



TamlynMgO® is a non-combustible magnesium oxide panel used as an alternative to wet-laid gypsum or rigid flooring underlayments. **TamlynMgO®** meets or exceeds ICC ES AC308 and AC308.6.

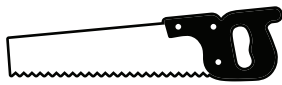
LIMITATIONS

- **TamlynMgO®** is designed to withstand outdoor exposure during the construction period up to 200 days. The product is not intended to be used for exterior flooring with permanently exposed area such as balconies or decks.
- **TamlynMgO®** panels are intended for use over an existing structural subfloor and has a smooth backing for floor installation.
- Always consult with local building codes and designers for fire-resistant rated design requirement.
- Ensure that metal components in contact with **TamlynMgO®** are corrosion-resistant, either through material properties, a protective coating, or permanent separation with a non-metallic barrier.
- Keep project site cleaned by using compressed air or similar tools to remove dust residue when cutting and handling **TamlynMgO®** panels.

PRECAUTIONS & SAFE HANDLING

- **Tamlyn MgO®** panels are heavier than typical structural panels. It is recommended to be handled by two people and always use proper lifting techniques.
- To minimize the risk of excessive bending/flexing, hold the panels with hands spaced out along the long-edge of the panel.
- **Tamlyn MgO®** panels may be cut using standard fine-tooth handsaw, gypsum board saw or power saw. Carbide tipped blades may provide cleaner cuts and prolonged blade life. Use appropriate personal protective equipment such as gloves, dust mask and safety glasses. **(FIG 1)**
- Wash hands after handling.
- Use work practices that minimize the creation of dust and observe good industrial hygiene practices.

FIG 1:



Standard Fine
Tooth Handsaw



Gypsum Board Saw



Power Saw



Dust Mask



Safety Glasses

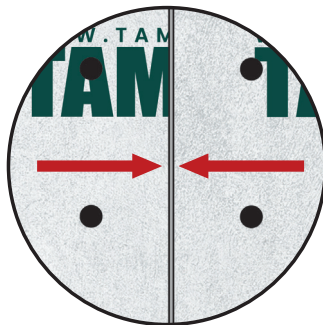


Gloves

GENERAL

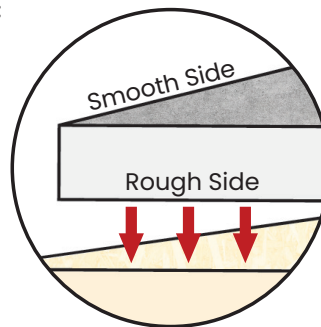
- After **Tamlyn MgO®** panels are installed, It is recommended to lay a temporary sheet of plywood or OSB over the **Tamlyn MgO®** panels in areas with high traffic areas and point loads to protect the underlayment surface during construction.
- Do not install **Tamlyn MgO®** panels less than 8 in from exposed earth unless implementing a method of protection against termites and decay that is approved by local building official.
- Install the **Tamlyn MgO®** panels by butting the edges together on all sides. **(Fig 2)**
- Install **Tamlyn MgO®** panels smooth side up. The rough side should face downwards and be in contact with the structural subfloor member. **(Fig 3)**
- Structural subfloor shall be clean and level. Panels will not correct out-of-plane irregularities in existing subfloor.
- The framing width should be no less than 1 ½ in nominal. **(Fig 4)**
- **(Optional)** In addition to fasteners, apply a 3/8" bead of compatible subfloor adhesive prior to fastening **Tamlyn MgO®** panels. Application of subfloor adhesive must remain wet while **Tamlyn MgO®** panels are attached. Use a solvent based or polyurethane adhesive complying with requirements of APA AFG-01 or ASTM D3498.

FIG 2:



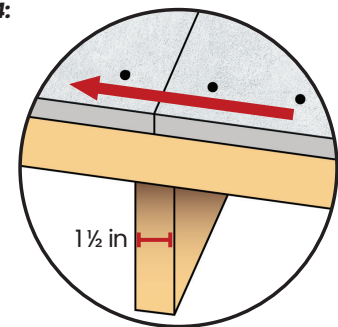
Butt panels edges together on all sides.

