

# M2TECH<sup>®</sup>

## REGULAR AND TYPE X DRYWALL PANEL

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Date \_\_\_\_\_

Products Specified \_\_\_\_\_



### PRODUCT DESCRIPTION

M2Tech<sup>®</sup> Drywall Panels are specially engineered to provide enhanced mould and moisture resistance for use on interior walls and ceilings. They have a specially formulated non-combustible, moisture resistant core and are enclosed in a 100% recycled moisture and mould resistant blue-grey face paper. M2Tech Type X also features a specially formulated fire-resistant core providing fire resistance ratings when used in tested assemblies. Long edges are slightly tapered, allowing joints to be reinforced and concealed with joint tape and joint compound.

### BASIC USES

M2Tech Drywall Panel is used for interior walls and ceilings in standard 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" (610 mm) o.c. M2Tech Type X Drywall Panel is used for the above mentioned applications requiring fire ratings.

### ADVANTAGES

- Fire resistance ratings up to four hours (Type X).
- M2Tech technology provides additional zone of protection against moisture and mould.
- GREENGUARD<sup>®</sup> Gold Certified.
- Less than 5% water absorption by weight after 2-hour immersion, as per ASTM C473 test method.
- Uniformly flat, attractive appearance.
- High edge hardness.
- No wavy edges, warps, bows or deformities.
- Uniform high-strength cores eliminate crumbling, cracking.
- Edge tapers consistent to form perfect joints.
- Excellent thermal barrier and sound attenuation qualities.
- Can be used as a tile substrate in dry areas or areas with limited moisture exposure.
- Achieves best possible score of 10 for mould resistance per ASTM D3273\*.

\* The performance of CertainTeed Moisture and Mould Resistant drywall panel 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 mould.

### PRODUCT DATA

PROPERTIES	M2TECH <sup>®</sup> DRYWALL PANELS
Thickness	1/2" (12.7 mm) Regular 5/8" (15.9 mm) Type X
Width	4' (1220 mm) standard
Length	8', 10', 12' standard (2440 mm, 3050 mm, 3660 mm)
Weight	1/2" (12.7 mm) - 1.6 lb/ft <sup>2</sup> (7.8 kg/m <sup>2</sup> ) 5/8" (15.9 mm) - 2.2 lb/ft <sup>2</sup> (10.7 kg/m <sup>2</sup> )
Edges	Tapered
Packaging	Two pieces per bundle, face to face and end-taped.

Custom lengths may be available on special order. Consult your CertainTeed sales representative.

### TECHNICAL DATA

APPLICABLE STANDARDS AND REFERENCE	
Product Standard	ASTM C1396
Installation Guidelines	ASTM C840 / GA-216
Finishing Guidelines	ASTM C840 / GA-214
Code References	International Building Code (IBC)
Code References	International Residential Code (IRC)
Code References	National Building Code of Canada (NBCC)
UL/ULC Designation	Type X-1

PHYSICAL PROPERTIES	1/2" (12.7 mm) M2TECH	5/8" (15.9 mm) M2TECH <sup>®</sup> TYPE X	TEST METHOD
Nominal Width	4' (1220 mm)	4' (1220 mm)	-
Standard Lengths	8' (2440 mm), 10' (3050 mm), 12' (3660 mm)	8' (2440 mm), 10' (3050 mm), 12' (3660 mm)	-
Face Surface	Paper	Paper	-
Weight - lb/ft <sup>2</sup> (kg/m <sup>2</sup> )	1.6 lb/ft <sup>2</sup> (7.8 kg/m <sup>2</sup> )	2.2 lb/ft <sup>2</sup> (10.7 kg/m <sup>2</sup> )	-
Edge Profile	Tapered	Tapered	
Surface Burning Characteristics - Flame Spread	15 (15)	15 (0)	ASTM E84 / UL 723 (CAN/ULC-S102)
Surface Burning Characteristics - Smoke Developed	0 (0)	0 (0)	ASTM E84 / UL 723 (CAN/ULC-S102)
Combustibility	N/A	Non-Combustible	ASTM E136
Mould Resistance	10 out of 10	10 out of 10	ASTM D3273
Water Resistance	≤ 5%	≤ 5%	ASTM C473
Nail Pull	≥ 77 lbf (343 N)	≥ 87 lbf (387 N)	ASTM C473 (Method B)
Core Hardness - End	≥ 11 lbf (49 N)	≥ 11 lbf (49 N)	ASTM C473 (Method B)
Core Hardness - Edge	≥ 11 lbf (49 N)	≥ 11 lbf (49 N)	ASTM C473 (Method B)
Flexural Strength - Parallel	≥ 36 lbf (160 N)	≥ 46 lbf (205 N)	ASTM C473 (Method B)
Flexural Strength - Perpendicular	≥ 107 lbf (476 N)	≥ 147 lbf (654 N)	ASTM C473 (Method B)
Humidified Deflection	≤ 1-1/4" (32 mm)	≤ 5/8" (16 mm)	ASTM C473

