

Mould -- Our system is non-nutrient and therefore does not support mould growth.

Fire

- Mag-Wall panels are tested to ASTM standards and have received a 30 min. rating.
- They are rated at zero for flame spread and zero for smoke developed in a fire.

Technical

Energy efficiency

- EPS insulation is used as the core of the panel.
- EPS holds a true R-value of 3.75 per inch.
- 6 7/16" panels provide R-22 insulating value.
- 8" panels provide R-28.
- 10" panels provide R36.

Testing

- Mag-Wall panels have been tested in an accredited 3rd party lab for structural and fire resistant properties to ASTM standards.
- Under the building codes in Canada and the USA, products that have been tested in an accredited 3rd party lab for fire and structural properties, may be used as an engineered product in construction.

Construction

- Panels come standard in 4' x 8' and 4' x 9' and 4' x 10' configurations.
- Panels are cut to fit on site as required.
- Interiors can be taped and sanded using traditional methods and materials for drywall.



Advantages of Building with the Mag-Wall System

- **FAST construction**, with less reliance on highly skilled trades
- **ELIMINATES** framing, insulating, vapour barrier installation and wall cribbing
- **ENERGY EFFICIENT** - Up to 40% heat loss reduction vs stick built. Significant heating and cooling savings. Less temperature fluctuation, less drafty, provides an excellent sound barrier creating a more comfortable living environment.
- Superior structural strength to stick built. Performs better under extreme weather conditions - earthquakes, hurricanes, etc. Less material waste and handling. Superior wall strength. No nail pops. Cabinetry and pictures easier to hang.
- Interior and exterior walls can be finished without additional sheathing - eliminates costly steps and additional materials. Available with wood and grain outside wall finish.
- Water, Mould, Insect* and Fire resistant.
**"You could put 2,000 termites in a jar and throw in MagBoard™ as their only food source, and they'd rather die than eat it," a MagBoard™ representative says.



Mag-Wall Pacific Inc.
structural insulated panel system

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Mag-Wall

Structural Insulated Panel System



Fire Protection Energy Efficient
Water Resistant Mould Resistant
Structural Integrity Environmentally Friendly

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What is the New Mag-Wall System?

This new Mag-Wall system is a patent pending proprietary system, recently developed in Canada. This system was developed to address concerns and deficiencies related to residential and commercial construction.



These panels can be used to replace any type of residential or commercial building envelope (wall), including basement foundation and frost walls, as well as many roof applications.

What is a Mag-Wall SIP?

Structural Insulated Panels are a composite building material. They consist of a sandwich of two layers of structural board with an insulating foam in between. They are made with MagBoard™ sheathing. These are structural sheaths that can be finished like drywall on the interior, and covered with siding materials or have stucco applied directly to the exterior of the panel. When the panel is used for basement or foundation walls, foundation spray can be applied directly to the surface.

Why is this a superior product to traditional construction materials?



In accredited third-party testing, this combination has outperformed traditional products such as wood frame and light gauge steel construction, as well as traditional OSB structural insulated panels. It can also be used to replace traditional concrete foundation and frost walls.

The system also eliminates more seasonal related work stoppages, due to the ability to assemble in cold weather and damp conditions. Our system requires less skilled labour and can be completed in a fraction of the time. A simple foundation wall can be erected in hours, as opposed to days. The panel also eliminates the interior frost wall required with concrete.

Mag-Wall Panels are fire rated at 30 minutes, without a flame, compared to the building code requirement of 15 minutes.

With the introduction of new siding products over the past 20 years, fires are becoming more severe within minutes. It is anticipated that there will be changes to the building code in the near future, requiring a minimum of 1/2" drywall on the exterior of the structural sheathing, adding cost and time to the project.



The Mag-Wall system addresses these concerns with a single product time.

What it can do for you...

For Residential Construction

Offers versatility and more importantly, solutions to issues like energy efficiency, mould and quality of installations, at a cost comparable to current construction.

The structural properties offer safety and sustainability of the building structure in hurricane and earthquake belts.

Resistance to high winds, debris damage, mould and contamination absorption, lower refit costs, vacancy periods and insurance rates.

The system brings the construction industry one step closer to a solution for the affordable housing crisis by reducing the skill level of the installer while ensuring the integrity of the building envelope.

For **INDIVIDUALS**, the product allows them to construct their home themselves, without the need to purchase special tools.



For Commercial Construction

The system can actually save money from typical construction techniques. Most of the savings come by eliminating steps in the construction and therefore costly and time consuming labour.

With a single step in construction, the exterior can be sealed and insulated, allowing trades to proceed with the interior finishing.

With the movement to **GREEN** construction, the system brings alternative energy sources into commercial affordability in all types of construction. The tighter, more efficient building envelope will typically reduce **Ground Source** infrastructure costs by up to 40%.

Safety

Health

TOXIC OFF-GASSING has become a serious health issue in residential construction.

Juvenile **ASTHMA** is increasing at an alarming rate. Asthma attacks are allergic reactions to triggers or exposures. There is a clear connection between Asthma and housing. "**Poorly maintained or designed housing is the disease - Asthma is the symptom**". *SOURCE: Asthma Regional Council of New England.*

The Mag-Wall System provides both immediate and ongoing health benefits - at installation they do not create any poor health with their existence, and they stop the ability for certain health hazards to be created. For the chemically sensitive, this system is a good alternative to drywall.