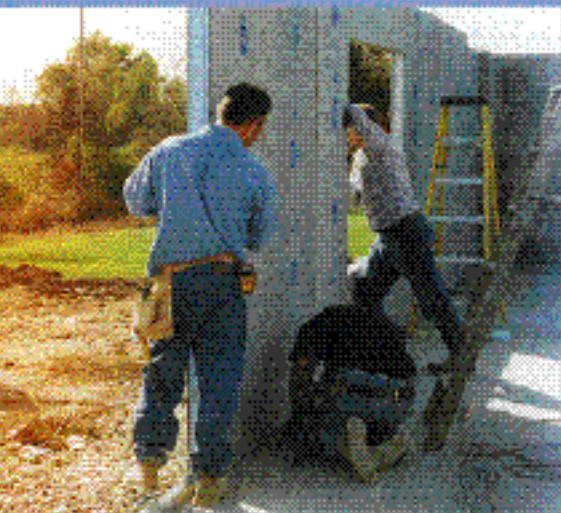


A PRODUCT FROM
T. CLEAR CORP.

SIMPLY BUILT TO LAST.



ProTEC®
CONCRETE STRUCTURAL INSULATED PANEL SYSTEM

FOR RESIDENTIAL
AND COMMERCIAL
CONSTRUCTION



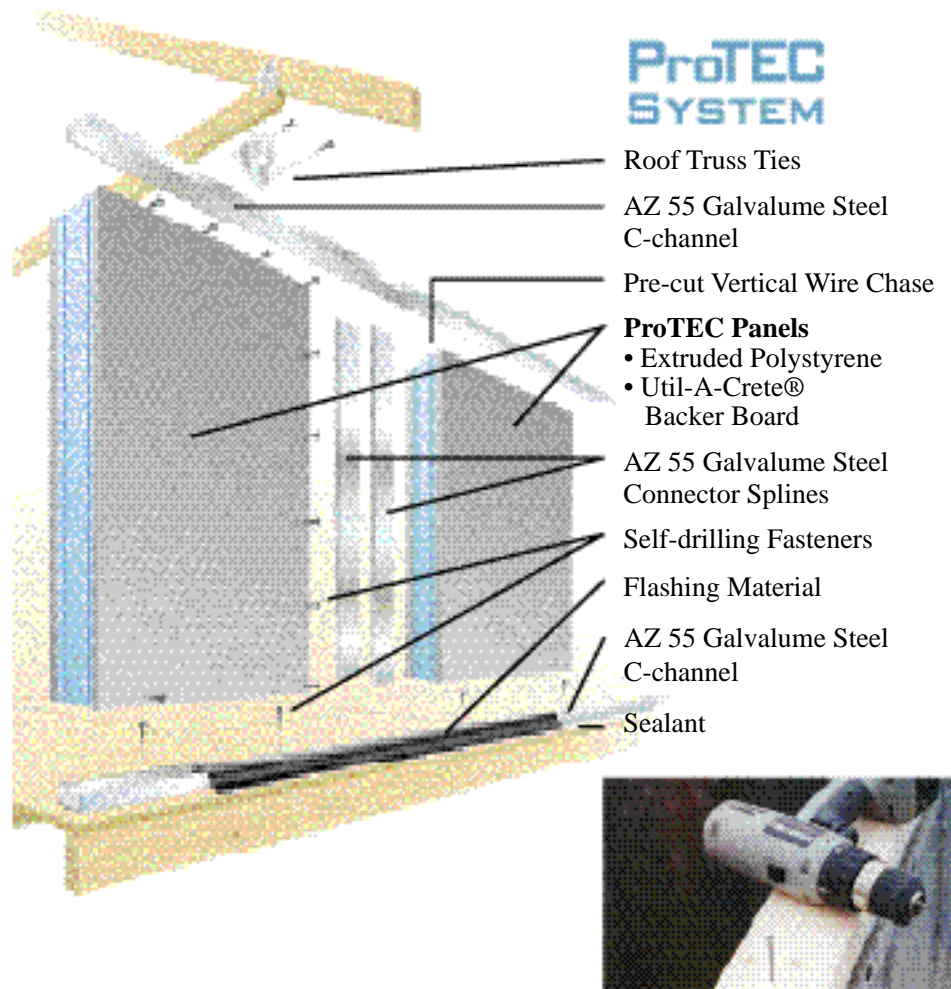


SIMPLY BUILT TO LAST.

