



## HOME of MAGNUM BOARD®

“The New Generation **GREEN** Building Material”

“**Install It for Health-Install It for Life**”

Sheathing & Siding Products

TECHNICAL BULLETIN No.:	061115-1151
Subject:	Installation Instructions for TAPE RELIEF Magnum Board®
Issue Date:	May 16, 2017
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### 1.0 PURPOSE

- 1.1 To provide instructions for installing tape relief edge profile Magnum Board®.
- 1.2 Tape relief edge profile Magnum Board® is generally used for interior applications where joint finishing is required prior to applying the finish of you have chosen.

### 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 board and / or joint cracking due to stress.
- 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 materials as close to the point of installation as possible. 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.
- 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®.

## 5.0 MATERIAL REQUIREMENTS

5.1 Premium-grade, high performance, moisture cured, 1-component, polyurethane based non-sag elastomeric sealant / adhesive such as “Sika PRO Select Construction Adhesive” or equal.

5.2 Putty knife.

5.3 High quality joint compound.

5.4 Fiba Tape for Cement Board.

## 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 recommend 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® ON WALLS

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 Ensure relative humidity is  $\leq 55\%$  before and during installation process.

6.2.3 Install Magnum Board® vertically to allow for maximum fastening to studs.

6.2.4 Install first sheet of Magnum Board® sheathing flush with the vertical stud to which it is being fastened.

6.2.5 If installing horizontally a backer board must be attached to the backside tying both sheets together for stability and joint finishing purposes.

6.2.6 Align all electrical outlets etc. so they will be flush with the Magnum Board® surface.

- 6.2.7 Follow the fastener instructions below.
- 6.2.8 Always install fasteners straight, not at an angle.
- 6.2.9 Slightly countersink each fastener to allow for proper finishing.
- 6.2.10 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.
- 6.2.11 Install the next sheet of Magnum Board® sheathing butting joints together tightly. A small amount of “Sika PRO Select Construction Adhesive”, or equal, should squeeze to the surface along the entire seam.
- 6.2.12 Using a putty knife, remove excess “Sika PRO Select Construction Adhesive” from the butt joint.
- 6.2.13 Refer to section “8” for joint finishing.

### 6.3 INSTALL MAGNUM BOARD® ON CEILINGS

- 6.3.1 Always 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®.
- 6.3.2 Ensure relative humidity is  $\leq 55\%$  before and during installation process.
- 6.3.3 When installing Magnum Board® to ceiling, use panel lifter or “T” brace to support weight.
- 6.3.4 Start with installing Magnum Board® ceiling panels at right angles to joists. Use panel lifter or “T” brace to support weight.
- 6.3.5 Stagger butt end joints so joints do not extend across the ceiling. It is recommended that you not place a butt end next to a tapered end.
- 6.3.6 Always install long sides of Magnum Board® to framing to achieve best stability and joint finishing.
- 6.3.7 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 Materials Required section above.
- 6.3.8 Install next sheet of Magnum Board® sheathing butting joints together tightly. A small amount of Sika PRO Select Construction Adhesive should squeeze to the surface along the entire seam.

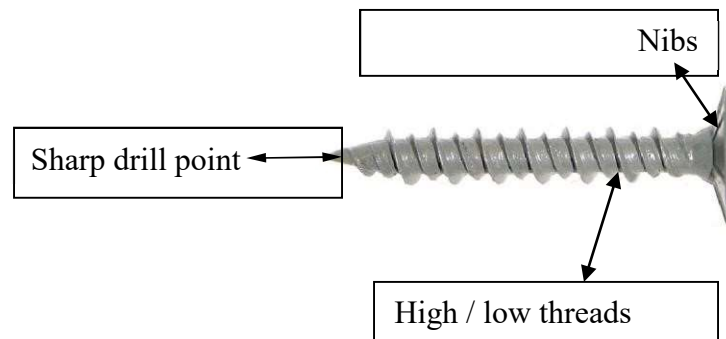
- 6.3.9 Follow the fastener instructions below.
- 6.3.10 Slightly countersink each fastener to allow for proper finishing.
- 6.3.11 Refer to section “8” for joint finishing.

