

VANCOUVER, BC: LOS ANGELES, CA: WASHINGTON, DC: TULSA, OK: TORONTO, ON SEATTLE, WA WEBSITE: 877.461.8378 ph. | 604.527.8368 fx. 909.483.0250 ph. | 909.483.0336 fx. 540.636.9445 ph. | 540.636.9414 fx. 918.437.8333 ph. | 918.437.8487 fx. 416.550.9280 425.512.8419 WWW.OALORG

## **BUILDING PRODUCTS LISTING PROGRAM**

- Customer: Ectek Building Material Inc. Class: Cementitious Backing Boards Location: Concord, ON Canada Website: ectekbm.com
- Listing No. B1127-1 Project No. B1127-1, Edition 1 Effective Date: September 14, 2021 Last Revised N/A Date:
  - Expires: N/A
  - Standards:ASTM E136Standard Test Method for Assessing Combustibility of<br/>Materials Using a Vertical Tube Furnace at 750°CASTM E330/330MStandard Test Method for Structural Performance of Exterior<br/>Windows, Doors, Skylights and Curtain Walls by Uniform Static<br/>Air Pressure Difference.ASTM E455Standard Test Method for Static Load Testing of Framed Floor<br/>or Roof Diaphragm Constructions for Buildings.
    - Product: 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.

## Ratings: The following outlines Ectek Megaboard results determined through testing to 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:



VANCOUVER, BC: 877.461.8378 ph. LOS ANGELES, CA: 909.483.0250 ph. WASHINGTON, DC: 540.636.9445 ph. TULSA, OK: 918.437.8333 ph. TORONTO, ON 416.550.9280 SEATTLE, WA 425.512.8419 WEBSITE: WWW.QAI.ORG

877.461.8378 ph. | 604.527.8368 fx. 909.483.0250 ph. | 909.483.0336 fx. 540.636.9445 ph. | 540.636.9414 fx. 918.437.8333 ph. | 918.437.8487 fx. 416.550.9280 425.512.8419 WWW OALORG

MINIMUM MEGABOARD THICKNESS	MINIMUM STUD SIZE	MAXIMUM STUD SPACING	MAXIMUM CROSS BRIDGING SPACING	FASTENER MINIMUM	DEFLECTION MAXIMUM	ULTIMATE CAPACITY <sup>1</sup>
³⁄₄" 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	< 0.044" @ 100 psf < 1.1 mm @ 4.8 kPa	> 330 psf > 15.8 kPa
				and cross bridging.		

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 outside the pressure resistance. Please see Ectek recommended fastener types for products compatible for use with Megaboard.

Assemblies, when constructed with Megaboard as detailed, provide shear diaphragm resistances determined per ASTM E455 as noted<sup>1,2</sup>:

MINIMUM MEGABOARD	JOIST MINIMUM	RIM JOIST MINIMUM	BRIDGING MINIMUM	STRAPPING	MAXIMUM ASPECT	ULTMITE CAPACITY	SHEAR MODULUS G'
SUBFLOOR					RATIO		
3⁄4"	Steel C-channel of	16 Ga. (1.3	16 Gauge (1.3 mm)	20 Ga. (0.9 mm)	1:2	742 lbs/ft	6,493 lbs/in
19 mm	minimum 50 ksi (345 MPa) vield	mm) 10" x 2"	9" x 2" (229 mm x 51 mm)	1-1/4'' (32 mm) flat bar		10.8 kN/m	1 14 kN/mm
191111	strength 16 Ga.	(254 mm x 51	Located 48'' (1219	Fastened to		10.0 KN/III	1.14 KN/1111
	(1.3 mm) 10"	`mm)	mm) from rim joist	joists with one			
	depth with 2" leg	fastened to	in each outside joist	#8-16 x ½" (13			
	(254 mm x 51 mm) Spaced at 24"	JOISTS WITH ONE #10-16 $\times \frac{3}{2}$	Cavity.	mm) self-drilling			
	(610 mm) on	(19 mm) length	with one #8-16 x $\frac{1}{2}$ "	joist.			
	center spacing.	self-drilling	(13 mm) self-drilling				
	Subfloor fastened	screws at each	screw at top and				
	to joists with #10- $24 \times 1-5/8''$ (41	joist flange.	bottom of bridging each side				
	mm) Grabber		edon side.				
	Construction						
	101716W3RG						
	water head						
	self-drilling screws						
	at 6" (152 mm)						
	around perimeter						
	an 12" (304 mm)						
	staggered at 48"						
	(1219 mm)						
	installed ½" (13						
	mm) from panel						
3/"	Southern Yellow	2" x 8"	2" x 8"	N/A	2:1	2.075 lbs/ft	N/A
/ -	Pine Grade 1	51 mm x 203	51 mm x 203 mm			_,0.0.00,10	
19 mm	lumber of 2" x 8"	mm	S.G. > 0.51 <sup>1</sup>			30.2 kN/m	
	(51 mm x 203 mm)	S.G. > 0.51 <sup>1</sup>	Spaced at 48"				
	S.G. > 0.51' Spaced at 24"	Fastened to	(1219 mm) on				
	(610 mm) on	16d 3" (76	Fastened to joists				
	center spacing.	mm) common	with three 16d 3"				
	Subfloor fastened	nails at each	(76 mm) common				



VANCOUVER, BC:
LOS ANGELES, CA:
WASHINGTON, DC:
TULSA, OK:
TORONTO, ON
SEATTLE, WA
WEBSITE:

· · · · · · · · · · · · · · · · · · ·			 	
to joists with 8c	d x joist end.	nails at each		
2-3/8" (60 mm	ר)	bridging end.		
length ring sha	ńk			
roofing nails 6	5"			
(152 mm) arou	nd			
the perimeter a	ind			
12" (305 mm)	in			
the field <sup>2</sup> . Join	ts			
staggered at 4	8"			
(1219 mm)				
installed 1/2" (1	3			
mm) from pan	el			
edges.				

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.

The materials, products or systems listed herein have been qualified to bear the QAI Listing Mark under the conditions stated with each Listing. Only those products bearing the QAI Listing Mark are considered to be listed by QAI. No warranty is expressed or implied, and no guarantee is provided that any jurisdictional authority will accept the Listing found herein. The appropriate authorities should be contacted regarding the acceptability of any given Listing. Visit the QAI Online Listing Directory located at <u>www.qai.org</u> for the most up to date version of this Listing and to validate that this QAI Listing is active. Questions regarding this listing may be directed to <u>info@qai.org</u>. Please include the listing number in the request.

.....