



INSTALLATION INSTRUCTIONS FOR MAGNUM BOARD FLOORING

Technical Bulletin No.: 051617.1343 - Issue Date: May 17, 2017 - Issue no.: 2

1.0 PURPOSE

- 1.1 To provide instructions for installing Magnum Board® flooring substrate

2.0 GENERAL

- 2.1 Always follow Magnum Board “Storage and Handling” Instructions.

3.0 RESPONSIBILITY

- 3.1 It is the responsibility of the installer to ensure the framing to which Magnum Board® is affixed is square. If using wood framing, always be sure wood is dry before installing Magnum Board®.
- 3.2 Out of square framing unstable framing or installing Magnum Board® over wood framing with excess moisture may lead to installation and / or use issues.
- 3.3 If problems exist, notify the owner / general contractor prior to the installation of Magnum Board® and insist on corrective action.

4.0 MATERIAL HANDLING REQUIREMENTS

- 4.1 Marshal or stage material as close to the point of installation as possible and for interior installations, always in a location where the relative humidity (RH) is $\leq 55\%$.
- 4.2 Always store Magnum Board® flat and protect it from weather and jobsite dirt before, during and after installations. Refer to Magnum Board Products “Storage and Handling Guidelines”.
- 4.3 Always protect the corners of Magnum Board® prior to and during installation.



- 4.4 DO NOT STACK OTHER MATERIAL ON TOP OF MAGNUM BOARD®.
- 4.5 Magnum Board® is not recommended for prolonged direct exposure to rain or weather. Magnum Board sheathing indirectly exposed to the elements, require an application of a prime coat of acrylic-siloxane waterproofing sealant followed by paint as recommended by your Paint manufacturer.
- 4.6 Wear gloves to avoid abrasion injuries.

5.0 MATERIAL AND TOOL REQUIREMENTS

- 5.1 Premium-grade, high performance, moisture cured, 1-component, polyurethane base non-sag elastomeric sealant / adhesive such as “Sika PRO Select Construction Adhesive” or equal.
- 5.2 Putty knife.
- 5.3 Saw horses
- 5.4 Square

6.0 INSTALLATION PROCEDURES

- 6.1 CUTTING MAGNUM BOARD®
 - 6.1.1 Cut Magnum Board® with a carbide tipped scoring knife or a power saw equipped with a carbide blade. Blades designed specifically for cement board works best. We recomend using a T-square to help ensure cuts are straight and even.
 - 6.1.2 Make circular cuts and irregular angle cuts with a Roto Zip, Dremel or equivalent tool, equipped with a cement board bit or carbide tipped bit.
- 6.2 INSTALLING MAGNUM BOARD® FLOORING
 - 6.2.1 Start with proper framing ensuring studs are straight and square to allow for adequate fastening surface at adjoining walls and flat stress free installation of Magnum Board®.

- 6.2.2 Your work will be easier if you minimize the number of cuts you need to make to cover the floor. Lay out your floor before fastening to the joists. Plan the layout so that the cut edges are against the perimeter of the room, if possible, and make sure the sheets are spaced evenly and butt each sheet tightly.
- 6.2.3 Ensure relative humidity is $\leq 55\%$ before and during installation process. To minimize board expansion or contraction which could result in joint cracks, before installing Magnum Board®, remove the packaging and allow the panels to acclimate to the room temperature and humidity for 48 hours. Replicating your finished room operating temperature and humidity conditions is ideal.
- 6.2.4 Install Magnum Board® on 16” centers. If your joists are installed on greater than 16” centers, contact the Magnum Board® home office for installation instructions.
- 6.2.5 Always support board ends by joists.
- 6.2.6 Slightly countersink each fastener.
- 6.2.7 Leave about 1/8th inch between the perimeter walls and the Magnum Board® to allow for expansion.
- 6.2.8 After installing the initial sheet of Magnum Board® flooring, apply a generous amount of “Sika PRO Select Construction Adhesive”, or equal, to the exposed edge of the installed sheet of Magnum Board®. Refer to Material Requirements section above.
- 6.2.9 Install the next sheet of Magnum Board® flooring butting joints together tightly. A small amount of “Sika PRO Select Construction Adhesive”, or equal, should squeeze to the surface along the entire seam.
- 6.2.10 Using a putty knife, remove excess “Sika PRO Select Construction Adhesive” from the butt joint.
- 6.2.11 Since you have already verified the squareness of your framing, your floor should be level; however, it is always good practice to verify levelness before completing the installation.

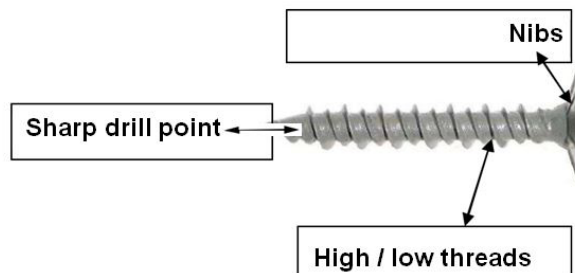
7.0 FASTENING

- 7.1 MgO board is slightly corrosive by nature to certain types of fasteners.

