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LOS ANGELES, CA: 909.483.0250 ph. | 909.483.0336 fx.
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TORONTO, ON 416.550.9280
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BUILDING PRODUCTS LISTING PROGRAM

Customer: Ectek Building Material Inc.
Class: Cementitious Backing Boards
Location: Walnut, CA
Website: http://www.ectekbm.com

Listing No. B1127-1
Project No. B1127-1, Edition 2
Effective Date: September 29, 2021
Last Revised Date: October 28, 2025
Expires: N/A

Standards:

ASTM E136-19a	*Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750°C*
ASTM E330/330M-14	*Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*.
ASTM E455-19	*Standard Test Method for Static Load Testing of Framed Floor or Roof Diaphragm Constructions for Buildings*.

Product(s): Megaboard magnesium oxide board.

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

a) Manufacturer's name.
b) Product name.
c) ASTM E136 – Classified Non-Combustible
d) Traceability code.
e) QAI logo shown here:

Labels are applied to palletized finished products to ensure visibility on the jobsite.

QAI LABORATORIES
CERTIFICATION TESTING INSPECTION

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Ratings: **The following outlines Ectek Megaboard results determined through testing the noted standards:**

Ectek Megaboard magnesium oxide boards are classified as non-combustible per ASTM E136.

Assemblies, when constructed with Megaboard as detailed provide pressure resistances determined in accordance with ASTM E330/330M as noted:

MINIMUM MEGABOARD THICKNESS	MINIMUM STUD SIZE	MAXIMUM STUD SPACING	MAXIMUM CROSS BRIDGING SPACING	FASTENER MINIMUM	DEFLECTION MAXIMUM	ULTIMATE CAPACITY[1]
¾'' 19 mm	2'' x 6'' 51 mm x 152 mm	24'' 610 mm	24'' 610 mm	#8 2'' (51 mm) length wood screws spaced at 9'' (230 mm) on center along studs and cross bridging.	< 0.044'' @ 100 psf < 1.1 mm @ 4.8 kPa	> 330 psf > 15.8 kPa

Note 1: Pressure capacity is for positive direction only. Negative direction loading including allowable fastener capacities are outside the scope of this listing.
Note 2: Fasteners noted were not evaluated for additional performance requirements including compatibility. Please see Ectek recommended fastener types for products compatible with Megaboard.

Note 1: Connection of the rim joist to shear resisting wall structure is outside the scope of this listing and is to be designed by the registered design professional.
Note 2: Fasteners noted were not evaluated for additional performance requirements or compatibility outside the diaphragm shear resistance. Please see Ectek recommended fastener types for products compatible with Megaboard.

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Assemblies, when constructed with Megaboard as detailed, provide shear diaphragm resistances determined per ASTM E455 as noted[1,2]:

MINIMUM MEGABOARD SUBFLOOR	JOIST MINIMUM	RIM JOIST MINIMUM	BRIDGING MINIMUM	STRAPPING	MAXIMUM ASPECT RATIO	ULTMITE CAPACITY	SHEAR MODULUS *G'*
¾'' 19 mm	Steel C-channel of minimum 50 ksi (345 MPa) yield strength 16 Ga. (1.3 mm) 10'' depth with 2'' leg (254 mm x 51 mm) Spaced at 24'' (610 mm) on center spacing. Subfloor fastened to joists with #10-24 x 1-5/8'' (41 mm) Grabber Construction 101716W3RG wafer head ceramic coated self-drilling screws at 6'' (152 mm) around perimeter and 12'' (304 mm) in the field. Joints staggered at 48'' (1219 mm) installed ½'' (13 mm) from panel edges.	16 Ga. (1.3 mm) 10'' x 2'' (254 mm x 51 mm) fastened to joists with one #10-16 x ¾'' (19 mm) length self-drilling screws at each joist flange.	16 Gauge (1.3 mm) 9'' x 2'' (229 mm x 51 mm) Located 48'' (1219 mm) from rim joist in each outside joist cavity. Fastened to joist with one #8-16 x ½'' (13 mm) self-drilling screw at top and bottom of bridging each side.	20 Ga. (0.9 mm) 1-1/4'' (32 mm) flat bar. Fastened to joists with one #8-16 x ½'' (13 mm) self-drilling screw at each joist.	1:2	742 lbs/ft 10.8 kN/m	6,493 lbs/in 1.14 kN/mm

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MINIMUM MEGABOARD SUBFLOOR	JOIST MINIMUM	RIM JOIST MINIMUM	BRIDGING MINIMUM	STRAPPING	MAXIMUM ASPECT RATIO	ULTMITE CAPACITY	SHEAR MODULUS *G'*
¾'' 19 mm	Southern Yellow Pine Grade 1 lumber of 2'' x 8'' (51 mm x 203 mm) S.G. > 0.51[1] Spaced at 24'' (610 mm) on center spacing. Subfloor fastened to joists with 8d x 2-3/8'' (60 mm) length ring shank roofing nails 6'' (152 mm) around the perimeter and 12'' (305 mm) in the field[2]. Joints staggered at 48'' (1219 mm) installed ½'' (13 mm) from panel edges.	2'' x 8'' 51 mm x 203 mm S.G. > 0.51[1] Fastened to joists with five 16d 3'' (76 mm) common nails at each joist end.	2'' x 8'' 51 mm x 203 mm S.G. > 0.51[1] Spaced at 48'' (1219 mm) on center. Fastened to joists with three 16d 3'' (76 mm) common nails at each bridging end.	N/A	2:1	2,075 lbs/ft 30.2 kN/m	N/A

Note 1: Connection of the rim joist to shear resisting wall structure is outside the scope of this listing and is to be designed by the registered design professional.
Note 2: Fasteners noted were not evaluated for additional performance requirements or compatibility outside the diaphragm shear resistance. Please see Ectek recommended fastener types for products compatible for use with Megaboard.

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