



HOME of MAGNUM[®] BOARD

“The New Generation Building Material”

TECHNICAL BULLETIN No.:	090509-1405
Subject:	MAGNUM BOARD [®] INTERIOR INSTALLATION GUIDELINES
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1. CUTTING MAGNUM BOARD[®]

- You can easily cut Magnum Board[®] with carbide tipped scoring knife or a power saw equipped with a carbide blade. We recommend that you use a T-square to help ensure your cuts are straight and even.
- Measure accurately and mark your cutting locations before cutting Magnum Board[®].
- Make circular cuts and irregular angle cuts with a RotoZip equipped with a cement board bit or carbide tipped bit, a keyhole saw or a saber saw.

To perform cut outs in Magnum Board[®] for electrical outlets, light receptacles, switches, etc., carefully measure and mark the location of the opening on the face of Magnum Board[®]. Outline the opening in pencil and cut it out with a RotoZip, keyhole saw or circle cutter equipped as noted above. The hole must be accurately located and cut to size, or the electrical cover plate may not cover the hole. Remember - Measure twice and cut once.

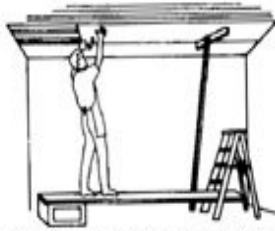
2. SINGLE- OR DOUBLE-LAYER INSTALLATIONS

- A single layer wall of 10mm or 12mm Magnum Board[®] is the simplest, fastest and most economical type of wall construction.
- Use of a double-layer installation sometimes required when using a gypsum based product is NOT necessary when using Magnum Board[®]. See our UL test documentation on line at UL

3. VERTICAL OR HORIZONTAL INSTALLATIONS

- Install Magnum Board[®] leaving the fewest possible joints for finishing. If the ceiling is less than 8'2" in height, use a horizontal application for 25% fewer joints than a vertical application.

Fig. 5



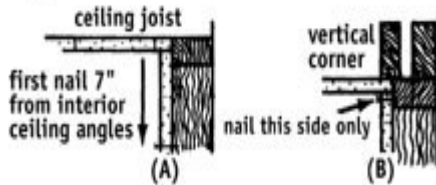
Make a T-brace from a 2' piece of a 1x4 nailed to a 2x4 to make ceiling installations easier.

4. INSTALLATION OF MAGNUM BOARD® TO THE CEILING

- Install Magnum Board® to the ceiling at right angles to the joists.
- Holding the ceiling board in position can be difficult. If you are working alone, solve this problem by making a "T" brace from a 2' piece of a 1"x 4" nailed to the end of a 2" x 4" of sufficient length to reach from the floor to the ceiling (Fig. 5). Be sure nail heads used to affix 1" X 4" plate to the 2" X 4" are slightly counter sunk to ensure no damage to the surface of Magnum Board®.
- The supporting 2" x 4" should be about 1" longer than the floor-to-floor ceiling height to allow leverage to brace the Magnum Board® ceiling being installed.
- Use a good adhesive such as Liquid Nails or equal, apply to studs per manufacturers recommendations prior to installing Magnum Board®. Follow adhesive manufacturer's product recommendations for your framing material type – wood, metal or other.
- Follow the Magnum Board® fastening guidelines for proper pneumatic nail (pin) or screw type. We recommend installation be about 10" apart. Position fasteners no closer than ½" from the edges of Magnum Board® and no closer than 4" from the corners.
CAUTION: Always ensure Magnum Board® is flat against the surface to which it is to be fastened to help ensure no cracking during installation.
- Always install fasteners perpendicular to Magnum Board®.
- Always begin fastening at one end and proceed to fasten across the board to the other end to avoid stress on Magnum Board®.
CAUTION: Always follow local, State and Federal building codes as applicable.
- Pneumatically install the nails (pins) in to a position just below the skin of the Magnum Board® (countersink) to the framing allowing for space to apply joint compound and finish the board.

