

Our mission is to make construction simpler, more environmentally responsible, and more focused on building envelope performance. The result is safe, healthy, sustainable and affordable buildings.



ECO-SIP
BUILDERS INC.

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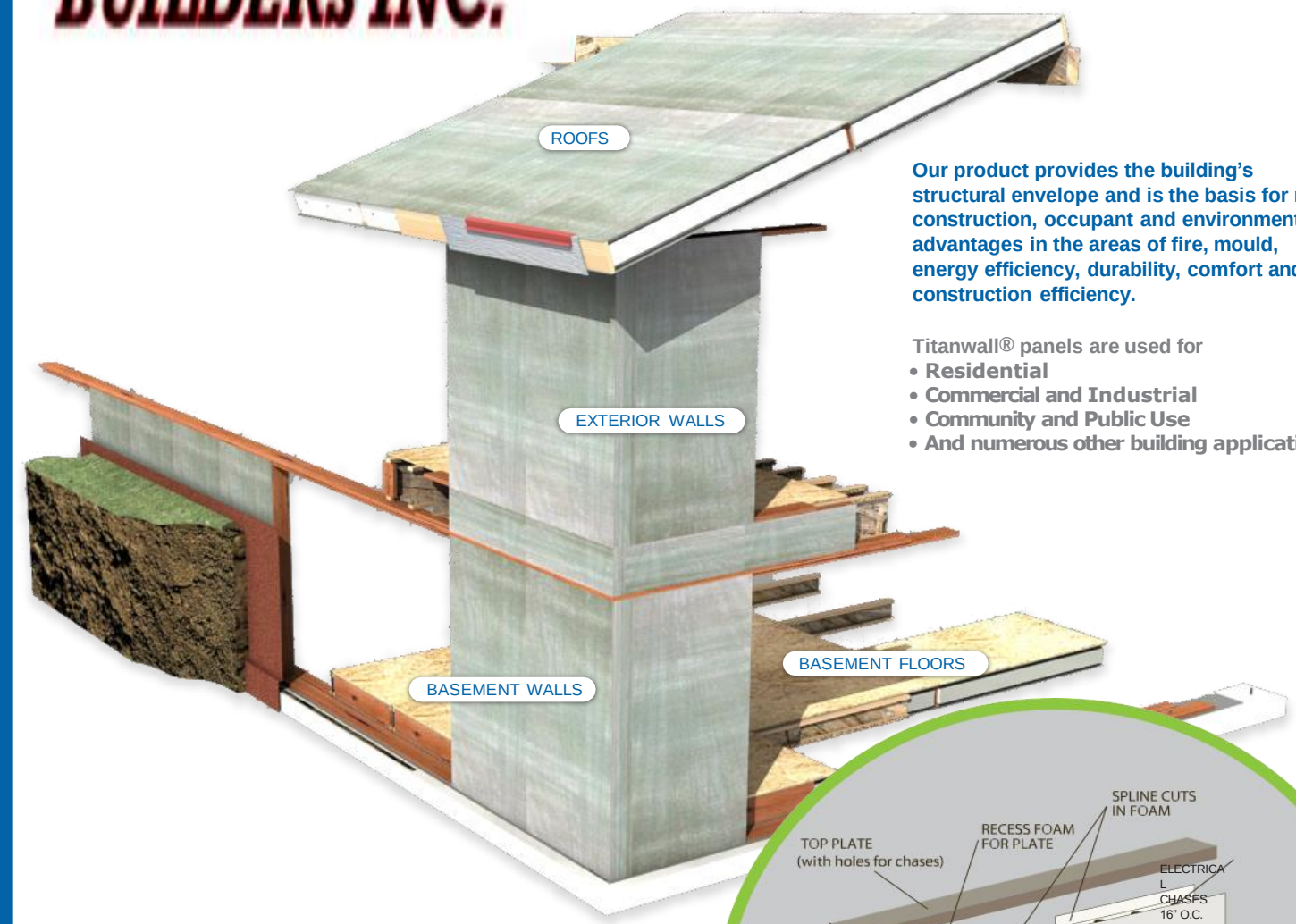
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ECO-SIP
BUILDERS INC.

