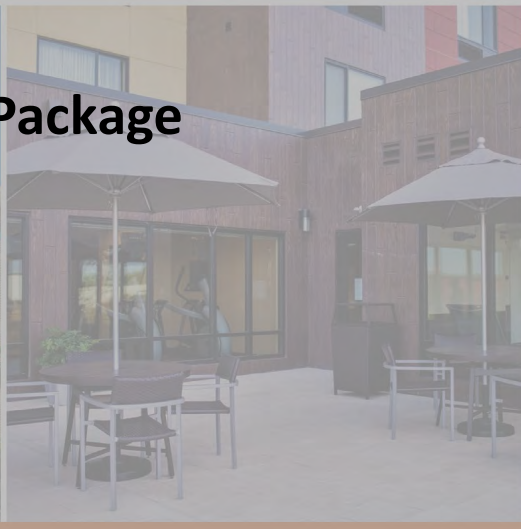


Project Submittal Package



Project:

Location:

Architect:

General Contractor:

Applicator:



Master Wall Inc.®



[System Data Sheets](#) [Product Data Sheets](#) [Sample Warranty](#)
[Specifications](#) [Details](#) [Web Link \(click here\)](#)

PO Box 397

Fortson

GA

31808

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LiMa i510CB Light Masonry Wall System

The LiMa i510CB thin brick and stone system is an insulated cement board featuring National Gypsum PermaBase® CI Insulated Cement Board™.

The integrated cement board and insulation install quickly and easily.

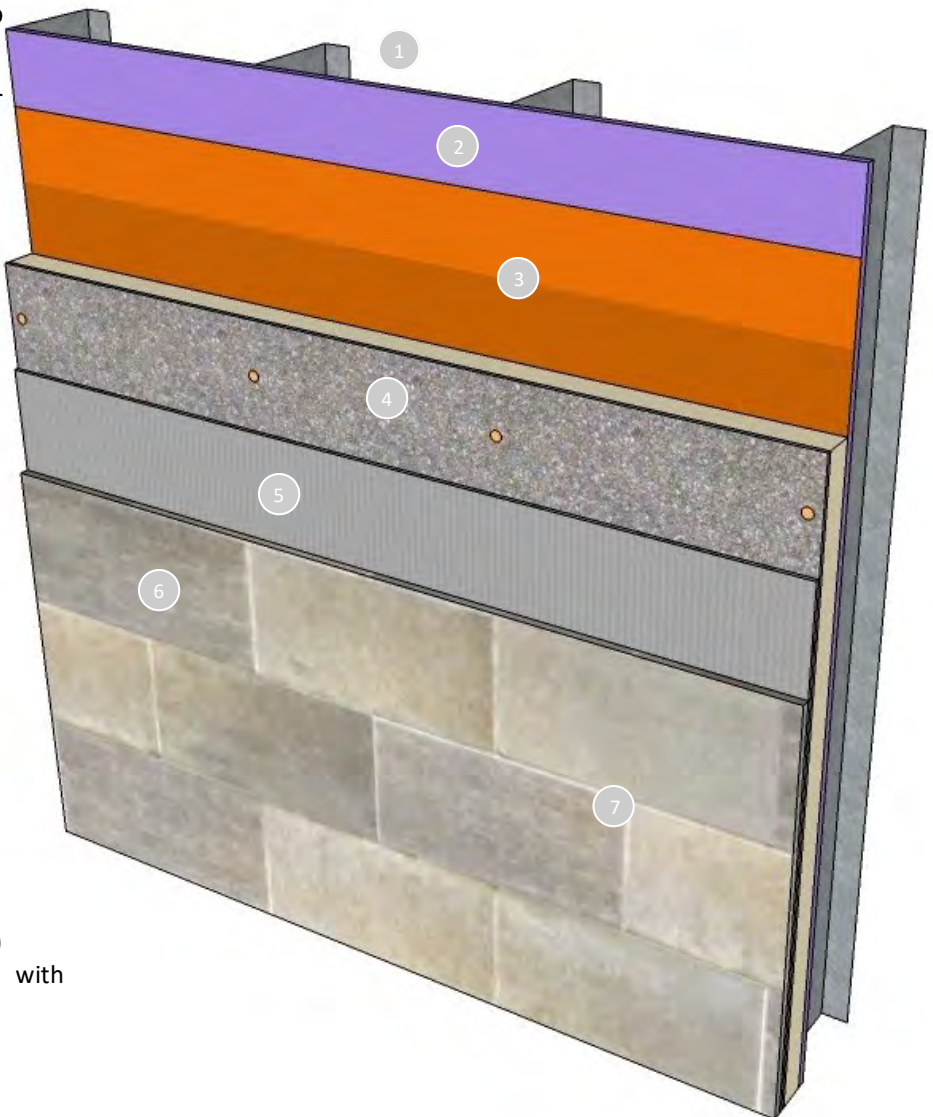
It features our Rollershield air and water barrier product that is either rolled, sprayed or troweled in place. With any method, the product offers excellent water holdout capabilities compared to a sheet good and has class-leading air sealing capability.

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

- 10-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
- Simplified construction
- R-10 insulation value
- Quality products with great durability



1. Wood or Metal Framing
2. Approved Substrate
3. Rollershield (2 coats or 22 mils dry thickness)
4. PermaBase® CI Insulated Cement Board™ with recommended fasteners
5. UltraBond Adhesive
6. Thin Brick or Stone
7. CIFS® Brick Mortar

LiMa i510CB Light Masonry Wall System

LiMai510CB Specification

Section 04 70 00

1.0 General

This is a specification for the application of a Master Wall® Light Masonry (LiMa) application over wood or metal framing and sheathing with insulated cement board.

