

**CertainTeed**

CertainTeed Gypsum's  
Contributions to Green Building



Montage Deer Valley Resort – Park City, Utah

**CertainTeed**  
SAINT-GOBAIN



Marriott – Normal, Illinois

## CERTAINTEED GYPSUM PLANT LOCATIONS:

- |                   |                 |
|-------------------|-----------------|
| Calgary, AB       | Moundsville, WV |
| Carrollton, KY    | Napa, CA        |
| Cody, WY          | Nashville, AR   |
| Fort Dodge, IA    | Roxboro, NC     |
| Junction City, KS | Oakville, ON    |
| Kent, WA          | Seattle, WA     |
| Las Vegas, NV     | Toronto, ON     |
| McAdam, NB        | Vancouver, BC   |
| Montreal, QC      | Winnipeg, MB    |



SUSTAINABLE MATERIALS  
RECYCLED CONTENT



FIRE  
RESISTANCE



MOISTURE &  
MOLD RESISTANCE



INDOOR AIR  
QUALITY



ACOUSTICS



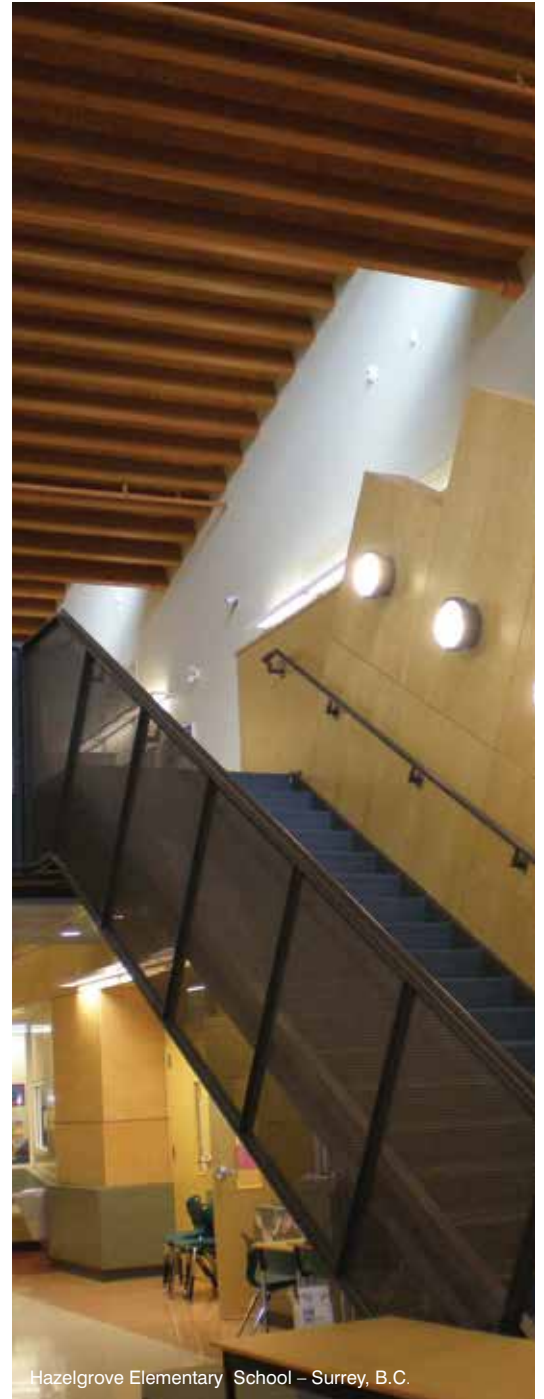
DURABILITY

CertainTeed Gypsum operates its manufacturing facilities with a responsible and environmentally conscious ethic that includes reclamation, preservation of natural resources, recycling and waste management.

CertainTeed®, M2Tech®, AirRenew®, and Easi-Lite™ gypsum boards contain up to 99% total recycled content depending on plant location. Multiple our plants have implemented construction waste management programs that incorporate clean, post-consumer gypsum board back into the production process.

Gypsum board product innovation is also carried out with a focus on environmental responsibility; research and development emphasize minimizing environmental impacts to the greatest extent possible.

