

MAGBOARD PRODUCTS INC.



Non-combustible
Insulated Building Systems



***Confused about how to meet
the new energy and fire codes?***

Problem Solved!

We have a better idea to serve your needs to meet the new energy and fire codes for the exterior building envelope.



ROK-ON™ Structural Insulated Sheathing is a proven, cost-effective way to meet new mandates without reinventing the wheel.

Our approach is as simple as 1-2-3

- 1. Attach ROK-ON™ to the frame just like sheathing.**
Requires no special tools, trades, or fasteners to cut and install.
- 2. Caulk and seal the joints.**
- 3. Apply final architectural exterior.** A multitude of architectural finishes can be applied directly to ROK-ON™ to meet design specifications, without additional steps or costs. (Stucco, siding, brick, stone veneer, etc.)



www.ROK-ON.com

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Offices in Coronado, CA, USA, Milwaukee, WI, USA, Edmonton Alberta Canada, Ensenada BC Mexico,
USA – Richard Chase -1 (262) 893-8082 Canada - Gordon Ritchie (780) 430-6300 Mexico – David Chase (775-750-2152)

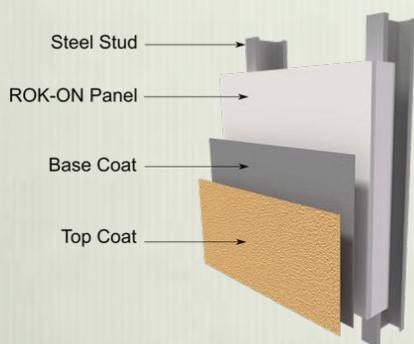


ROK-ON™

Structural *Insulated* Sheathing

ROK-ON™ fiberglass reinforced ceramic cement sheathing is laminated to EPS foam to create a thin structural panel that is attached directly to framing as the exterior insulated sheathing. The result is a high-performance, lower cost solution for exterior walls that exceeds the North American building codes for energy and fire performance.

ROK-ON™



3 steps

- Easily Inspected
- R-11
- Non combustible
- Will Not Rot
- Mold Resistant
- Impact Resistant
- Bug Proof

Cuts and attaches like OSB/DensGlass® without special tools or fasteners.

Fully tested to meet all applicable 2015 IBC building codes.

NFPA 285 - exceeded criteria by 30% 0 flame/0 smoke. /ASTM E 84 – 0 flame/0 smoke / ASTM E136 – non combustible

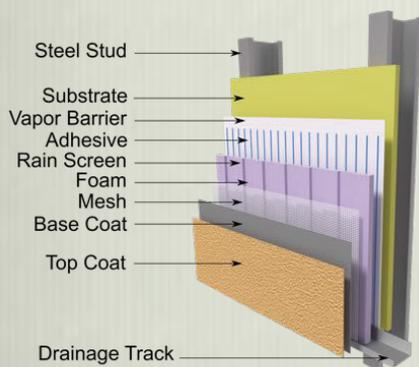
IBC Code Compliance

Chapter 7 – Fire resistant rated construction
Chapter 16 – Structural transverse wind loads resistance
Chapter 26 Types I-IV (non combustible)

Energy Standards Performance

Exceeds 2015 IECC and ASHRAE 90.1 for energy performance. Eliminates thermal bridging. A typical panel is 2.75" thick, and provides an R11

Versus Stucco/EIFS System



8 steps

- 8 Chances to Fail
- R-5
- Easily Damaged
- High Maintenance

- Superior performance
- Easy installation
- Competitively priced

Dew point remains outside the wall cavity. 9 layers of moisture protection in the system. Superior water resistance.

Tremendous architectural flexibility.

ROK-ON™ can accept direct application of finishes (stone or brick veneer, metal panels, stucco, etc.)

Full Quality Control – Issued the Warnock Hershey stamp from Intertek

\$10 million per occurrence product liability policy in place.

Better – Faster – Lower Cost



ASHLAND



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Structural *Insulated* Sheathing



- New mandated codes around energy performance have forced architects and builders to look at new ways meet the requirements. Continuous external insulation is now required to meet the codes.



- Fire and health codes continue to become more stringent and buildings are going up and not out. Mold replaced asbestos as the most litigated construction issue.