1.1 System Description

The Master Wall® LiMai510CB is a light masonry stone or thin brick application over insulated cement board. It uses two coats of SuperiorShield Rollershield® as the air and water barrier under the cement board 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), ASTM C1177 exterior gypsum sheathing, concrete, masonry or other approved substrates noted on the Rollershield-RS data sheet.
- 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. National Gypsum PermaBase installation instructions and code report.

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 10-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.
- D. SuperiorShield 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 Cement Board: National Gypsum PermaBase® CI along with recommended fasteners.

2.3 Master Wall® Stone/Thin Brick Adhesive: UltraBond, A ready to use dry base adhesive that is field mixed with water.

2.4 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 Attach cement board to framing members using approved fasteners at a minimum of 8" (20 cm) centers.
- 3.4 Adhere ICC-ES AC51-compliant stone or thin brick using UltraBond, mixed following data sheet instructions. Allow to cure before proceeding with mortar application.
- 3.5 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.
- 3.6 Allow the wall system to cure and protect from weather for at least 72 hours before placing in service.

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PRODUCT DATA

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 SuperiorShield 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°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.

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 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 kW/m2, 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 3/4" (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.



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PRODUCT DATA

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.

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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

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.

220701

Description

PermaBase® BRAND CI Insulated Cement Board™ is a composite cement board combining the strength and benefits of PermaBase Cement Board combined with rigid insulation to create an ideal substrate for exterior finishes that meet or exceed most continuous insulation requirements. Manufactured in convenient 1,2 and 3 in. overall thickness, PermaBase CI utilizes common trims and accessories.

Basic Uses

APPLICATIONS

PermaBase CI Insulated Cement Board provides an excellent substrate for many exterior applications, including Cement Board Masonry Veneer Wall System (CBMV) and Cement Board Stucco System (CBSS) where continuous exterior insulation is required. PermaBase CI allows the combination of exterior finishes on one continuous substrate, providing greater design flexibility. It works well for both commercial exterior and residential exteriors.

ADVANTAGES

- Laminated with a R-4, R-10 and R-16 Insulation, PermaBase CI offers a solution that meets or exceeds energy code requirements.
- NFPA 285 approvals for adhered veneer finishes such as manufactured and natural stone, thin brick and tile as well as direct applied coatings of synthetic stucco.
- Faster Installation: PermaBase CI will save time and labor over installing separate insulation and cement board solutions.
- Performance: Made with PermaBase Cement Board and high-density polyiso insulation that provides durability and highly efficient insulation in one convenient package.
- GREENGUARD GOLD Certification for low chemical emissions.
- Mold resistant

Installation Recommendations

Wall framing: All framing should comply with local building code and design requirements and be designed to provide support with a maximum allowable deflection of at least L/360 under all intended loads. Framing members should be spaced a maximum of 16" o.c. Edges of PermaBase CI parallel to framing should be continuously supported. Provide additional blocking when necessary to permit proper PermaBase CI attachment.

Note: PermaBase CI can be cut using two methods –

1. Score PermaBase CI from the foam side using a utility knife to score/cut completely through the insulation and into the back of the cement board. The board can then be snapped. Cut through the mesh on the front of board to complete the cut.
2. While wearing the proper protective equipment such as safety glasses and approved respirator, use a power saw with the appropriate blade to cut through the entire panel. Penetrations can be created in the panel with a drywall saw.

Apply PermaBase CI with ends and edges closely butted, but not forced, together. Stagger end joints in successive courses. Drive fasteners into field of cement board first, working toward ends and edges. Space fasteners maximum 8" o.c. with perimeter fasteners at least 3/8" and less than 5/8" from ends and edges. Ensure PermaBase CI is tight to framing. Do not overdrive screws to the point they penetrate the fiberglass mesh in PermaBase CI.

Joint reinforcement: Trowel bonding material to completely fill the tapered recessed board joints and gaps between each panel. On non-tapered joints, apply a 6" wide, approx. 1/16" thick, coat of bonding material over entire joint. For all joints, immediately embed 4" alkali-resistant fiberglass mesh tape fully into applied bonding material and allow to cure. Same bonding material should be applied to corners, control joints, trims or other accessories. Feather bonding material over fasteners to fully conceal.

Control Joints: For exterior installations, consult finish manufacturer for spacing requirements. For exterior tile applications, control joints should be spaced a maximum of every 12'. If no recommendation is available, allow a maximum of 16 lineal feet between control joints. A control joint must be installed but not limited to the following locations: where expansion joints occur in the framing or building (discontinue all cross-furring members located behind joint); when boards abut dissimilar materials; where framing material changes; at changes of building shape or structural system; at each story separation. Place control joints at corners of window and door openings or follow specifications of architect. Control joint cavity shall not be filled with coating or other materials.

JOB NAME: _____

CONTRACTOR: _____

DATE: _____

SUBMITTAL APPROVALS: (STAMPS OR SIGNATURES)

Technical Data

TECHNICAL				
Property	Method	1"	2"	3"
Dimensional Stability	ASTM D2126	<0.5%	<0.5%	<0.5%
Water Absorption	ASTM C209	<5.0%	<5.0%	<5.0%
Water Vapor Transmission	ASTM E96	<1.5 perm	<1.5 perm	<1.5 perm
Flame Spread	ASTM E84	<25	<25	<25
Smoke Developed	ASTM E84	<450	<450	<450
R-Value	ASTM C518	4	10	16
Dimensions	ASTM C473	1" x 4' x 8	2" x 4' x 8	3" x 4' x 8
Weight (lbs./sq.ft.)		2.2	2.4	2.6

SIZES AND PACKAGING	
Thickness, Width and Length	# of Pcs. Per Unit
PermaBase CI	
1" x 48" x 96" (25.4 mm x 1219 mm x 2438 mm)	30
2" x 48" x 96" (50.8 mm x 1219 mm x 2438 mm)	20
3" x 48" x 96" (76.2 mm x 1219 mm x 2438 mm)	15

