

GreenGlass® interior gypsum board is a fiberglass-faced panel designed for use in a broad range of wall, ceiling and decorative accent structures where premium mold and moisture resistance is required and a high recycled content is desirable to contribute credits toward certification in LEED and other green building rating systems.

DESCRIPTION:

GreenGlass® interior gypsum board is a fiberglass-faced panel designed for use in a broad range of wall, ceiling and decorative accent structures where premium mold and moisture resistance is required and a high recycled content is desirable to contribute credits toward certification in LEED and other green building rating systems.

MOLD and MOISTURE RESISTANCE:

GreenGlass interior board incorporates the TemShield mold protection system in its enhanced gypsum core and is wrapped in naturally mold- and moisture-resistant fiberglass facers. It scored

a 10, the highest score possible, when tested in accordance with ASTM D3273, the industry standard test for mold resistance. Its water absorption of less than 5 percent was tested in accordance with ASTM C473. See our website for more information.

Note: The ASTM D3273 lab test may not be applicable to the actual performance of building materials. No material may be labeled mold proof, and resistance to mold growth depends on many factors. Prolonged exposure to moisture may cause mold and mildew to grow on any surface. Therefore, in order to maximize the mold and mildew resistance of a material, it is essential that good design, handling and construction practices be implemented. This involves avoiding water exposure during all phases of storage, handling, shipping, installation and after installation is complete. See GA 238 for more information.

RECYCLED CONTENT CERTIFICATION:

GreenGlass is SCS certified in accordance with ISO 14021 standards to have at least 90% recycled content on a dry-weight basis. This certified material composition contributes toward recycled material credits in the LEED rating system as well as other rating systems. To find out more about Temple-Inland gypsum board's contribution to green building credits, visit our website.

LOW VOC EMISSIONS

Collaborative for High Performance Schools (CHPS) Program

GreenGlass interior board is third-party certified by Materials Analytical Services, LLC (MAS) to meet the performance standard established for low-emitting materials under the Collaborative for High Performance Schools (CHPS) program. Projects using GreenGlass are eligible for contribution toward credit IEQ 4.6 in the 2009 LEED for Schools rating system and CHPS credit EQ 2.3.6, encouraging the use of gypsum board with low Volatile Organic Compounds (VOCs) emissions.

Sulfur Emissions

Emissions testing was also conducted by MAS for corrosive carbon disulfide and carbonyl sulfide off-gassing and results confirmed GreenGlass is not a problematic drywall type.

INSTALLATION RECOMMENDATIONS:

Before installing GreenGlass interior board, read page 2 of this document regarding handling cautions and required hygiene.

GreenGlass must be installed in accordance with ASTM C840 and/or Gypsum Association publication GA 216. Installation in non fire-rated applications is very similar to standard paper-faced products.

For fire-rated installations, refer to the Gypsum Association Fire Resistance Design Manual and/or UL Fire Resistance Directory.

Framing:

The minimum width of wood framing members shall be 1 1/2." The minimum width of metal framing members shall be 1 1/4." Framing members shall not vary more than 1/8" from the plane of the faces of adjacent framing.

Fasteners:

Drive fasteners flush with the surface of the panel. Do not countersink fasteners. All fasteners must penetrate into the framing member. Locate fasteners a minimum of 3/8" from the edges and ends of the panel. Use either nails or screws to attach GreenGlass interior board to framing members.

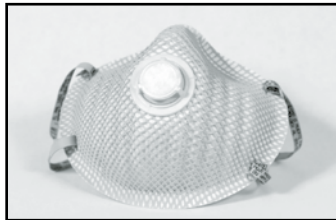
Finishing:

For GreenGlass finishing recommendations, refer to Gypsum Association publication GA 214 (levels of finish).

TYPICAL PROPERTIES		
	1/2"	5/8"*
Width	48"	48"
Lengths	8', 10', 12'	8', 10', 12'
Edge	Tapered	Tapered
Water Absorption ¹	< 5%	< 5%
Product Standards	ASTM C1396 ASTM C1658	ASTM C1396 ASTM C1658
Application Standards	ASTM C840, GA 216	ASTM C840, GA 216
Flame Spread ²	0	0
Smoke Developed ²	0	0
Humidified Deflection ¹	2/8" Max	1/8" Max

*5/8" complies with UL designs and requirements for Type X products.

¹ASTM C473; ²ASTM E84



FIRE-RATED ASSEMBLIES:

GreenGlass fire-resistant interior panels have been tested in accordance with ASTM E119 and therefore may provide a fire-resistance rating of one or more hours, depending upon the assembly in which it is applied. Please visit our website for a listing of over 140 U.L.-approved assemblies and design details or contact your Temple-Inland representative for details.

Note: Because ASTM procedures require that fire tests be conducted on complete building assemblies/systems and not just on the gypsum board itself, the ability of any particular gypsum board to pass a specific ASTM fire test may well depend on factors other than the fire resistance of the gypsum board being tested. These factors include the other components used to construct the building system being tested, the manner in which the system is constructed and the inherent variability of ASTM fire tests.

CODE COMPLIANCE:

GreenGlass interior gypsum board is manufactured to comply with ASTM C1396 and ASTM C1658.

LIMITATIONS:

- Should not be used as a nailing base.
- Should not be immersed in water or subjected to cascading water conditions.
- Do not allow water to pond or settle on board either before or after installation.
- Not intended for use as a tile backer.

- Should not be used where forced air heaters can produce condensation when not properly vented.
- Do not use for structural roof sheathing or decking applications.
- Do not use for exterior wall sheathing. Use GreenGlass exterior sheathing instead.
- Correctly follow all system specifications for fasteners, sealants and control joints.
- All openings and penetrations must be properly sealed.
- Walls should not be finished until the structure is closed in. Failure to adhere to these limitations and manufacturer's instructions will void the warranty.

LIMITED WARRANTY:

Temple-Inland offers a 12-month weather-exposure warranty and a 3-year warranty against manufacturing defects. See warranty details on our website.

**CAUTION:
CONTAINS GLASS FIBERS:**

Glass fibers are contained within GreenGlass interior gypsum board and in the glass facers. Handling may cause skin irritation. Cutting and handling may release glass fibers. Do not use a power saw. Avoid inhalation of these fibers as they may cause respiratory irritation or even aggravated medical conditions.

Skin: If skin contact causes irritation, wash the area with soap and water.

Eyes: If contact with eyes, flush the eye with clean water for 15 minutes.

Lungs: Avoid any inhalation of fibers. If unintended inhalation occurs, move to an area of fresh air.

PRODUCT HANDLING AND HYGIENE REQUIREMENTS:

Care should be used in handling GreenGlass interior board to ensure worker comfort and safety. Below are some handling guidelines and safety requirements:

- Avoid breathing dust-glass fibers by using a NIOSH-approved dust mask when cutting or sanding.
- Gloves and loose-fitting, long-sleeved clothing should be worn to avoid contact of the GreenGlass with bare skin.
- Eye protection with side protection should be worn. Use either safety glasses with side shields or goggles.
- Skin should be washed after contact with GreenGlass. Wash exposed skin with soap and water.
- Clothing may entangle glass fibers. Clothing which has glass fibers entangled should be washed separately from other clothing.

See product MSDS for more information.

GreenGlass: Tough as expected. Green as it gets.

