



MAGPANEL[®] MgO
fireproof • eco-friendly • versatile

INSTALLATION INSTRUCTIONS & HANDLING GUIDELINES

STORAGE AND HANDLING

Although MagPanel[®] is heat and moisture resistant, it should be stored inside in a cool dry place as with any sheet building material. To protect the edges and corners, carry boards on their side. Stack boards flat on dunnage, loose wood, matting or other material and not directly on the ground. Do not allow MagPanel[®] to bow. Do not stack any other materials on top of MagPanel[®].

TOOLS AND MATERIALS REQUIRED

MagPanel[®] is a multipurpose board used for exterior sheathing, soffits, and roof decking, as well as for interior subfloor, walls, ceiling, tile backer board, etc.

The tools and materials required will largely depend upon your specific application of the magnesium oxide boards.

Some basic items that may be used include:

- Dust-reducing circular saw
- Sandable elastomeric joint compounds
- Fasteners - Recommended fasteners vary by application, see *FASTENER* section below)
- Adhesive - The type of adhesive you use will depend on application type, however urethane-based adhesives are recommended.



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HOW TO INSTALL MAGPANEL[®] MGO BOARDS

SAFETY

We recommend that installers wear a dust mask and safety glasses during routing, cutting and sanding operations. Never dry sweep MagPanel[®], instead use a wet suppression or HEPA vacuum.

If you are using galvanized steel framing, it is suggested that you use the MgSO₄ composition board to prevent potential reactions with steel framing and fasteners.

Be sure to always follow local, state and national building codes with your construction projects.

ACCLIMATION

Remove the packaging and allow the MagPanel[®] boards to acclimate to the room temperature and humidity for 48 hours. Ideally, the boards should acclimate in the room where they will be used with the temperature replicating the planned temperature of the room.

PLACEMENT

Placement varies depending on the application of the boards. When attaching to cold-formed steel framing (CFS), stagger panels with a 1/16" (1/5mm) gap between boards. When attaching to wood, allow 1/8" gap.

BOARD ORIENTATION

MagPanel[®] is constructed with one side smooth finish and one side rough finish. The rough finish can be used as a backer board for tile and other applications.

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FILLING SEAMS

PREPARATION

- **Crucial:** Maintain consistent temperature and humidity before, during, and after installation for optimal results.
- **Gaps:** Leave a 1/6" to 1/8" gap between sheets to allow for expansion and contraction.
- **Materials:** Use Manus-Bond 75-AM (flexible filler) for the initial gap fill and a sandable joint compound for finishing.

FILLING PROCESS

- **Apply Manus-Bond:** Fill gaps completely, ensuring the filler is flush with the panel surface. If installing in a cold climate, warm the product slightly for easier application.
- **Embed Fiberglass Tape:** Apply 6"-wide fiberglass tape, embedding it fully in RapidSet "Wunderfixx." Smooth the tape and feather the Wunderfixx out 12-18" on each side of the seam.
- **Sand Lightly:** While the Wunderfixx is still somewhat damp (leather-like consistency), lightly sand for a smoother finish.
- **Final Coat:** Apply a final coat of a high-quality finishing compound like Murco Wall M-100 or Westpac Materials "Red Dot." Feather this coat out 18-24" for a seamless look.

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- Cut MagPanel[®] in smaller thicknesses by scoring with a razor knife and snapping for thicknesses of 1/2" or greater. Recommended to use a power saw equipped with a carbide blade.
- For circular cuts and irregular angle cuts use a rotary or oscillating tool equipped with a cement board bit or carbide tipped bit.
- Start with proper framing and ensure studs are straight and square to allow for adequate fastening surface at adjoining walls and flat stress-free installation of MagPanel[®]. Ensure framing is level.
- The fewer cuts that are made the better and easier installation will be. Begin by laying out your floor before fastening to the joists. When planning the layout make sure the cut edges will be against the perimeter of the room. Sheets should be spaced evenly and butt tightly.
- Always support board ends by joists. Slightly countersink each fastener. Leave about 1/8th inch between the perimeter walls and the MagPanel[®] to allow for expansion.
- After installation of first board, verify the board is level before continuing.

FASTENERS

It is recommended to use coated steel fasteners. Install fasteners no closer than 4" from corners. Perimeter fasteners should be placed 6" apart. Center fasteners should be placed 12" apart. Install fasteners approximately 9/16" from board edge. Do not install fasteners at 45° angles. Always begin fastening at one side and proceed to fasten across the board to the other side to avoid stress.