

Application Instructions

3.01 INSPECTION & PREPARATION

- A. Prior to the application of the Rollershield LAB the substrate 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' (6.4 mm in 3.05m) with a maximum deflection of L/240 unless subsequent applications require stricter standards. The General Contractor and Architect shall be advised in writing of any discrepancies. Work shall not proceed until unsatisfactory conditions are corrected.
- B. Acceptable substrates for Rollershield LAB include unpainted brick, unit masonry, concrete, exterior grade gypsum sheathing (ASTM C-79 or ASTM C-1177), plywood and approved cementitious sheathings.
- C. Substrates not approved in the manufacturer's published literature shall be approved by the manufacturer in writing prior to the application or the system.
- D. The project architect or engineer shall engineer the substrate with regard to the required structural performance.

3.02 DESIGN CONSIDERATIONS

- A. It is the responsibility of the architect and the purchaser to determine if a product is suitable for their intended use. The architect or designer of the project shall be responsible for all decisions pertaining to the design, details, structural capability, attachment details, shop drawings and the like. Master Wall Inc.® has prepared specifications, details and data sheets to assist as guidelines for the use and installation of the products. Master Wall Inc.® is not responsible for the design, details, structural capability, attachment details and shop drawings whether it is based on Master Wall Inc.®'s information or not.
- B. Expansion joints
 - i. Expansion joints in the system are required at building expansion joints, at prefabricated panel joints, where substrates change, at floor lines in wood framed construction, and where structural movement is anticipated. Reference construction documents for exact locations.

3.03 MIXING

- A. Mix the products following the instructions on the product data sheets.
- B. Additives shall not be added to Master Wall Inc.®'s materials unless written approval has been received from Master Wall Inc.®

3.04 PREPARATION

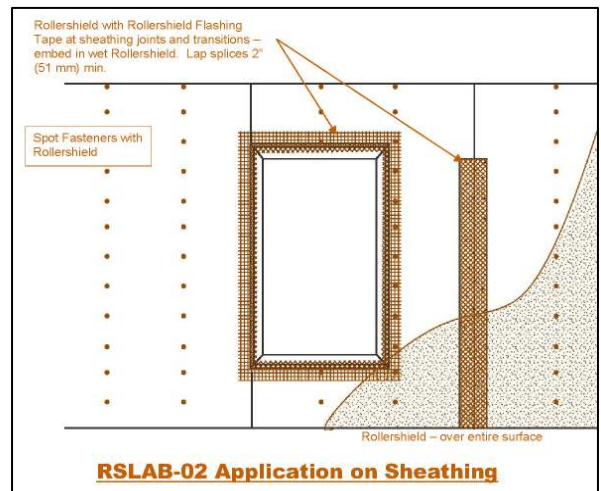
- A. Protect contiguous work from damage during application of the Rollershield LAB. Temporary covering may be required to prevent over spray or splattering of coatings on other work.
- B. Protect substrate from inclement weather during installation. Prevent infiltration of moisture behind the wall system that may affect the substrate or the attachment of the insulation board to the substrate.
- C. Adhesive, Base Coats and Finishes shall not be installed when ambient air temperature is below 40°F (4°C). The temperature shall remain at or above 40°F (4°C) during mixing, application and until materials have cured.
- D. Flashings, water barriers and drainage spacers (if used) 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 wall system. All flashing materials should direct the water to the exterior face of the finished system.

3.05 INSTALLATION, GENERAL

- A. Reference architectural details for full wall system requirements.
- B. Comply with the manufacturers' current published instructions, (specifications, details, data sheets and technical bulletins) for the installation of the Rollershield LAB.
- C. Comply with local building codes.
- D. Verify that all flashings and other items are in place.

3.06 ROLLERSHIELD LAB WATER BARRIER APPLICATION

- A. The substrate must be approved by Master Wall Inc.®, clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds or anything that would affect bond. Painted surfaces are not acceptable and must be removed. Substrates must be flat and free of fins or planar irregularities greater than 1/4" in 10'-0" (6.35 mm in 3.05m). Concrete – Must have cured a minimum of 28 days prior to the application of *Rollershield LAB*. If form release agents or curing compounds exist on the surface, they must be removed with a solution of muriatic acid or similar product (with appropriate precautions). Remove any residual acid by flushing with water. Brick/Masonry – If joints are not struck flush, multiple coats may be required. Contact Master Wall for more information. Sheathing Applications - Sheathing gaps must be less than 1/4" (6.4 mm). Gap wood-based sheathing per manufacturer's recommendations, typically 1/8" (3.2 mm) minimum.
- B. Stir the Rollershield LAB to a homogeneous consistency.
- C. Rollershield LAB is applied by first treating the joints and fastener locations, then coating the entire surface using brush, roller, trowel or airless spray equipment techniques.
- D. Apply a thin layer of Rollershield at all joints, corners, openings or transitions. While the Rollershield is still wet, center *Rollershield Flashing Tape* and immediately embed it into the wet Rollershield. Recoat as necessary to ensure full embedment. Spot fasteners using a paint brush or trowel and allow to dry. Rollershield LAB may be flashed into window, door and other openings using the same techniques. Reference details for flashing options.
- E. Roll or spray apply Rollershield over the prepared sheathing to a nominal uniform thickness of 15 mils wet, 10 mils dry with no pinholes or voids. When using a foam roller, a maximum 3/4" (19 mm) nap is recommended. Apply Rollershield LAB in an even, continuous coat, maintaining a wet edge of approximately 15 mils thickness, 10 mils dry. Oriented Strand Board and other porous substrates require two (2) coats of Rollershield LAB.
- F. Spray Recommendations: Rollershield is compatible with GRACO and Titan airless spray equipment with the following specifications; Minimum 1 gallon per minute output, Minimum hose width of 3/8 inch, Minimum tip size of 0.027–0.031, Minimum pressure requirement to spray of 2,000 psi at the gun with an airless sprayer rated no lower than 3,300 psi. Remove all filters in sprayer and gun before application. Hopper Gun: 3/16"-1/4" (6-6.5 mm) orifice, 23-25 psi.
- G. Rollershield must be applied as a continuous barrier of 10 mils dry thickness with no breaks or skips, although some areas will appear lighter than others due to the application process. The Rollershield application need not look like a painted surface.
- H. Repair any voids or holes with additional coats of Rollershield LAB or spot applications of Trowelshield.
- I. Allow to dry completely before proceeding with installation.



3.07 FLASHINGS OR TERMINATIONS

- A. Install flashing terminations as recommended. Apply a thin layer of Rollershield at the transitions. While the Rollershield is still wet, center *Rollershield Flashing Tape* and immediately embed it into the wet Rollershield. Recoat as necessary to ensure full embedment.

3.08 DRYING AND CURING

- A. Provide protection from rain and temperatures below 40°F (4°C) for a minimum of 24 hours after application. Longer protection may be necessary during lower temperatures and/or higher humidity conditions.
- B. Rollershield may be exposed to the elements as long as 30-days once fully dry. After 30 days cover with primary cladding.

3.09 JOB SITE CLEANUP

- A. Clean work area in accordance with contract documents removing all excess materials, droppings and debris. Clean adjacent surfaces.

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.®