



HOME of MAGNUM BOARD®

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

“Install It for Health-Install It for Life”

Sheathing & Siding Products

TECHNICAL BULLETIN No.:	062515-1324
Subject:	Guide for installing SQUARE edge Magnum Board®
Issue Date:	November 17, 2016
Issue No.:	4

1.0 PURPOSE

- 1.1 To provide a guideline for installing square edge Magnum Board®.
- 1.2 Square edge Magnum Board® is generally used for exterior applications and finished with Portland cement stucco, synthetic stucco, brick or stone type products.

2.0 GENERAL

- 2.1 Magnum Board® is installed very similar to standard gypsum and Portland cement based products.

3.0 RESPONSIBILITY

- 3.1 It is the responsibility of the installer to ensure the framing to which the 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, instable 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.
- 4.2 Always store Magnum Board® flat and protect it from weather and jobsite dirt before, during and after installation. Refer to Magnum Board “Storage and Handling Guidelines”.

- 4.3 Always protect the corners of Magnum Board® prior to and during installation.
- 4.4 Do not stack other materials on top of Magnum Board®.

5.0 MATERIAL REQUIREMENTS

- 5.1 Premium-grade, high performance, moisture cure, 1-component, polyurethane-based non-sag elastomeric sealant / adhesive such as “Sikaflex 1a” or equal.
- 5.2 Putty knife.
- 5.3 Joint sealing requirements from your Supplier of the product intended for use as a final finish.

6.0 PROCEDURE

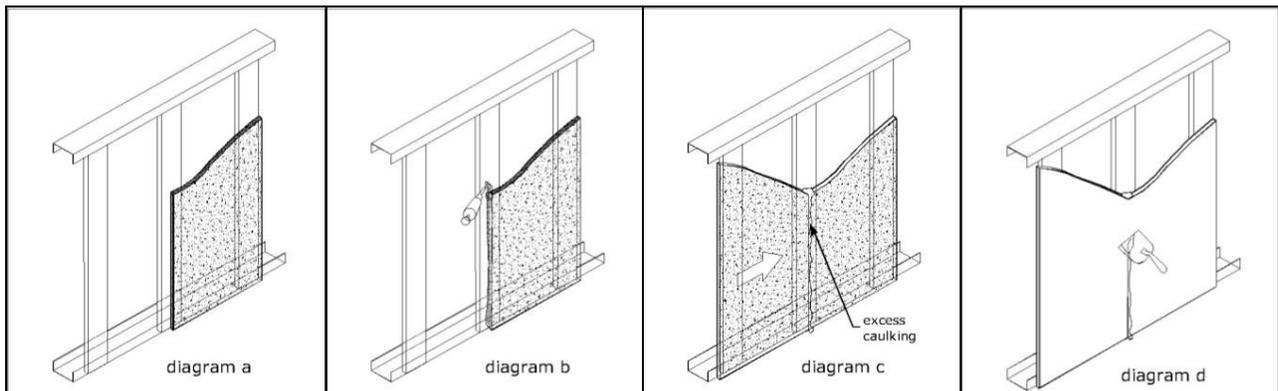
6.1 CUTTING MAGNUM BOARD®

- 6.1.1 Cut Magnum Board® with a carbide tipped scoring knife or power saw equipped with a carbide blade. We recommend that you use a T-square to help ensure your cuts are straight and even.
- 6.1.2 Make circular cuts and irregular angle cuts with a Roto Zip, or equal, equipped with a cement board bit or carbide tipped bit, a keyhole saw, saber saw, or equal.

6.2 INSTALLING MAGNUM BOARD® ON EXTERNAL WALLS WHERE FINAL FINISH IS SPECIFIED AS PAINT

- 6.2.1 Starting 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 Install Magnum Board® vertically to allow for maximum fastening to studs.
- 6.2.3 Install first sheet of Magnum Board® Sheathing flush with the vertical stud to which it is being fastened. Reference diagram A.
- 6.2.4 Follow the fastener guideline below.
- 6.2.5 Apply a generous amount of exterior Sikaflex 1a, or equal, to the entire edge of the Magnum Board® Sheathing. Reference diagram B.
- 6.2.6 Install next sheet of Magnum Board® Sheathing butting joints together tightly. A small amount of Sikaflex 1a, or equal, should squeeze to the surface along the entire seam. Reference diagram C.

- 6.2.7 Using a putty knife, remove excess caulk from butt joint leaving a smooth “seamless” appearing surface between the two-(2) installed sheets of Magnum Board® Sheathing.
- 6.2.8 Clean putty knife after smoothing every joint to eliminate buildup of putty on the putty knife.
- 6.2.9 Countersink all fasteners unless otherwise instructed by manufacturer of product to be applied to Magnum Board® Sheathing as a final finish.
- 6.2.10 If fasteners are countersunk, using a putty knife, apply premium exterior grade lightweight spackling to all fastener countersinks ensuring the application is smooth and blends into the flat surface of the Magnum Board® Sheathing. This will help ensure a glass smooth painted finish.
- 6.2.11 If necessary to sand the fastener countersink areas, use a light weight sand paper to ensure a smooth finish for painting.
- 6.2.12 Always ensure Sikaflex, or equal, is completely dry before sanding and painting.