® High Performance Building Envelope



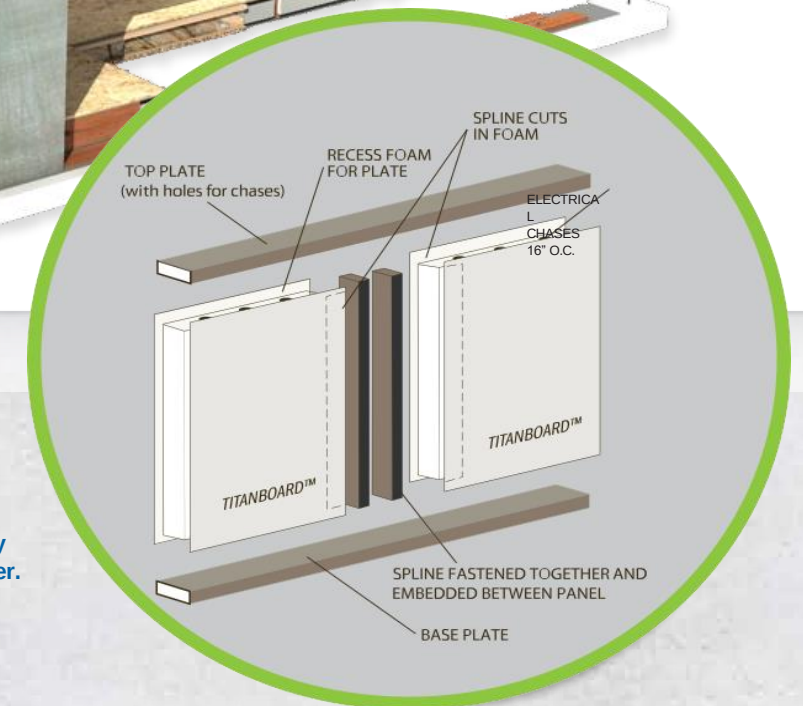
Our product provides the building's structural envelope and is the basis for many construction, occupant and environmental advantages in the areas of fire, mould, energy efficiency, durability, comfort and construction efficiency.

Titanwall® panels are used for

- Residential
- Commercial and Industrial
- Community and Public Use
- And numerous other building applications

The panel is made of continuous core EPS (Expanded PolyStyrene) insulation pressed between two sheets of Magnesium Oxide (MgO) sheathing.

Panels are fastened to a base plate, connected by 2-ply dimensional lumber, and topped with a top plate of lumber.



The Titanwall® Advantages

The Magnesium Oxide (MgO) composite material, when laminated to the rigid EPS insulation, offers multiple advantages for building construction:



Fire Resistance

Zero flame spread and zero smoke contribution

Fire Rated Assemblies: 45 minutes, 65 minutes and 120 minutes



Superb Energy Efficiency

Thermal sheathing mass combined with continuous EPS insulation provides the building's energy requirements to minimal level

Simple and inexpensive HVAC and HRV systems complete the envelope

Greatly reduced heating and cooling costs



Healthier Buildings

Titanwall® SIPS have no nutrients to feed mould or insects

No off-gassing - the insert material is virtually VOC-free

Snug, comfortable and quiet space



Environmentally Responsible

Reduced material waste and jobsite waste

Reducing energy consumption reduces greenhouse gases (almost 50% of energy consumed is for buildings)



Strength and Durability

structurally stronger and straighter than a conventional wood structure. The EPS core provides rigidity and the TitanBoard® outer skin provides tremendous tensile and compressive strength. The result is a plumb, level and impact resistant.



Simplified Construction

Interior/Exterior Sheathing and insulation all in one component. No building wrap or vapor barrier required

Reduces Skilled Trade required

Reduces non-value added labor

Reduces concrete work

Clean and quicker turnover

How we Supply our Panels

Our scope of supply can range from Supply only to complete building envelope packages, turn key option and consulting throughout your entire project.

- Custom cuts and rough openings
- “Jumbo” panels for taller and larger walls and roof sections
- Connecting lumber pre-loaded into single panels

To assist you through all stages of your project, Titanwall also offers Drafting, Design and Engineering (both structural and mechanical) services, and will train your crew or provide a qualified installer

Individual Titanwall® panels are 4 ft. in width and available in a variety of thicknesses and lengths to accommodate desired wall heights and R-Values. Electrical chases are pre-cored 16" OC.			
Lengths available are 8', 9', 10' and 12'	Thickness	R-Value	Common Usage
	4.5"	18	Cladding, Fences, Interior Walls, Sheds & Garages
	6.5"	26	Cladding, Exterior Walls, Basement Floors
	8.25"	34	Roofs, Basement Walls, Basement Floors
	10.5"	43	Roofs
* Thicker or custom thickness, available upon request.			

Manufacturing Quality

Titanwall® has developed proprietary manufacturing equipment to address the unique aspects of MgO panel fabrication and to deliver the best panel in the business.



Bonding Performance

Computer controlled glue distribution ensures precise and thorough glue delivery, ensures adhesion mixture automatically adjusts to ambient temperature and humidity.



Dimensional Precision

Every pressed panel is squared with beveled edging and pre drilled by a large format CNC Milling machine to ensure precision.



Connections Quality

Proprietary spline fabrication equipment increases the lumber precision for better quality connection.