5. INSTALLATION OF MAGNUM BOARD® TO WALLS

Fig. 7



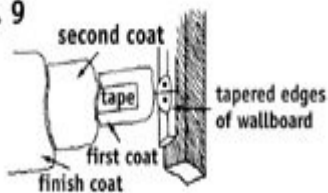
Place nails about 7" below the ceiling where the ceiling board is nailed to a joist.

Fig. 8



Special metal corner strips are available for outside corners.

Fig. 9

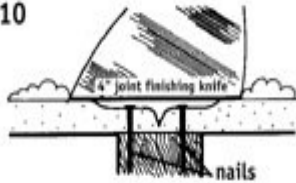


You'll usually need two or three coats of compound at all taped joints.

- If Magnum Board® is being installed horizontally, install all top boards first. Push each board up firmly against the ceiling, but do not force them, and fasten each one into place either pneumatically or with screws. Refer to Magnum Board® fastener guidelines.
- Use a good adhesive such as Liquid Nails or equal, apply to studs per manufacturers recommendations prior to installing Magnum Board®. Follow adhesive manufacturer's product recommendations for your framing material type - wood, metal or other.
- In areas where ceiling Magnum Board® is fastened to ceiling joists, start the first run of fasteners on the Magnum Board® about 7" below the ceiling (A, Fig. 7).
- Continue fastening the Magnum Board® about 10" apart to all studs.
- If Magnum Board® is installed vertically; place the long edges of the Magnum Board® parallel to the framing members. Use a vertical application if your wall height is greater than 8'2". Use the same fastening procedures as previously described.
- Special metal corner strips are available for outside corners (Fig. 8). Pneumatically affix a brad in these metal corner strips about every 5".
- Use a good grade of joint compound to finish all joints, nail (pin) heads and corners. In most cases, you'll need two or three coats of compound at all taped joints. Magnum® Building Products recommends a good fiberglass self adhesive tape to eliminate paper which feeds mold and mildew.
- If you are using adhesive back tape, center the tape over the joint and press it into place with your knife. Apply two finish coats over the tape. If you are using regular tape, use an embedding coat to bond the tape at each joint (Fig. 9). When the embedding coat has set, apply two finish coats over the tape.
- Allow each coat of joint compound to dry about 24 hours before applying the next coat. CAUTION: Always follow the compound

6. PUTTING THE FINISHING TOUCHES ON A MAGNUM BOARD® WALL OR CEILING INSTALLATION

Fig. 10



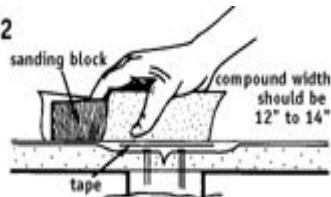
Use a 4" joint finishing knife to smooth out each coat of joint compound.

Fig. 11



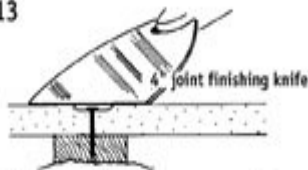
Press the wallboard firmly but not too hard, holding the knife at a 45° angle.

Fig. 12



Feather each coat of compound a few inches beyond the previous coat for a smooth finish.

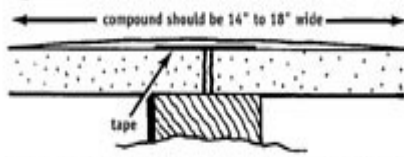
Fig. 13



Use a 4" knife and joint compound to cover nail heads.

- Use a 4" joint finishing knife to smooth out each coat of joint compound (Fig. 10). Fill in the slightly recessed area created by the adjoining of tapered edge Magnum Board® and smooth it off with the 4" joint finishing knife.
- If using adhesive backed tape, center the tape over the joint and press it into place. If using regular paper tape press it into the first layer of compound firmly, but not too hard (Fig. 11). Holding the 4" knife at a 45 degree angle press just hard enough to squeeze the excess compound from under the tape, ensuring enough of the compound is left to create a good bond.
- With adhesive back tape you can apply the fill coat right away. With regular drywall tape, allow the tape to dry in position for at least 24 hours and then apply a fill coat, extending it a few inches beyond the edge of the tape. Feather the edges of the compound for a smooth finish.
- After the fill coat has dried, use a 10" joint finishing knife to apply the final coat of joint compound. Feather this coat about 1 1/2" beyond the edge of the first coat.
- When the final coat is dry, sand it lightly to a smooth finish (Fig. 12). Wipe off the dust with a clean rag to prepare the surface for the final coating of paint, paper, etc. CAUTION: For whatever finish you apply to the Magnum Board® wall or ceiling, always follow the manufacturer's instructions for cleaning and application of their products.
- The total width of the compound at each joint should be about 12" to 14" (Fig. 12).
- All fasteners should be countersunk just below the surface of the Magnum Board®. Conceal these countersunk fasteners by applying a first coat of joint compound with even pressure so the compound is level with