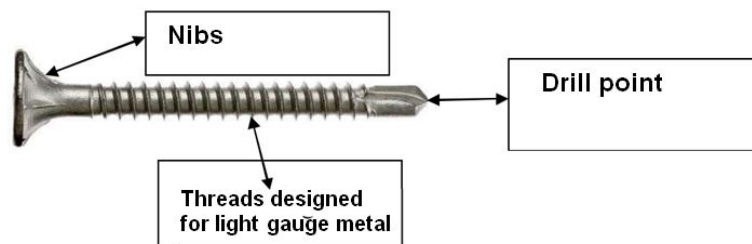
Magnum Board® Products recommends using a 316-stainless steel material for all fasteners. Ceramic coated fasteners designed specifically for cement board products may also be acceptable; however, since all projects and project locations are different, we strongly recommend that you ALWAYS consult with a local fastener expert to ensure you are using the fastener material appropriate for your project.

7.2 Fastening with screws:

7.2.1 Fastening to wood studs with screws: Utilize a #8 flat head fastener with high / low threads and a sharp drill point.



7.2.2 Fastening to metal, 18 gauge or heavier, with screw: Utilize a #8 flat head screw with nibs under the head for countersinking into the Magnum Board®, and a self-drilling point for penetrating the light gauge metal.



7.2.3 When fastening to light gauge materials lighter than 18 gauge, it may be necessary to utilize pneumatic fastening. Fasteners shown in 7.2.2 above may strip out lighter gauge studding prior to countersinking the head of the fastener into the Magnum Board® sheathing.

7.3 Fastening using pneumatic nails following material instructions denoted in section

7.3.1 Use hardened nails.

7.3.2 Pneumatic pressures vary depending on board thickness and stud material used.



Always set pressure based on countersinking needs.

- 7.4 Magnum Board® can be fastened direct to block. Call Magnum Board® Products Tampa, FL office for installation details.
- 7.5 Fastener Positioning:
 - 7.5.1 Install fasteners no closer than 4” from corners.
 - 7.5.2 Perimeter fasteners should be placed 6” apart.
 - 7.5.3 Center fasteners should be placed 12” apart.
 - 7.5.4 Install fasteners approximately 9/16” from board edge.
- 7.6 Do not install fasteners at 45° angles.

8.0 IMPORTANT NOTES / PRECAUTIONS

- 8.1 Always begin fastening at one side and proceed to fasten across the board to the other side to avoid stress.
- 8.2 Magnum Board® contains no carcinogenic material; however, a dust mask is always recommended during routing, cutting and / or sanding operations.
- 8.3 Installation must comply with all applicable local, state and federal codes and should also follow good installation practices.
- 8.4 Depending on your jobsite location and if you are utilizing galvanized steel framing, the chlorides in some MgO sheathing used to ward off insects and prevent the feeding of mold and mildew, may experience a reaction. Although no such reaction has been reported when using Magnum Board®, to help prevent the possibility of such a reaction, before installing Magnum Board® sheathing, a barrier of some type must be applied to the light gauge material to eliminate direct contact between Magnum Board® and the framing.
- 8.5 ALWAYS follow finish manufacturers recommendations for application on Magnum Board®.
- 8.6 From time to time, Magnum Board Products may update their installation



guidelines. It is the responsibility of the Architect and / or Installer to confirm they are designing and working with the latest guidelines available. Contact Magnum Board Products at their Tampa, FL offices to request the current installation guidelines before commencing your project.

9.0 AVAILABLE PRODUCT DIMENSIONS

- 9.1 Widths: 4' (1.2M)
- 9.2 Lengths: 8' (2.4M), 9' (2.7M), and 10' (3.0M)
- 9.3 Thickness: 18mm
- 9.4 Special order sizes are available within the above width and overall length dimensions.

Call for pricing and delivery information.

10.0 INSTALLATION DISCLAIMER

- 10.1 From time to time, Magnum Board Products, LLC may update their installation instructions. It is the responsibility of the Architect, General Contractor, Installer, and / or Owner to ensure they are using the current installation instructions. Contact Magnum Board Products, LLC at their Tampa, FL offices to obtain a current copy of these instructions before you start your project.

CAUTION:

Magnum Board® is not recommended for overhanging cantilevers.

Because materials expand and contract at different rates and under different conditions, no one, including Magnum Board® Products, can guarantee crack free joints.

Please visit our web-site at www.magnumbp.com to view more information about this “GREEN” sheathing material including install guidelines and pictures of installations around the World.