



## Application Instructions

### 3.01 INSPECTION

A. Prior to the application of the Magnum Board Coatings the substrate/sheathing shall be examined for compliance with the contract documents and Master Wall Inc. specifications. The substrate shall have no planar irregularities greater than ¼" in 10' (4.4 mm in 3.05 m). The General Contractor and Architect shall be advised in writing of any discrepancies. Work shall not proceed until unsatisfactory conditions are corrected.

### 3.02 MIXING

A. **F & M Plus:** Mix F & M Plus at a weight ratio of 1 to 1 with Portland Type I or I/II, white or grey cement. Mix using a ½", 400-500 RPM drill motor and Wind-Lock B-MTW Mixer or equivalent. . Let stand for 3-5 minutes and remix until the desired consistency is achieved. Small amounts of clean water can be added for workability. Do not over mix.

B. **Foam & Mesh (F&M) Adhesive:** Mix F&M at a weight ratio of 1 to 1 with Portland Type I or I/II, white or grey cement. Mix using a ½", 400-500 RPM drill motor and Wind-Lock B-MTW Mixer or equivalent. . Let stand for 3-5 minutes and remix until the desired consistency is achieved. Small amounts of clean water can be added for workability. Do not over mix.

C. **Master Wall Bagged Base Coat (MBB):** Add 5 to 6 quarts of water with the 50-lb. bag in a clean bucket for mixing. Mix the MBB with a Wind-Lock B-MTW Mixer or equivalent using a ½", 400-500 RPM drill motor. Let stand for 3-5 minutes and remix until the desired consistency is achieved. Small amounts of clean water can be added for workability. Do not over mix.

D. **Guardian:** Mix Guardian at a weight ratio of 1 to 1 with Portland Type I or I/II, white or grey cement. Mix using a ½", 400-500 RPM drill motor and Wind-Lock B-MTW Mixer or equivalent. . Let stand for 3-5 minutes and remix until the desired consistency is achieved. Small amounts of clean water can be added for workability. Do not over mix.

E. **Superior Finishes:** Mix the finish coat with a Wind-Lock B-MTW using a ½", 400-500 RPM drill motor. Small amounts of water can be added for workability. Mix until reaching a uniform consistency. (It is important that the same amount of water be added to each pail to ensure a consistent color.)

F. Additives shall not be added to Master Wall Inc.'s materials unless written approval has been received from Master Wall Inc.

### 3.03 PREPARATION

A. Protect contiguous work from damage during application of the Master Wall Magnum Board Coatings. Temporary covering may be required to prevent over spray or splattering of coatings on other work.

B. Protect substrate from inclement weather during installation. Prevent infiltration of moisture behind the system that may affect the substrate.

C. Base Coats and Finishes shall not be installed when ambient air temperature is below 40° F (5° C). The temperature shall remain at or above 40° F (5° C) during mixing, application and until materials have cured.

D. Sufficient scaffolding, manpower and tools shall be provided to prevent cold joints.

E. Code approved weather resistive barrier shall be installed over framing on all exterior walls before application of the Magnum Board begins.

F. Flashings shall be installed as required by construction documents and Master Wall Inc.'s details in a manner to prevent the intrusion of water behind the weather resistive barrier. All flashing materials should direct the water to the exterior face of the weather resistive barrier.



### 3.04 INSTALLATION, GENERAL

- A. Install the Magnum Board according to the manufacturer's published instructions.
- B. Comply with the manufacturers' current published instructions, (specifications, details, data sheets and technical bulletins) for the installation of the Master Wall Magnum Board Coatings.
  - A. Comply with local building codes.

### 3.05 INSTALLATION OF DRAINAGE TRACK

- A. Drainage track must be installed at all horizontal terminations of the system; such as heads of windows, doors, and at base of the wall where system begins.
  1. Strike a level line on the framing to correspond with the top of the nailing flange of drainage track.
  2. Remember to keep the termination at the base of the wall at least 6" (152 mm) above finished grade.
  3. Fasten drainage track with corrosion resistant fasteners of sufficient length to penetrate the wood studs at least 1" (25 mm), and the steel studs 3/8" (9.5 mm), spaced a minimum 16"o.c. (406 mm).
  4. Butt ends of the starter track. Miter inside and outside corners.
  5. Lap weather resistive barrier into drainage track.