Visit [www.CertainTeed.com/Sustainable](http://www.CertainTeed.com/Sustainable) for technical information, project and application case studies, free continuing education (CEU) courses, CAD drawings and BIM objects, our corporate sustainability report, product data sheets, and other information. For green building design, material selection, and documentation, CertainTeed Gypsum online tools include ecoScorecard™: [CertainTeedGypsum.ecoScorecard.com](http://CertainTeedGypsum.ecoScorecard.com)










Hazelgrove Elementary School – Surrey, B.C.



# discover sustainability

For sustainable design and construction of commercial, institutional, and residential projects, CertainTeed Gypsum provides a broad range of application and performance options. For ceiling and wallboard, we offer products that contribute to indoor air quality, acoustics, fire resistance, moisture and mold resistance, recycled content, regional materials, and potentially innovation in design needs, as well as overall durability, aesthetics, and sustainability of a building.



Product	 SUSTAINABLE MATERIALS RECYCLED CONTENT	 FIRE RESISTANCE	 MOISTURE & MOLD RESISTANCE	 INDOOR AIR QUALITY	 ACOUSTICS	 DURABILITY	 AESTHETICS
<b>Wall &amp; Ceiling Boards*</b>							
CertainTeed® Regular Gypsum Board	●						
CertainTeed® Type X Gypsum Board	●	●					
CertainTeed® Type C Gypsum Board	●	●					
Easi-Lite™ Lightweight Gypsum Board	●						
Easi-Lite™ Veneer Plaster Base	●						
M2Tech® Gypsum Board	●		●				
M2Tech® Type X Gypsum Board	●	●	●				
M2Tech® Shaftliner Type X		●	●				
CertainTeed® Interior Ceiling Board	●						
CertainTeed® Veneer Plaster Base	●						
CertainTeed® Veneer Plaster Base Type X	●	●					
CertainTeed® Veneer Plaster Base Type C	●	●					
CertainTeed® Sheathing Treated Core	●						
CertainTeed® Sheathing Treated Core Type X	●	●					
CertainTeed® Exterior Soffit Board Type X		●					
AirRenew® M2Tech® Indoor Air Quality Gypsum Board	●		●	●			
AirRenew® M2Tech® Type X Gypsum Board	●	●	●	●			
AirRenew® Extreme Abuse Type X Gypsum Board	●	●	●	●		●	
AirRenew® Extreme Impact Type X Gypsum Board	●	●	●	●		●	
AirRenew® Essential	●			●			
AirRenew® Essential Type X	●	●		●			
SilentFX® Noise-Reducing Gypsum Board			●		●	●	
SilentFX® Noise-Reducing Type X Gypsum Board		●	●		●	●	
GlasRoc® Sheathing			●				
GlasRoc® Sheathing Type X		●	●				
GlasRoc® Shaftliner Type X		●	●				
Diamondback® GlasRoc® Tile Backer			●				
Diamondback® GlasRoc® Tile Backer Type X		●	●				
GlasRoc® Roof Board			●				
GlasRoc® Roof Board Type X		●	●				
CertainTeed® M2Tech® Level V Primer/Surfacer			●				●
AquaBead Flexible Corner Bead						●	●
Optimus™ Corner Bead						●	●

\*Not available in all areas. Consult your CertainTeed Gypsum Territory Manager for availability in your area.

# CERTAINTEED GYPSUM PRODUCT CONTRIBUTIONS\*\*

NAHB (Based on National Green Building Standard, ICC 700-2012)

Credit	Description	Possible Points
<b>RESOURCE EFFICIENCY</b>		
604.1	Recycled Content	2-6
609.1	Regional Materials	2
610.1	Life Cycle Analysis	1-15
611.1	Manufacturer's Environmental Management System Concepts	1-10

LEED-H (Based on LEED-H, 2008)

Credit	Description	Possible Points
<b>MATERIALS &amp; RESOURCES</b>		
MR 2.2	Environmentally Preferable Products—Materials	0.5
MR 2.2	Environmentally Preferable Products—Local	0.5

LEED-NC, LEED-CS and LEED for schools (Based on LEED Version 3, 2009)

Credit	Description	Possible Points		
		NS	CS	SCHOOLS
<b>MATERIALS &amp; RESOURCES</b>				
MR 2	Construction Waste Management	1-2	1-2	1-2
MR 4	Recycled Content	1-2	1-2	1-2
MR 5	Regional Materials	1-2	1-2	1-2
<b>INDOOR AIR QUALITY</b>				
IEQ 4.6	Low-Emitting Materials—Ceiling and Wall Systems	1	NA	1

LEED-CI (Based on LEED-CI Version 3, 2009)

Credit	Description	Possible Points
<b>MATERIALS &amp; RESOURCES</b>		
MR 2	Construction Waste Management	1-2
MR 4	Recycled Content	1-2
MR 5	Regional Materials	1-2

\*\* Visit [www.buildingresponsibly.com](http://www.buildingresponsibly.com) for more details about which products qualify for these credits and full credit descriptions.



