

Project:

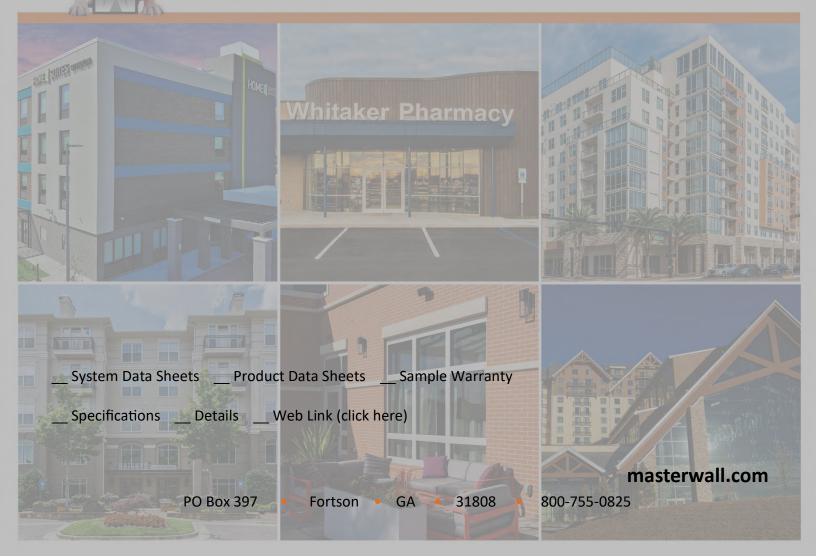
Location:

Architect:

General Contractor:

Applicator:







LiMa M120 Light Masonry Wall System

The LiMa M120 thin brick and stone system is our commercial grade light-weight wall cladding with excellent water holdout.

It features our Rollershield air and water barrier product that is either rolled, sprayed or troweled in place. With any method, the product offers excellent water holdout capabilities compared to a sheet good and has class-leading air sealing capability.

The UltraBond adhesive has class leading

slump resistance and cures quickly to quickly get your wall system in service.

CIFS® Brick Mortar is available in four colors and mixes easily.

Features & Benefits

- 20-year limited warranty
- Extremely low air infiltration properties
- Rollershield seals around nail holes
- Rollershield options
 - Rollershield-RS, vapor open roll grade
 - Rollershield-TG, vapor open trowel grade
 - Rollershield-VB vapor closed roll grade
- Engineered, fibered Cemplaster Fiberstucco as the base with lath reinforcement



- 1. Metal Framing
- 2. ASTM C1177 glass mat or other approved sheathing
- Rollershield
 (2 coats or 22 mils dry thickness)
- 4. Asphalt slip sheet
- 5. Keene Drainage Mat
- 6. 2.5#/sy metal lath reinforcement
- 7. Cemplaster Fiberstucco scratch coat with Stucco Ad-Liquid
- 8. UltraBond Adhesive
- 9. Thin Brick or Stone
- 10. CIFS® Brick Mortar



LiMa M120 Light Masonry Wall System

LiMaM120 Specification

Section 04 70 00

1.0 General

This is a specification for the application of a Master Wall Light Masonry (LiMa) application over metal framing and sheathing.

1.1 System Description

The Master Wall* LiMaM120 is a light masonry stone or thin brick application over a scratch coat of acrylic modified Master Wall* Cemplaster Fiberstucco. It uses two coats of SuperiorShield Rollershield as the air and water barrier and a drainage mat under the stucco with UltraBond as the adhesive for ICC-ES AC51 compliant stone or thin brick with CIFS* Brick Mortar.

1.2 Design Requirements:

- A. Reference Master Wall suggested details and architectural drawings for specific detail requirements.
- B. Slope all surfaces a minimum of 1:2 (6" in 12") to shed water, maximum 12" (305mm) wide.
- C. Maximum deflection of substrates shall not exceed L/600.
- D. Typical acceptable substrates include CDX exterior grade plywood, Exposure 1 Oriented Strand Board (OSB).
- E. Expansion joints are required in the cladding at building expansion joints, panel joints, floor lines in wood framed construction, and other areas where significant movement occurs.

1.3 Quality Assurance

- A. The Rollershield air/water barrier shall be recognized in IAPMO ER-0384.
- B. SuperiorShield product bulletins, application instructions and details.
- C. Cemplaster Fiberstucco product bulletins, application instructions and attachment methods.

1.4 Job Conditions

- A. Store all materials protected from weather and direct sunlight at temperatures above 40°F (5°C).
- B. The ambient and wall temperature shall be a minimum of 40°F (5°C) and shall remain so for at least 24 hours after installation.

1.5 Warranty

A. Application shall include a 20-year limited warranty, please reference the LiMa Warranty Program Limited Warranty.

2.0 Products

All components of the LiMa application shall be manufactured by Master Wall* and supplied by an authorized distributor.

- 2.1 SuperiorShield Water Barrier & Flashing Tapes:
 - A. SuperiorShield Rollershield RS: A 100% pure acrylic-based roll-applied weather-resistive barrier.
 - B. SuperiorShield Rollershield TG: A 100% pure acrylic-based trowel grade water-resistive barrier.
 - C. SuperiorShield Rollershield VB: Acrylic-based vapor barrier water resistive barrier.
 - $\hbox{D. Superior Shield Flashing Tape: A lightweight nonwoven joint treatment material.}\\$
 - E. SuperiorShield Mesh Tape: A lightweight joint treatment material.
- F. SuperiorFlash: A single-component fluid applied flashing.
 2.2 Drainage Mat: Keene Driwall™ Rainscreen 020-1.
- 2.3 Master Wall *Cemplaster Fiberstucco with 2.5 #/sy self-furring metal lath reinforcement:
 - A. Cemplaster or Ready Cemplaster Fiberstucco and related components.
 - B. 2.5 #/sy self-furring metal lath complying with ASTM C847.
 - C. Appropriate fasteners as noted in the Cemplaster Fiberstucco specifications.
 - D. Stucco Additive SA03 Master Wall® Stucco Ad Liquid, mixed 5 gallons (19 liters) per mix of Cemplaster Fiberstucco, 1-1/2 gallons (5.7 liters) of Ready Cemplaster Fiberstucco.
- 2.4 Master Wall* Stone/Thin Brick Adhesive: UltraBond, A ready to use dry base adhesive that is field mixed with water.
- 2.5 CIFS Brick Mortar: A ready to use dry base mortar that is field mixed with water.

3.0 Installation

- 3.1 Inspect the substrate to ensure that it is free of all foreign materials that would affect the adhesion of the Rollershield air and water barrier.
- 3.2 Apply the Rollershield products in accordance with the product data sheets, minimum two coats or a single coating with a dry mil thickness of at least 22 mils.
- 3.3 Mechanically fasten rainscreen with a cap nail, cap staple, or cap screw; one fastener for each square foot following Keene instructions. DO NOT FASTEN THROUGH FLASHING.
- 3.4 Mechanically attach lath to the framing members at 6" (15 cm) centers. Lap lath in accordance with Master Wall Instructions and terminate base into a weep screed placed at least 1" over foundation and 4" minimum above grade, flash in accordance with Cemplaster Fiberstucco instructions.
- 3.5 Mix Cemplaster Fiberstucco using Stucco Ad-Liquid in quantities noted above. Apply a minimum 3/8" coat of Cemplaster Fiberstucco, embedding it completely into the metal lath. Score horizontally in a scratch coat application, allow to set up.
- 3.6 Adhere ICC-ES AC51-compliant stone or thin brick using UltraBond, mixed following data sheet instructions. Allow to cure before proceeding with mortar application.
- 3.7 Mortar with CIFS Brick Mortar, mixed with water following data sheet instructions. Place in joints using a grout bag or similar device and rake/tool when thumb print hard.
- 3.8 Allow the wall system to cure and protect from weather for at least 72 hours before placing in service.

Information contained in this product data sheet conforms to the standard detail recommendations and specifications for the installation of Master Wall Inc.* products and is presented in good faith. Master Wall Inc.* assumes no liability, expressed or implied as to the architecture, engineering, or workmanship of any project. This information may be concurrent with, or superseded by other applicable documents, such as specifications and details. Contact Master Wall Inc.* for the most current product information. ©2020 Master Wall Inc.*



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SUPERIORSHIELD ROLLERSHIELD-RS

SuperiorShield Rollershield-RS is a high quality 100% acrylic flexible fluid applied air and water barrier that is easily applied with a roller or spray equipment but also can be troweled or brushed into place. Rollershield-RS forms a continuous air and water barrier that protects approved substrates from incidental water damage.

FEATURES & BENEFITS

- Used as an air/water barrier or as part of the Rollershield Drainage CIFS® System
- 100% Coverage, Fully adhered to substrate
- Vapor open/permeable with low air infiltration rate
- Used as water barrier and flashing, 60-minute Grade D equivalent
- Compatible with other SupeiorShield products; Rollershield-TG (Trowel Grade), Rollershield-VB, SuperiorFlash and WeatherSTOP Tape
- Adheres to most common building materials
- Easy to apply, water based for easy cleanup
- Exposure up to 6 months
- Low VOC, <1% by weight, 10 g/L

Application Temperature: 40°-110°F (5°-43°C)

Dry to Touch: 1 hour @ room temperature

Recoat Time: 2 hours @ room temperature

Drying Time: 12 hours @ room temperature, working and drying time will

vary with temperature and humidity.

JOB CONDITIONS

Air and substrate temperature for application of Rollershield-RS must be $40^{\circ}F$ (5 $^{\circ}$ C) or higher and must remain $40^{\circ}F$ (5 $^{\circ}$ C) or higher for a minimum of 24 hours. Provide temporary protection to protect the wall system from damage until permanent flashings, caps and sealants are installed. Store materials within prescribed temperature limits and out of direct sunlight. Working and drying times are based upon normal room temperature conditions and will vary with temperature and humidity.

PREPARATION

The substrate must be approved by Master Wall Inc. \Re , 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 or bond test performed. Substrates must be flat and free of fins or planar irregularities greater than 1/4" in 10'-0" (6.35 mm in 3.05 m).

Coverage per pail (sf/sm)*

Roller: 450-500 sf (42-46 sm)

Spray: 300-350 sf (28-32.5 sm) Trowel: 200-250 sf (18-23 sm)

*All coverage is approximate and depend upon substrate, details and individual application

Packaging/Shelf Life/Storage

Packaging: 5 gallon (19L) pail

Product Color: Naranja Durazno

Shelf Life: 2 years

Storage: Protect from extreme heat (90°F

(32°C), freezing and direct sunlight.