Limitations

- Treat joints with 4 in. wide alkali-resistant fiberglass mesh tape set in a polymer-modified mortar or stucco basecoat.
- Do not use conventional paper gypsum board tape, joint compound and gypsum board nails or screws.
- Do not exceed 16 in. (406 mm) o.c. as maximum wall framing spacing. Must be designed to limit deflection to L/360 under all live and dead loads.
- Steel framing must be minimum 20-gauge (galvanized) (.0312 in. design thickness) or heavier.
- Do not expose PermaBase CI to temperatures over 220°F (105°C).
- To install properly, follow the instructions of the finish material manufacturer.
- Install a code-approved Weather Resistant Barrier (WRB) to protect the cavity. The type and placement will vary per local building codes and/or manufacturer's specifications, installation guidelines and warranties.
- Do not use PermaBase CI as a nailing base for other finishes.

Cement Board Stucco Wall System (CBSS)

- Follow finish material manufacturer's instructions for proper installation.
- Treat joints in PermaBase CI with mesh tape and basecoat.
- Thin veneer construction can reveal planar irregularities in framing.
- Minor cracking at joints may become visible in finished exterior surface.
- Exterior finishes applied directly to PermaBase CI: Reinforcing mesh must be embedded in basecoat (consult exterior finish manufacturer for additional installation requirements).
- Code-Approved Weather Resistant Barrier (WRB) must first be installed to protect the cavity (type and placement will vary per local building codes and/or manufacturer's specifications, installation guidelines and warranties).

Cement Board Masonry Veneer Wall System (CBMV)

- Sheathing selection and installation varies according to type of wall construction.
- Code-approved Weather Resistant Barrier (WRB) must be installed to protect the cavity (type and placement will vary per local building codes and/or manufacturer's specifications, installation guidelines and warranties).
- Treat joints with alkali-resistant fiberglass mesh tape set in a polymer-modified mortar.
- Follow mortar manufacturer's instructions for proper installation.

Handling and Project Conditions

- Avoid water exposure during shipping, handling, storage, installation and after installation of PermaBase CI to avoid the formation of mold or mildew.
- Store PermaBase CI off the ground and under cover. Store boards flat. Use sufficient supports extending under the entire length of cement boards to prevent sagging.
- Keep PermaBase CI dry to minimize the potential for mold growth. Take adequate care while transporting, storing, applying and maintaining PermaBase CI.
- Do not apply PermaBase CI with visible signs of moisture damage or mold growth. Do not apply PermaBase CI over other building materials where conditions exist that are favorable to mold growth.

Maintenance Following Application

- Maintain essential elements of sound weather-tight building envelope, including roofing, joint sealants, windows and flashings.
- Take immediate and appropriate remediation measures as soon as water leaks or condensation sources are identified.
- Perform routine cleaning and maintenance operations using methods that prevent moisture saturation of cement boards.
- Maintain final wall finishes to protect the cement board as well as the supporting structure.

Recommended Fasteners

The following fasteners have been evaluated for use with PermaBase CI. Refer to screw manufacturer technical data for required spacing and installation instructions.

Manufacturer Recommendations		1" PermaBase CI	
Company Name	Product Description	Item Number	Website/Phone Number
Triangle Fasteners	3 in. Concealor Pancake Head Self-Drilling Screw	#14-13x3 in. DP1	www.trianglefastener.com/ 800-486-1832
TRUFAST	3 in. TRUFAST SIP & Nail Base Fastener (for wood installations)	SIPTP-3000	www.trufast.com 800-443-9602
TRUFAST	3 in. TRUFAST SIP & Nail Base Fastener (for steel stud installations)	SIPLD-3000	www.trufast.com 800-443-9602
OMG/FastenMaster	3-1/2 in. Fastenmaster HeadLOK Fastener (for wood installations)	FMHLGM278-500	www.fastenmaster.com 800-518-3569
OMG/FastenMaster	3 in. Fastenmaster HeadLOK Fastener (for steel stud installations)	FMHLSP278-500	www.fastenmaster.com 800-518-3569

Manufacturer Recommendations		2" PermaBase CI	
Company Name	Product Description	Item Number	Website/Phone Number
Triangle Fasteners	4 in. Concealor Pancake Head Self-Drilling Screw	#14-13x4 in. DP1	www.trianglefastener.com/ 800-486-1832
TRUFAST	4 in. TRUFAST SIP & Nail Base Fastener (for wood installations)	SIPTP-4000	www.trufast.com 800-443-9602
TRUFAST	4 in. TRUFAST SIP & Nail Base Fastener (for steel stud installations)	SIPLD-4000	www.trufast.com 800-443-9602
OMG/FastenMaster	4-1/2 in. Fastenmaster HeadLOK Fastener (for wood installations)	FMHLGM412	www.fastenmaster.com 800-518-3569
OMG/FastenMaster	4 in. Fastenmaster HeadLOK Fastener (for steel stud installations)	FMHLSP005-250	www.fastenmaster.com 800-518-3569

Manufacturer Recommendations		3" PermaBase CI	
Company Name	Product Description	Item Number	Website/Phone Number
Triangle Fasteners	5 in. Concealor Pancake Head Self-Drilling Screw	#14-13x5 in. DP1	www.trianglefastener.com/ 800-486-1832
TRUFAST	5 in. TRUFAST SIP & Nail Base Fastener (for wood installations)	SIPTP-5000	www.trufast.com 800-443-9602
TRUFAST	5 in. TRUFAST SIP & Nail Base Fastener (for steel stud installations)	SIPLD-5000	www.trufast.com 800-443-9602
OMG/FastenMaster	5-1/2 in. Fastenmaster HeadLOK Fastener (for wood installations)	FMHLGM4005-250	www.fastenmaster.com 800-518-3569
OMG/FastenMaster	5 in. Fastenmaster HeadLOK Fastener (for steel stud installations)	FMHLSP005-250	www.fastenmaster.com 800-518-3569

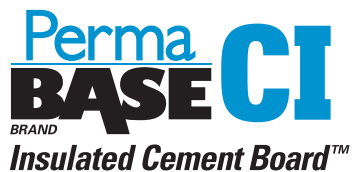
For More Information

ARCHITECTURAL SPECIFICATIONS

National Gypsum Company's CSI Master Format® 3-part guide specifications are downloadable as editable Microsoft® Word documents at: nationalgypsum.com.

