

CertainTeed

AirRenew® M2TECH™

Indoor Air Quality Gypsum Board

Product Data and Submittal

Product Description

AirRenew® M2Tech® Gypsum Board is for use in interior walls and ceilings and is specially designed to offer a healthier living and working environment by improving indoor air quality and offering peace of mind for generations.

AirRenew's innovative technology* enhances the air quality by permanently reducing formaldehyde circulating in the air. M2Tech® technology also improves indoor air quality by providing enhanced moisture and mold resistance. AirRenew contains a moisture resistant core enclosed in a light-violet colored, 100% recycled moisture and mold resistant face and bronze colored back paper.

AirRenew helps take formaldehyde out of the air and converts them into safe inert compounds. Once they are captured in the board, they cannot be released back into the air. AirRenew Gypsum Board may be finished, with water based acrylic (latex) paint, water based textures, or breathable wallpaper using conventional gypsum board techniques.

The absorption rate of formaldehyde may be reduced by the application of primers and paint.

Basic Uses

AirRenew Gypsum Board is used for interior walls and ceilings in residential, commercial or institutional applications. It can be used for new construction or renovations over wood or steel framing. It is typically nailed or screwed to studs spaced 16" (406 mm) or 24" (607 mm) o.c., but can be laminated with an adhesive.

Advantages

- AirRenew permanently removes formaldehyde circulating in the air.
- Ideal for multiple renovations.
- Continues to absorb formaldehyde after being painted with water based acrylic (latex) paint or covered with breathable wallpaper.
- Can be recycled or landfilled, if permitted locally, the same as standard gypsum board and is not harmful to humans or animals.
- M2Tech technology provides additional zone of protection against moisture and mold.
- Achieves best possible score of 10 for mold resistance per ASTM D3273**.
- Achieves best possible score of 0 for mold resistance per ASTM G21**.
- Handles like standard gypsum board
- Low water absorption – less than 5% per ASTM C473.
- AirRenew Type X has a fire-resistant gypsum core.
- GREENGUARD Gold Certified

Limitations

- Finishes other than water based acrylic (latex) paint, primer and textures or breathable wallpaper that restrict the board surface permeability may inhibit the formaldehyde absorption properties.
- Avoid exposure to water or excessive moisture during transportation, storage, handling, during or after installation. Good design and construction practices that prevent water and moisture exposure of building products are the most effective strategy to avoid the growth of mold.
- Not recommended for exterior application.
- AirRenew Gypsum Board is not recommended for areas which will be continuously wet or subjected to high humidity such as tub and shower enclosures behind tile, saunas, steam rooms or public showers.
- Not recommended for continuous exposure to temperatures exceeding 125°F (52°C).
- Ceiling framing spacing should not exceed 16" (406 mm) o.c. for parallel or 24" (607 mm) o.c. for perpendicular application
- Wall framing spacing should not exceed 24" (607 mm) o.c.
- Store indoors and off ground surface. Boards should be stacked flat with care taken to prevent sagging or damage to edges, ends and surfaces.

Continued on back

Job Name

Contractor

Date

Products Specified:

Submittal Approvals
(Stamps or Signatures)

CertainTeed
SAINT-GOBAIN

- Storing board lengthwise leaning against the framing is not recommended.
- Boards should be carried, not dragged, to place of installation to prevent damaging finished edges.
- Cutting and scoring should be done from the face side.
- In cold weather or during joint finishing temperatures within the enclosure should stay within the range of 50° to 95° F (10° to 35° C) and with sufficient ventilation to carry off excess moisture.

Product Data

Thicknesses: 5/8" (15.9 mm) Type X
1/2" (12.7 mm)

Widths: 4' (1220 mm)

Lengths: 8', 10', 12' Standard
(2440, 3050, 3660 mm)

Edges: Tapered

Packaging: Two pieces per bundle,
face-to-face and end-taped

Technical Data

Surface Burning Characteristics

AirRenew Gypsum Board has a Flame Spread rating of 5 and Smoke Developed rating of 5 when tested in accordance with ASTM E84, (UL 723, NFPA 255, CAN/ULC-S102).

Fire Resistance

AirRenew Type X Gypsum Board is UL Classified and ULC Listed for Fire Resistance in accordance with ASTM E119 (UL 263, NFPA 251, CAN/ULC-S101) and may be substituted for CertainTeed and M2Tech Type X Gypsum Board in UL/ULC fire-rated designs.

Applicable Standards and References

- ASTM C1396
- ASTM C840
- CAN/CSA-A82.31
- CAN/CSA-A82.27
- Gypsum Association GA-216
- Gypsum Association GA-214
- ICC International Building Code (IBC)
- ICC International Residential Code (IRC)
- National Building Code of Canada (NBCC)

Installation

Decoration

CertainTeed AirRenew Gypsum Board accepts water based acrylic (latex) paints, primers, textures and breathable wallpapers. The surface shall be primed and sealed with a full-bodied latex primer before applying a final decorative material. This will equalize the suction between the joint compounds and the paper surface.

For best painting results, all surfaces, including joint compound, should be clean, dust-free and not glossy. If glossy paints are used, a thin skim coat of compound over the entire surface,

Level 5 finish, is recommended to reduce highlighting or joint photographing. This method is also recommended for areas of critical sidelighting of natural or artificial light sources.

A water based primer/sealer application under breathable wallpaper or other wall covering is also recommended so the board surface will not be damaged, if the covering is subsequently removed during redecorating.

Joint treatment must be thoroughly dry before proceeding with primer-sealer application and final decoration.

* Patent pending

** The performance of AirRenew Gypsum Board in actual use may not accurately reproduce the results achieved in this ASTM laboratory test. Good design and construction practices that prevent water and moisture exposure of building products are the most effective strategy to avoid the growth of mold.

Notice

The information in this document is subject to change without notice. CertainTeed assumes no responsibility for any errors that may inadvertently appear in this document.



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