Technical Data

Solids Content: 69.52% solids by wt (55.05% by vol)

Tensile Bond, ASTM C297/E2134/AC212: 30-200 psi

Freeze-thaw ASTM E2485/AC212: Pass

Water Resistance, ASTM D2247/AC212: Pass

Water Vapor Transmission, ASTM E96 Proc. B/AC212: 30 perms** @ 10 mils, 15 perms @ 20 mils

Air Permeance, ASTM E2178: 0.001 cfm/ft2 @ 1.57 psf, 0.001 L/s/m2 @ 75 Pa

Air Leakage, ASTM E2357: 0.0006 cfm/ft2 @ 1.57 psf (0.003 L/s/m2 @ 75 Pa), 0.04 cfm/ft2 @ 6.24 psf (0.02 L/s/m2 @ 300 Pa)

Structural Performance, ASTM E1233/AC212: Pass

Racking, ASTM E72/AC212: Pass

Restrained Environmental, AC212: Pass

Water Penetration, ASTM E331/AC212: Pass

UV Exposure: Rated to 6 months

Accelerated Aging, AC212: Pass

Hydrostatic Pressure Test, AATCC 127/AC212: Pass

Surface Burning Characteristics, ASTM E84: Flame Spread < 25, Smoke Developed < 450

Intermediate Multi-Story Fire Test, NFPA 285 (UBC 26-9): Pass

Nail Sealability, ASTM D1970: Pass @ 22 mils

Heat and Smoke Release Rates, ASTM E1354, IBC Section 1403.5: Peak Heat Release Rate = 32 kWm2, Total Heat Release Rate = 3.6 MJ/m2, Effective Heat of Combustion = 2.5 MJ/kg

** Defined as a Class III vapor retarder per IBC and IRC

APPLICATION PROCEDURE

Concrete – Must have cured a minimum of 28 days prior to the application of Rollershield-RS. 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. Porous CMU may require additional coats.

Sheathing Applications - Sheathing gaps must be less than 1/4" (6.4 mm). See Technical Bulletin #189 for larger gap suggestions. Gap wood-based sheathing per manufacturers recommendations, typically 1/8" (3.2 mm) minimum.

Mixing - Thoroughly stir Rollershield-RS into a homogenous consistency. Do not add water, over mix, or add accelerators or retarders to the product.

Application – Rollershield-RS is applied by first treating the joints and fastener locations where sheathing is used, then coating the entire surface using brush, roller, trowel, or airless spray equipment techniques. When using a foam roller, a maximum ¾" (19 mm) nap is recommended. Apply in an even, continuous coat, maintaining a wet edge of approximately 15 mils thickness. Oriented Strand Board and other porous substrates will require two (2) coats of Rollershield-RS. For moisture protection, apply Rollershield-RS 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 application need not look like a painted surface.

Joint Treatment—Apply a thin layer of Rollershield-RS to the joints and embed SuperiorShield Flashing Tape into the wet mixture and trowel smooth. Alternatively place and center SuperiorShield Mesh over all joints, corners, and gaps in the substrate. Immediately apply Rollershield-RS over the mesh and allow to dry.

Rollershield-RS may be flashed into window, door and other openings using the same techniques for sheathing applications. Any remaining gaps should be filled with additional Rollershield-RS, TG (Trowel Grade) or SuperiorFlash.

Wall Treatment—Apply Rollershield-RS to the wall surface using the foam roller, trowel or by spray applying and backrolling to a uniform thickness of 15 mils wet, 10 mils dry with no pinholes or voids.

LIMITATIONS

Not for use as an exterior finish, note exposure limitations on front page.

When adhering Rollershield Drainage CIFS® to the surface assure it is clean, dry, and free of surface contamination. Remove any dirt or surface contamination before adhesive attachment.

Allowable in-service temperature range: -40° to 180°F (-40° to 82°C).

Fire-retardant or pressure treated plywood must be dry with surface free of salts or other chemicals migrating from within the wood. Test adhesion to be sure of desired results.

Use a slip sheet, typically one layer of building paper between Rollershield-RS and stucco or adhered masonry veneer over metal lath.

Hazard: This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

Approved Substrates

Exterior gypsum sheathing (ASTM C1396)

Glass Fiber Exterior Sheathing (ASTM C1177): Dens Glass Gold®, GlasRoc®, FiberBond®, Gold Bond e2xp®, etc.

Cement Board Substrates (ASTM C1325): Durock®, PermaBase®, ProTEC ®, SelectCrete, Util-A-Crete®, etc.

Concrete

Brick

Masonry

Exterior Plywood

Oriented Strand Board (OSB)

Huber Zip (See Data Sheet for Specifics)

Most metals and PVC

Others approved in writing

Compatible SuperiorShield Components

Rollershield-TG SuperiorFlash SuperiorShield Flashing Tape SuperiorShield Mesh WeatherSTOP Tape

Sealant Bond Compatibility**

Adfast Corp.: Adseal DWSP1940 Series***, Adseal 4600, Adseal 4580, Adseal 1940

Dow Corning: 795 Silicone**

Pecora Corp.: 864NST, 890NST, 890FTS, 895NST^A, Dynatrol I-XL Hybrid^B

Sika: Silaflex 15 LM***, Silaflex-2C NS***

Master Builders Solutions: MasterSeal NP1***

Tremco: Dymonic 100***

Most polyurethane sealants**

See Technical Bulletin MW#131 for latest sealant information

**field verify bond (varies)

***Also bonds to SuperiorFlash

AWith P120 Primer with Rollershield RS & TG BWith P120 Primer with Rollershield VB

SPRAY APPLICATION

Rollershield-RS 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.

CLEAN UP

Tools and equipment can be cleaned with soapy water when Rollershield-RS is wet.

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Health & Safety

WARNING!

Causes eye and skin irritation.

Precautionary Statement

Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

FIRST AID MEASURES

Eye: Contact Rinse thoroughly with water as necessary. Get medical attention immediately if symptoms occur.

Skin: Contact Wash off with water. Consult a physician if necessary.

Inhalation: Move to fresh air. If symptoms arise, call a physician.

Ingestion: Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting.

Consult a physician. Never give anything by mouth to an unconscious person.

Store locked up. Dispose of contents/container in accordance with Local, State, Federal and Provincial regulation.

Spills: Collect with suitable absorbent material such as cotton rags.

Disposal: Dispose of in accordance with local, state or federal regulations.

Warning: KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY.

Consult the Safety Data Sheet (SDS) in the Products section at masterwall.com for further health and safety information.

LIMITED WARRANTY

This product is subject to a written limited material or system warranty. Obtain a warranty from the Tech Support tab of our website. Refer to Specifications for more complete information on proper use and handling of this product.





SUPERIORSHIELD FLASHING TAPE

Lightweight non adhesive roll flashing material with superior strength and the ability to bridge most gaps or voids common in construction. Embedded into wet Rollershield-RS, TG or VB, it is used at flashing transitions with Master Wall® SuperiorShield Liquid Air/Water Barrier (LAB) and as part of Rollershield Drainage CIFS® applications. The tape easily embeds into wet Rollershield and dries to a highly reinforced yet flexible flashing.

FEATURES & BENEFITS

- Lightweight
- Strong
- Embeds easily
- . Thin, will not build up wall surface
- Compatible with Rollershield RS, TG, VB and SuperiorFlash products

JOB CONDITIONS

Air and substrate temperature for application of SuperiorShield Flashing Tape must be 40°F (5°C) or higher. Follow Rollershield-RS, TG or VB temperatures and condition requirements.

PREPARATION

General—The substrate must be clean, dry, structurally sound, and free of efflorescence, oil, grease, form release agents and curing compounds. Test painted surfaces to verify bond.

Temporary Protection – Protect from weather until the Rollershield-RS, TG or VB products have set up.

Surface Preparation - Surface temperature must be above 40°F (5°C). Surface must be cured, clean, dry, structurally sound, and free of efflorescence, oil, grease, form release agents, and curing compounds.

Coverage estimate*

4x8 sheets: Square Footage x 0.37 = linear feet of tape

Add linear footage around windows, doors, and other openings.

*All coverage is approximate and depend upon substrate, details and individual application

Roll Sizing/Packaging/Shelf Life/Storage

4"x180' (10.2cm x 54.9m)

6"x180' (15.2cm x 54.9m)

9"x180' (22.9cm x 54.9m)

Packaging:

4": 18 rolls per case.

6" & 9": 12 rolls per case.

Shelf Life: 2 years plus

Storage: Protect from extreme heat (90°F

(32°C), and direct sunlight.

APPLICATION PROCEDURE

General - SuperiorShield Flashing Tape is embedded into wet Rollershield-RS, TG or VB at flashing transitions (sheathing to framing, flashing, penetrations, etc.) and at sheathing board joints. Apply a generous layer of the product using a trowel, brush or roller and immediately embed the SuperiorShield Flashing Tape into the product and draw it tight and smooth working from the center to the edges.

Windows – The unique properties of the SuperiorShield air/water barrier system allows window flashing prior to the Rollershield wall application. Apply Rollershield and center SuperiorFlash Flashing Tape to provide at least at least 1" (25 mm) bond to the window flange and substrate on either side of the window opening. Use a "butterfly" at corners to complete the application making sure it covers all corner joints. For best results make sure the Rollershield covers the entire head, jamb, and sill areas. The use of sill wedges or water stops is encouraged.

Sheathing Applications — Apply Rollershield at least 2" (51 mm) either side of the sheathing board joint. Immediately embed the SuperiorShield Flashing Tape into the wet Rollershield and smooth with a trowel, centering it over the joint. Provide at least at least 1" (25 mm) bond either side of the sheathing joint. Lap Rollershield Mesh Tape 2" (51 mm) minimum Rollershield field application can begin as soon as the Rollershield is dry to the touch.

Hazard: This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

VOC: Less than 50 g/L.

Approved Materials for Embedment

Rollershield-RS Rollershield-TG Rollershield-VB Others approved in writing

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LIMITED WARRANTY

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Product Data

Driwall™Rainscreen 020-1 (6mm)

A Drainage and Ventilation Mat

Description

Driwall™ Rainscreen 020-1 6mm is a nominal 0.25-inch, randomly oriented, geometric patterned drainage and ventilation mat.