The ProTEC® Concrete Structural Insulated Panel System provides a well engineered alternative to conventional lumber framing systems for residential or light commercial structures. Containing no wood, the ProTEC System offers moisture resistance throughout, quick and easy construction, and the best energy efficiency on the market today.

Despite every precaution in today's building market, moisture and water intrusion is a frequent problem. The ProTEC Panel System uses only components that are unaffected by moisture and will not warp, soften or decay. The ProTEC Panel System uses materials with over 60 years of proven experience, which are assembled into a uniquely engineered concept to meet the needs of today's building market — lack of skilled workers, rising lumber prices, and increased energy costs.

With the ProTEC Panel System, each panel is framing, sheathing, and insulation all in one. The panels are ready to finish on both the interior and exterior sides. The embedded connector system prevents air infiltration and heat loss, and provides for a nearly continuous insulation value. This means less drafts, greater comfort, and lower energy bills.



**ProTEC
SYSTEM**

- Roof Truss Ties
- AZ 55 Galvalume Steel C-channel
- Pre-cut Vertical Wire Chase
- ProTEC Panels**
 - Extruded Polystyrene
 - Util-A-Crete® Backer Board
- AZ 55 Galvalume Steel Connector Splines
- Self-drilling Fasteners
- Flashing Material
- AZ 55 Galvalume Steel C-channel
- Sealant

FEATURES & BENEFITS

ProTEC System Design

- Completely moisture resistant materials
- Uses proven building products
- Reduced labor time and costs
- Less skilled labor required
- Requires no special tools
- More buildings can be built in less time with fewer associated expenses

ProTEC System Components

Styrofoam® Brand
Extruded Polystyrene Core

- Long term insulation value (R-20)
- Lower energy costs
- Closed cell structure is moisture resistant
- 15-year limited thermal performance warranty

Util-A-Crete® Concrete
Backer Board Skin

- Lightweight concrete core
- Non-combustible
- Moisture and impact resistant
- Will not warp, decay, soften, or swell
- Ready-to-finish exterior and interior

Non-Corrosive Galvalume
Connectors

- Embedded splines virtually eliminate air infiltration and heat loss
- Coated, non-corrosive self-tapping fasteners

Environmentally Sound

- Recyclable, contains no CFCs
- Reduces lumber usage



PROVEN MATERIALS.

Each ProTEC Panel consists of a sheet of extruded polystyrene insulation bonded, front and back, to sheets of Util-A-Crete® Concrete Backer Board. The panels are slotted and connected by means of non-corrosive, Galvalume-coated steel splines and screw-in fasteners.

Extruded polystyrene is a rigid closed cell insulation that resists all forms of moisture. It has a minimum R-Value of 5 per inch and is backed by a 15-Year Limited Thermal Performance Warranty, which guarantees that the insulation will retain at least 90% of its R-Value.

Util-A-Crete Concrete Backer Board is reinforced with a woven fiberglass mesh and has been proven by independent laboratories to be the

strongest backer board in the industry. Util-A-Crete has been shown to resist moisture and provide an impact-resistant surface.

With the Util-A-Crete facings, the ProTEC Panels are ready to finish. Inside panel joints are taped and finished like drywall. Exterior finish options are unlimited. You can even stucco directly to the panel.

The ProTEC Panels are connected with AZ 55 Galvalume-coated steel splines which are fully encased in the panel and not exposed to the elements. AZ 55 Galvalume has been shown to last 5 to 10 times longer than G 90 galvanized steel.

RESIDENTIAL & COMMERCIAL BUILDING.