Fig. 14



Make sure the compound is not built up too high at end or butt joints.

Fig. 15

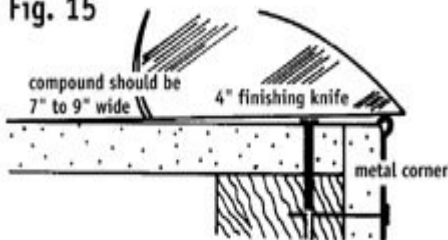
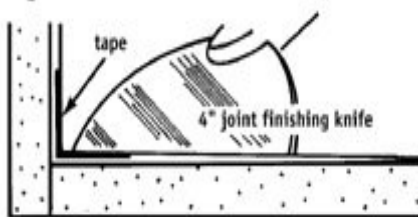


Fig. 16



- the surface of the Magnum Board® (Fig. 13). Press evenly, but not too hard - too much pressure on the knife may scoop the compound from the countersunk area.
- When the compound has thoroughly dried, apply a second coat. Let it dry thoroughly, then sand it lightly and apply a third coat.
 - In areas where humidity is extremely high, apply a fourth coat of compound over the fasteners.
 - The end or butt joints on Magnum Board® are not tapered. Where these untapered butt joints come together, be sure not to build up too much compound (Fig. 14). Compound built too high will create ridges in the wall, and may cause a shadowing effect when the area is lighted.
 - To avoid the above affect, you may want to taper the ends of the Magnum Board®. Begin 1" in from the edges of the Magnum Board® and using a belt sander, create a taper no more than 1/32" deep at the outer edge of the Magnum Board®.
 - Proceed to finish the joints as noted above.
 - If you choose to install Magnum Board® with butt joints, feather the joint compound out on each side of the butt joints from 7" to 9" (Fig. 14). The final application of joint compound should create a joint approximately 14" to 18" wide where the butt joints come together.
 - After attaching the metal corner strips as previously described (Fig. 8), fasten them securely into position, and use a 4" finish knife to spread compound mix 3" to 4" out from the nose of the bead (Fig. 15).
 - When the first layer is completely dry, sand it lightly and apply a second coat of compound feathering the edges about 2" to 3" beyond the first coat.
 - If a third coat is needed, feather it 2" to 3" beyond the preceding coat. This creates a tapered finish of joint compound approximately 7" to 9" wide at each metal corner.
 - To finish off an inside corner with regular tape, apply joint compound with a 4" knife. Spread it evenly about 1 1/2" on each side of the angle (Fig 16).

- For both paper taper and fiberglass self adhesive tapes, cut the joint tape the exact length of the corner to be finished. Fold the tape lengthwise in the center and press it firmly into the corner.

7. TOOL AND MATERIAL INSTALLATION CHECK LIST

- Magnum Board®
- T-Square
- RotoZip equipped with carbide tipped bit
- Keyhole Saw or Circle Cutter
- Reinforcing Tape – we recommend self adhesive fiberglass tape
- Joint Compound – we recommend bag mix as opposed to ready mix
- Fasteners – pneumatic nails (pins) and / or screws – corrosion resistant or stainless steel.
- Adhesive such as Liquid Nails or equal
- Adhesive Gun
- Drop Cloth
- Metal Corner Strips
- Sanding tools
- Sandpaper 80-100 grit or as otherwise specified by manufacturer of joint compound
- Tape measure
- Trimming Knife
- Drywall Knives, 4”, 6”, 8” and 10”
- Trawl
- 1x4's & 2x4's for "T" Brace
- Shop towels for clean up