ArmorWall™ VP – frequently asked questions (updated 9-2020)

What is ArmorWall?

ArmorWall is a structural insulated sheathing product. It’s a 3 in 1 product that fuses together a magnesium oxide structural sheathing, with polyurethane insulation with a factory applied air and water-resistant barrier. Available in 4’ x 8’ or 4’ x 10’ sheets.

What are the benefits of using ArmorWall?

Continuous insulation, thinner walls, constructability, dry in building faster, less trade coordination, 100% veneer anchor fastener rate, more efficient and cost-effective veneer installation, cladding design flexibility, code compliant, UL listed, NFPA 285 approved.

How is it secured to the structure?

Fastened with a factory supplied #14-13 pancake head screw. Screw into stud or block every 12” around outside and every 16” on center. Fastener locations are labelled on the board. Can be oriented vertical or horizontal with the insulation towards the stud.

How does the weight of ArmorWall compare to DensGlass® gypsum sheathing?

<table>
<thead>
<tr>
<th></th>
<th>ArmorWall (lbs)</th>
<th>DensGlass® (lbs)</th>
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</thead>
<tbody>
<tr>
<td>2” ArmorWall</td>
<td>92</td>
<td>2.8 lb/ft²</td>
</tr>
<tr>
<td>2-3/4” ArmorWall</td>
<td>96</td>
<td>3 lb/ft²</td>
</tr>
<tr>
<td>3-3/4” ArmorWall</td>
<td>103</td>
<td>3.2 lb/ft²</td>
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</table>

5/8” DensGlass® gypsum weighs ~ 2.5 lb/ft² or 80 lbs. per 4’ x 8’ sheet.
**What about the panel seams?**

A factory supplied Polyether sealant is streamed over the seams in a zig zag pattern and then struck with a 3” putty knife. 1” coverage on each side of the seam is required. The fastener to stud screws must also be dabbed with sealant and struck with a putty knife. Veneer fasteners DO NOT need sealant applied to head of fasteners.

![20 oz. sausage tube](image)

**How is the anchor system attached?**

The factory supplied veneer anchor fasteners are attached directly to the sheathing. It DOES NOT have to penetrate through the entire assemble back to the stud. The fasteners will vary from 1-5/8” – 2-1/8” depending on the anchor.
What is the detail at the window and door openings?

ArmorWall returns are factory cut to width & supplied at 8’ lengths to frame out the window and door openings. ArmorSeal brush grade sealant is applied to sill pane area. This replaces all flashing tapes by others.

Is this a Fire rated product?
ArmorWall is NFPA 285 approved, UL listed with 1 & 2 hour symmetrical and asymmetrical fire rated assemblies on metal & wood stud construction. Can also be used with CMU or concrete.

Tell me about the weather resistant barrier on ArmorWall.
ArmorWall VP is factory coated with our vapor permeable air and water membrane. This allows the wall to breath and dry to the exterior of the wall assembly. ArmorWall is also available in a non-permeable coating, or with a factory applied below grade waterproofing.

What do I do at inside corners?

Inside corners are butt together and polyether sealant is applied to inside joint.

What do I do at an outside corner?

Weave joint is created at Outside corners or as an alternate it can be miter cut.
Can ArmorWall be used with thin brick?

Yes, we recommend the Tabs thin brick system to attach directly to our ArmorWall panel.

Can ArmorWall be used with stucco?

Yes, with a drainage matt or with a more traditional grade D paper with wire lath.
What are the thermal properties of the different sizes of ArmorWall?

<table>
<thead>
<tr>
<th>BOARD SIZING AND INSULATING FACTORS</th>
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<tbody>
<tr>
<td>Board Sizing LxW in feet</td>
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<tr>
<td>Total Board Thickness</td>
</tr>
<tr>
<td>2”</td>
</tr>
<tr>
<td>2 3/4”</td>
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<tr>
<td>3 3/4”</td>
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How do I cut ArmorWall?

ArmorWall can be cut with a fine-tooth carpenter blade. No toxic or noxious airborne contaminants are emitted when cutting ArmorWall.

Can ArmorWall be used as part of a sheer wall? - YES!

<table>
<thead>
<tr>
<th>Shear Properties</th>
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<tbody>
<tr>
<td>Fastener Type</td>
</tr>
<tr>
<td>-----------------</td>
</tr>
<tr>
<td>#14-13</td>
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</table>

Shear (lbs/ft) w/ Framing of Douglas-Fir-Larch or Southern Pine | 301 | 437.5 | 537.5 | 570 |

What kind of fire rating can ArmorWall provide?

ArmorWall can achieve a 1-hr or 2-hr symmetrical or asymmetrical fire rated assembly without the use of gypsum on the exterior. See our fire rated assembly handbook for all approved fire rated assembly options for R10, R15 and R21.

1. 1 5/8” Type K gypsum board on interior, gypsum board on exterior
2. 3/4” Type X gypsum board on exterior
3. 1” Type X gypsum board on exterior
4. 1 1/2” gypsum board on exterior
5. 2 3/4” Type X gypsum board on exterior
6. 2 3/4” Type X gypsum board on exterior
7. 3” Type X gypsum board on exterior
8. 4” Type X gypsum board on exterior
How is ArmorWall packaged?

ArmorWall is shipped on a pallet with cardboard packaging. ArmorWall™ VP should be stored off the ground in original shipment condition until ready for installation. Avoid ground contact or continuous exposure to moisture and direct sunlight.

Do not double stack pallets

For Additional Questions and pricing information please contact:

www.claddingci.com
Office: (646) 362-4747