CertainTeed, M2Tech®, AirRenew® and Easi-Lite® products have been NGBS Green Certified™ by the Home Innovation Research Labs to automatically earn points for this particular credit.



[ **Be Certain** ] Confidence worth building on.™

## ASK ABOUT ALL OF OUR OTHER CERTAINTEED® PRODUCTS AND SYSTEMS:

ROOFING • SIDING • TRIM • DECKING • RAILING • FENCE  
**GYPSUM** • CEILINGS • INSULATION

[www.certainteed.com/sustainable](http://www.certainteed.com/sustainable) <http://blog.certainteed.com>

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 Valley Forge, PA 19482

Professional: 800-233-8990  
 Consumer: 800-782-8777

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 Excerpt from CTG-5000G



**CertainTeed**

# AirRenew®

Indoor Air Quality Gypsum Board

Clean formaldehyde out of the air with AirRenew®



### AirRenew Essential

Permanently reduces formaldehyde and other aldehydes



### AirRenew Extreme Abuse

Increased durability for abuse prone areas



### AirRenew Extreme Impact

Achieves highest level of impact resistance



### VALIDATED

- ✓ MEASURED PERMANENT FORMALDEHYDE ABSORPTION CAPACITY OF 0.4 G/M<sup>2</sup> OF SURFACE AREA
- ✓ MOLD RESISTANT PER ASTM D 3273
- ✓ RECYCLED CONTENT MINIMUM POST-CONSUMER 1.9%, PRE-CONSUMER 90.5%
- ✓ REGIONAL MATERIALS MINIMUM 88.5%

People spend approximately 90% of their time indoors. Yet research has proven that there are many VOCs and other contaminants found throughout schools, hospitals, offices and residences. In fact, studies have shown that indoor air is often more polluted than outdoor air. Only AirRenew actively cleans the air, removing VOCs and improving indoor air quality.

# AirRenew<sup>®</sup> for a healthier living and working environment

AirRenew uses two innovative technologies\* to actively improve indoor air quality.



## AirRenew takes formaldehyde\*\* out of the air — and keeps them out

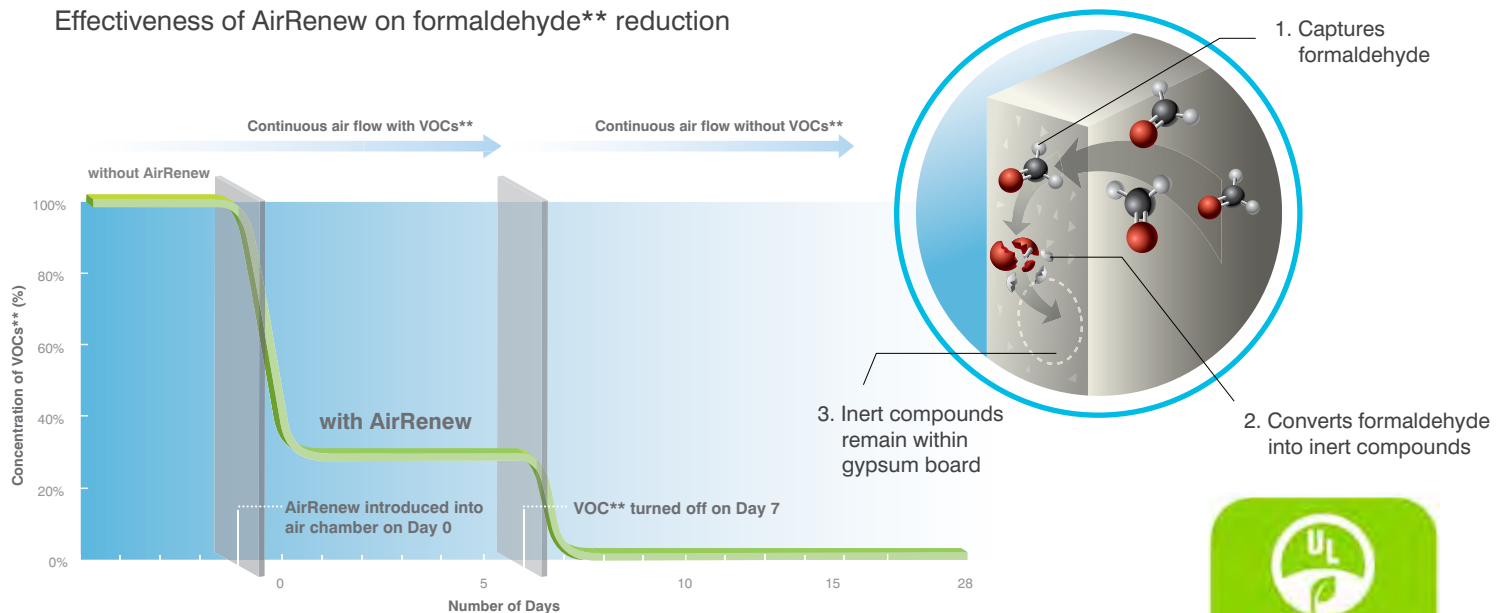
AirRenew's new technology takes VOCs\*\* out of the air and converts them into safe, inert compounds. Once they are captured in the board, they cannot be released back into the air.

