

CertainTeed

AirRenew[®] Extreme Abuse

Abuse Resistant Gypsum Board

Product Data and Submittal

Product Description

AirRenew[®] Extreme Abuse Resistant Gypsum Board is for use in interior wall and ceiling applications that require improved durability 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 VOCs** circulating in the air. It keeps working for up to 75 years even (based on tests and analysis) through multiple renovations and after being finished and painted. M2Tech[®] technology also improves indoor air quality by providing enhanced moisture and mold resistance. AirRenew Extreme Abuse contains a specially formulated, dense, fire resistive, noncombustible, moisture resistant core enclosed in a 100% recycled moisture and mold resistant face and back paper.

AirRenew takes VOCs** 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 Extreme Abuse 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 Extreme Abuse is used for interior walls and ceilings in residential, commercial or institutional applications where improved surface abrasion and indentation is required. It can be used for new construction or renovations over wood or steel framing.

For Use In Abuse Prone Areas

AirRenew Extreme Abuse provides the increased protection and durability required for abuse prone areas that are subjected to repeated wear and tear, such as classrooms, patient rooms and public buildings.

Advantages

- Greater resistance to abuse than standard gypsum board.
- Lightweight, fast installation with smaller footprint versus concrete masonry units.
- AirRenew permanently removes VOCs** circulating in the air.
- Ideal for multiple renovations.
- Provides up to 75 years of VOCs** absorption, based on tests and analysis.
- Continues to absorb VOCs** 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.
- M2Tech[®] technology provides additional zone of protection against moisture and mold.
- Achieves best possible score of 10 for mold resistance per ASTM D 3273***.
- Achieves best possible score of 0 for mold resistance per ASTM G 21***.
- Handles like standard gypsum board
- Low water absorption—less than 5% per ASTM C 473.
- Type X fire-resistant gypsum core.
- GREENGUARD Children and SchoolsSM Certified
- Improved sound attenuation over standard gypsum board

Limitations

- Where 5/8" (15.9 mm) Type C is specified to attain a fire resistance rating, AirRenew Extreme Abuse cannot be substituted.
- Maximum framing spacing as per the ICC International Building Codes and National Building Code of Canada recommended application standards and design listings.
- To achieve the product's designed abuse ratings and to eliminate potential installation issues such as screw spin-out on lighter gauge studs, minimum of 20 gauge studs must be used.
- 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.
- 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 Extreme Abuse 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).

Continued on back

Job Name

Contractor

Date

Products Specified:

Submittal Approvals
(Stamps or Signatures)

CertainTeed
SAINT-GOBAIN

- 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.

Sizes and Types

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

Widths: 4' (1220 mm)

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

Weight: 2.8 lbs per SF (13.7 kg/m²)

Edges: Tapered

Packaging: Two pieces per bundle, face-to-face

Product Standards:

ASTM C 1396

CAN/CSA-A82.27

ASTM C 1629

Technical Data

Surface Burning Characteristics

AirRenew Extreme Abuse has a Flame Spread rating of 15 and Smoke Developed rating of 0 when tested in accordance with ASTM E 84, (UL 723, NFPA 255) and a Flame Spread rating of 5 and Smoke Developed rating of 5 when tested in accordance with CAN/ULC-S102.

Fire Resistance

AirRenew Extreme Abuse Resistant Gypsum Board is UL Classified and ULC Listed for Fire Resistance in accordance with ASTM E 119 (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 C 840
- 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 Extreme Abuse accepts water based acrylic (latex) and epoxy 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

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

*** The performance of AirRenew Extreme Abuse 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.

Abuse Resistance Classification Levels

ASTM C 1629	Surface Abrasion	Indentation Resistance	Soft Body Impact	Hard Body Impact
ASTM Test Method	D 4977	D 5420	E 695	C 1629, A.1
Classification Level	3	1	2	1

Notice

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