



*If you can find a better board ... buy it!*



**Current construction materials not working well? Have you heard of the magnesium-based structural panel that is revolutionizing the construction industry?**

## Now you have – it's MagBoard™

**Common Sense:** Experienced contractors know that current sheathing materials don't always do the job. They burn, rot, break, support mold and mildew or are eaten by termites and other insects. Finishing requires expensive applications driving up installed cost. With constant advances in technology, common sense says there must be a better way.

The better way is **MagBoard™**. **MagBoard™** has shown significantly better construction performance than common materials. Under extensive testing and real world use, **MagBoard™** has achieved a one hour fire rating, with higher ratings expected in current third party testing. Additionally, it is Class A rated for smoke and flame performance.

**MagBoard™** is also water resistant, impact resistant, termite, mold and mildew resistant (does not support mold growth) allowing the panels to be used virtually anywhere construction panels are needed. **MagBoard™** is sold in 4x8, 4x9 and 4x10 sheets and is priced competitively. **MagBoard™** is simply a better product.

**Peace of Mind:** In an era of increasing fire code requirements for decking and sheathing, **MagBoard™** is a cost effective solution. Reduced weather damage, shorter construction cycles, reduced materials inventory and labor costs all add up to the peace of mind of knowing you have a reliable product. Whether it is knowing you are safer from warranty claims for mold or simply better fire safety and structural performance. . . . **MagBoard™ - its Good For Your Customer and Good for You.**

### Applications

**MagBoard™** can be used as a replacement for OSB, plywood, cement board, interior and exterior drywall, and other products where fire safety, moisture, insect/fungus/mold resistance and impact resistance are primary considerations. Examples are single family homes, apartments, commercial buildings, schools, fire separations or other similar applications.

### Cost Savings

Using **MagBoard™** may cost less than conventional materials and methods. In commercial construction, savings come from elimination of steps in the building process. For example, where stucco or similar finishes are used, the base coat can be applied directly to **MagBoard™** eliminating the need for EPS sheathing. Similar efficiencies will occur in other applications.

Since **MagBoard™** is insect, fungus, and mold free, as well as fire resistant and water resistant, construction with **MagBoard™** may reduce insurance premiums in the case of fire, water or insect damage.

**MagBoard's™** durability is such that it can be left exposed to weather and UV for extended periods of time without product degradation. Traditional gypsum or wood based materials begin to deteriorate and support mold growth before installation. Often, conventional sheathing products that have deteriorated beyond their maximum design criteria (either on the pallet or in the building), continue to be used and covered in the finish of the building. This introduction of mold and fungus into the structure can be the underpinning of an unhealthy building.

## Properties

**MagBoard™** has undergone extensive, accredited third party testing under ASTM guidelines

**Mold and fungus free:** **MagBoard™** is non-nutrient and has been tested under ASTM G-21 guidelines.

**Water resistant:** **MagBoard™** is water-resistant. In addition, it shows no structural change after 25 cycles of freeze-thaw. Bending strength of **MagBoard™** remains unaltered when wet.

**Fire resistant:** **MagBoard™** has been tested for fire-resistant properties under ASTM E-119-00a. Currently, 12mm/1/2" sheathing is approved for a 1 hour fire rating. **MagBoard™** has a Class A fire rating (ASTM E-84) with zero flame spread and zero smoke developed. **MagBoard™** passes the "Hose Stream Test" for the 1 hour fire rating.

**Insect resistant:** Insects such as termites and carpenter ants are unable to survive in or on **MagBoard™**. They do not eat **MagBoard™** thereby helping to protect the building envelope.

**Structural properties:** **MagBoard™** has been tested for impact strength by BBS and has shown higher results than other similar products such as gypsum board, cement board and standard wood sheathing products. **MagBoard™** testing under ASTM E-72 has shown axial compression and racking loads to be higher than plywood or OSB sheathing. Transverse loads are similar to plywood and OSB. The structural properties of **MagBoard™** contributes to lower repair costs of damage from trades, particularly in commercial applications. In other applications where occupant damage to walls is common, **MagBoard™** will substantially reduce repair costs.

## Comparisons

Value	MAGBOARD	Cement Board	Plywood	Gypsum Wallboard	Gypsum Sheathing	O.S.B.
Flame Spread	0	0	0	High	Low/10	High
Smoke Developed	None	None	High	Low	Low	High
Water Resistant	Yes	No	No	No	No	No
Mold/Mildew Resistant	Yes	Yes	No	No	No	No
Termite Resistant	Yes	Yes	No	Yes	Yes	No
Thermal Insulation R Value per Inch	1.2	0.8	1.2	0.9	1.1	1.0
Impact Strength	High	Medium	High	Low	Low	Medium
Weight lbs/sq.ft.	2.2	3.1	1.6	1.9	2.4	2.0
Combustability	Non	Non	Burns	Facing	Facing	Burns
Structural	Yes	No	Yes	No	No	Yes
Environmental	Good	Good	Good	OK	OK	Poor
Freeze/Thaw	Good	Good	Good	Poor	Poor	Good
Finish						
Interior	Tape and paint	Provide cladding	Provide cladding	Tape and paint	Tape and paint	Provide cladding
Exterior	Apply stucco or cladding	N/A	Apply paper and stucco or cladding	N/A	Apply stucco or cladding	Apply paper and stucco or cladding