## M2Tech<sup>®</sup> technology provides enhanced moisture and mold resistance

Specially engineered to provide enhanced protection against mold growth, M2Tech<sup>®</sup> achieves the best possible score of 0 for mold resistance per ASTM G21 and 10 per ASTM D3273.

## How AirRenew cleans the air

### Effectiveness of AirRenew on formaldehyde\*\* reduction



ISO 16000-23: Indoor air — Performance test for evaluating the reduction of formaldehyde concentrations by sorptive building materials. Tests conducted at CertainTeed Research Center in Blue Bell, PA, witnessed by a third party, Resources Applications Designs & Controls, Inc. (RADCO).

\* Patent Pending

\*\* VOCs (volatile organic compounds) — formaldehyde and other aldehydes



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CertainTeed

# Easi-Lite™ 30

30-Minute Lightweight Gypsum Board



Lightweight gypsum board specially designed for use in 30-minute fire rated designs

## The Easi-Lite® 30 advantages:

- A specially formulated 5/8" interior gypsum board that is up to 30% lighter than industry standard 5/8" Type X board.
  - Easier to lift, carry and install
  - Can ship up to 33% more product on a flatbed
- Easy to score and snap
- Easi-Lite 30 is specially designed for use in 30-minute fire-rated wood and steel framed designs as per UL/cUL Design W423, as well as non-rated systems.
- Complies with ASTM C1396, Non-Type X, Section 5 (Wallboard) and Section 12 (Gypsum Ceiling Board); CAN/CSA-A82.27, and building code requirements where a single layer 1-hour fire rating is *not* required.
- Easi-Lite 30 has achieved GREENGUARD [GOLD] Certification and meets CA Section 01350.



# One Board. Multiple Applications.

Lighter weight and sag resistance makes Easi-Lite 30 ideal for ceilings.



## Lighter weight. Less strain. Less fatigue.

### Ideal for commercial applications

- Optimal for use in commercial applications where a 1-hour fire rating is *not* required.
- Lighter weight board relates to less fatigue during installation which results in faster installation and labor cost savings.
- Tapered edge and end tapes are clearly labeled so product can be properly identified for the appropriate application.

### Ideal for residential ceilings application

- 5/8" Easi-Lite 30 can replace standard 5/8" Type X in residential ceiling applications (with the exception of garage ceilings with habitable rooms above).
- Provides similar sag resistance as 5/8" Type X boards.
- Being 30% lighter than Type X board, it is preferred by contractors due to ease of handling.



## Sustainability.

Easi-Lite 30 is a sustainable product solution for interior walls and ceiling applications.