6.3 INSTALLING MAGNUM BOARD® ON EXTERIOR WALLS WHERE FINAL FINISH IS SPECIFIED AS OTHER THAN PAINT

- 6.3.1 Consult with your installer or the manufacturer of the product that is specified as your final finish seeking instructions on countersinking fasteners and how to prep the fastener locations to accept the specified final finish.

6.4 INSTALLING MAGNUM BOARD® ON EXTERIOR CEILINGS

- 6.4.1 When installing Magnum Board® to ceilings, you may find it helpful to have a “T” Brace to hold the Magnum Board® panels in place while fastening.

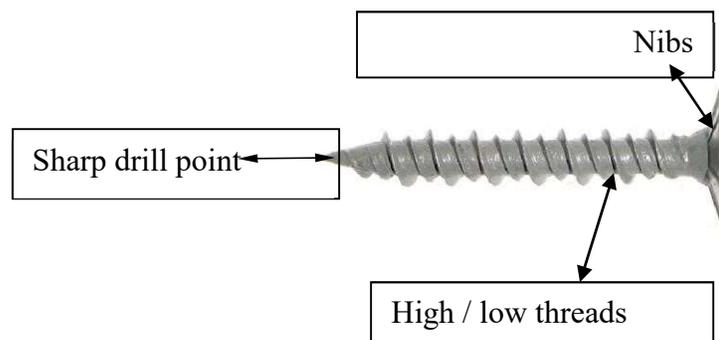
- 6.4.2 Start with installing Magnum Board® ceiling panels at right angles to joists. Use panel lifter or “T” Brace to support weight.
- 6.4.3 Stagger butt end joints do not extend across the ceiling. It is recommended that you never place a butt end next to a tapered end.
- 6.4.4 Follow the fastener guideline below.
- 6.4.5 Slightly countersink each fastener to allow for proper finishing.

7.0 FASTENING

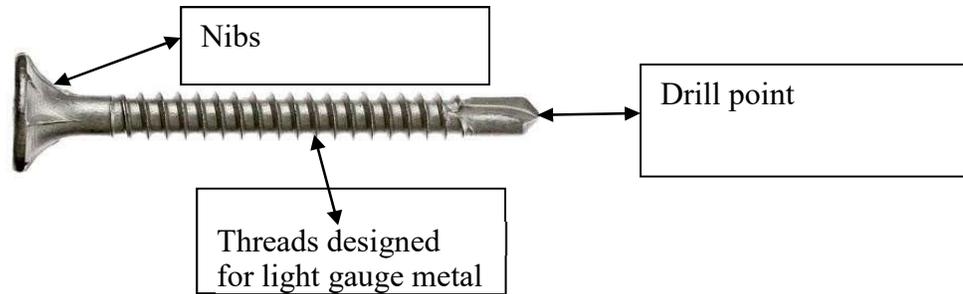
7.1 MgO board is slightly corrosive by nature to certain types of metal fasteners. Magnum Board® Products recommends using a 316 stainless material for all fasteners. Ceramic coated fasteners designed specifically for cement board products may also be acceptable; however, since all projects and project 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 #9 flat head fastener with high/low threads and a sharp drill point.



7.2.2 Fastening to metal, 18 gauge or heavier, with screws: Utilize a #10 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 7.22 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.

7.3.1 Use hardened nails.

7.3.2 Pneumatic pressures vary depending on board thickness and stud material. Always set pressure based on countersinking needs.



7.4 Magnum Board® can be fastened direct to block. Check with your local fastener expert or call Magnum Board® Products, Tampa FL office for installation details.

7.5 Fastening profiles:

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 the board edge.

8.0 JOINT FINISHING

- 8.1 MBP 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.
- 8.2 Consult the finish manufacturer for instructions on preparing butt joints prior to applying final finish to Magnum Board® .

9.0 IMPORTANT NOTES / PRECAUTIONS

- 9.1 Always begin fastening at one side and proceed to fasten across the board to the other side to avoid stress.
- 9.2 Magnum Board® contains no carcinogenic material; however, a dust mask is always recommended during routing, cutting, and/or sanding operations.
- 9.3 Installation must comply with all applicable local, state, and federal codes and should also follow good installation practices.
- 9.4 Depending on your jobsite location and if you are utilizing galvanized steel framing, the chlorides in Magnum Board® used to ward off insects may experience a reaction. To help prevent such a reaction, it is suggested that before installing Magnum Board® sheathing, you apply a coat of paint or tape or some other barrier to eliminate the actual direct contact between Magnum Board® and the framing.

10.0 AVAILABLE PRODUCT DIMENSIONS

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

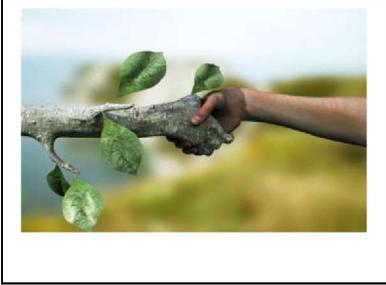
11.0 SQUARE EDGE PROFILE



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 past. Please call us at your convenience.

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.



On Behalf of
Mother - Nature

THANK YOU



"GOTTA GO GREEN"