## INSTALLATION

### LIMITATIONS

- 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 mould.
- Not recommended for exterior applications (sheltered exterior soffits, ceilings and carports may be permitted for use with M2Tech products from specific plants. See your CertainTeed Sales Representative).
- Exposure to continuous moisture or extreme temperatures should be avoided.
- Not recommended for continuous exposure to temperatures exceeding 125°F (52°C).
- Ceiling framing spacing should not exceed 16" (406 mm) o.c. for 1/2" M2Tech with water-based texture finish; 24" o.c. (610 mm) for 1/2" M2Tech without water-based texture finish; 24" o.c. (610 mm) for 5/8" M2Tech Type X. Applied perpendicular to framing.
- Wall framing spacing should not exceed 24" (610 mm) o.c.
- Store indoors and off ground surface.
- Panels should be stacked flat with care taken to prevent sagging or damage to edges, ends and surfaces.
- Storing panel lengthwise leaning against the framing is not recommended.
- Panels 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.
- CertainTeed moisture and mould resistant drywall panels should not be used in areas which will be continuously wet or subjected to high humidity such as saunas, steam rooms, gang showers or indoor pools.
- In the United States, International Building Code (IBC) and International Residential Code (IRC) do not permit the use of paper-faced gypsum panels, meeting ASTM C1396, for use as a base for wall tile in tub and shower areas.
  - Glass-mat gypsum tile backer products, meeting ASTM C1178, are permitted. See GlasRoc<sup>®</sup> Tile Backer as an acceptable solution.
- In Canada, unless moisture-resistant gypsum board, such as M2Tech is prescribed in the National or Regional Building Codes, CertainTeed recommends GlasRoc Tile Backer as a substrate in tub and shower surrounds.

## RECOMMENDATIONS

Installation of M2Tech® Drywall Panel should be consistent with methods described in the standards and references noted. Cutting should be from the face side of the panels for best results.

## DECORATION

M2Tech Drywall Panel accepts most types of paints, texture and wall covering materials. The surface shall be primed 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 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 sealer application under wallpaper or other wall covering is also recommended so the panel 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.

## BIM/CAD INFORMATION

The BIM and CAD UL fire rated assemblies and sound assemblies can be found on CertainTeed's BIM and CAD Design Studio at [bimlibrary.saint-gobain.com/certainteed](http://bimlibrary.saint-gobain.com/certainteed). CertainTeed's BIM and CAD Design Studio provides BIM and CAD details to many UL fire rated assemblies and sound assemblies in easy to view experience. Plus, downloadable Revit and DWG and PDF CAD Details are available.

## SUSTAINABILITY

Sustainable documentation, including recycled content, EPDs, HPDs, VOC Certifications, can be found at [saintgobain.ecomedes.com](http://saintgobain.ecomedes.com).

## 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 which the assembly was tested. Minor discrepancies may exist in the values of ratings, attributable to changes in materials and standards, as well as differences between testing facilities. Assemblies are listed as "combustible" (wood framing) and "noncombustible" (concrete and/or steel construction).

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## CertainTeed Canada

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