

HOME of MAGNUM BOARD®

"The New Generation GREEN Building Material" "Install It for Health-Install It for Life"

Manufacturing Sheathing & Siding Products

ENGINEERING SPECIFICATIONS					
SPECIFICATGION NO.:	011118.1225				
DESCRIPTION:	Magnum Roofing and Flooring Substrate – 18MM				
	SB				
ISSUE NO.:	07				
ORIGINAL ISSUE DATE:	December 12, 2018				
REVISION ISSUE DATE:	June 16, 2022				
BRIEF MODIFICATION INFO:	Corrected lb to read 2440 from 1220 and modified				
	fiber descriptions.				

- I. Widths:
 - a. 4' (1220mm)
- II. Lengths:
 - b. 8'-(2440mm)
 - c. 9'-(2743mm)
 - d. 10'-(3048mm)
 - e. 12'-(3658mm)
- III. Color:
 - a. White to cream
- IV. Edge Profiles
 - a. Square edge standard
 - b. Ship Lap
 - c. Tongue and groove
 - d. Tape Relief

e. Bevel Edge

V. Product Uses Include, but Are Not Limited To:

- a. Roofing Substrate
- b. Flooring Substrate
- c. Interior Sheathing
- d. Exterior Sheathing
- e. Ceilings
- f. Shear Walls

VI. Fasten To:

- a. Light gauge (preferably GAL 90. Refer to MBP Install Guides)
- b. LVL
- c. Dimensional Lumber strictly in accordance with MBP install guides

VII. Engineering Chart

a. Summary Strength Data

Line No.	Test Description	Unit	Criteria	Result	Conclusion
1	Density	Kg/m³	1.10 / 1.20	1.18	1
2	Thickness	mm / inches	18mm +/- 0.2mm	17.93mm	✓
3	Water Content-(%)	%	≤8%	5.9%	✓
4	Dry Shrinkage-(%)	%	≤ 0.3%	0.23%	✓
5	Swelling Ratio-(%)	%	≤ 0.6%	0.39%	✓
6	Screw Holding Capability	n/mm	≥ 50	68	✓
7	Chlorine Ion Content-(%)	%	≤ 3%	2.43%	Industry Standard is 10 % Maximum
8	Flexural Strength	Мра	≥12	16.0 to 17.0	1
9	Impact Strength	Kj/m²	2.0	3.1	1
10	Combustibility Rating	27.5 27.5 27.5	Class A1	Class A1	1

b. Span Chart – 24" Centers:

See exhibit A attached hereto. New testing in process.

For engineering purposes in the interim, a 100mm wide X 150mm long X 18mm thick sample tests between 16 Mpa and 17Mpa. Extrapolated to 24-inch centers, pounds force per square inch = approximately 616.25 lbs/ft². Typical requirement is between 100 to 200 lbs/in². Magnum roofing and flooring substrate far exceeds typical requirements in industrial applications.

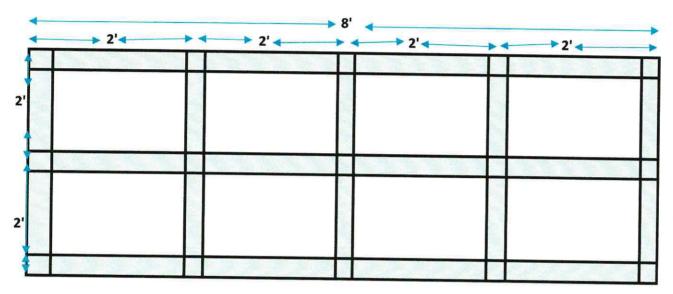
LEGEND

- ✓ = Meets or exceeds Magnum Board Products, LLC minimum standards.
- ✓ All Magnum Board standards meet or exceed ASTM standards.

NOTES:

- 1. For additional test and engineering information, refer to MBP Certified Test Summary.
- 2. Reference MBP Installation Instructions
- Reference MBP Technical Guide
- 4. Special order lengths and widths are available upon request
- 5. Impact strength is measured using test protocol ASTM-D5420

EXHIBIT A MAGNUM ROOFING AND FLOORING SPAN CHART



FASTENING PROFILE

≥ 4" from corners

9/16" from roofing and flooring edges

12" apart along perimeter edges and joist lines.

ALLOWABLE FORCE

600 lbs / 2Ft