- Up to 99% recycled material
- Lighter boards reduces transportation fuel needs
- Results in reduced carbon footprint from transportation
- Dematerialization means more efficient use of raw material resources



PRODUCT CERTIFIED FOR  
LOW CHEMICAL EMISSIONS  
ULCOM/GG  
UL 2818

### ASK ABOUT ALL OF OUR OTHER CERTAINTEED® PRODUCTS AND SYSTEMS:

ROOFING • SIDING • TRIM • DECKING • RAILING • FENCE  
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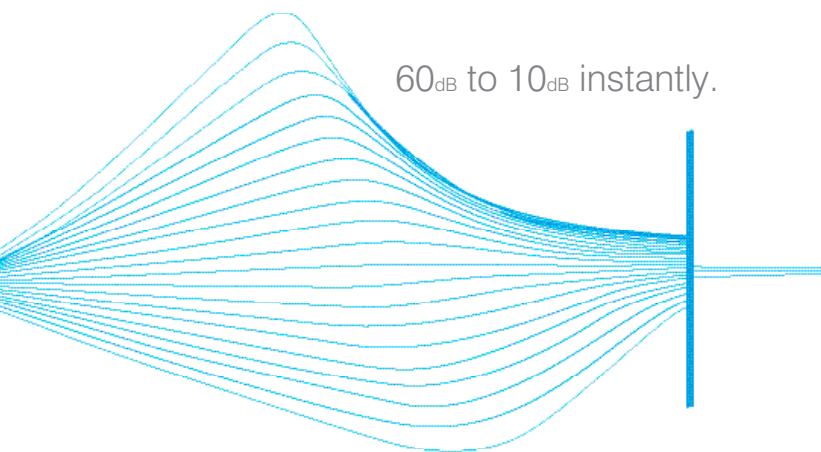
CertainTeed

[www.CertainTeed.com/SilentFX](http://www.CertainTeed.com/SilentFX)

# silentFX®

## Reduces noise pollution while reducing waste

SilentFX® Gypsum Board achieves high STC ratings  