### 3.06 INSTALLATION OF CASING BEAD (if required)

- A. Casing bead shall be installed at all vertical terminations of the system; such as jambs of windows and doors.
  1. Strike a plum line on the framing to correspond with the edge of the nailing flange of casing bead.
  2. Remember to allow enough room for the installation of a proper sealant joint around openings.
  3. Fasten casing bead with corrosion resistant fasteners of sufficient length to penetrate the wood studs at least 1" (25 mm), and the steel studs 3/8" (9.5 mm), spaced a minimum 16"o.c. (406 mm).
  4. Butt ends of the casing beads.
  5. Lap weather resistive barrier onto the nailing flange of the casing bead.

### 3.07 MAGNUM BOARD APPLICATION

- A. Mechanical Fasteners
  1. A rust resistant fastener approved by Magnum Building Products shall be used to properly fasten the Magnum Board. Appropriate fastener shall be used to meet the requirements of the specific project, local building code and the anticipated wind loads.
- B. Installation
  1. Approved substrates/sheathings for application:
    - a) Magnum Board by Magnum Building Products.
  2. Make sure the weather resistive barrier is lapped over and into the drainage track and onto the flange of the casing bead.
  3. Attach sheathing using appropriate fastener.
  4. Fastening patterns shall be determined by the requirements of the geographical conditions of the area, local code requirements and the performance of the fasteners and their test results in conjunction with the specified substrate and the thickness of sheathing specified for use.
  5. Install fasteners so that the face of the fastener head is flush or slightly recessed into the surface of the sheathing board.
  6. The application of the sheathing board shall commence at the base of the wall in the drainage track from a level line of support.



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7. The Magnum Board shall be installed so that the vertical joints are staggered.
8. Stucco Cement Board joints shall be offset from the corners of openings.
9. Allow for proper spacing at windows, doors, penetrations and other openings so that sealant systems can be installed in accordance with Master Wall Inc.'s specification, details and the construction documents.
10. Provide a proper joint through sheathing board where building expansion joints are detailed and where required in the system.
11. Double studs are required if needed to accommodate control joints, expansion joints, or where it is needed to provide a fastening base for sheathing board joints.
12. The sheathing board shall be butted tightly.

### 3.08 CONTROL JOINTS

- A. Mechanically attach the control joints in accordance with construction documents, the recommendations of the manufacturer of the control joint, and Master Wall Inc.'s specifications and details.
- B. Fasten control joint with corrosion resistant fasteners of sufficient length to penetrate the wood studs at least 1" (25 mm), and the steel studs 3/8" (9.5 mm), spaced a minimum 16" o.c. (406 mm).

### 3.09 BASE COAT PREPARATION

- A. Inspect Magnum Board to ensure the installation meets the requirements set forth in the sheathing manufacturer's installation instructions, Master Wall Inc.'s specification, details, data sheets, technical bulletins and the construction documents. Make necessary repairs to ensure the installation meets the requirements prior to commencement of the base coat application.
- B. Install minimum 9" x 12" (229 mm x 305 mm) diagonal reinforcement at all windows, doors, louvers, or other penetration corners. Apply field mesh as soon as possible after diagonal mesh application.

### 3.10 SELF ADHESIVE MESH APPLICATION

- A. Center the Master Wall Self-Adhesive Mesh over all Magnum Board joints, inside and outside corners and all breaks in the board.
- B. Immediately apply base coat to the Self-Adhesive Mesh and taper the base coat to a featheredge. Alternatively, embed a 4" (102 mm) strip of Standard mesh into wet base coat.
- C. Allow the base coat to cure a minimum of 12 hours prior to additional base coat or finish coat applications.

### 3.11 BASE COAT APPLICATION

- A. Apply the base coat to the entire surface of the Magnum Board to the thickness required for the specified reinforcing mesh to be applied in a given area.
  1. Standard, Detail and Hi-Tech Mesh requires a nominal 1/16" (1.6 mm).
- B. Immediately embed Master Wall Inc. reinforcing mesh into wet base coat with a trowel, working from the center toward the edges, until the mesh is fully covered and a smooth surface is achieved. The color of the mesh shall not be visible but a slight mesh pattern may be visible.
- C. Lap mesh 2 1/2" (64 mm) minimum on all sides.
- D. A minimum of standard reinforcing mesh shall be installed on the entire surface to assure an acceptable flat finished appearance.
- E. Reinforcing Mesh shall be continuous through all interior and exterior corners extending beyond the corner a minimum of 12" (305 mm) from both directions creating a minimum of two layers of standard reinforcing mesh on all interior and exterior corners.
- F. Reinforced base coat shall be installed over perforated accessory flanges (i.e. casing beads, control joints and corner beads).