It is designed to eliminate moisture and moisture vapor in masonry and other siding. Driwall™ Rainscreen is produced from an extruded polymer matrix of tangled monofilaments. The three-dimensional mat is heat-laminated to a non-woven lightweight, breathable fabric in order to provide a separation from cementitious sidings. The monofilaments are heat-welded at the junctions to form a structure that spaces exterior veneer away from the inner sheathing.

The product is useful in cavity wall designs and rainscreen systems in which an airspace is needed for drainage and ventilation. When DRIWALL™ RAINSCREEN is used, no mortar or other debris can enter the cavity, which ensures proper drainage and ventilation.

Applications

- ✓ Stucco
- ✓ Thin stone or brick
- Manufactured stone
- ✓ Stone and brick masonry
- ✓ Fiber cement board siding
- ✓ Wood siding

Features and Benefits

Driwall Rainscreen products PASS multiple wall assemblies that require NFPA 285

Drainage of excess moisture and ventilation in one product

Lightweight and easy to handle

Simple installation with mechanical staple hammer

Polymer core is resistant to most known corrosive chemicals, including solvents

Wide rolls for fewer seams

Core ABSORBS and RELEASES NO MOISTURE

Provides no source for the promotion of MOLD, MILDEW or BACTERIA

0.25" (6.3 MM) CORE Selvage Edge

Physical Properties

| Description | Means of Measurement English/Metric | | | Value English/Metric | | |
|---------------|--|------------------|--|-------------------------|-------|--|
| Flame Spread | ASTM E84 | | | Class A | | |
| Core Polymer | Polymeric | | | | | |
| Thickness | in. | mm | | 0.25 | 6.3 | |
| Total Weight | oz/yd² | g/m² | | 12.7 | 403.6 | |
| Core Weight | oz/yd² | g/m ² | | 10.8 | 366.2 | |
| Fabric Weight | oz/yd ² | g/m ² | | 1.9 | 64.0 | |

Packaging

| Description | Means of Measurement English/Metric | | Value English/Metric | | |
|---------------|--|------|-------------------------|---------|--|
| Core Width | in. | mm | 48.0 | 1,219.2 | |
| Length | ft | m | 65.0 | 19.8 | |
| Area | sq ft | sq m | 260 | 24.2 | |
| Roll Diameter | in. | mm | 16.0 | 406.4 | |
| Roll Weight | lb | kg | 19.5 | 8.8 | |

See installation instructions for methods and procedures.

25 YEAR LIMITED WARRANTY

KEENE BUILDING PRODUCTS, INC. DRIWALL RAINSCREEN

Keene Building Products, Inc. ("Keene") warrants its DRIWALL RAINSCREEN products against defects in material and workmanship for a period of Twenty-Five (25) years from the date of installation. Upon receipt of written notice, which must be given no later than thirty (30) days after discovery of the defect, Keene, at its sole option, will repair or replace the defective item(s) or refund the purchase price. Keene, at its sole option, may request that the defective item(s) be returned to Keene's principal offices for investigation and inspection. Keene is not required to repair or replace the defective item(s) or to refund the purchase price until it has received such item(s) that Keene has requested returned and has inspected such item(s).

The warranty provided above is extended solely to the person or entity that purchases the product directly from Keene, and no third party may rely thereon or assert any claim based on such warranty. The foregoing warranty is the only warranty provided by Keene and is to the exclusion of any other warranty, whether express or implied, including the implied warranties of merchantability and fitness for a particular purpose, all of which are expressly disclaimed. Keene's liability, if any, for damages based on any claim of any kind whatsoever, and regardless of the legal theory, with regard to any of its products shall be limited to the actual purchase price of the product(s) with respect to which such claim is made.

UNDER NO CIRCUMSTANCES SHALL KEENE BE LIABLE TO PURCHASER FOR COMPENSATION, REIMBURSEMENT OR DAMAGES ON ACCOUNT OF

UNDER NO CIRCUMSTANCES SHALL KEENE BE LIABLE TO PURCHASER FOR COMPENSATION, REIMBURSEMENT OR DAMAGES ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS OR REVENUE, EXPENDITURES, INVESTMENTS OR COMMITMENTS, AND IN NO EVENT SHALL KEENE BE LIABLE TO PURCHASER OR ANY OTHER PERSON OR ENTITY FOR SPECIAL, INCIDENTAL, INDIRECT, CONSEQUENTIAL OR EXEMPLARY DAMAGES. By way of example only, Keene will not be responsible for any damages purchaser may incur that are related to surface, subsurface or building conditions, damage to the structure or contents of any building, or for costs of repair and replacement except as may be expressly provided in this Limited Warranty (and subject to the terms and conditions hereof).

Keene shall not be liable for product failure resulting from any of the following: (i) products not installed in accordance with Keene's installation instructions; (ii) non-compliance with applicable building codes and regulations; (iii) the use of any of its products (A) in a manner for which it was not intended; (B) in a modified form without the permission of Keene, or (C) in combination with any other system, equipment or device not manufactured or sold by Keene.

Keene may change, modify, amend, replace or discontinue offering a product warranty, limited or otherwise. Any such change, modification, amendment, replacement or discontinuance shall be applicable to unsold products only, and Keene shall endeavor to give purchaser at least thirty (30) days prior written notice of same.

Claims or inquiries shall be addressed as follows:
Customer Service Department [Quality Control Manager]
KEENE BUILDING PRODUCTS, INC.
2926 Chester Avenue
Cleveland, OH 44114
P 440 605 1020 [877-514-5336]
F 440 605 1120
www.keenebuilding.com





Stucco Accessories

Systems

Cemplaster Fiberstucco

Manufacture Locations:

Verify with manufacturer

Recycled Content:

Varies with manufacturer

Packaging (trims): Typically

10' lengths

Weight: Varies

Typical Grounds

(thickness): 3/8" (9.5mm), 1/2" (13mm), 5/8" (16mm), 3/4" (19mm), 7/8" (22mm)

Materials:

- 1. PVC, ASTM D 1784.
- 2. Galvanized Metal, ASTM A 653 with G60 or G90 coating.
- 3. Zinc, ASTM B 69.
- 4. Stainless Steel, ASTM C841 Type 304.

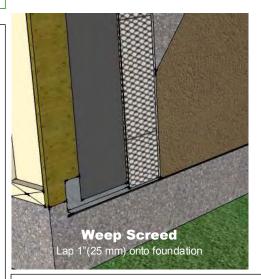
Lath Reinforcement:

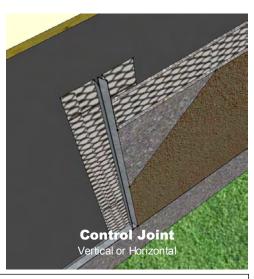
CFS01, 3/8" thick No. 17 gauge galvanized steel woven wire fabric, ASTM C1032.

CFS03, ½" thick 2.5 lb./yd² (1.4 kg/m²) self-furred galvanized steel diamond mesh metal lath, ASTM C 847. CFS03-SS, ½" thick 2.5 lb./yd² (1.4 kg/m²) self-furred stainless steel diamond mesh metal lath, ASTM C 847. CFS04 & 05, ¾ -7/8" thick 3.4 lb./yd² (1.8 kg/m²) self-furred galvanized steel diamond mesh metal lath, ASTM C 847.

CFS04 & 05-SS, ¾ -7/8" thick 3.4 lb./yd² (1.8 kg/m²) self-furred stainless steel diamond mesh metal lath, ASTM C 847, 304 or 316 stainless steel.

Stucco accessories are used to help gauge the thickness of stucco systems, help control stucco movement and form corners. Lath reinforcement is used to reinforce the stucco.





Manufacturers

Amico Building Products 1,2,3,4 800-366-2642, www.amico-lath.com

CEMCO² 800-775-2362, www.cemcosteel.com

ClarkDietrich Building Systems 1,2,3 513-870-1100,

www.clarkdietrich.com

Plastic Components¹ 800-327-7077, www.plasticomponents.com

Vinyl Corp. 800-648-4695, www.vinylcorp.com

Wind-Lock¹ 800-872-5625, www.wind-lock.com

Product Test Standards

ASTM A653, ASTM B69, ASTM C841, ASTM C847, ASTM C926, ASTM C1063, ASTM D1784, Plastic may not be suitable for non-combustible construction assemblies.



masterwall.com



Stucco Accessories

Application Procedure

After satisfactory inspection of surfaces and correction of any deviations from specification requirements commence the Cemplaster Fiberstucco installation in accordance with Master Wall Specifica-

Weep Screed Installation

Install foundation weep screed at the base of the wall securely to framing with the appropriate fastener. Locate foundation weep screed so that it overlaps the joint between the foundation and framing by a minimum of 1 inch (25 mm). Locate the foundation weep screed minimum 4 inches (101 mm) above earth grade, 2 inches (51 mm) above finished grade (paved surfaces, for example).

Weather Protection

Weather barrier will lap onto foundation weep screed as noted in Master Wall® details. Verify that WRB installation is complete.

Casing Bead and Expansion Joint Installation

Install casing beads at Cemplaster Fiberstucco terminations—doors, windows and other through wall penetrations. Install expansion joints (or back-to-back casing beads) at building expansion joints,

where the Cemplaster Fiberstucco is to be installed over dissimilar construction or substrates, at changes in building height, at floor lines, columns, and cantilevered areas. Install full accessory pieces where possible and avoid small pieces. Seal adjoining pieces by embedding ends in sealant. Abut horizontal into vertical joint accessories. Attach at 6-inch (152 mm) centers into framing with appropriate fas-

(Note: refer to architectural drawings for joint locations and accessory type. Moisture protection must be continuous behind joints and accessories.)

Control Joint Installation

Install control joints every 144 ft2 (13.4 m2) for walls and 100 ft2 (9.3 m2) maximum (as indicated on the construction documents). Tack in place as insure proper alignment during the application of the lath. Wire tie control joints to lath at 6 inches (152 mm) on center if framing members aren't present under the accessory. Seal any exposed ends and edges preferably by setting them in sealant during installation to prevent water entry.

Lath Installation

PO Box 397

Diamond Mesh Metal Lath: General--install metal lath with the long dimension at right angles to structural framing. Terminate lath at expansion joints. Do no install continuously beneath joints. Seams/overlaps — overlap side seams a minimum of ½ inch (13 mm) and end seams a minimum 1-inch (25 mm). Stagger end seams. Overlap casing beads and expansion joints minimum 1 inch

(25 mm) over the narrow wing accessories and 2 inches over expanded flange accessories. Attachment--fasten securely through sheathing into structural framing at 6 inches (152 mm) on center maximum vertically and 16-24 inches (41-61 cm) on center horizontally*. Wire tie horizontal laps at 8 inches (204 mm) on center at: side laps, accessory overlaps, and where end laps occur between supports.