with fewer layers of gypsum board than traditional assemblies.



60<sub>dB</sub> to 10<sub>dB</sub> instantly.

- STC ratings of 50 and higher
- M2Tech® technology provides enhanced moisture and mold resistance
- Abuse resistant per ASTM C1629
- 1/2" Regular and 5/8" Type X

**CertainTeed**  
SAINT-GOBAIN

# Where acoustics are important



A quiet place to heal



More learning with less distraction



Get away from it all



Never hear the neighbors

Specify SilentFX® for the best in acoustic management.



PRODUCT CERTIFIED FOR  
LOW CHEMICAL EMISSIONS  
ULCOM/GG  
UL 2818

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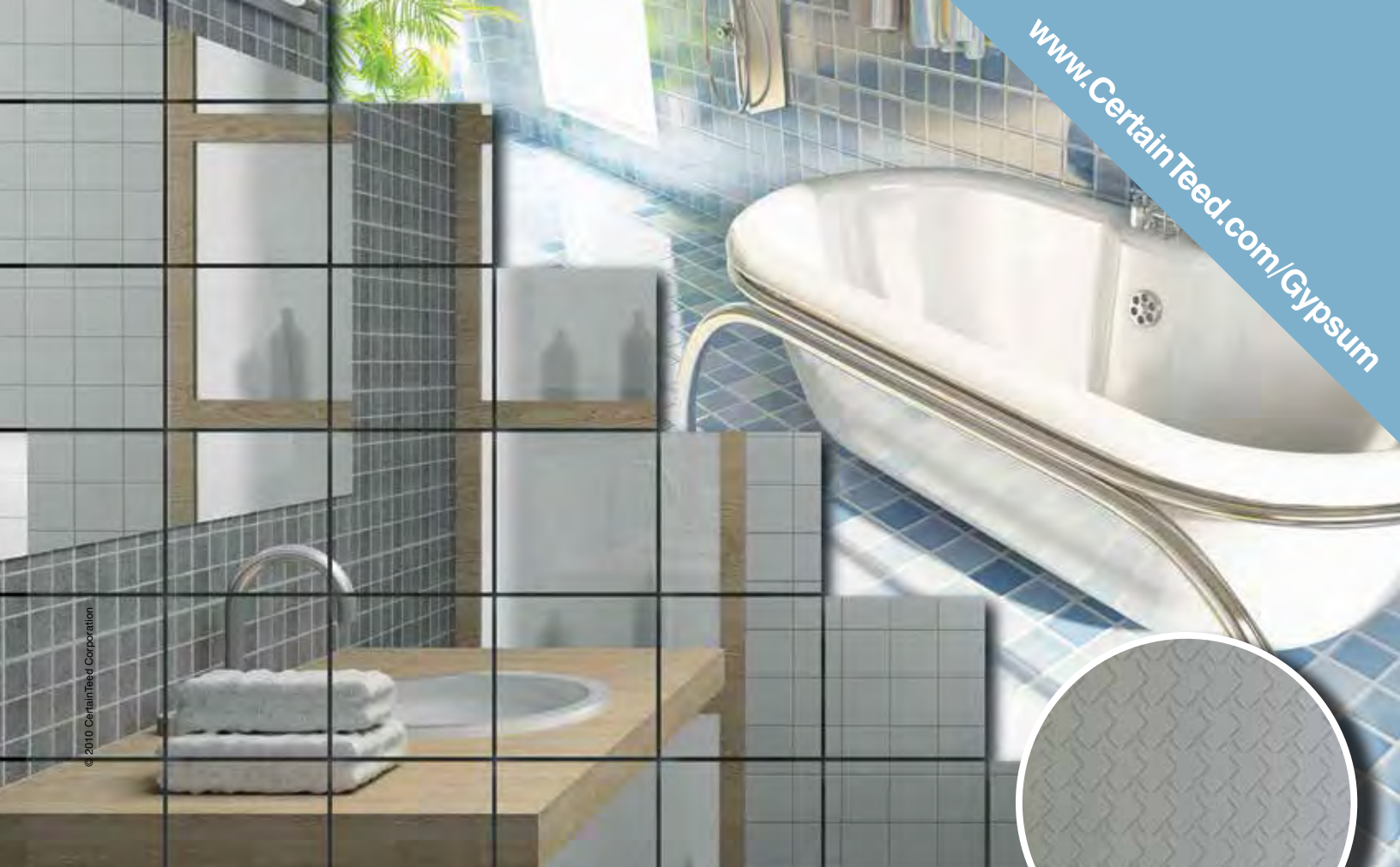
[www.certainteed.com/silentfx](http://www.certainteed.com/silentfx)