- G. Insulation Board or special shapes applied over the Stucco Cement Board shall have reinforcing mesh embedded into the base coat.
- H. Primer or sealer shall not be substituted for base coat.
- I. Allow the base coat to cure a minimum of 12 hours prior to additional base coat or finish coat applications.

### 3.12 SUPERIOR FINISH COAT APPLICATION

- A. Surface irregularities in the base coat, such as trowel marks, sheathing board lines and reinforcing mesh laps shall be corrected prior to the finish application.
- B. Apply the Master Wall Inc. Superior Finish in the color and texture as approved by the project owner or the project architect with sufficient manpower and equipment to insure a continuous operation without cold joints, scaffolding lines etc. Texture finish shall match approved job site samples. Thickness and coverage will vary depending on the specified final appearance.
- C. Trowel Application – (Perfect, Spray, R-Coarse, Desert Sand, Refinish)
  - 1) Apply the Superior Finish to the clean, dry and cured base coat with a stainless steel trowel.
  - 2) Level the surface to a uniform thickness of 3/32" to 1/8".
  - 3) Float the Finish with a plastic float in a uniform motion to achieve the desired texture. (Refinish cannot be floated. A second application of the Refinish shall be applied to create the desired texture.)
- D. Spray Application – (Perfect, Spray, R-Coarse, Desert Sand, Refinish)
  - 1) Prime surface with Master Wall Inc. Primecoat or Roller-flex tinted to match the selected finish color. Allow Primecoat or Roller-Flex to cure a minimum of 12 hours prior to finish coat application.
  - 2) Using a conventional plaster hopper gun or a proven pump, spray finish over the primed base coat to achieve desired texture using a circular overlapping pattern keeping the spray gun at a 90 degree angle to the surface and maintaining the same distance to the wall at all times.
  - 3) Be cautious of flooding an area with too much finish because it may appear shinier when it dries.
- E. Aggre-flex Superior Stone Finish
  - 1) Prime surface with Master Wall Inc. Primecoat or Roller-Flex tinted to match the predominate color of stone in the selected finish color. Allow Primecoat or Roller-Flex to cure a minimum of 12 hours prior to finish coat application.
  - 2) Aggre-flex Superior Stone Finish should be applied in two coats. The first coat can be trowel or spray applied.
    - a) Trowel application - Apply the Aggre-flex Superior Stone Finish to the clean, dry and cured base coat with a stainless steel trowel. Trowel finish uniformly then scrape down to a thickness equal to the size of the aggregate. Trowel to eliminate trowel marks and irregularities.
    - b) Spray application - Using a conventional plaster hopper gun or a proven pump, spray two coats of the finish over the primed base coat to achieve desired texture. If the first coat was trowel applied, a minimum of one spray coat is required as the finish coat. Use a circular-overlapping pattern keeping the spray gun at a 90-degree angle to the surface and maintaining the same distance to the wall at all times. The first coat shall dry a minimum of one hour prior to the application of the second coat. Be cautious of flooding an area with too much finish because it may appear shinier when it dries.
- F. Provide protection from rain and temperatures below 40° F (5° C) for a minimum of 24 hours after application. Longer protection may be necessary during lower temperatures and/or higher humidity conditions.



*Magnum Board Coatings*



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### 3.12 JOB SITE CLEANUP

- A. Clean work area in accordance with contract documents removing all excess materials, droppings and debris. Clean adjacent surfaces.
- A. Other trades may now install their work – Sheet Metal (Section 07620), Sealants (Section 07900), Mechanical (Section 15000), Electrical (Section 16000).

End of Specification

#### **Disclaimer**

This Specification is published for general informational purposes only and is not intended to imply that these are the only materials, procedures, or methods, which are available or suitable. Materials, procedures, or methods may vary according to the particular circumstances, local building code requirements, design conditions, or statutory and regulatory requirements. While the information in this specification is believed to be accurate and reliable, it is presented without guarantee or responsibility on the part of Master Wall Inc.