CertainTeed

AirRenew® Essential

Indoor Air Quality Gypsum Board

Product Data and Submittal

Product Description

AirRenew® Essential Gypsum Board is for use in interior walls 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 Essential's innovative technology* enhances the air quality by permanently removing formaldehyde, the most common VOC** found in indoor air. It keeps working for up to 75 years (based on tests and analysis) even through multiple renovations and after being finished and painted.

AirRenew Essential takes formaldehyde out of the air and converts it into safe inert compounds. Once they are captured in the board, they cannot be released back into the air.

AirRenew Essential Gypsum Board may be finished with water based acrylic (latex) and epoxy paint, water based textures, or breathable wallpaper using conventional gypsum board techniques.

Basic Uses

AirRenew Essential Gypsum Board is used for interior walls 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" (400 mm) or 24" (610 mm) o.c., but can be laminated with an adhesive.

Advantages

- Permanently removes formaldehyde circulating in the air.
- Provides up to 75 years of formaldehyde absorption, based on tests and analysis.
- Continues to absorb formaldehyde after being painted with water based acrylic (latex) and epoxy 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.
- GREENGUARD Gold Certified

Limitations

- Finishes other than water based acrylic (latex) and epoxy paint, primer and textures or breathable wallpaper that restrict the board surface permeability may inhibit the VOC's** absorption properties.
- Exposure to continuous moisture or extreme temperatures should be avoided.
- Not recommended for exterior application.
- Not recommended for continuous exposure to temperatures exceeding 125˚F (52˚C).
- Wall framing spacing should not exceed 24" (610 mm) o.c.

Product Data

Thicknesses: 1/2" (12.7 mm)

Widths: 4' (1220 mm)
54" (1370 mm)

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

Weight: 1.4 - 1.6 psf (6.8 - 7.8 kg/m^2)

Edges: Tapered

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

Product Standards
ASTM C1396
CAN/CSA-A82.27

Technical Data

Surface Burning Characteristics

AirRenew Essential Gypsum Board has a Flame Spread rating of 15 and Smoke Developed rating of 0 when tested in accordance with ASTM E84, (UL 723, NFPA 255, CAN/ULC-S102).

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Job Name

Contractor **Date**

Products Specified:

Submittal Approvals
(Stamps or Signatures)

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Applicable Standards and References

- ASTM C840
- CAN/CSA-A82.31
- 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 Essential Gypsum Board accepts water based acrylic (latex) and epoxy paints, vapor barrier 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 side lighting 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

** VOCs (volatile organic compounds) – formaldehyde and other aldehydes.

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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GOLD

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