

EXACOR® Wall Sheathing

COMPANY INFORMATION

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WHAT ARE EXACOR WALL SHEATHING PANELS

EXACOR wall sheathing panels are specifically engineered with fire-resistance, acoustical performance and dimensional stability needed for today's jobsites. EXACOR panels are made of magnesium oxide (MgO) cement and integrated layers of reinforcing glass fiber mesh. They are fire-resistant high-density panels for use as wall sheathing.

BASIC USE AND APPLICATIONS

EXACOR MgO wall panels are recognized by International Code Council Evaluation Service (ICC-ES) in evaluation service reports ESR-4635 for use in exterior wall applications of Construction Type III and V under the International Building Code (IBC) and residential construction built in accordance with the International Residential Code (IRC).

Panels used in exterior wall sheathing assemblies have published allowable transverse and wind shear resistance values. These proprietary values allow engineers to design structural wall assemblies using EXACOR in a similar method as those used in buildings framed with OSB or plywood wall sheathing.

ADVANTAGES

EXACOR wall sheathing panels are easily installed by framing crews familiar with installing OSB or plywood sheathing¹. EXACOR panels provide a fire-resistant solution that can help reduce material and related labor cost for some 1-hour and 2-hour fire-rated wall assemblies².

AVAILABILITY

Huber Engineered Wood's EXACOR panels are available through distributors nationwide. Visit Huberwood.com or contact Huber Engineered Woods for a retailer near you.

EXACOR Wall Sheathing Panels

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|---|---|--------------------|
| Max. Commercial Project Exposure - Subfloor | 200 Days - Registered Project 90 Days - Unregistered Project | |
| Material Composition | Magnesium Oxychloride Cement | |
| Construction Type | Type III and Type V only | |
| Weight (lbs/ft ²) | 1/2" : ~2.7 5/8" : ~3.3 | |
| Surface Burning Characteristics (ASTM E84/UL 723) | ASTM E84/UL 723 (Tunnel Test) | Flame Spread ≤10 |
| | ASTM E2768 (Ext. Tunnel Test) | Smoke Developed ≤5 |
| Surface Burning Characteristics | ASTM E84/ UL 723 (Tunnel Test) | |
| Fire Assembly Testing | ASTM E 119/ ANSI UL 263 | NFPA 285 |
| Water Vapor Permeable | ≥13 perms ASTM E96 (Method B) ≥5 perms ASTM E96 (Method A) | |
| Mold Resistance (ASTM G21) | 0 mold growth observed | |
| Code Acceptance | Type III & Type V compliance recognized by ESR-4635 | |
| Thermal Resistance R-value (ft ² *h*°F/ BTU) | 1/2" : 0.20 5/8" : 0.27 | |

1. EXACOR wall sheathing panels may be used in specific published fire-resistant-rated assemblies as tested in accordance with ASTM E119/ANSI UL 263. Follow published fire-resistance rated requirements and consult local building codes and designer of record for fire-resistant design requirements.

2. According to ICC-ES ESR-1290.



FASTENERS

Fasteners must be code-recognized and shall be inherently resistant to corrosion or coated for corrosion resistance (Class D, ASTM A153 hot-dipped galvanized) or better.

FIRE RESISTANCE

EXACOR wall sheathing panels have been tested for fire-resistance in accordance with ASTM E119, Standard Test Methods for Fire Tests of Building Construction and Materials / ANSI UL 263 Fire Tests of Building Construction and Materials. EXACOR wall sheathing panels have been evaluated in accordance with NFPA 285, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components. EXACOR panels can be used in exterior walls of Type III Construction that are greater than 40ft above grade plane when used in accordance with the compliance table in ICC-ES ESL-1290.

Published fire-rated assemblies for wall applications can be found in Evaluation Service Listing (ESL) 1290. Published fire-rated wall assemblies can also be found in the EXACOR Sound & Fire Assemblies Handbook available at huberwood.com. Below is a list of available fire rated assemblies for EXACOR sheathing.

Fire-Resistance Rated Assemblies (ASTM E119/ANSI UL 263):

- 2-hour | MOS-1290-03 (ESL-1290)
- 1-hour | MOS-1290-04 (ESL-1290)
- 2-hour | MOS-1290-06 (ESL-1290)
- 2-hour | MOS-1290-07 (ESL-1290)

NFPA 285 Compliant Assemblies:

- MOS-1290-05 (ESL-1290)

WARRANTY

EXACOR wall sheathing carries a maximum a 10-year warranty depending on various conditions outlined within the respective warranty. Limitations and restrictions apply. View the EXACOR wall sheathing Commercial Warranty and/or Residential Warranty available at huberwood.com/warranties for more details.

SIZE AND THICKNESS

Wall Sheathing Panels

Thickness & Tolerance: 1/2" (12 mm) or 5/8" (16 mm) ± 1/16" (1mm)

Width & Tolerances: 48" (1200 mm) ± 5/64" (2mm)

Length & Tolerances: 96" (2440 mm), 108" (2750 mm) and 120" (3050 mm) ± 5/64" (2mm)

STORAGE AND HANDLING

EXACOR wall sheathing panels shall be stored in a cool, dry environment and remain in the manufacturer's packaging. EXACOR panels shall be stored on the manufacturer's pallets off the ground with full support underneath. To protect edges from damage, do not store EXACOR panels vertically. To prevent the risk of injury, do not stack EXACOR panels higher than 11 feet high (6 units, level, aligned and stacked). Panels should not be stored loosely or near standing water. When not contained in the original packaging, cover EXACOR panels with waterproof tarp or similar material when stored outdoors or on site to protect against weather, surface contamination and construction traffic.

WALL COVERINGS

A code recognized water resistive barrier (WRB) must be installed over EXACOR wall sheathing panels as required by the International Residential Code (IRC), International Building Code (IBC) or cladding manufacturer, whichever is most restrictive. Many traditional wall coverings can be installed over EXACOR wall sheathing panels; however, fasteners MUST be installed into solid framing and not solely into the EXACOR wall sheathing. Cladding fasteners to be corrosion resistant.

TECHNICAL SERVICE

Detailed information including specifications, product literature, evaluation reports, installation instructions, and special applications is available through Huber Engineered Woods. Please visit Huberwood.com or call 800.933.9220 x2716 to speak to a technical representative.

AVAILABLE RESOURCES

EXACOR panels can be used under Section 06 16 00 SHEATHING for the CSI 3-part specification format. These documents are available at huberwood.com