LATEST INFORMATION AND UPDATES

For the latest technical information and updates, call NGC Construction Services: **1-800-NATIONAL (628-4662)** or visit our website: nationalgypsum.com.



2001 Rexford Road
Charlotte, NC 28211

(704) 365-7300

NationalGypsum.com
AskForPurple.com
permabase.com

Recommended Fasteners for PermaBase CI Insulated Cement Board™

- **Triangle Fasteners**
 - 4" Concealor Pancake Head Self-Drilling Screw
 - Description: #14-13x4"DP1
 - Website: www.trianglefastener.com/
 - Phone: 800-486-1832
- **TRUFAST**
 - 4" TRUFAST SIP & Nail Base Fastener
 - Description: SIPTP-4000 (for wood installations)
SIPLD-4000 (for steel stud installations)
 - Website: www.trufast.com
 - Phone: 800-443-9602
- **OMG/FastenMaster**
 - 4-1/2" Fastenmaster HeadLOK Fastener
 - Description: HLG M412 (for wood installations)
 - 4" Fastenmaster HeadLOK Fastener
 - Description: FMHLSP004-250 (for steel stud installations)
 - Website: www.fastenmaster.com
 - Phone: 800-518-3569

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), 3/4" (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.

1. 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.
7. Always mix batches consistently with the same amount of material and water. Inconsistent batching will cause color variations.

Application

1. 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.

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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Master Wall Inc.®

Building a Culture of Excellence

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.



Master Wall Inc.®

Building a Culture of Excellence

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.

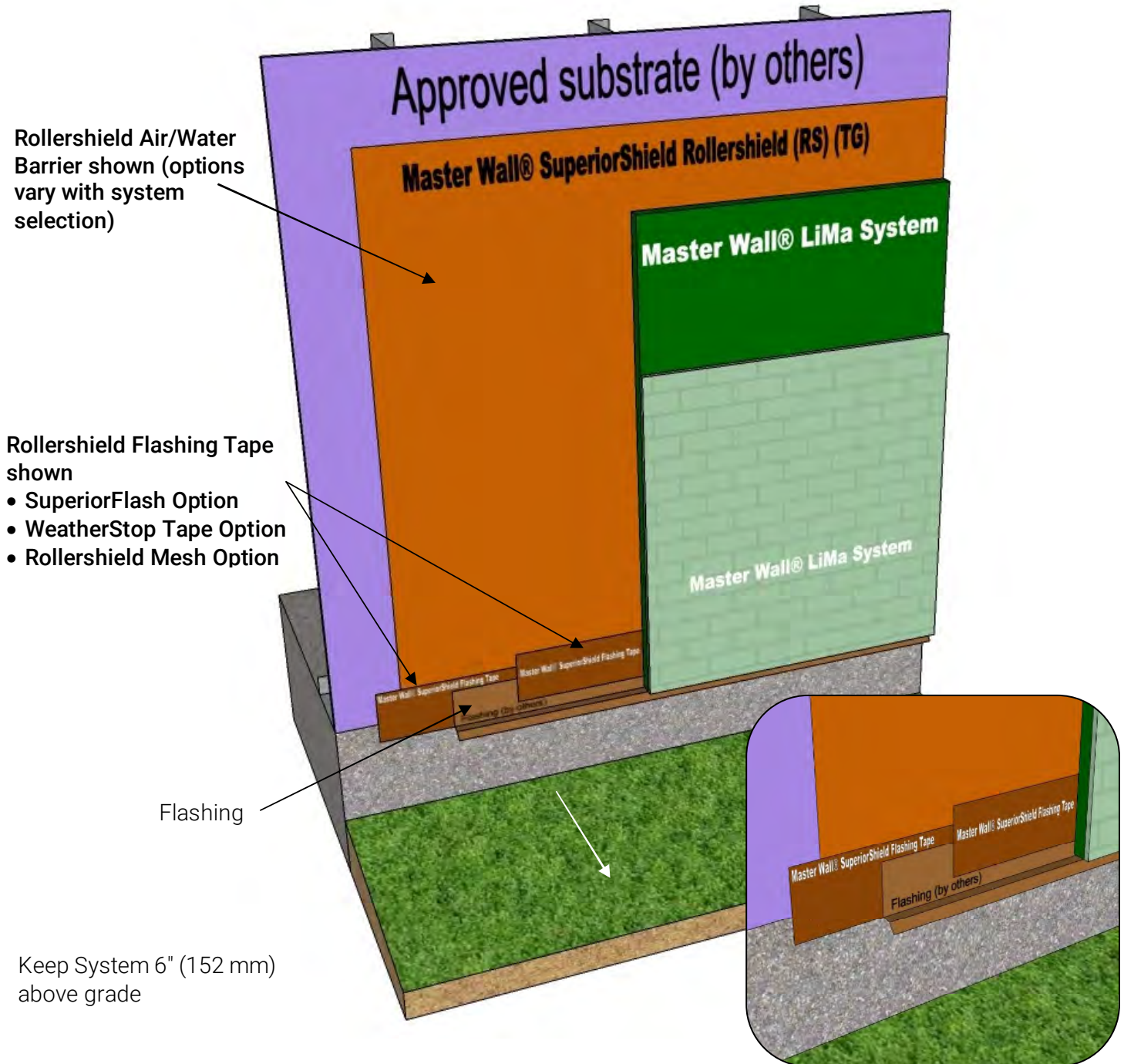
Project:

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.