Florida HVHZ: 7/8" minimum thickness of Cemplaster Fiberstucco, 3.4#/sy metal lath fastened 4" (102 mm) on center vertically and 16" (41 cm) on center horizontally.

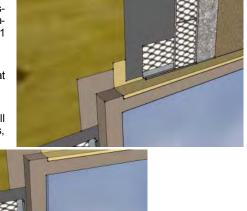
Welded wire fabric lath-follow installation as for metal lath except overlap all seams by one mesh minimum. Paper-backed lath—follow installation as for metal lath. Lap lath over lath, not paper to lath overlap. For horizontal overlaps the paper backing must lap shingle style behind the lath-to-lath

Apply Striplath, minimum 4" x 12" (102 mm x 305 mm), in type and weights of selected lath at casing bead corners if control joints aren't located there.

Inside and Outside Corners: Install corner lath at inside corners and corner bead at outside corners over lath. Attach through lath into framing at 6 inches (152 mm) on center with appropriate fasteners.

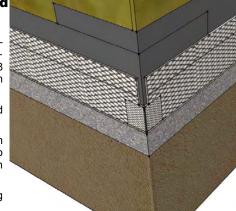
(*Note: the type fastener selected, its layout and pullout or withdrawal value from the supporting construction must be verified and approved by the project engineer/architect with respect to design wind load and local building code requirements).

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Casing Bead (above)

Corner Bead (below)





masterwall.com Tech: 800-760-2861

Fortson 31808 800-755-0825



Stucco Ad-Liquid

Systems

Cemplaster Fiberstucco Traditional Stucco Branded Manufactured Stucco

VOC: 5 g/l

Manufacture Locations: 30058 • 77474 • 84651 Recycled Content: 0%

Packaging:

5 gallon (19L) pail 55 gallon (208L) drums

Pail Weight: 42 lbs (19 kg) Drum Weight: 462 lbs (210 kg)

Shelf Life: 2 years

Suggested Levels (Varies)

Cemplaster Fiberstucco: 3 quarts to 5 gallons (2.8-19 L) per mix

Stucco: 6 quarts to 5 gallons (5.6-19 L) per mix

Stucco Ad-Liquid is an easy to use polymer modifier that is added directly to traditional stucco



or Cemplaster Fiberstucco mix to improve the overall quality of the material.

- Improved Compressive Strength
- Improved Tensile Strength
- Improved Weather Resistance
- Mold-X™ Bactericide included
- Reduced Shrinkage
- Reduces Stucco Cracking
- Reduced Brittleness
- Eliminates Fogging Requirement
- Slows Cure and Increases Flexibility





Stucco Ad-Liquid

Temp: 40°-110°F (5°-43°C) • Working Time: 1.5 hr • Dry Time: 72 hrs

at room temperature, working and drying time will vary with temperature and humidity

Application Procedure

Job Conditions - Air and substrate temperature for application of Stucco Ad-Liquid must be 40°F (5°C) or higher and must remain 40°F (5°C) or higher for a minimum of 24 hours. Surface must be clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents, paint and curing compounds.

Temporary Protection – Provide temporary and permanent protection to prevent water entry behind the stucco.

Proportioning – Proportions will vary depending upon use. Reference Master Wall® Cemplaster Fiberstucco specifications for warranted system proportions. In general, the product will achieve minimal properties such as improved crack resistance with levels as low as one quart (0.95L) per 280# (127 kg) of mixed stucco. Substituting Stucco Ad-Liquid for water in the stucco mix provides optimal performance. Vary proportions to meet specific project requirements or contact Master Wall for recommendations.

Mixing – Use non air entrained stucco mix. Slowly add Stucco Ad-Liquid to the mixture and mix for a short time (about 1 to 2 minutes) to avoid air entrapment.

<u>Application</u>

Apply stucco mix according to locally, regionally and nationally accepted practices to the specified thicknesses. When drying, Stucco Ad-Liquid forms a film or sheen that aids in the hydration of the stucco.

For Professional Results

Do not use with air entrained cement mixes or with air entraining admixtures. Do not use where air circulation is limited.

Protect from extreme water exposure for a minimum of 24 hours.

Fogging the wall is not recommended when Stucco Ad-Liquid is used.

Do not use as a stucco surface primer or external bonding agent—use Primecoat or Roller-flex depending upon application.

Do not over mix.

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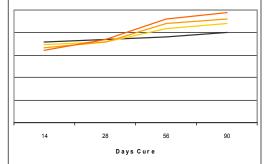
Clean Up

Tools and equipment can be cleaned with soapy water when the stucco mixture is wet.

GA

31808

Stucco Ad-Liquid Performance



SA01 Master Wall® Stucco Ad Liquid, mixed 3 quarts (2.8 liters) per mix of Cemplaster Fiberstucco, 1 quart (0.95 liters) of Ready Cemplaster Fiberstucco.

SA02 Master Wall® Stucco Ad Liquid, mixed 2 gallons (7.6 liters) per mix of Cemplaster Fiberstucco, 3 quarts (2.8 liters) of Ready Cemplaster Fiberstucco.

SA03 Master Wall® Stucco Ad Liquid, mixed 5 gallons (19 liters) per mix of Cemplaster Fiberstucco, 1-1/2 gallons (5.7 liters) of Ready Cemplaster Fiberstucco.



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Fortson



800-755-0825

masterwall.com

Tech: 800-760-2861



CEMPLASTER FIBERSTUCCO

Master Wall® Cemplaster Fiberstucco is a fibered Portland cement-based bagged stucco with exceptional workability, open working time, water retention, early strength, shrinkage resistance and long-term durability.

FEATURES & BENEFITS

- Concentrate, mix with sand and water
- Fibered for better crack resistance
- Can be modified with Stucco Ad-Liquid for better tensile, compression and mold-resistance
- For application over lath or direct-applied to approved substrates
- Manufacturer Warranty

Application Temperature: 40°-110°F (5°-43°C)

Working Time: 1 hour Set Time: 1-2 hours

Cure Time: 48-72 hrs at room temperature, working and drying time will

vary with temperature and humidity.

JOB CONDITIONS

Air and substrate temperature for application of Cemplaster Fiberstucco must be 40°F (5°C) or higher and must remain 40°F (5°C) or higher for a minimum of 24 hours. Provide temporary protection to protect the wall system from damage until permanent flashings, caps and sealants are installed. Store materials in a dry place, within prescribed temperature limits and out of direct sunlight. Working and drying times are based upon normal room temperature conditions and will vary with temperature and humidity.

PREPARATION

Preparation - 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 or metal lath applied. All sheathed applications must receive a minimum of 2-layers codeapproved asphalt felt or equivalent.

Prepare smooth or non-absorbent solid substrates by one of the following methods or a combination; Sandblasting, chipping or acid etching, A dash-bond coat applied forcefully, Bonding compounds such as Master Wall® Stucco Ad-Liquid or BA57, Furred or self-furring metal plaster bases as per ASTM C1063.

Coverage per bag (sf/sm)*

3/8" (9.5 mm) thick: 80 sf (7.4 sm)

1/2" (12.7 mm) thick: 70 sf (6.5 sm)

3/4" (19 mm) thick: 40 sf (3.7 sm)

7/8" (22 mm) thick: 34 sf (3.1 sm)

*All coverage is approximate and depend upon substrate, details and individual application

Packaging/Shelf Life/Storage

Packaging: 80 lb. (36 kg) moisture resistant bags.

Shelf Life: 1 year

Storage: Protect from weather in a cool dry area, with low humidity.

Technical Data

- ASTM C109 Compressive Strength -1900 psi
- ASTM E330 Wind-rated Assemblies
 -81-108 psf Ultimate Load
- ASTM G155 Accelerated Weathering -Pass
- ICC-ES AC11 Durability Testing Pass
- ASTM E136 Noncombustible
- ASTM C926 compliant following standard practices

Recognized in INTERTEK CCRR-0215

APPLICATION PROCEDURE

Mixing Instructions: Each bag of Cemplaster Fiberstucco is mixed with 200 lbs (90.7 kg) of sand aggregate (ASTM C897 or ASTM C144) and clean, potable water (200 lbs is roughly 2.5 cubic feet (0.07 cubic meters) of clean, damp-loose sand or 2-3/4 Master Wall® pails, filled). Using a clean mixer, first add 1/2 to 2/3 the water required, 1/2 the sand, 1 bag Cemplaster Fiberstucco, then the rest of the sand and water to achieve the desired workability. Mix materials for 3 to 5 minutes after all materials are in the mixer. Total water content can vary between 4 to 6.5 gallons (15-24.5L). Stucco Ad-Liquid may also be used instead of an equal amount of water (up to 5 gallons, 18.9L). See system data sheet for specific levels required for increased warranties.

Tempering—The mixed stucco can be re-tempered one time within 1 hour. Material older than 1-1/2 hours should be discarded.

Application

Direct Applied to Masonry: Dampen absorptive masonry just before application with water or Master Wall® BA57 Bonding Agent.

Scratch Coat: apply Cemplaster Fiberstucco with sufficient pressure to key into and embed the metal lath (if used). Apply sufficient material, approximately half the Cemplaster Fiberstucco ground thickness to cover the metal lath and to permit scoring the surface. Score the Cemplaster Fiberstucco horizontally upon completion of each panel in preparation for brown coat if a "double back" application of a wet scratch and brown coat isn't being used.

Brown Coat: as soon as the scratch coat is firm enough to receive the brown coat without damage, apply the brown coat with sufficient pressure to ensure intimate contact with the first coat to an approximate thickness as needed to bring the Cemplaster Fiberstucco to a uniform thickness that matches the grounds of the accessories. Use a rod or straight edge to bring the surface to a true, even plane. Fill depressions in plane with Cemplaster Fiberstucco.

After the Cemplaster Fiberstucco has become slightly firm float the surface lightly with a Darby or wood float to densify the surface and to provide a smooth, even surface.

CLEAN UP

Tools and equipment can be cleaned with soapy water while the Cemplaster Fiberstucco mixture is still wet.

