



Preface

Glass Mat Gypsum Board

Scope

The Evaluation Listings in this Section apply to glass mat gypsum board to be used as an exterior wall sheathing for a weather barrier.

The proponent has demonstrated that the product meets the requirements of ASTM C 1177-04e1, “Glass Mat Gypsum Substrate for Use as Sheathing.”

Product conforming to this Standard consist of a noncombustible water-resistant core made from gypsum and surfaced with glass mat partially or completely embedded in the core.

Standard

Table 1. Physical and Performance Requirements for Glass Mat Gypsum Board

Property Unit		Requirement	
		12.7 mm thick	15.9 mm thick
Flexural strength <ul style="list-style-type: none"> • bearing edges perpendicular to the substrate edge • bearing edges parallel to the substrate edge 	N	≥ 445	≥ 623
	N	≥ 356	≥ 445
Humidified deflection	mm	≤ 6	≤ 3
Core, end and edge hardness	N	≥ 67	≥ 67
Nail pull resistance	N	≥ 356	≥ 400
Water resistance	n/a	≤ 10 weight % after 2-h immersion	≤ 10 weight % after 2-h immersion

Table 1. Physical and Performance Requirements for Glass Mat Gypsum Board (cont'd)

Property Unit		Requirement	
		12.7 mm thick	15.9 mm thick
Dimensions and tolerances			
• thickness	mm	12.7 ± 0.8 nominal thickness with local variations of ± 1.6	15.9 ± 0.8 nominal thickness with local variations of ± 1.6
• width	mm	up to 1 220 ± 3	up to 1 220 ± 3
• length	mm	1 840 ± 6 to 3 660 ± 6	1 840 ± 6 to 3 660 ± 6
• end squareness	n/a	Square ± 3 mm in the full width of the substrate	Square ± 3 mm in the full width of the substrate
• edges and ends	n/a	Straight and either square, beveled, featured, tapered, or featured and tapered	Straight and either square, beveled, featured, tapered, or featured and tapered
Finish and appearance	n/a	Free of any cracks or imperfections that would render it unfit for its designed use	Free of any cracks or imperfections that would render it unfit for its designed use

Labelling

Each gypsum panel product or package shall have legibly marked thereon the following:

- thickness;
- name of the producer or supplier;
- brand name, if any; and
- the ASTM specification for the product.

National Building Code of Canada (NBC)

NBC References

ASTM C 1177/C 1177M-04e1 is referenced in:

- (a) NBC 2005, Division B, Table 5.10.1.1.;
- (b) NBC 2005, Division B, Table 9.23.16.2.A, for 12.7-mm-thick or greater; and
- (c) NBC 2005, Division B, Article 9.23.16.3 Gypsum sheathing shall not be used for the attachment for cladding materials



Evaluation Listing CCMC 13095-L

MASTERFORMAT: 06 16 43.01
Issued: 2004-04-21
Re-evaluated: 2010-09-22
Re-evaluation due: 2013-04-21

GlasRoc™ Sheathing and GlasRoc™ Sheathing Type X

1. Evaluation

Conforms to ASTM C 1177/C 1177M-08 for 12.7-mm- and 15.9-mm-thick boards.

2. Description

The products are made from a reinforcing glass mat, which are fully embedded into a water-resistant gypsum core positioned beneath a paperless polymer-modified gypsum surface with a protective acrylic coating on the exterior face.

3. Standard and Regulatory Information

See the Preface and the standard for explanation.

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