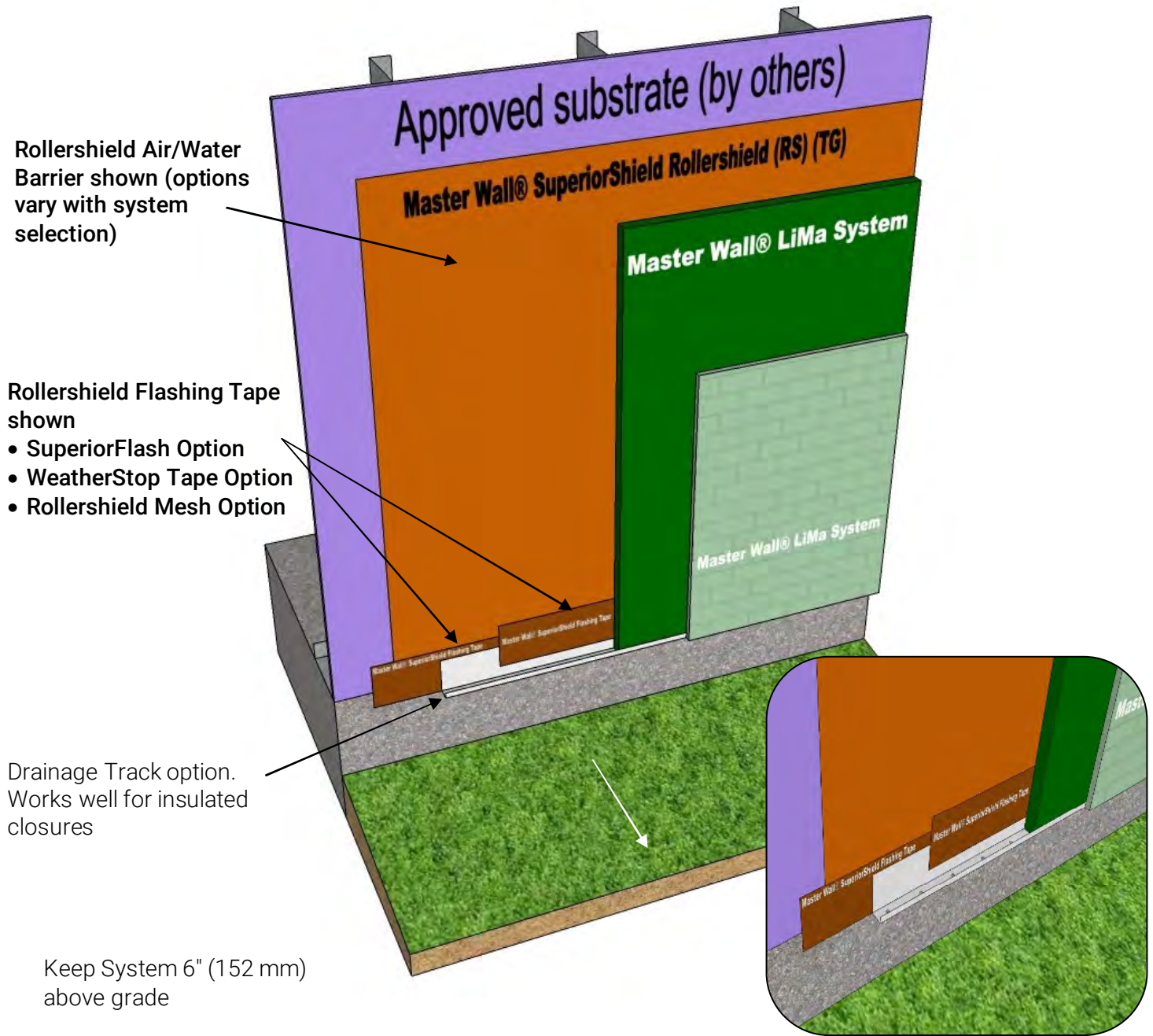
System Detail



LiMa D-01Detail @ Grade

These drawings relay the conceptual conditions of Master Wall® Systems and are not the construction drawings. Ultimately the design and detailing of an entire wall system is the responsibility of a professional. These details will guide the design professional in the use of Master Wall® Products. Master Wall disclaims design, warranty or construction intent or responsibility. **Bold or Trade Name = Master Wall® Product.**