Master Wall Inc. Building a Culture of Excellence

Curing Recommendations

Cure following ASTM C926 guidelines or other method acceptable to the design professional for 48-72 hours. Mixes with Master Wall® Stucco Ad Liquid do not need moist curing.

Allow to cure until clean, dry and hard before finishing:

- Typically 7-14 days if no Master Wall® Stucco Ad Liquid is used.
- After 72 hours if Master Wall® Stucco Ad Liquid is used provided the Cemplaster Fiberstucco is clean, dry and hard.
- After 24 hours if using a leveling base coat (LBC).

Hazard: This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

WARNING: Products containing crystalline silica (airborne particles of respirable size) are known to the State of California to cause cancer. For more information go to www.p65Warnings.ca.gov.

VOC: Less than 50 g/L.

Approved Substrates

Self-furring Metal Lath

Concrete

Brick

Masonry

Others approved in writing

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READY CEMPLASTER FIBERSTUCCO

Master Wall* Ready Cemplaster Fiberstucco is a fibered Portland cementbased bagged stucco with exceptional workability, open working time, water retention, early strength, shrinkage resistance and long-term durability.

FEATURES & BENEFITS

- · Ready to use, mix with water
- Great for jobsites with limited space for on-site storage
- Fibered for better crack resistance
- Can be modified with Stucco Ad-Liquid for better tensile, compression and mold-resistance
- For application over lath or direct-applied to approved substrates
- Manufacturer Warranty

Application Temperature: 40°-110°F (5°-43°C)

Working Time: 1 hour Set Time: 1-2 hours

Cure Time: 48-72 hrs at room temperature, working and drying time will

vary with temperature and humidity.

JOB CONDITIONS

Air and substrate temperature for application of Ready Cemplaster Fiberstucco must be 40°F (5°C) or higher and must remain 40°F (5°C) or higher for a minimum of 24 hours. Provide temporary protection to protect the wall system from damage until permanent flashings, caps and sealants are installed. Store materials in a dry place, within prescribed temperature limits and out of direct sunlight. Working and drying times are based upon normal room temperature conditions and will vary with temperature and humidity.

PREPARATION

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 or metal lath applied. All sheathed applications must receive a minimum of 2-layers code-approved asphalt felt or equivalent.

Prepare smooth or non-absorbent solid substrates by one of the following methods or a combination; Sandblasting, chipping or acid etching, A dashbond coat applied forcefully, Bonding compounds such as Master Wall® Stucco Ad-Liquid or BA57, Furred or self-furring metal plaster bases as per ASTM C1063.

Coverage perbag (sf/sm)*

3/8" (9.5 mm) thick: 22 sf (2 sm)

1/2" (12.7 mm) thick: 20 sf (1.8 sm)

3/4" (19 mm) thick: 11 sf (1 sm)

7/8" (22 mm) thick: 9.4 sf (0.9 sm)

*All coverage is approximate and depend upon substrate, details and individual application

Packaging/Shelf Life/Storage

Packaging: 80 lb. (36 kg) moisture resistant bags.

Shelf Life: 6-12 months

Storage: Protect from weather in a cool dry area, with low humidity.

Technical Data

- ASTM C109 Compressive Strength 1900 psi
- ASTM E330 Wind-rated Assemblies 81-108 psf Ultimate Load
- ASTM G155 Accelerated Weathering -Pass
- ICC-ES AC11 Durability Testing Pass
- ASTM E136 Noncombustible
- ASTM C926 compliant following standard practices

Recognized in IAPMO UES ER-0381

APPLICATION PROCEDURE

Mixing - Each bag of Ready Cemplaster Fiberstucco is mixed clean, potable water. Using a clean mixer, first add 1/2 to 2/3 the water required, 1 bag Ready Cemplaster Fiberstucco, then the rest of the water to achieve the desired workability. Mix materials for 3 to 5 minutes after all materials are in the mixer. Total water content can vary between 1 to 1.5 gallons (3.8-5.7L). Stucco Ad-Liquid may also be used instead of an equal amount of water. See system data sheet for specific levels required for increased warranties.

Tempering—The mixed stucco can be re-tempered one time within 1 hour. Material older than 1-1/2 hours should be discarded.

Application

Direct Applied to Masonry: Dampen absorptive masonry just before application with water or Master Wall® BA57 Bonding Agent.

Scratch Coat: apply Ready Cemplaster Fiberstucco with sufficient pressure to key into and embed the metal lath (if used). Apply sufficient material, approximately half the Ready Cemplaster Fiberstucco ground thickness to cover the metal lath and to permit scoring the surface. Score the Ready Cemplaster Fiberstucco horizontally upon completion of each panel in preparation for brown coat if a "double back" application of a wet scratch and brown coat isn't being used.

Brown Coat: as soon as the scratch coat is firm enough to receive the brown coat without damage, apply the brown coat with sufficient pressure to ensure intimate contact with the first coat to an approximate thickness as needed to bring the Ready Cemplaster Fiberstucco to a uniform thickness that matches the grounds of the accessories. Use a rod or straight edge to bring the surface to a true, even plane. Fill depressions in plane with Ready Cemplaster Fiberstucco.

After the Ready Cemplaster Fiberstucco has become slightly firm float the surface lightly with a Darby or wood float to densify the surface and to provide a smooth, even surface.

CLEAN UP

Tools and equipment can be cleaned with soapy water while the Ready Cemplaster Fiberstucco mixture is still wet.

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Curing Recommendations

Cure following ASTM C926 guidelines or other method acceptable to the design professional for 48-72 hours. Mixes with Master Wall® Stucco Ad Liquid do not need moist curing.

Allow to cure until clean, dry and hard before finishing:

- Typically 7-14 days if no Master Wall® Stucco Ad Liquid is used.
- After 72 hours if Master Wall® Stucco Ad Liquid is used provided the Cemplaster Fiberstucco is clean, dry and hard.
- After 24 hours if using a leveling base coat (LBC).

Hazard: This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

WARNING: Products containing crystalline silica (airborne particles of respirable size) are known to the State of California to cause cancer. For more information go to www.p65Warnings.ca.gov.

VOC: Less than 50 g/L.

Approved Substrates

Self-furring Metal Lath

Concrete

Brick

Masonry

Others approved in writing

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CEMPLASTER FIBERSTUCCO CO-BRAND PRODUCTS

As part of our Cemplaster Fiberstucco Systems, Master Wall Inc.® allows select products as part of our warranty program. Warranties are available up to 20-years depending upon product selections and combinations.

FEATURES & BENEFITS

- Warranties up to 20-years through Master Wall Inc.®
- Preblended and Concentrate options
- · Locally and regionally available for LEED compliance
- Engineered for consistency

Warranties for all projects will be provided by Master Wall® following our regular process. For coverage the following needs to be completed:

- Materials must be purchased through an authorized Master Wall® distributor
- A warranty must be requested for the project, including all QUIKRETE® requirements noted on the request form.
- The applicator must be certified and current.
- To request a warranty go to the Tech/Support page at masterwall.com and fill out the form.

See our Systems page for Cemplaster Fiberstucco Warranties

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CO-BRAND PRODUCTS

QUIKRETE® One Coat Fiberglass Reinforced Stucco (FRS) (No. 1200 Sanded, No. 1216-Concentrated)

QUIKRETE® Base Coat Stucco Scratch & Brown (No. 1139) & Base Coat Stucco - Pump Grade (No. 1139-86)*

QUIKRETE® Base Coat Stucco with Water-Stop (No. 1139-89)*

QUIKRETE® Base Coat Stucco - Pump Grade (No. 1139-86)*

FRS Lightweight Stucco (No. 1201-56)*

SPEC MIX® SCRATCH AND BROWN FIBER REINFORCED STUCCO(SU-04)*

SPEC MIX® Scratch and Brown Preblended Stucco*

SPEC MIX® Fiber Base Coat (FBC)

WESTERN 1-Kote Gray Concentrate

WESTERN 1-Kote Gray Premium Concentrate

WESTERN 1-Kote Premium Sanded Gray

WESTERN 1-Kote Sanded Gray

*Apply these stucco products in accordance with ASTM C926 and Master Wall® requirements.





UltraBond Veneer Mortar Adhesive

UltraBond is a premium, polymer-fortified, adhesive mortar for the installation of thin brick, synthetic and natural stone products, ceramic tile and quarry tile. UltraBond Veneer Mortar Adhesive mixes easily with water to a creamy consistency and is formulated with high initial grab and shear resistance.

Coverage per bag

Vertical Applications

1/4" x 3/8" (6 mm x 9 mm) Notched Trowel: 60–70 Ft², 5.6–6.5 M²

1/2" x 1/2" (12 mm x 12 mm) Notched Trowel: 40-45 Ft², 3.7-4.2 M²

Adhered Masonry Veneer Application Method: 30–33 Ft², 2.8–3.1 M²

Coverage may vary depending upon application technique and surface conditions.

Packaging/Shelf Life/Storage

Packaging: 50 lb (22.7 kg) bag

Shelf Life: 2 years

Storage: Protect from moisture and high

humidity.

Technical Data

Compression (ASTM C270)

24 hours - 500 psi 7 day - 2700 psi 28 day - 3350 psi

Tensile (ANSI A118) Glazed/Mosaic

7 day - 315 psi / 305 psi 28 day - 500 psi / 290 psi

Shear Bond (ANSI A118.15) Glazed/Mosaic

7 day dry - 475 psi / 460 psi 7 day wet - 390 psi / 400 psi 28 day dry - 625 psi / 450 psi

Sag Resistance

(ISO 13007 24.2) Quarry Tile - 0.0

Large Scale Tile - .485

Full Scale Stone - 0.0

Hazard: Considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

VOC: Less than 50 g/L.

Features & Benefits

- Non-Sag
- Strong adhesion with Thin Brick and synthetic stone products
- · Class leading shear bond strength
- Mixes easily with good open time
- Vapor Permeable resists blistering and allows trapped water vapors to pass
- Freeze stable in dry form

Application Temperature: 40°-110°F (5°-43°C) • Working Time: 1 hr • Dry Time: 12 hrs

at room temperature, working and drying time will vary with temperature and humidity

Surface Preparation & Mixing

Job Conditions - Air and substrate temperature for application of UltraBond must be 40°F (5°C) or higher and must remain 40°F (5°C) or higher for a minimum of 24 hours. Provide temporary protection to protect the wall system from damage until permanent flashings, caps and sealants are installed. Store materials within prescribed temperature limits and out of direct sunlight. Working and drying times are based upon normal room temperature conditions and will vary with temperature and humidity.