FIG 3:



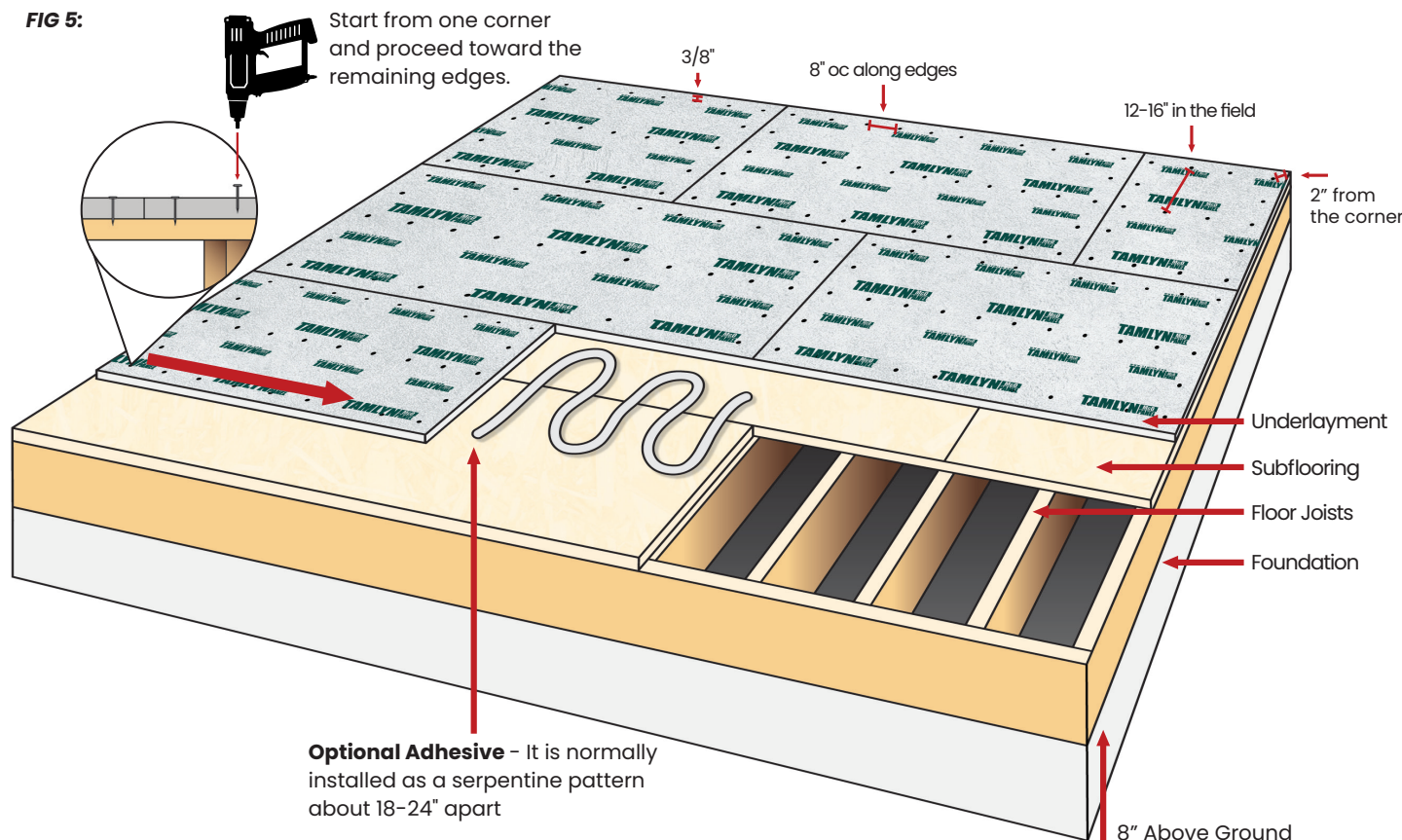
Smooth side up and rough side down.

FIG 4:



Panels must be properly aligned along perimeter.

FIG 5:



FASTENING

- Fasten **Tamlyn MgO®** panels using minimum 0.113-inch (50.8mm) ring-shank nails or W rated countersunk screws (#10 typical). All fasteners must be a minimum 1.5 in length.
- Gypsum screws are not recommended for any underlayment applications.
- All fasteners must be code-recognized and either corrosion-resistant or coated for corrosion resistance (e.g.- hot-dipped galvanized or better).
- If using optional subfloor adhesive, immediately install all fasteners after the underlayment panels is laid in place on top of the subfloor adhesive. Do not allow subfloor adhesive to skin, become firm or cure prior to installing all fasteners.
- Make sure the **Tamlyn MgO®** panels are flush against the top of the subfloor structure.
- Fasten **Tamlyn MgO®** panels at 8 in on center at all edges and 12-16 in on center in the field. Fasteners must be spaced minimum 3/8 in from all edges and no closer than 2 in from the corners. All fasteners should be flush or slightly driven below the surface of the **Tamlyn MgO®** panel. (**Fig 5**)
- Drive the fasteners straight and perpendicular through the **Tamlyn MgO®** underlayment and into the structural subflooring.
- All fasteners shall be flush or slightly below the **Tamlyn MgO®** panels. Fasteners must not be overdriven.

