Corning is not responsible for any liability resulting from a failure to follow these instructions. The manufacturer offers a warranty on retention of R-value over time. The manufacturer's liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to the manufacturer within 30 days from the date it was, or reasonably should have been, discovered. Further information on warranty conditions, duration and remedies may be obtained from Owens Corning.

8. Maintenance

These products are maintenance-free when installed according to the manufacturer's published recommendations.

9. Technical Services

A staff of factory trained service personnel offers design assistance and technical support. For technical assistance, contact Owens Corning.

10. Filing Systems

- First Source for Products
- MANU-SPEC®
- Sweet's Catalog Files
- Additional product information is available from the manufacturer upon request.

