

BUILDING PRODUCTS LISTING PROGRAM

Customer: James Hardie Europe GmbH
Class: Gypsum Board Fireproofing
Specialty Flooring
Location: Dusseldorf, Germany
Website: www.fermacell.com

Listing No. B1157
Project No. B1157-1, Edition 1
Effective Date: September 4, 2024
Last Revised Date: N/A
Expires: N/A

Standards: ASTM C1396/1396M *Standard Specification for Gypsum Board.*
CAN/ULC S102 *Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.*
ASTM E84 *Standard Test Method for Surface Burning Characteristics of Building Materials.*

Product: Fermacell Type X gypsum board of the following thicknesses:

- 12.7 mm (1/2-inch)

Fermacell products above are available in a double layer laminate system, intended for use in flooring applications.

Markings: Product is marked with labels that include the following information:

- a) Manufacturer's name.
- b) Product name (Fermacell).
- c) ASTM C1396 Type X
- d) Traceability code.
- e) QAI logo shown here:



Labels are ink stamped onto each Fermacell board.

Ratings: Fermacell 12.7 mm (1/2-inch) thickness gypsum boards comply as Type X per ASTM C1396 requirements^{1,2}.

Note 1: Fermacell 12.7 mm (1/2-inch) Type X double layer system for use as finish flooring, per 2020 National Building Code of Canada (NBC), Section 3.1.6.6 2) applies, where two layers of Type X gypsum board of 12.7 mm are deemed to have an *encapsulation rating* of 50 minutes where installed following the NBC specified fastening. Fermacell 12.7 mm (1/2-inch) products comply ASTM C1396/C1396M and are installed with the joints in each layer staggered from those in the adjacent layer. Installation does not require fasteners to hold the Fermacell 12.7 mm (1/2-inch) gypsum boards in position in event of fire as the product is intended for use as finish flooring. The noted products are considered to comply with 50-minute encapsulation requirements where used over mass timber flooring.

Note 2: Fermacell 12.7 mm (1/2-inch) Type X boards meet requirements for use in prescriptive assemblies as outlined in the respective model codes, where Type X 12.7 mm (1/2-inch) gypsum boards are specified in wall and ceiling applications.

Fermacell Type X gypsum boards have the following surface burning characteristics determined in accordance with CAN/ULC S102:

PRODUCT	FLAME SPREAD INDEX (FSI)	SMOKE DEVELOPED INDEX (SDI)	THICKNESS MAX. (mm)
FermaCell	0	≤ 50	12.7

Fermacell Type X gypsum boards have the following surface burning characteristics determined in accordance with ASTM E84:

PRODUCT	FLAME SPREAD INDEX (FSI)	SMOKE DEVELOPED INDEX (SDI)	THICKNESS MAX. (inches)
FermaCell	0	≤ 50	1/2

Notes: Final acceptance of the product in the intended application is to be determined by the authority having jurisdiction.

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