

Section 1

Introduction to TF System® Thermo-Forms

What are insulated concrete forms?

Insulated Concrete Forms (ICFs) are concrete forms incorporating rigid insulation that remain in place after the concrete is poured to serve as a functional part of the wall. ICF construction techniques produce solid, energy efficient walls for high performance structures.

What is the TF System® Thermo-Form Insulated Concrete Building System?

The Thermo-Form system is a vertical ICF consisting of alternating high density polystyrene panels and structural stud rails. On or off site, these components are assembled as vertical concrete wall forms. Thermo-Forms may be used to construct frost walls, basements, and above grade walls in both residential and commercial construction.

Why is the Thermo-Form vertical ICF better?

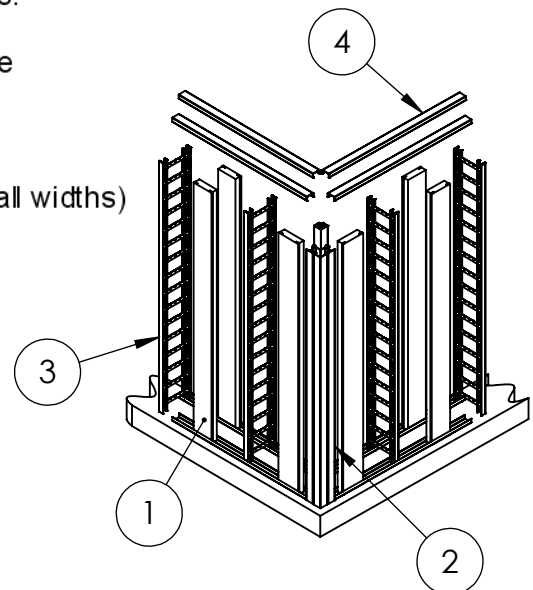
Thermo-Forms have been engineered to solve the problems common to horizontal ICF design. The vertical orientation eliminates wall form floating and settling, providing a wall that is dimensionally accurate. There is no need for gluing, taping, or tying forms together, making assembly simple and efficient. Thermo-Form components form the walls, provide insulation, create a vapor barrier, and serve as convenient and predictable attachment points - all in one easy step. This unique design differentiates innovative professionals in the building industry, while providing the competitive edge they desire.

Why Choose the Thermo-Form system?

The design of the Thermo-Form system is based on decades of actual contractor experience. Our extensive product and jobsite knowledge allows us to provide superior technical support and unparalleled customer service. We recognize the challenges contractors face and remain dedicated to providing the highest quality product, based on the latest research and development.

The Thermo-Form system is comprised of four main components:

1. Panels - high density (1.5 nominal lb/ft³) expanded polystyrene
2. Corner sets - rigid recycled PVC
3. Stud rails - available in two materials
 - a) rigid recycled PVC in standard wall widths
 - b) double thickness 26 gauge galvanized steel (for custom wall widths)
4. C-channel – 27 gauge galvanized steel