Installer must verify that deflection under all live, dead and impact loads of substrates does not exceed industry standards of L/600 for AMSMV units or stone installations where L=span length. For exterior vertical installations over framed construction, the substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/600 where L=span length.

Preparation - 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.

Mixing - Add 5 to 6 quarts (4.7-5.7 L) of potable water to a clean plastic pail. Add the UltraBond slowly while stirring using a heavy-duty 1/2" (12.7 mm) drill at 400 - 500 rpm and a heavy-duty mixer. Mix thoroughly to a homogeneous but stiff consistency. Let the mixture stand for 5 to 10 minutes and then remix without adding any more water or powder. During use, stir occasionally to keep mix fluffy. DO NOT temper with water. Excessive stirring may cause faster setting and reduced working time. Do not add accelerators or retarders to the UltraBond mixture.



UltraBond Veneer Mortar Adhesive

Health & Safety

WARNING!

Causes eye damage and skin burns if not used properly.

Precautionary Statement

Wear protective gloves/protective clothing/eye protection/face protection. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

FIRST AID MEASURES

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

Skin Contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs get medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting.

Store locked up. Dispose of contents/container in accordance with Local, State, Federal and Provincial regulation.

Spills: Prevent further leakage or spillage if safe to do so. Clean up powdered material with vacuum equipped with HEPA filter.

Disposal: Dispose of in accordance with local, state or federal regulations.

Warning: KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. Consult the Safety Data Sheet (SDS) in the Products section at masterwall.com for further health and safety information.

LIMITED WARRANTY

This product is subject to a written limited material or system warranty. Obtain a warranty from the Tech Support tab of our website. Refer to Specifications for more complete information on proper use and handling of this product.

Approved Substrates

Stucco (Scratch or Brown)
Mortar Parge Coat
Master Wall Base Coats
Durock®
PermaBase®
Util-A-Crete®
ProTEC®, ProGUARD®
Concrete
Brick
Masonry
Metal Lath
Adheres to Rollershield
Others approved in writing

Application Procedure

Prior to installation, ensure back of veneer units are clean of dust, laitance, loose concrete crumbs and any excess film that could impede bond. Porous and excessively dry substrates such as cement board, masonry or stucco may need to be wetted to avoid excessive absorption, allow to dry to the touch. Verify wetting requirements with the veneer manufacturer.

For adhered stone, thin brick and manufactured stone masonry veneers installations, use a gauging trowel to key a thin coat of UltraBond Veneer Mortar Adhesive to cover entire back of the veneer units. Spread additional mortar onto the back of the skim coated veneer sufficient to completely fill the space between the veneer and the substrate when compressed against the substrate. Press the mortar covered back of the veneer against the substrate at the desired final position. Slide the unit roughly 1 -1.5" (25-38mm) diagonally from the desired final position and back into the desired position while maintaining even pressure. This should be done in such a manner as to squeeze the mortar to fill the entire space between the veneer unit and the substrate, allowing excess mortar to extrude on all sides around the veneer unit. Clean excess extruded mortar with trowel and spread onto the next veneer unit to be installed.

Alternate method for thin brick, tile, calcium silicate unit and stone installations: key UltraBond Veneer Mortar Adhesive into the substrate thoroughly. Then, comb on additional mortar with the notched side, use 1/4" x 3/8" (6 mm x 9 mm),1/2" x 1/2" (12 mm x 12 mm) loop or notch trowel. Back butter all thin brick, veneer units 8" x 8" (200 mm x 200 mm), $\frac{1}{2}$ (19 mm) loop trowel or larger to provide full bedding of the veneer. Place veneer into the mortar and adjust to desired position. Clean any excess mortar on sides of stone or tile veneer.

Note: Use proper sized notched trowel to ensure full bedding of the stone veneer. Spread only enough mortar for maximum coverage with tile within 15–20 minutes. Trowel notch size determined by contractor, size of veneer and job-site coverage. Adjust as necessary. Check mortar for complete coverage by periodically removing veneer unit and inspecting the transfer onto substrate and back of the stone veneer. The size and weight of the veneer will vary. Due to job site conditions and differences in finish material types; ledger boards, shims, wedges or spacers may be required to maintain finish levels and heights.

Grouting/Pointing (if required) - When required, point installation after a minimum of 24 hours curing time at 70°F (21°C). With an approved premium grout or mortar.

Clean Up—Tools and equipment can be cleaned with soapy water while the UltraBond is still wet.

WARNING, THIS PRODUCT CONTAINS SILICA

If sanding or scraping are performed, ventilate work area and/or use a NIOSH/MSHA-approved respirator in accordance with our Safety Data Sheet.

Product description information and basic uses etc.

Information contained in this product data sheet conforms to the standard detail recommendations and specifications for the installation of Master Wall Inc. products and is presented in good faith. Master Wall Inc. assumes no liability, expressed or implied as to the architecture, engineering, or workmanship of any project. This information may be concurrent with, or superseded by other applicable documents, such as specifications and details. Contact Master Wall Inc. for the most current product information. ©2020 Master Wall Inc.



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CIFS® Brick Mortar

Master Wall Inc.® CIFS® Brick Mortar is a polymer modified mortar finish that is used to create realistic, durable, color consistent and water resistant mortar joints in CIFS® Brick applications.

Coverage per package

160-200 sf (14.8-18.6 sm)

Coverage may vary depending upon application technique and surface conditions.

Batch Mixing Recommendations

10# (4.5 kg) Batch

0.6-0.8 qt (.56-.76 L) water 32-40 sf (3-3.7 sm)

20# (9 kg) Batch

1.2-1.6 qt (1.1-1.5 L) water 64-80 sf (6-7.4 sm)

25# (11.3 kg) Batch

1.5-2 qt (1.4-1.9 L) water 80-100 sf (7.5-9.25 sm)

Consistent mixing of batches is necessary for color consistency in the finished product!

Packaging/Shelf Life/Storage

Packaging: 50 lb (22.7 kg) bag

Shelf Life: 1 year

Storage: Protect from extreme heat (90°F (32°

C), moisture and direct sunlight.

Technical Data

Properties: Proprietary dry mix mortar.

Hazard: This chemical is considered hazardous according to the OSHA Hazard Communication

Standard 2012 (29 CFR 1910.1200).

VOC: Less than 50 g/L.

Features & Benefits

- Recreates the look of true mortar
- Polymer modified for durability
- Available in 4 colors
- Interior or exterior

Application Temperature: 40°-110°F (5°-43°C) • Working Time: 1 hr • Dry Time: 12 hrs

at room temperature, working and drying time will vary with temperature and humidity

Surface Preparation

Timing and weather consistency is extremely important for accurate mortar color cure. Take the time to ensure good weather during application and seek training for the application process. This is a naturally curing product and variations are to be expected as it is in face brick installations.

Apply when air and substrate temperatures are between 40°F (4°C)and 100°F (38°C) within 24 hours of application and 72 hours thereafter. For applications outside this range of temperatures, contact Master Wall Inc.® Technical Services.

Surfaces must be dry and clean of dust and foreign materials, e.g., oil, grease and dirt. Thoroughly brush or vacuum surface and grout joints to insure that loose dust and dirt particles are removed. The surface must be frost-free.

CIFS[®] Brick Mortar Colors

Light Buff CIFS Brick Mortar

Light Smoke CIFS® Brick Mortar

Mist CIFS[®] Brick Mortar

Light Pewter CIFS® Brick Mortar



CIFS® Brick Mortar

Health & Safety

WARNING!

Causes severe skin burns and eye damage. Precautionary Statement

Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

FIRST AID MEASURES

General Advice: Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Do not rub affected area. Immediate medical attention is required.

Skin Contact: Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. Immediate medical attention is required.

Inhalation: Remove to fresh air. Get medical attention immediately if symptoms occur. Ingestion: Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting.

Spills: Pick up and transfer to properly labeled containers.

Disposal: Dispose of in accordance with local, state or federal regulations.

Warning: KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. Consult the Safety Data Sheet (SDS) in the Products section at masterwall.com for further health and safety information.

LIMITED WARRANTY

This product is subject to a written limited material or system warranty. Obtain a warranty from the Tech Support tab of our website. Refer to Specifications for more complete information on proper use and handling of this product.

Application Procedure

Prior to Application

CIFS® Brick Taratex Finish must be firmly set.

Mortar joint area must be clean, dry and free of excess finish materials, efflorescence or other products that will affect bond.

Mixing

Mix in small batches using the *same techniques and amount of materials*. A maximum small batch of 25 lb (11.3 kg) CIFS® Brick Mortar is recommended.

Use clean, cool, potable water, clean tools and mixing containers.

- Pour half the amount of water needed into the clean mixing container.
- 2. Add CIFS® Brick Mortar to the liquid and mix to a creamy consistency.
- 3. Add more water as needed, up to the maximum recommended amount.
- 4. If using a mechanical mixer, do not exceed 150 rpm and avoid whipping air into mix which will reduce the strength of the mortar.
- 5. Let stand 10 minutes to give all ingredients time to slake. Remix and use.
- 6. Do not retemper with liquid or powder after this point. Once the CIFS® Brick Mortar has become too stiff to work, it must be discarded and a new batch made.
- Always mix batches consistently with the same amount of material and water. Inconsistent batching will cause color variations.

Application

- Place the CIFS® Brick Mortar Mixture into a grout bag or mortar gun. Cut opening to the width of the stencil joint size.
- 2. Squeeze into the mortar areas of the stencil taking care to completely fill the opening with a slight crown in the middle.
- 3. Let firm set thumbprint hard, then tool with the brick joint tool.
- 4. Wait approximately 30 minutes and remove any remaining excess with a brick pointing tool at a 90° angle to the surface to remove large pieces and a dry brush for small pieces, using light pressure while the mortar is still soft.
- 5. Protect from weather and adverse conditions for 72 hours before putting into service.

Cautions and Limitations

- Mixing, application and weather conditions are extremely important during the application to avoid efflorescence and color variations. Mix consistently and apply product corner to corner rather than in a phased application to help avoid color variations. Seek manufacturer assistance.
- Slope all exterior surfaces 1:2 minimum to shed water.
- Application in direct sunlight may affect aesthetics if the CIFS® Brick Mortar dries too quickly. Avoid direct sunlight.
- When cleaning do not use harsh or abrasive cleaners. Wash gently using a soap and water solution followed by a warm water rinse.
- Efflorescence, a white crystalline powder, can naturally occur with any Portland cement product. Use industry accepted cleaning procedure to remove any efflorescence.
- Color variations in the mortar should be expected, While color consistency is manufactured into the dry
 product, field application consistency can lead to varied results and is not guaranteed.