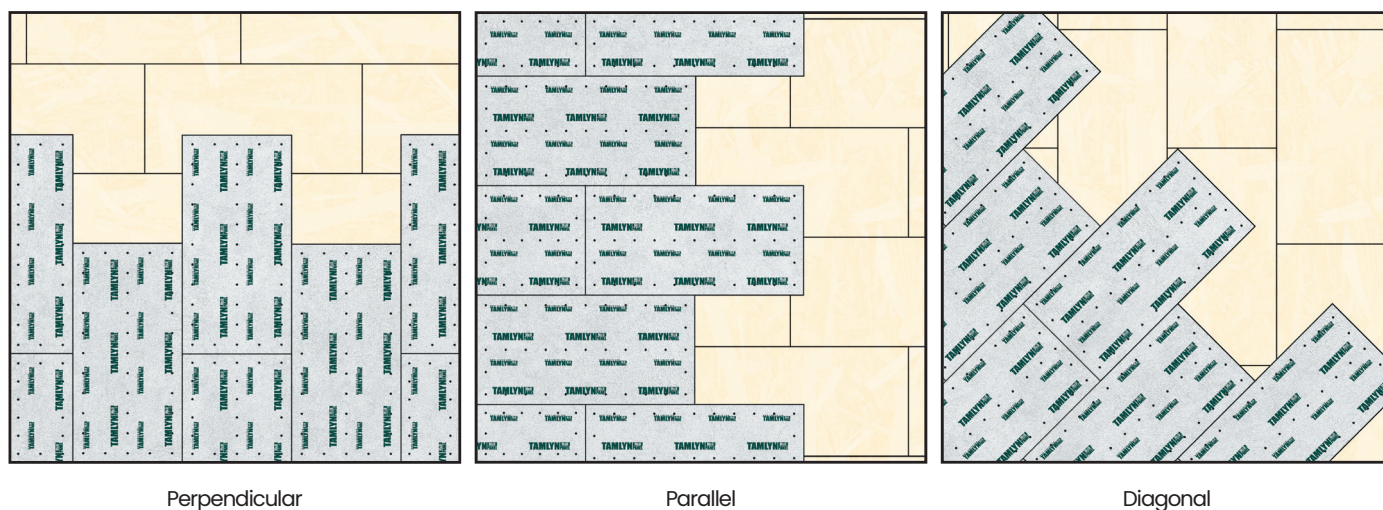
SUBFLOORING CONSIDERATION

- The wood structural panel subflooring must have sufficient load-bearing capacity to support the weight of the **Tamlyn MgO®** panels, independent of their added support.
- Install wood structural panel subflooring in accordance to the manufacturer's guide.
- **Tamlyn MgO®** underlayment panels may be installed with the long side either parallel, perpendicular, or diagonal to the wood structural panel subfloor. **(Fig 6)**
- **Tamlyn MgO®** panel seams shall be staggered from subfloor seams where possible.
- Ensure the edges of the panels are offset by at least 4 inches from the wood structural panel subfloor.
- Position the panels with the smooth side facing up and the rough side in direct contact with the subfloor surface.
- Address any imperfection of the flatness or surface quality prior to installing the underlayment on top of the subflooring. Clear dust, debris, standing water, and other contaminants that would interfere with proper installment.
- Do not install **Tamlyn MgO®** underlayment panels across any design expansion joints/gaps in the wood structural panel subfloor.

TAMLYN MGO® PANEL LAYOUT

- **Tamlyn MgO®** panels may be installed with the long dimension perpendicular, parallel, or diagonal to the long dimension of the structural subflooring. **(Fig 6)**

FIG 6:



REPAIR

- To repair small divots and imperfections in **Tamlyn MgO®** panels, use a floor patching compound designed for concrete or masonry surfaces. Follow the manufacturer's guidelines for application and gap filling limitation and applications. Once the patching compound is applied, lightly sand the surface to achieve a smooth finish.
- To repair a hole caused by damage in **Tamlyn MgO®** panel, first cut around the broken section and clear away any loose dirt or debris. Replace the damaged area with a properly sized piece of **Tamlyn MgO®** panel that is trimmed to fit within the cutout. Securely attached and fasten the patch to the subfloor. Use a suitable patching compound to create a smooth transition along the edges of the repair.
- If the hole goes through both the **Tamlyn MgO®** underlayment panel and the wood structural panel subfloor, repair the wood structural panel first per manufacturer guidelines and then the **Tamlyn MgO®** underlayment.

SURFACE PREPARATION FOR FINISHING

- Thoroughly remove all dust, dirt, and debris from the **Tamlyn MgO®** underlayment, ensuring the surface is clean and free of water, oil, grease, or any contaminants before applying the finished floor covering.
- Examine the panel surface for any imperfections or damage, and make repairs as outlined in these instructions
- The **Tamlyn MgO®** panels must be level, without any significant high or low area
- Before installing the finished floor, allow the HVAC system to run under end-use conditions for at least 48 hours.

General Note: Prior to installing the floor covering, verify the manufacturer's installation specifications and ensure they are compatible with the substrate. Be sure to follow their recommendations for primers, adhesives, mortars, self-levelers, underlayment, and any other necessary materials.