TF System® – The Vertical ICF

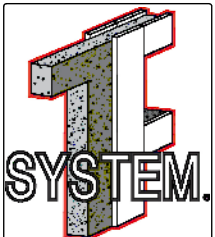
Phone: (920) 983-9960

Toll free: (800) 360-4634

Fax: (920) 983-9962

E-mail: info@tfsystem.com

www.TFSystem.com



Thermo-Form
System Overview

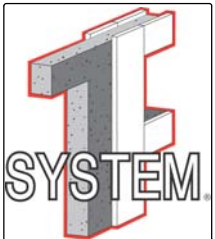
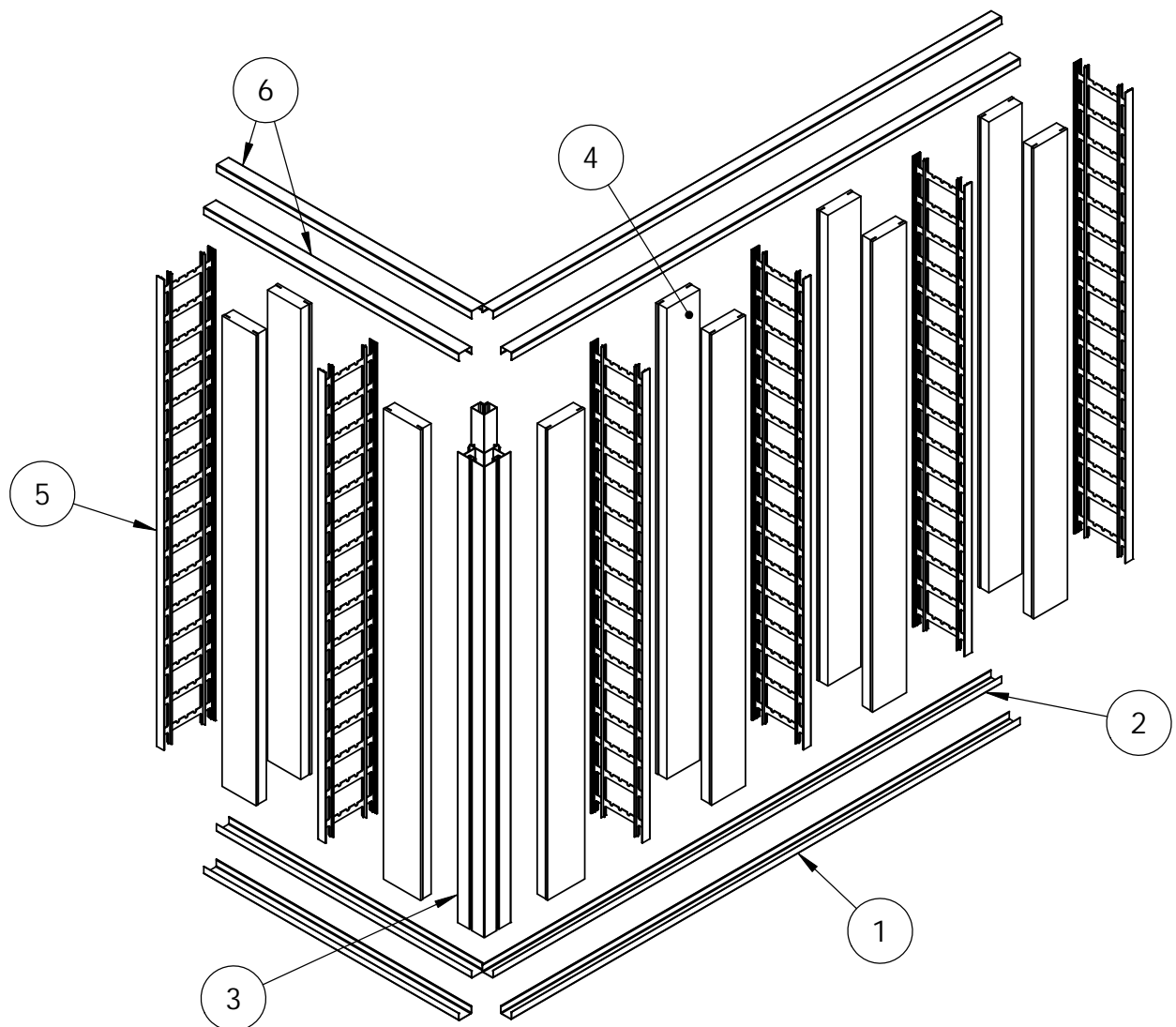
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How Are Thermo-Form Components Assembled?

1. Outside c-channels are nailed down to footer or slab.
2. Inside c-channel is held in place by the form system and only nailed down at interior return corners.
3. C-channel is butted up to corner set and screwed together.
4. Poly panels fit into mating grooves of corner set.
5. Studs are pressed into slots in poly panels.
6. Top cap c-channels fit over the poly panels and are screwed together with $\frac{3}{4}$ " sheet metal screws.



Thermo-Form
Basic Assembly

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