The ProTEC Concrete Structural Insulated Panel System is as flexible to design with as it is easy to construct. Using simple tools and even untrained labor, a crew of only a few workers can typically erect the walls in a fraction of the time it takes for conventional framing. This adds up to fewer delays and a quicker overall construction cycle.

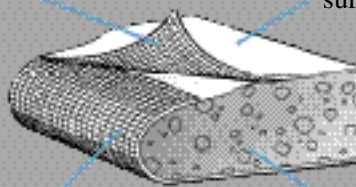
ProTEC Panels come standard with pre-cut chases to help speed the wiring operation. Because of the Util-A-Crete facings, time and materials are saved when finishing both the interior and exterior surfaces.

All in all, buildings constructed with ProTEC Concrete Structural Insulated Panel Systems are strong, tight, and easy to assemble. They are energy efficient, resistant to moisture, and environmentally sound. They are, **simply, built to last.**

ProTEC PANEL SURFACE

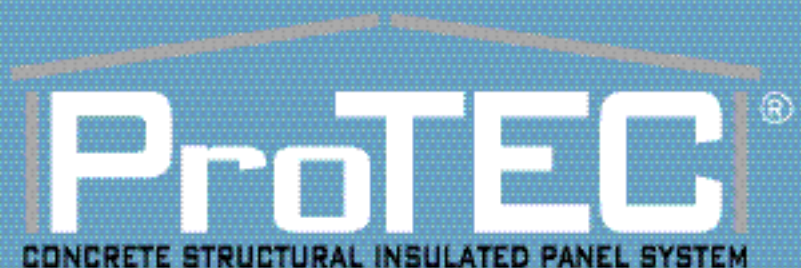
Fiberglass mesh reinforcement

High-density Portland Cement surface



Wrapped, tapered edge

Lightweight concrete core



SIMPLY BUILT TO LAST.

T. Clear Corporation
also manufactures
LIGHTGUARD® & HEAVYGUARD®
Protected Membrane
Roof Insulation Panels,
WALLGUARD® Panels,
THERMADRY® Insulating
Drainage Panels, and
THERMACAV® Insulating
Cavity Wall Panels.

NOTICE: Styrofoam brand insulation is combustible and should be protected from flame and other high heat sources. It should be installed with code-acceptable, thermal barriers or used in approved, alternative constructions.

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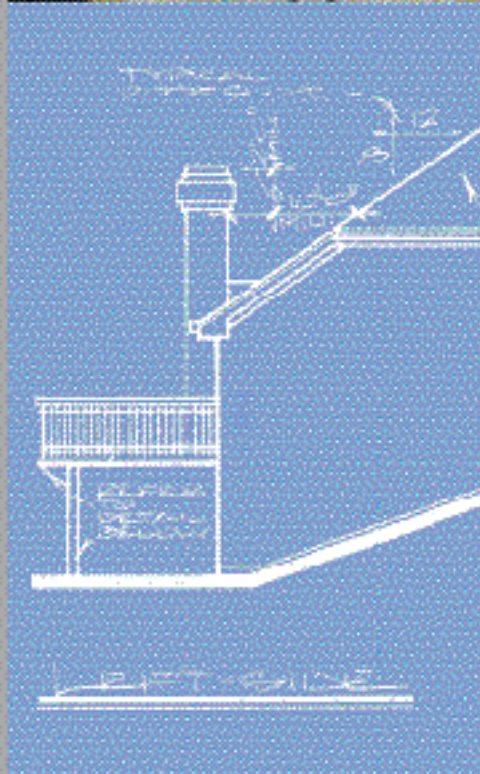
The following EVALUATION REPORTS are available on the ProTEC Concrete Structural Insulated Panel:



National Evaluation
Services, Inc.
Report No. NER-581



ICBO Evaluation
Services, Inc.
Report No. PFC-5557



As an Energy Star® Partner, T. Clear Corp. has determined that ProTEC® Concrete Structural Insulated Panels meet the Energy Star® guidelines for energy efficiency.

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Styrofoam® is a registered trademark of the Dow Chemical Company

T. Clear Corporation is a subsidiary of FinPan, Inc.

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