System Detail



LiMa D-02 Detail @ Grade

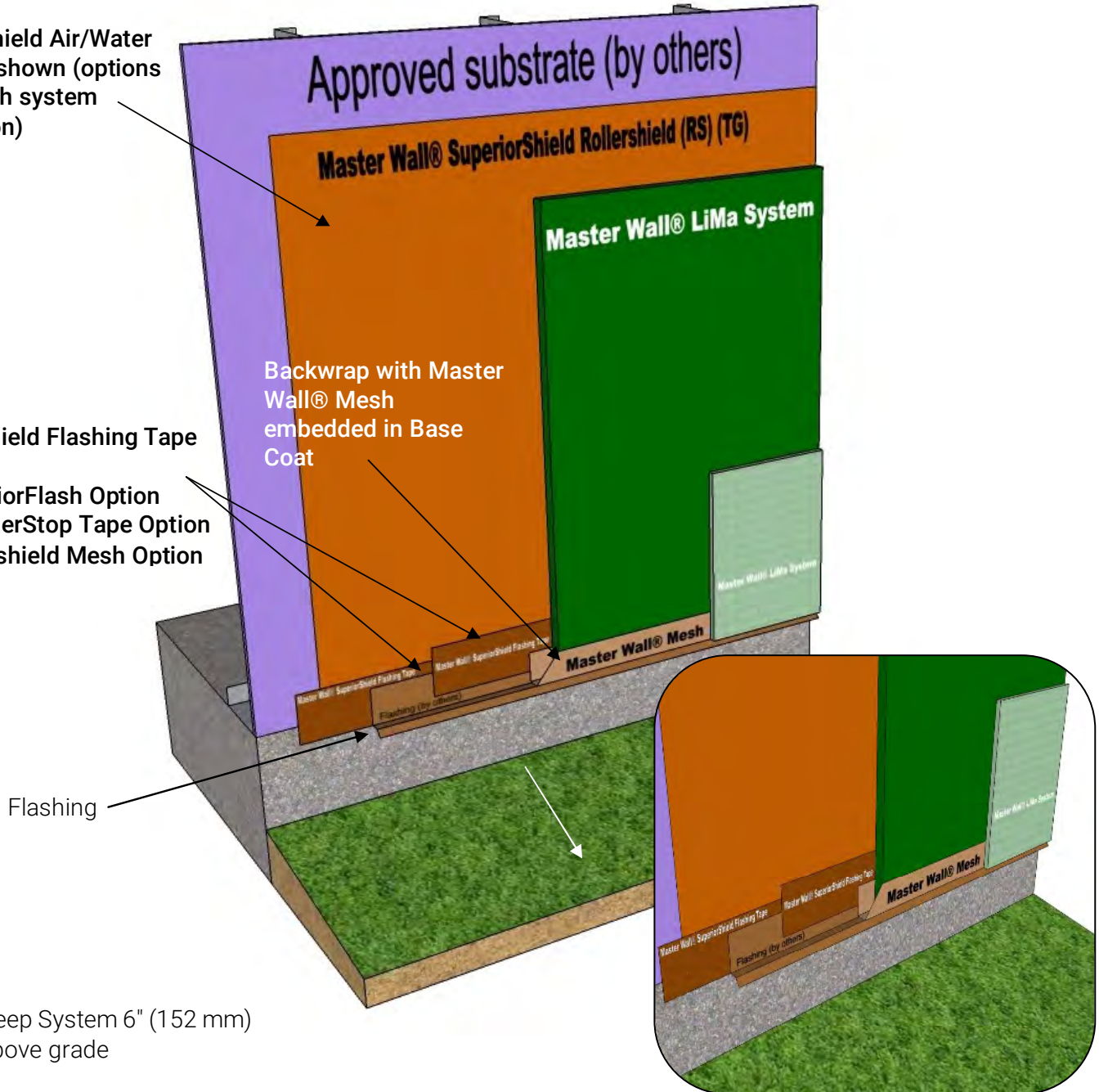
These drawings relay the conceptual conditions of Master Wall® Systems and are not the construction drawings. Ultimately the design and detailing of an entire wall system is the responsibility of a professional. These details will guide the design professional in the use of Master Wall® Products. Master Wall disclaims design, warranty or construction intent or responsibility. **Bold or Trade Name = Master Wall® Product.**