## 7.0 FASTENING

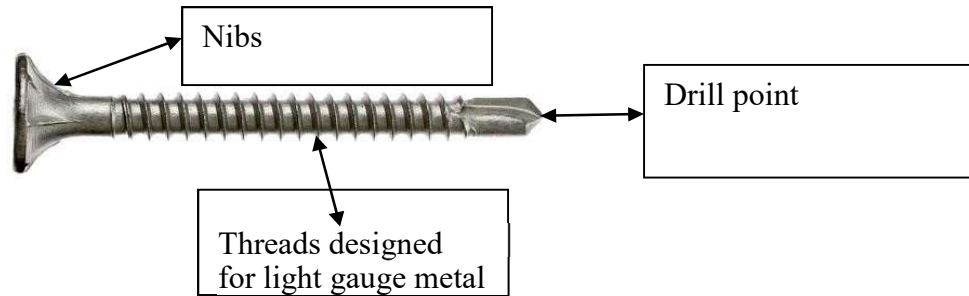
7.1 MgO board is slightly corrosive by nature to certain types of fasteners. Magnum Board® Products recommends using a 316-stainless steel material for all fasteners. Ceramic coated fasteners designed specifically for cement board products may also be acceptable; however, since all projects and project 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.

## 8.0 JOINT FINISHING

8.1 Magnum Board® can be used with most any top quality joint compound taking into consideration job specifications and expected wall assembly performance. Always check with the manufacturer of the selected product to be sure of its compatibility and

performance with Magnum Board®. Magnum Board® Products cannot guarantee or be liable for the actual performance of any particular brand of joint compound issues.

- 8.2 Always use a 2" wide woven fiberglass joint tape such as "Fiba-Tape", designed specifically for cement board and manufactured by Certain Teed, or equal.
- 8.3 As indicated above, Magnum Board® Products recommends that Magnum Board® be installed butt jointed; however, if Magnum Board® is installed with a space between the joints, BASF states that "the optimal depth of a sealant joint is half the sealants width". If the depth exceeds the width by more than one half, always fill the space with the appropriate backer rod prior to applying selected joint compound, or you may experience joint cracking.

## 9.0 BOARD SURFACE FINISHING

- 9.1 Magnum Board® can be finished with most any type of product including, but not limited to paint, lime based products, clay based products, wall paper, stone, brick, stucco and more.
- 9.2 If paint is selected as the finish for your project, Magnum Board® has been tested by Sherwin Williams who has provided a set of painting procedures specifically designed for Magnum Board®. If you choose a different paint brand, we suggest you work with the paint manufacturer to ensure your process and selected paint will perform on Magnum Board® to your satisfaction before moving forward.
- 9.3 When finishing Magnum Board® always follow the finish manufacturer's instructions and follow good industry practices such as cleaning board surface completely before beginning the application process and ensuring the relative humidity (RH) is appropriate for the application

## 10.0 IMPORTANT NOTES / PRECAUTIONS

- 10.1 Always begin fastening at one side and proceed to fasten across the board to the other side to avoid stress.
- 10.2 Magnum Board® contains no carcinogenic material; however, a dust mask is always recommended during routing, cutting and / or sanding operations.
- 10.3 Installation must comply with all applicable local, state and federal codes and should also follow good installation practices.
- 10.4 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.

- 10.5 ALWAYS follow finish manufacturers recommendations for application on Magnum Board®.
- 10.6 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.

## 11.0 AVAILABLE PRODUCT DIMENSIONS

- 11.1 Widths: 4' (1.2M)
- 11.2 Lengths: 8' (2.4M), 9' (2.7M), and 10' (3.0M)
- 11.3 Thickness: 3mm to 20mm
- 11.4 Special order sizes are available within the above width and overall length dimensions. Call for pricing and delivery information.

## 12.0 TAPE RELIEF EDGE PROFILE

- 12.1 Tape relief edges for joint finishing are available in 9mm and thicker product.



### **CAUTION:**

Because materials expand and contract at different rates and under different conditions, no one, including Magnum Board® Products, can guarantee crack free joints. The reports we have received from our customers indicate many types of joint compounds have been used successfully. Customers do tell us they have had good luck with paper joint tape and we pass this on for your information. We are happy to discuss with you the joint compound you intend to use and provide to you any feedback we may have received on the specific type; and, we are happy to tell you what our customers have had success with in the pass. Please call us at your convenience.

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



On Behalf of  
Mother - Nature  
**THANK YOU**



**“GOTTA GO GREEN”**