Clean Up

Tools and equipment can be cleaned with soapy water while the CIFS® Brick Mortar is still wet.

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Master Wall® Light Masonry (LiMa) Program Limited Warranty

LiMa Assemblies LiMaW105, LiMaW205, LiMaM105, LiMaC105: 5 years LiMa Assemblies LiMaW110, LiMaW210, LiMai310TV, LiMai410CB, LiMai510CB: 10 years LiMa Assemblies LiMaW120, LiMaM120, LiMaM220, LiMaM320, LiMaM420: 20 years LiMa Assemblies LiMaC130, LiMaC230: 30 years

Master Wall Inc.® warrants the properly designed and installed Master Wall Inc.® materials for the term noted above from the date of installation over the listed, approved Light Masonry (LiMa) assemblies. Subject to the conditions and limitations stated below, Master Wall Inc.® warrants that the products listed on this document will be free from manufacturing defects and will not break down or deteriorate under normal usage for term stated above from the date of purchase when installed in accordance with the written specifications of Master Wall Inc.® and industry standard guidelines. For this limited warranty to apply, the applications that comprise the installation must be performed with the products listed in this document for each application (LiMa Assemblies). Please refer to individual product data sheets for specific guidelines.

Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/600 where L=span length. Applications must not exceed 30 ft (9.1 m) in height or 25,000 ft2 (2,250 m2) in area. Installations must conform to all applicable building codes including the International Building Code (IBC) and International Residential Code (IRC) requirements.

DISCLAIMER

THIS LIMITED WARRANTY IS GIVEN IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES BASED ON SAMPLES OR ORAL STATEMENTS, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS DOCUMENT. IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED.

EXCLUSIONS

Master Wall Inc. is not responsible for workmanship not in accordance with the instructions of Master Wall Inc. and industry standard guidelines. Cracking due to structural movement, excessive deflection or other failure in the substrate is also not covered. Master Wall Inc. IS NOT LIABLE FOR ANY INCIDENTAL DAMAGES OR CONSEQUENTIAL DAMAGES, INCLUDING LOSSES DUE TO DELAYS, INCURRED BY THE PURCHASER OR ANY OTHER PARTY.

NO ASSIGNMENT

This limited warranty is not transferable or assignable.



EXCLUSIVE REMEDY

The sole and exclusive remedy for a breach of this limited warranty is replacement of only the specific portion of the installation that is proven to be defective*. Master Wall Inc.® will pay for replacement of its own products and replacement of finishing materials, as well as for labor for the replacement installation, but Master Wall Inc. will not pay more, calculated on a square-foot (square-meter) basis, for the replacement than the original purchase price of the portion being replaced. Master Wall Inc.® will not pay for replacement of any portion of the installation that is not proven to be defective.

In the event that the sole and exclusive remedy described above fails of its essential purpose, the liability of Master Wall Inc.[®] is limited to the monetary value, on a square-foot (square-meter) basis, of the original purchase price of the portion being replaced.

* NOTE: Efflorescence is a normal condition of Portland cement mortars and is not a defective condition.

This warranty becomes effective only when all bills for the components of the system have been paid.

Except as stated, Master Wall, Inc.®, expressly disclaims any warranty of merchantability or fitness for a particular purpose. The above remedies are to be deemed exclusive.

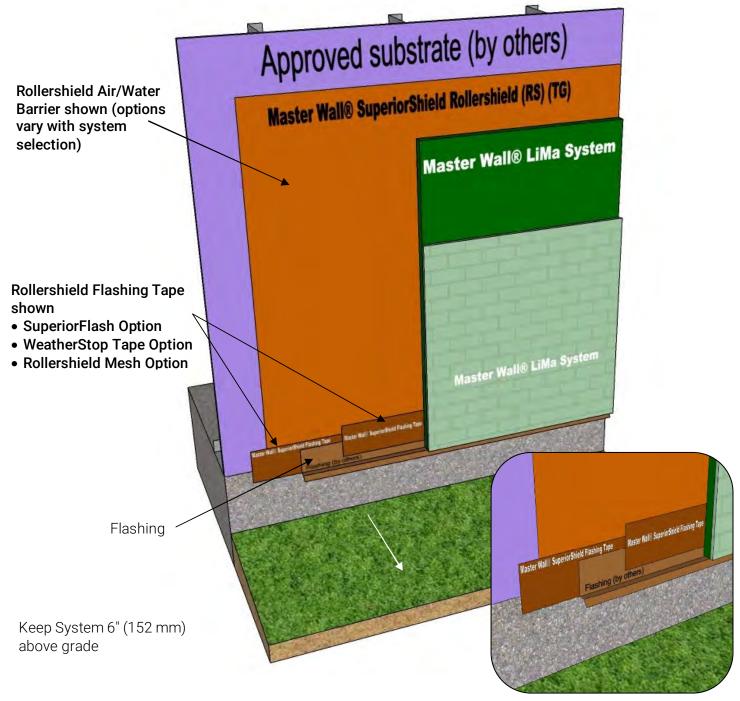
Project:

Applicator:

Warranty Date:

This is not the final warranty. For a valid warranty click on the support tab at masterwall.com and request a warranty. Warranties are not valid until issued.

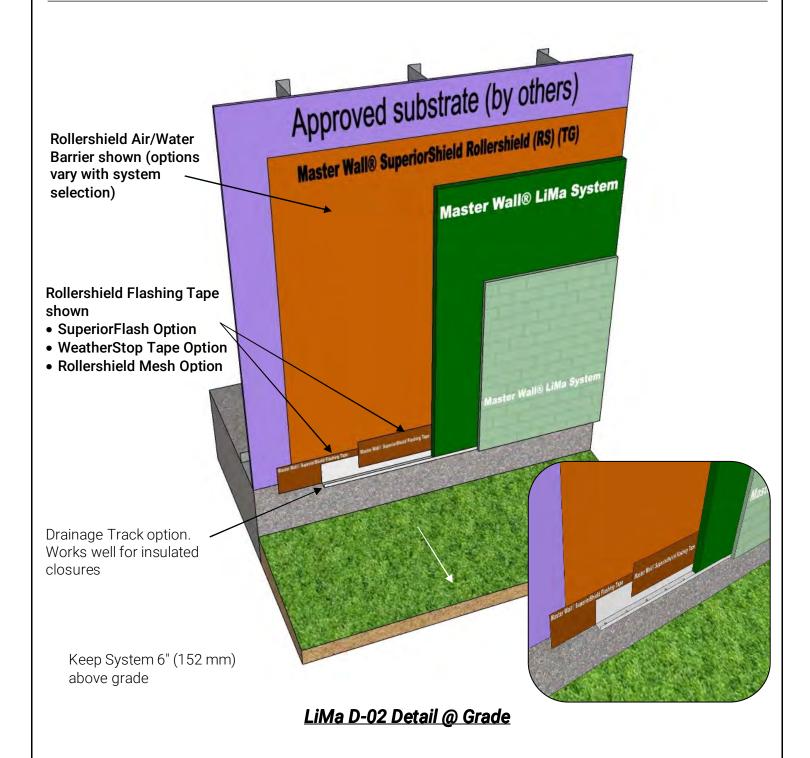




LiMa D-01Detail @ Grade

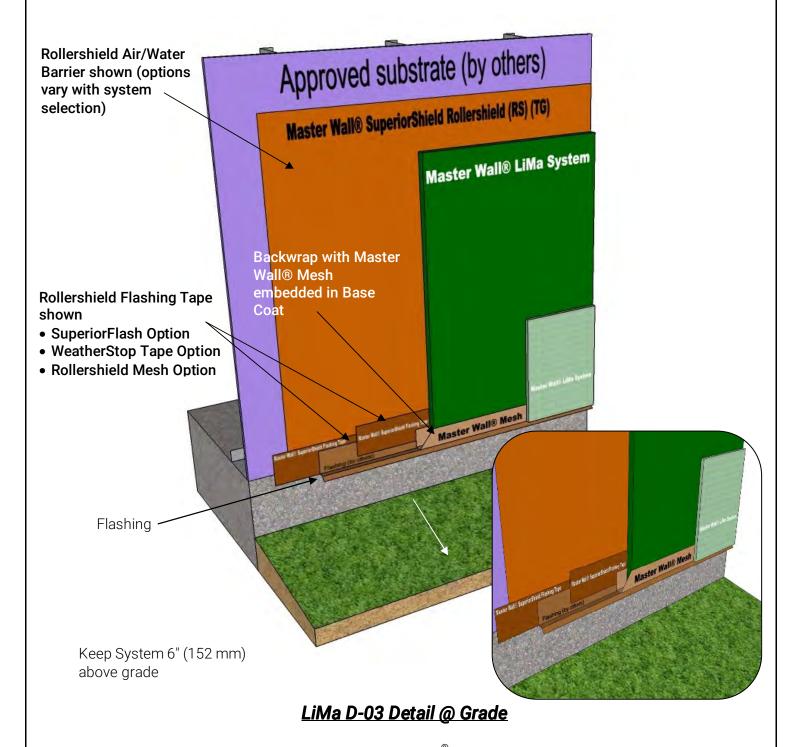
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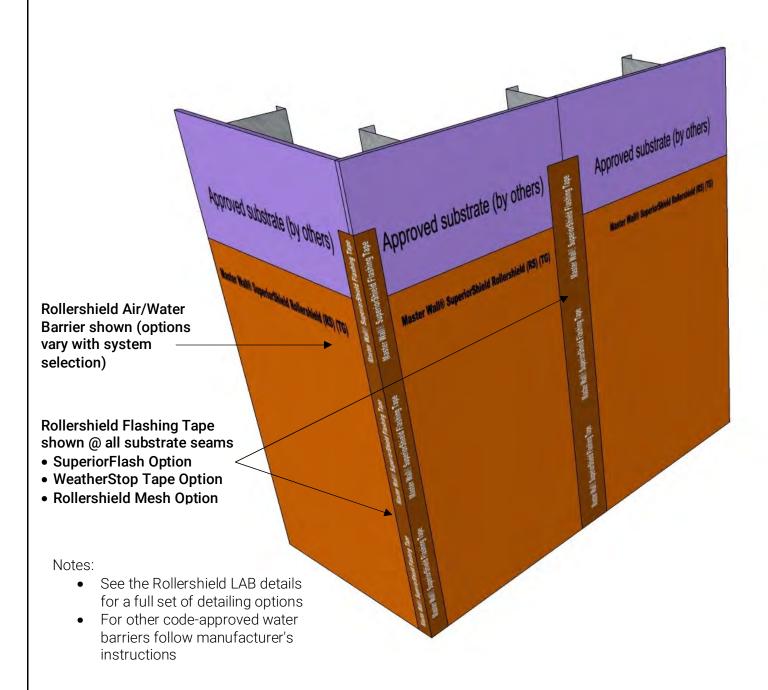
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LiMa D-04 Rollershield LAB Seam Details