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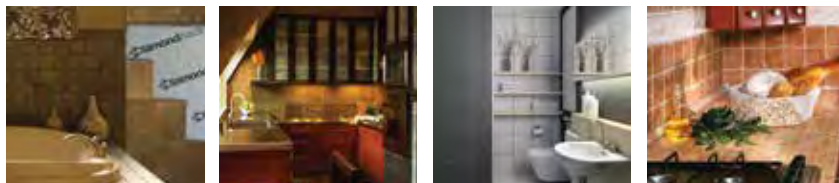


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# Diamondback® Tile Backer

**Unique, patent-pending textured pattern reduces tile slippage during installation**

- ◆ Easy to handle, cut, and install
- ◆ Coating provides a water-resistant surface that eliminates the need for a separate vapor barrier
- ◆ Lighter weight than traditional cement and glass-mat backer boards
- ◆ Scores and snaps like regular gypsum board



800-233-8990 • [certainteed.com](http://certainteed.com)

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CertainTeed  
**GlasRoc**<sup>®</sup>

Glass Mat Exterior Sheathing

[www.CertainTeed.com/GlasRoc](http://www.CertainTeed.com/GlasRoc)



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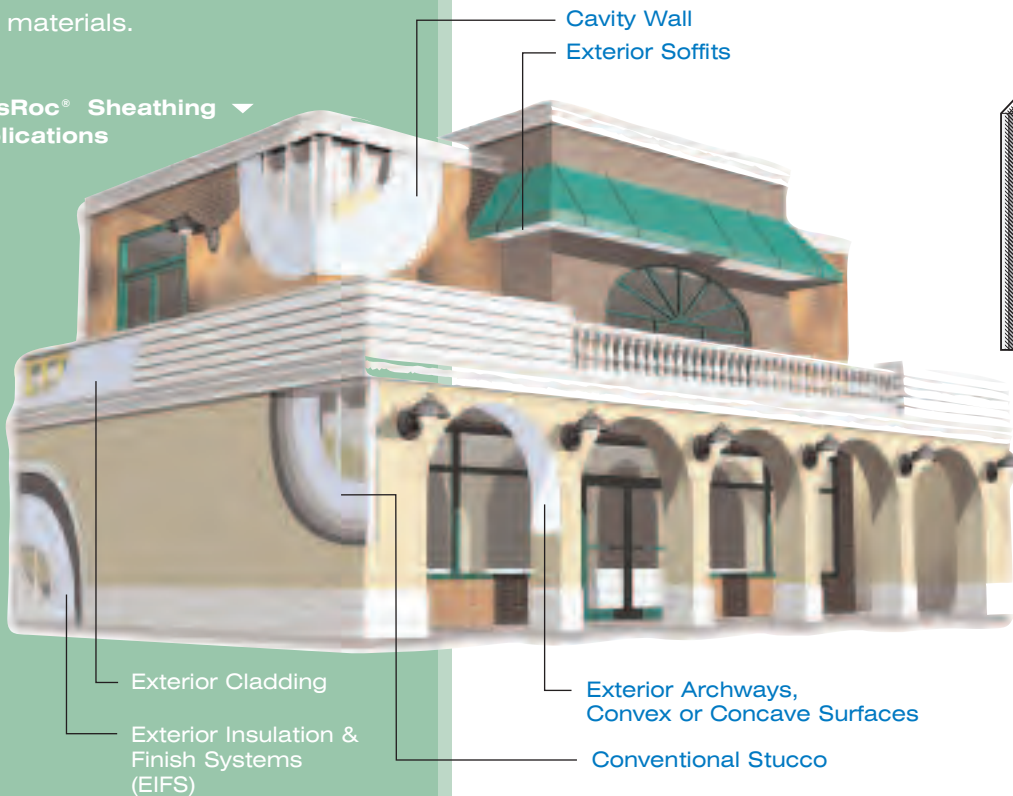
# GlasRoc® Sheathing

CertainTeed respects the environment through the responsible development of sustainable building products and systems.

The building industry continues to look for ways to reduce impact on the environment while meeting customer demand for products that deliver beauty, comfort and performance.

CertainTeed's commitment to these goals is reflected here, highlighting our ongoing effort to become the preeminent supplier of green building materials.

## GlasRoc® Sheathing Applications



## A High-Performance Exterior Sheathing\*

The unique technology behind **GlasRoc®** Sheathing combines reinforcing glass mats, fully embedded into a water-resistant gypsum core positioned beneath a paperless polymer-modified gypsum surface, and a protective acrylic coating on the exterior face.

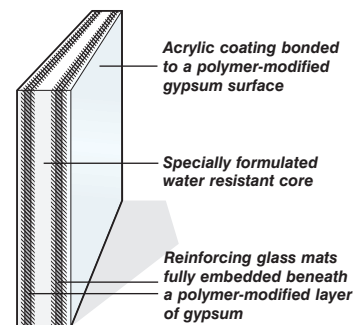
### GlasRoc® Brand Sheathing offers:

- Long term protection (12 months) to weather exposure.
- A superior water resistant surface that does not inhibit water vapor permeance.
- Excellent fire resistance properties, and numerous fire rated designs.
- Mold resistance.
- Compatibility with most exterior wall systems and applications.

- Conformity to design and code requirements.
- Strength — with enough flexibility to bend to curved surfaces.
- A lightweight sheathing that cuts like regular gypsum board and is easy to handle and install — with minimal skin irritation due to fully-embedded glass mats.

**GlasRoc®** Sheathing is the next generation of the industry standard for high-performance, weather-resistive, gypsum-based sheathing. To back it up, CertainTeed provides a:

- 12 month limited warranty against exposure
- 5 year limited warranty assuring product performance
- 10 year substrate limited warranty in architecturally-specified EIF Systems



**NOTE:** All drawings are for illustration purposes only.

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# M2TECH<sup>®</sup>

Gypsum Board

[www.CertainTeed.com/Sustainable](http://www.CertainTeed.com/Sustainable)



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# M2Tech® Moisture and Mold Resistant

M2Tech® Moisture and Mold Resistant Gypsum Board provides enhanced protection against mold growth. It is designed for use on interior walls and ceilings in standard residential, commercial and institutional applications.

M2Tech® Gypsum Board is a specially formulated product for applications where enhanced moisture and mold resistance is preferred.

