



HOME of MAGNUM BOARD[®]

“The New Generation Building Material”

Submittal Sheet

Magnum Board[®] Brand MgO Products

MBP No.: 011412-1418, Issue 4

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 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 tapered edges for joint finishing. See Figure A

Magnum Board[®] brand Standard Sheets

Sheathing is available in sizes ranging from 4' wide by 8', 9' and 10' lengths and in thicknesses ranging from 1/8" to 3/4".

Siding is available in standard widths of 7 1/2" and 8 1/2"; 10' 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 test. 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 skins Structural Insulated Panels (SIPS); Exterior Insulated Finish Systems (EIFS), various Laminate Products, Solar Heating Systems and 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 (7/16")	Ceilings	Perpendicular	24"
	Sidewalls	Parallel or perpendicular	24"
12MM (15/32")	Ceilings	Perpendicular	24"
	Sidewalls	Parallel or perpendicular	24"

Notes to Architect:

1. Specify square or tapered edge product
2. For additional information and complete specifications, see manufacturer's publications: CSI format 120209-1400, Issue 4; Short form specification 120209-1401, Issue 1.

Warning:

Store all Magnum® 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.
	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 (1/2" Nominal Thickness)	6mm (1/4" Nominal 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 drop	C1325-04	25.6" before deformation	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 hrs	C1186-02	27.00	41.18 (1)
Nail-pull resistance	lbf	C1325-04	174.8	
Weight	Sheet – lbs	NA	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	UPITT protocol		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 to 20mm 0/0
Thermal Conductivity	W/M ² (W/M ² xk)	In House	0.64	0.64
Standard method for evaluating ceramic floor tile installation system	N/A	MaPei	Refer to MaPei Install Instructions found on MBP Website	Refer to MaPei Install Instructions found on MBP Website
Minimum bending radius	MM	In House	9800	4800

FOOTNOTES

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

Submittal _____

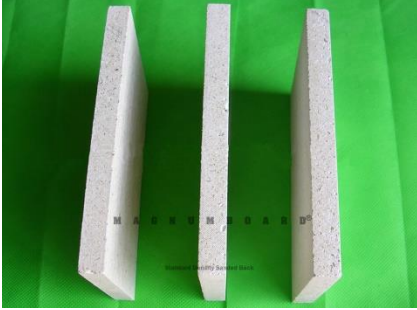
Job Name _____

Approvals: _____

Contractor _____

Date _____

Figure A



Square edge product



Tapered edge product

Figure B

Smooth side finish



Machined finish