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Window Head



Diagonal Rollershield Flashing Tape shown

- SuperiorFlash Option
- WeatherStop Tape Option
- Rollershield Mesh Option

Notes:

- See the Rollershield LAB details for a full set of detailing options
- For other code-approved water barriers follow manufacturer's instructions

Rollershield Air/Water Barrier shown (options vary with system selection)

Rollershield Flashing Tape shown @ all substrate seams and turned into window opening at least the depth of the window unit

- SuperiorFlash Option
- WeatherStop Tape Option
- Rollershield Mesh Option

Rollershield Flashing Tape shown adhered over flashing

Approved substrate (b) others)

Approved substrate (b) others)

Master Wall® SuperiorShield Rollershield (RS) (RS)

Master Wall® SuperiorShield Rollershield Flashing fare

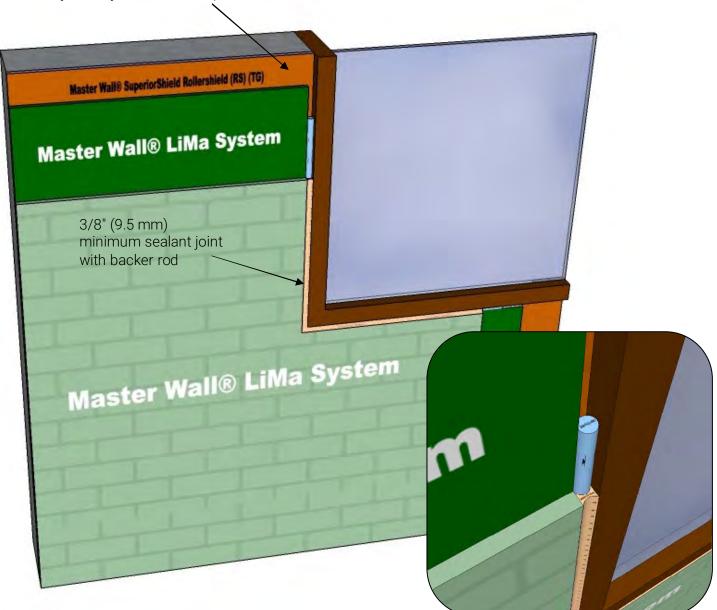
Flashing Flashing to the state of the sta

LiMa D-05 Window Opening

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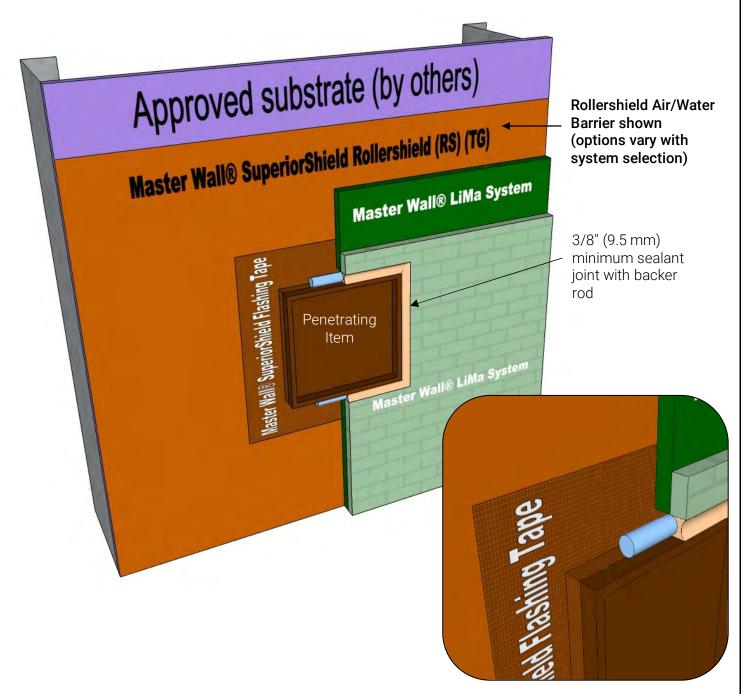
Rollershield Air/Water Barrier shown (options vary with system selection)



LiMa D-06 LiMa to Window Detail

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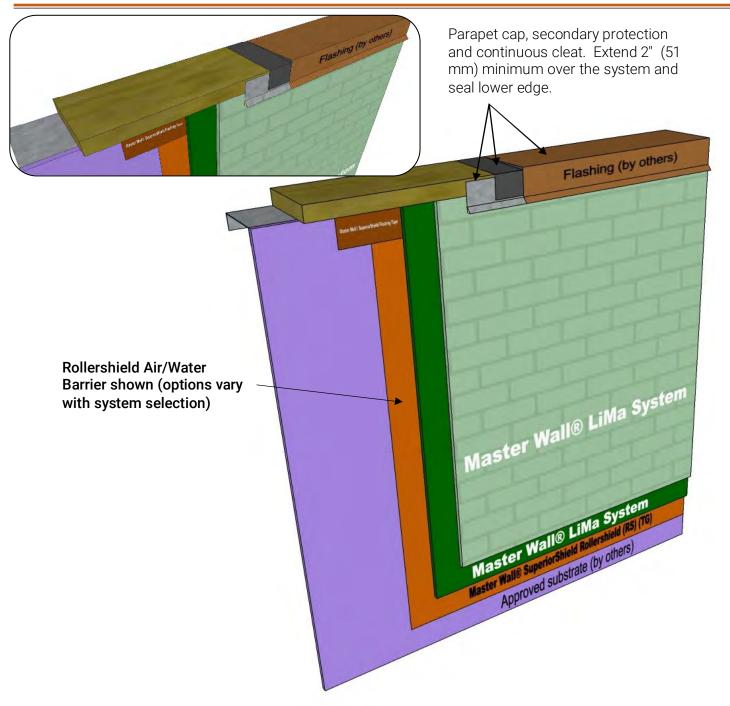




LiMa D-07 LiMa to Wall Penetration Detail

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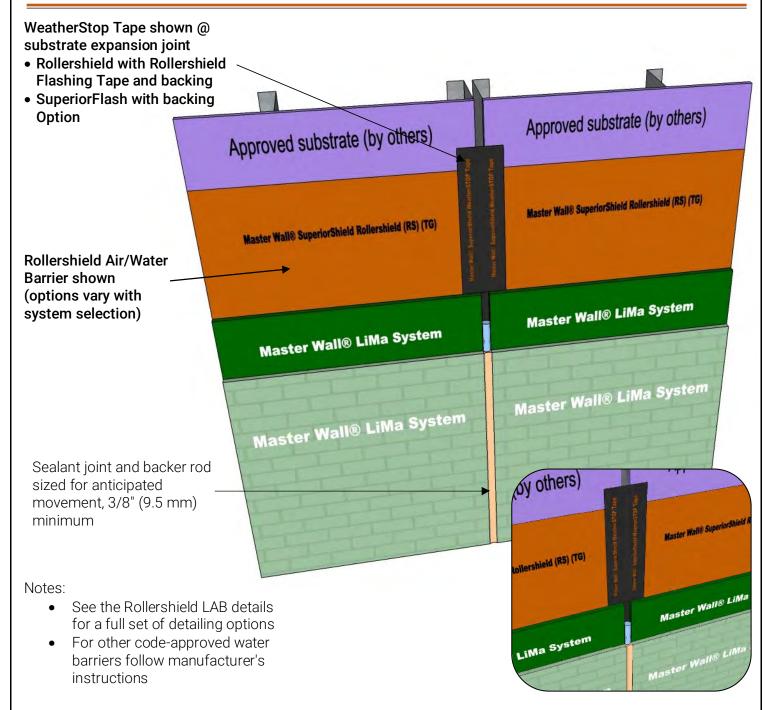




LiMa D-08 Parapet Cap Detail

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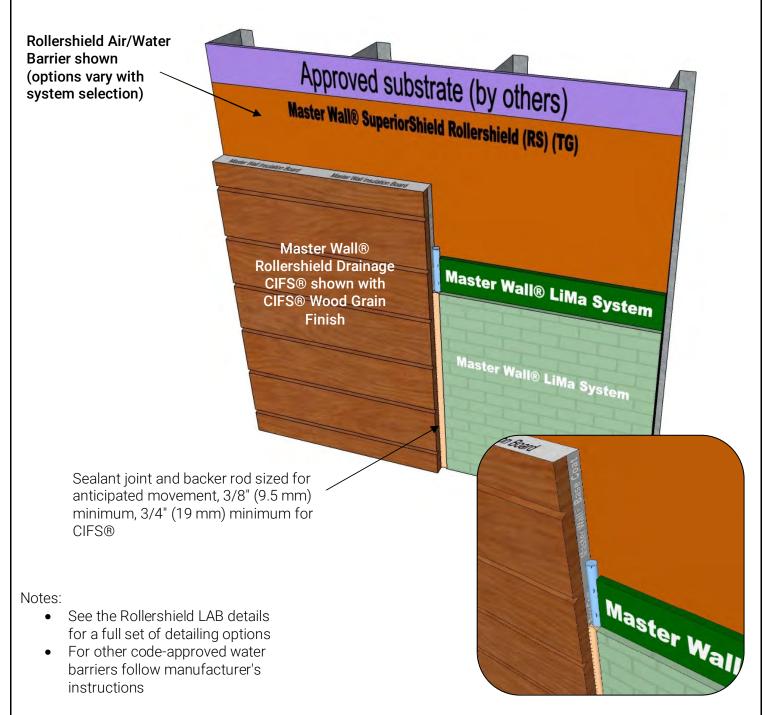




LiMa D-09 Expansion Joint Detail

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LiMa D-10 Dissimilar Materials

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