## M2TECH® A Superior Technology

CertainTeed's M2Tech® Moisture and Mold resistant family of products features unique M2Tech® technology. M2Tech® provides:

- Additional zone of protection against moisture and mold
- Numerous fire-rated assembly designs for safety and performance
- Lightweight gypsum board that handles like other CertainTeed gypsum boards
- Does not require special tools
- Easy to cut and install
- May be finished, painted, or wallpapered using conventional gypsum board techniques
- Achieves scores of 10 and 0 for mold resistance per ASTM D3273 and ASTM G21 respectively, the best possible scores for these tests

## The M2Tech® Advantage

M2Tech® Moisture and Mold Resistant Gypsum Board has a specially formulated moisture and fire resistant core enclosed in 100% recycled moisture and mold resistant light violet colored face paper and bronze colored back paper.

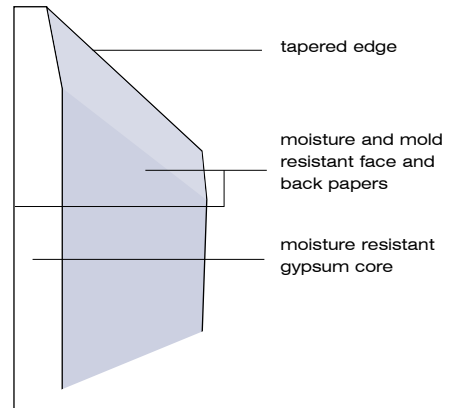
When tested for mold resistance by an independent lab at the time of manufacturing, M2Tech® Gypsum Board achieved scores of 10 and 0 per ASTM D3273\* and ASTM G21\* respectively, the best possible scores for these tests.

UL Classified and ULC Listed for fire resistance, and surface burning characteristics.

M2Tech® Gypsum Board handles like other CertainTeed gypsum board products. It does not require special tools and may be finished, painted, textured or

wallpapered using conventional gypsum board techniques.

Smooth paper facers and tapered edges allow for easy finishing with M2Tech® Finishing Systems.



## Maximum Framing Spacing – Single Layer

	M2Tech® Gypsum Board Thickness, inch (mm)	Board Orientation to Framing	Maximum Framing Spacing, inch (mm) o.c.
Ceilings:	1/2 (12.7)	Parallel	16 (400)**
	1/2 (12.7)	Perpendicular	24 (610)**
	5/8 (15.9)	Parallel	16 (400)**
	5/8 (15.9)	Perpendicular	24 (610)
Walls:	1/2 (12.7)	Parallel or Perpendicular	24 (610)
	5/8 (15.9)	Parallel or Perpendicular	24 (610) *



*The performance of M2Tech® 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.*

**\*\*On ceilings, to receive hand or spray-applied water based texture material, M2Tech® Gypsum Board shall be applied perpendicular to framing. Board thickness shall be increased from 1/2" (12.7 mm) to 5/8" (15.9 mm) for 24" (610 mm) o.c. framing.**

# Gypsum Board

## How to Use M2Tech® Gypsum Board

M2Tech® Gypsum Board 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 applied by laminating with an adhesive.

Not recommended for exterior use, exposure to extreme temperatures, or continuously wet or high humidity areas

such as sauna, steam rooms or gang showers. For use in tub and shower enclosures in intermittent wet areas as a base for tile, please consult your local building code. CertainTeed Gypsum recommends use of Diamondback® Tile Backer for wet area applications. For more information on Diamondback® Tile Backer go to [www.certainteed.com](http://www.certainteed.com).

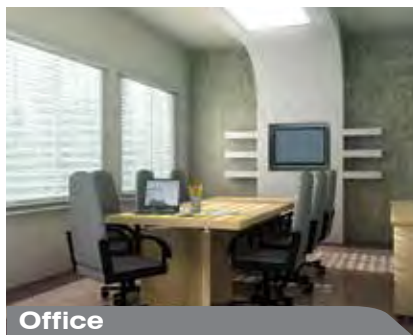
## Applications

Thickness and Type	Usage
1/2" (12.7 mm) M2Tech® Gypsum Board	For walls and ceilings where 1/2" CertainTeed Regular is commonly used
5/8" (15.9 mm) M2Tech® Type X Gypsum Board	For use when Type X core is required for fire resistance or STC requirements

The greater thickness provides enhanced fire resistance and reduced noise transmission.

**Good design and construction practices that prevent water and moisture exposure of building products are the best ways to avoid the growth of mold.**

## Areas of usage



CertainTeed respects the environment through the responsible development of sustainable building products and systems. M2Tech® Moisture & Mold Resistant Gypsum Board is manufactured with up to 100% recycled paper.