System Detail

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

Rollershield Flashing Tape shown

- SuperiorFlash Option
- WeatherStop Tape Option
- Rollershield Mesh Option

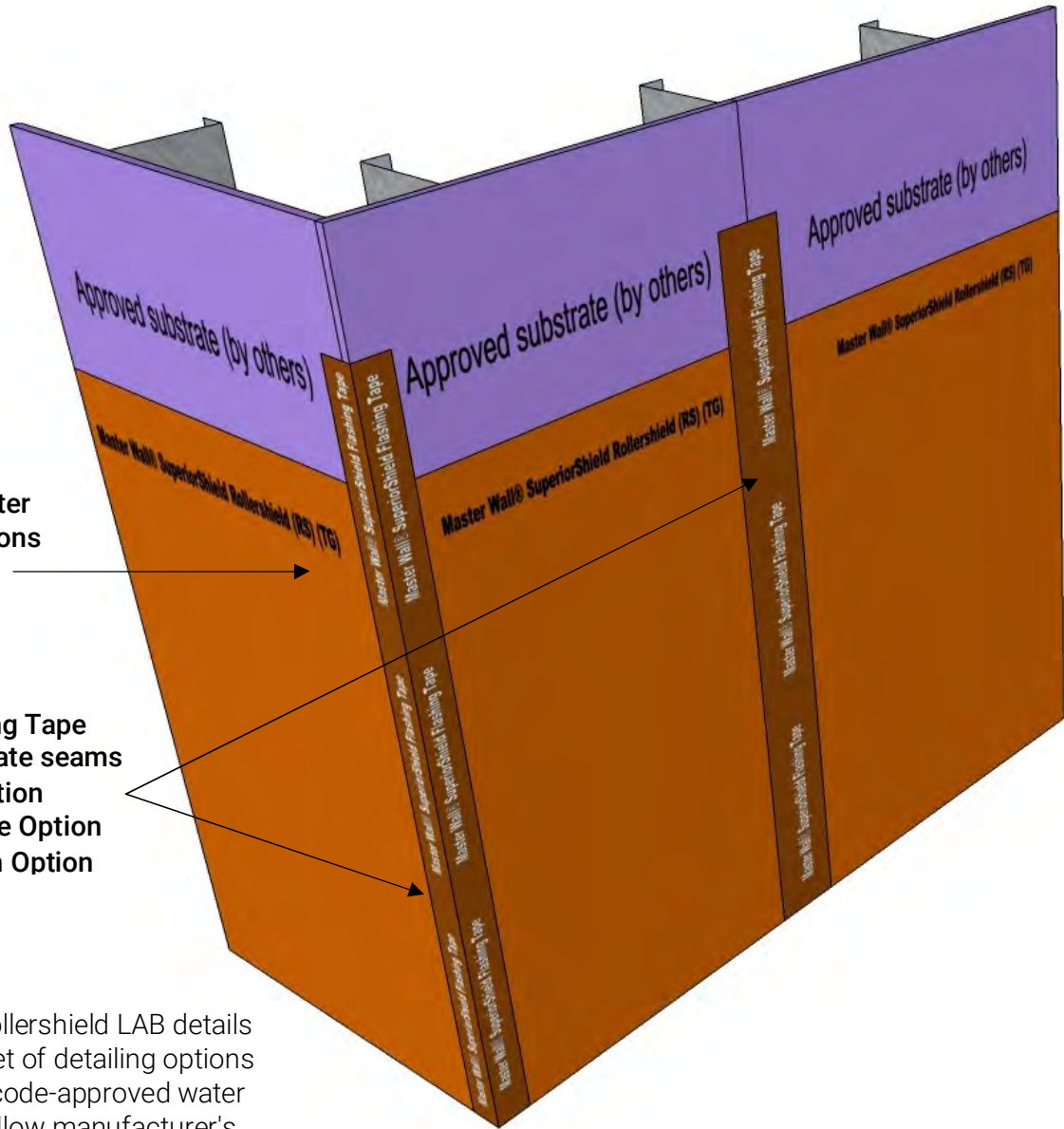


Keep System 6" (152 mm) above grade

LiMa D-03 Detail @ Grade

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System Detail



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

Rollershield Flashing Tape shown @ all substrate seams

- SuperiorFlash Option
- WeatherStop Tape Option
- Rollershield Mesh Option

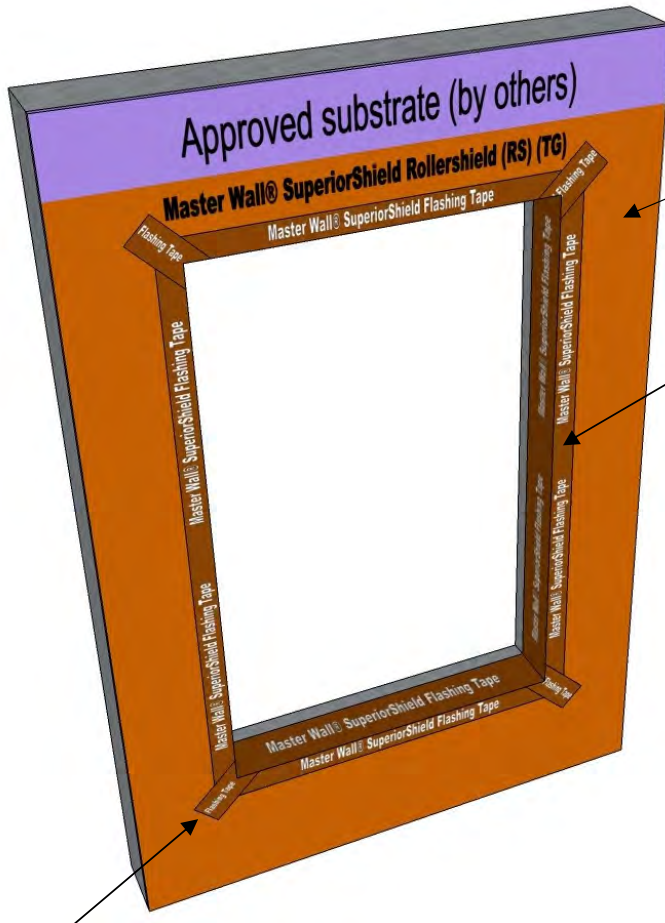
Notes:

