



# Indoor Air Quality Gypsum Board

## Product Data and Submittal

### Product Description

AirRenew® Essential Indoor Air Quality gypsum board 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® Essential's innovative patented technology\* enhances the air quality by permanently reducing formaldehyde circulating in the air through multiple renovations and after being finished and painted.

AirRenew® Essential helps take formaldehyde out of the air and converts it into a safe inert compound. Once it is captured in the board, it is not released back into the air.

AirRenew® Essential 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® Essential 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" (400 mm) or 24" (610 mm) o.c., but can be laminated with an adhesive.

### Advantages

- 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.
- Handles like standard gypsum board
- AirRenew® Essential 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® Essential 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).
- For 1/2" AirRenew® Essential, when applied perpendicular to framing, ceiling framing spacing should not exceed 16" (400 mm) o.c. with water-based texture finish, or 24" (610 mm) o.c. without water-based texture finish.
- For 5/8" AirRenew® Type X, ceiling framing spacing should not exceed 16" (400 mm) o.c. for parallel or 24" (610 mm) o.c. for perpendicular application.
- Wall framing spacing should not exceed 24" (610 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.
- 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

Continued on back

Job Name

Contractor

Date

Products Specified:



Submittal Approvals  
(Stamps or Signatures)

## Product data

### Thickness:

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

**Width:** 4', 54" (1220, 1375 mm)

**Length:** 8', 12' Standard  
(2440, 3660 mm)

AirRenew® Essential is also available in additional lengths. Please contact us for more information.

### Weights:

1/2" Regular 1.4-1.6 psf  
(6.8 - 7.8 kg/m<sup>2</sup>)

5/8" Type X 2.2 psf  
(10.7 kg/m<sup>2</sup>)

**Edge:** Tapered

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

## 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, 0/0 ratings under CAN/ULC-S102).

### Fire Resistance

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

UL/cUL/ULC Type Designation listed in Fire Resistance Directories - Type X.

## 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® Essential gypsum board accepts water based acrylic (latex) 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.

The performance of AirRenew® Essential 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.

\* Patent pending.

## 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.

For Fire Resistance, no warranty is made other than conformance to the standard under the assembly. Minor discrepancies may exist in the values of ratings, attributable to changes in materials and standards, as well as differences between the testing facilities. Assemblies are listed as "combustible" (wood framing) and "noncombustible" (concrete and/or steel construction). For fire resistance ratings, refer to the Gypsum Association Fire Resistance Design Manual and UL Fire Resistance Directory - Vol. 1 or ULC Fire Resistance List of Equipment and Materials.



## CertainTeed Corporation

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