



HOME of MAGNUM BOARD®

“The New Generation **GREEN** Building Material”

“**Install It for Health-Install It for Life**”

Manufacturing Sheathing & Siding Products

Magnum Board® Brand Fiber reinforced MgO Cement Board Products

SUBMITTAL SHEET

MBP No.: 050317

Quality interior and exterior sheathing, wall and ceiling board, trim, backer-board and underlayment, soffit, fascia and siding products – one product.

- One formula
- Fire rated dry construction
- Quick erection and finishing
- High impact
- Products for most all building and construction applications
- Residential, Commercial and Industrial Construction

DESCRIPTION

Magnum Board® brand MgO product is the original, the preferred, and the most widely used MgO product in existence. It is available for more applications than any other MgO product line. Its high-quality standards extend to a complete line of Magnum Building Products components supplied for fast-applying, high-performance walls, ceilings, backer and underlayment applications, trim materials, fascia, soffit and siding.

Magnum Board® brand MgO products are factory fabricated, composed of fire, water, insect, mold and mildew resistant; non-toxic Magnesium Oxi / Chloride and fibrous reinforcement materials; homogenous production; and no paper. Panels come in both square and tape relief edges for joint finishing. See Figure A

MAGNUM BOARD® BRAND STANDARD SHEETS

Sheathing is available in sizes ranging from 4' wide by 8', 9', 10' and 12' lengths and in thicknesses ranging from 1/8" to 3/4". Siding is available in standard widths of 8 1/2" and 9 1/2"; and up to 12' lengths; smooth and machined surface profiles. See Figure B

NOTE: Special sizes are available within the above noted envelope and may require minimum order quantities.

ADVANTAGES

Dry Construction: Factory fabricated products eliminate excessive moisture in construction. NOTE: Amount of moisture in Magnum Board® Products is far less than standard gypsum panels.

Low –in-place cost: Total installed cost and life cycle cost of Magnum Board® Products is less than using cement or gypsum type panels.

Fire Protection – Virtually Impervious to fire: Non-Combustible and non-flammable. Unlike gypsum products, Magnum Board® is subjected to a full one-hour and two-hour fire tests. See our fire test video on our website or call us for a CD of this fire test.

Virtually Impervious to Water: Can be submerged for extended periods of time and experience no dimensional changes.

Impervious to Insects: Unaffected by all insects including termites and carpenter ants.

Resistant to Mold and Mildew: Is not a nutrient for mold or Mildew.

Non Toxic: Free of asbestos, formaldehyde and silica. Reference U-Pitt Protocol Toxicity testing.

Homogenous Construction: One panel construction to eliminate the potential of delaminating.

High Impact: Very strong and durable.

Decoration: Includes paint, Portland type stucco, synthetic stucco, stone, brick, plaster, wall paper and much more.

Applications: Unlimited interior and exterior. Special applications include Structural Insulated Panels (SIPS) skins; Exterior Insulated Finish Systems (EIFS), various Laminate Products, Solar Heating Systems and much more.

LIMITATIONS

1. Follow UL instructions to obtain fire rated systems
2. Maximum spacing of frame members, wood or metal, is:

Thickness	Location	Application Method	Max. Frame Spacing
10mm	Ceilings	Parallel or perpendicular	24" Centers
	Interior Walls		24" Centers
12mm	Ceilings	Perpendicular	24" Centers
	Exterior Walls	Parallel or perpendicular	24" Centers

Notes to Architect:

1. Specify square or tapered edge product
2. For additional information and complete specifications, see manufacturer's publications: CSI format 050117; Short form specification 050117.

Warning:

Store all Magnum® Board Products on a flat, dry, clean surface and always protect edges.

PRODUCT DATA

Compliance with Standards: Meets all AC308 and UL requirements for offered applications.
Meets UL and CCMC requirements for offered applications in Canada
Currently undergoing CE testing for European applications

Surface Burning Characteristics/ Combustibility: Flame spread "0", Smoke developed "0" - "Class A"
Rated non-combustible

Packaging: Individual sheets / pieces.

TECHNICAL DATA

Property	Unit of Measure	ASTM Test Method	12mm (Nominal 1/2" Thickness)	6mm (Nominal 1/4" Thickness)
Flexural Strength	PSI	C1185-03	1038	2054
Indentation Strength	PSI	C1325-04	1000 + Pass Criteria	1000 + Pass Criteria
Impact Deformation – Falling Ball	1" – 12" Incremental Drops	C1325-04	25.6" Before Deforming	N/A
Shear Bond – Portland	PSI	C1325-04	168.8	168.8
Shear Bond – Latex	PSI	C1325-04	234.3	234.3
Water Absorption	% by Wt / 24 Hours	C1186-02	27.00	41.18 (1)
Nail Pull Resistance	LBF	C1325-04	174.8	N/A
Weight	Sheet LBS	N/A	82	46
Freeze / Thaw	Procedure B, 50 Number of Cycles with no Deterioration	C1185	Pass	Pass
Xenon Arc Accelerated Weathering	2000 Hours	G155	Pass	Pass
Mold Resistance	0 To 10 Scale	D3273	Perfect 10	Perfect 10
Combustion Toxicity	U-Pitt Protocol	N/A	Pass	Pass
Non-Combustibility	Pass / Fail	E-136	Pass	Pass
Surface Burning Characteristics	Flame / Smoke	E-84 & ULC S102	4mm to 20mm 0/0	4mm – 20mm 0/0
Thermal Conductivity	W / M ² (W/M ² xk)	In House	0.64	.064
Standard Method for Evaluating Ceramic Floor Tile Installation System	N/A	Mapei	Refer to Mapei Install Guides Found on MBP Website	Refer to Mapei Install Guides Found on MBP Website
Minimum Bending Radius	MM	In House	9800	4800

FOOTNOTES

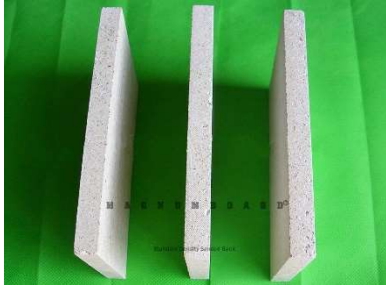
1. Excellent vapor permeability. Maintains dimensional stability at all times.

SUBMITTAL DATA AND APPROVALS ON FOLLOWING PAGE

Submittal: _____
Job Name

Approvals: _____
Contractor Date

FIGURE "A"



Square Edged Product



Tape Relief Edged Product

FIGURE "B"

Front Side Smooth Finish
(Level 5 Drywall Finish with
no labor)



Backside Machined Surface