- Labor is increasingly harder to find and more expensive. All of this comes at a time when pricing pressure is at it's greatest.



The Solution – ROK-ON™



Conventional EIFS Installation

VS



ROK-ON™ Installation

Traditional EIFS systems require up to 5 steps before any final finish can be applied. ROK-ON™ does this in one step. It is installed directly to framing in the same time as the first layer of sheathing in other systems. This significantly reduces costs, increases productivity, and reduces construction time across the entire supply chain.



ROK-ON™ prefabricated installation after 9 days on a Holiday Inn®

ROK-ON™ can be installed directly on a building or in a modular environment. Either way, less steps means it can be installed much faster than traditional methods. This reduces the critical path timeline for the GC and leads to earlier occupancy for the building owner. All of this with a high performing system that will reduce long-term energy costs with less maintenance.



Better – Faster – Lower Cost

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ROK-ON™ Structural *Insulated* Sheathing

Typical EIFS Installation



← Sheathing Applied

← Windows Installed

← Vapor Barrier Applied

← EPS Foam Installed and Rased

↑ Top Coat Applied

↑ Mesh Installed, with Finish Coat

← Base Coat Applied

ROK-ON™ Finished Wall Section ready for install



Typical Commercial ROK-ON™ Installation



← Prefabricated wall panel craned into place.

Average time to install panel – 15-20 minutes per panel.

- Prefabricated wall assemblies including windows
- No heating or hording
- Fast to lock-up
- Less Labor
- Better on-site productivity.
- Faster occupancy



Scaffolding costs reduced or eliminated

ROK-ON™ Installation on Wood Frame



- Installs just like sheathing.
- Easily cut and screwed into place.
- Provides Thermal Barrier
- Can be finished directly – no additional layers.



A materials science company focused on the enormous opportunity created from new government regulations for energy and fire performance in construction.

ROK-ON™ Building Systems has over 20 years experience in manufacturing MgO based products.

- *Only North American Company manufacturing MgO board and related value-added products.*
- *Proven products that are fully tested to the building code requirements in both Canada and the USA.*
- *Multiple commercial and residential projects in place with high-quality partners.*

The Big Picture

The building codes have been changed to require increased energy and fire performance in new and retrofit construction.

This impacts over 20 billion sq. ft. of exterior walls constructed each year in North America with over \$100 Billion in additional annual costs.

One of the largest unrecognized business opportunities globally.

The Pain in the Market

Conventional methods require as many as 7 additional layers of materials to get a code approved wall.

Occurring in an environment of a shortage of skilled labor, rising installation costs, and increasing litigation exposure - all of which add margin pressure.

Driving trend to pre-fabrication.

ROK-ON™ Solutions

ROK-ON™ produces high technology building products which are fire, water, impact, mold and insect resistant

Eliminate most of the layers in other complex systems.

Significantly reduces labor costs and construction timelines with better performance.

Creates value across the entire supply chain.

Better – Faster - More Value

Win – Win Technology

Building Owners:

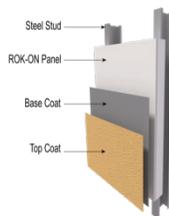
- **Profits from earlier occupancy can pay for an entire installation.**
- **Lower lifetime maintenance and energy costs.**
- **Architectural flexibility.**

Contractors:

- **Can double revenues, triple profits, and increase ROI.**
- **Can substantially reduce labor costs.**
- **Can significantly reduce construction timeline.**

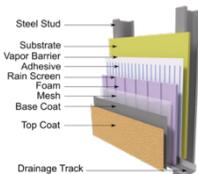
ROK-ON™ Structural Insulated Sheathing

ROK-ON™ Assembly



**3-steps
Easily Inspected
R-11
Non combustible
Will Not Rot
Mold Resistant
Impact Resistant
Bug Proof**

Conventional Assembly



**8- steps
8 Chances to Fail
R-5
Easily Damaged
High Maintenance**

Case Study Hilton® Embassy Suites Hotel Chicago, Illinois



Used prefabricated assemblies.

Eliminated scaffolding and other costs.

Installed in 46 days vs. 5 months originally planned.

Profits from faster occupancy were greater than the cost of the walls for the owner.



Multiple projects in place with high-quality partners



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