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

LiMa D-04 Rollershield LAB Seam Details

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System Detail



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

Window Head Flashing



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

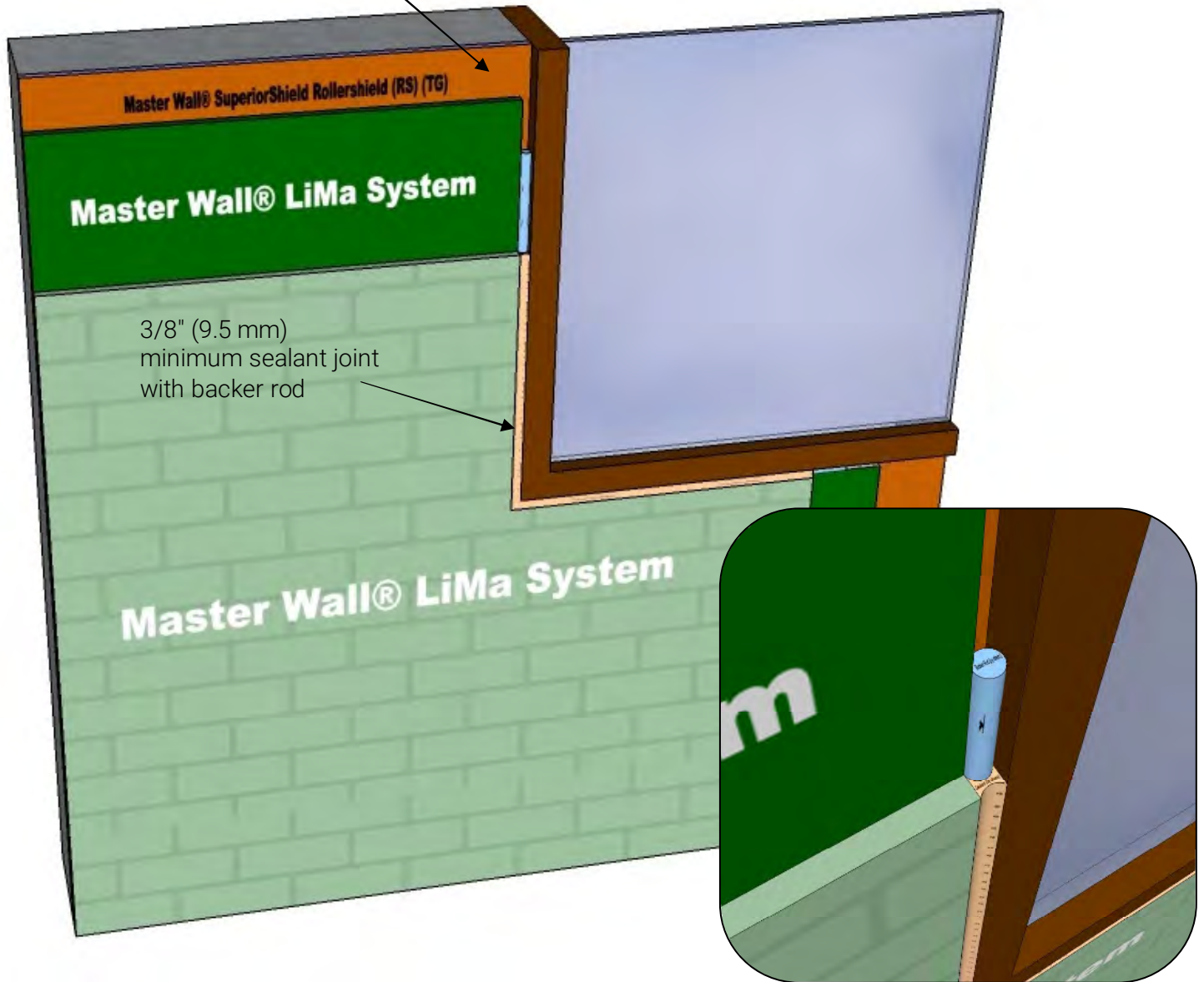
LiMa D-05 Window Opening

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System Detail

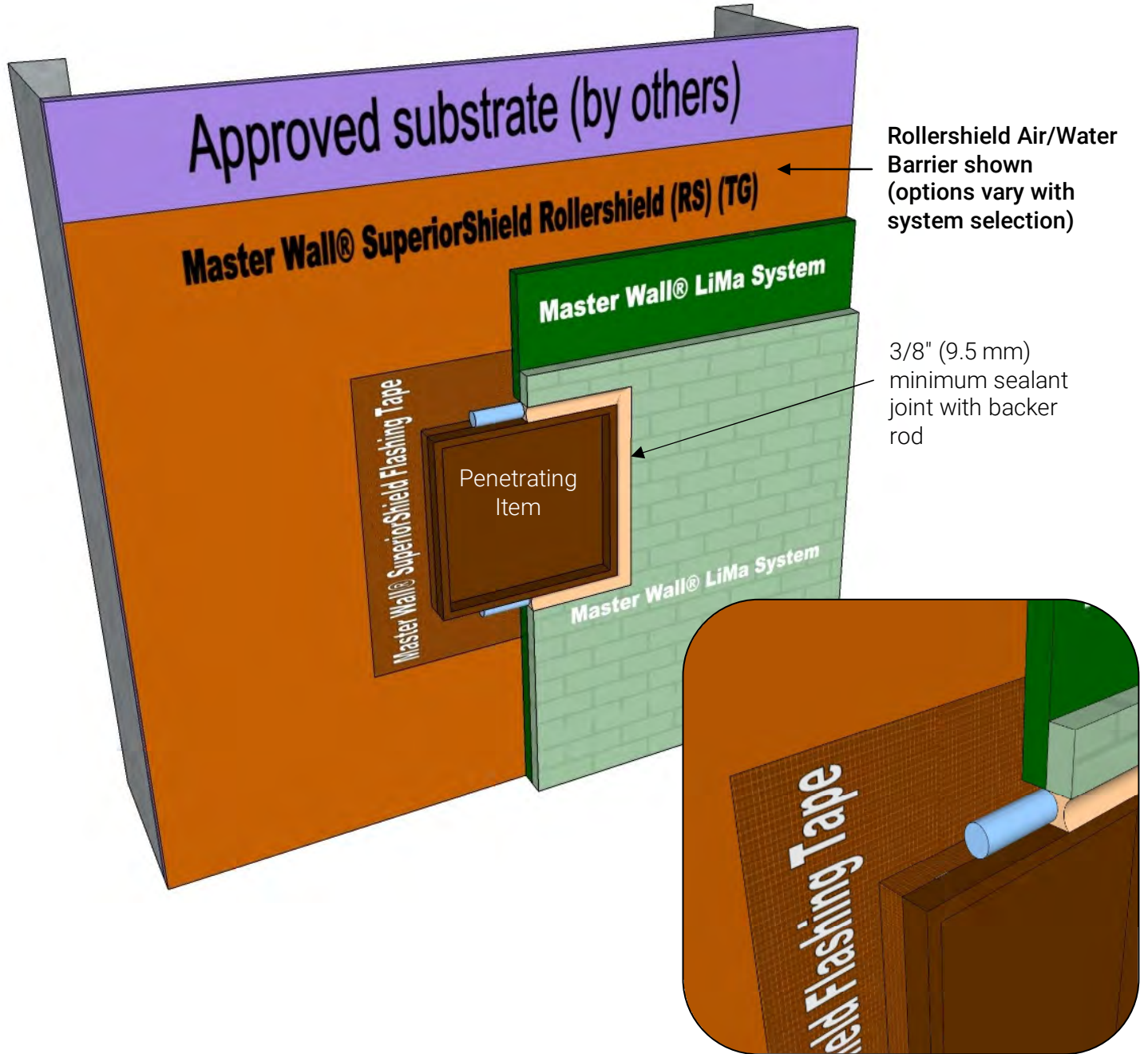
Rollershield Air/Water Barrier shown
(options vary with system selection)



LiMa D-06 LiMa to Window Detail

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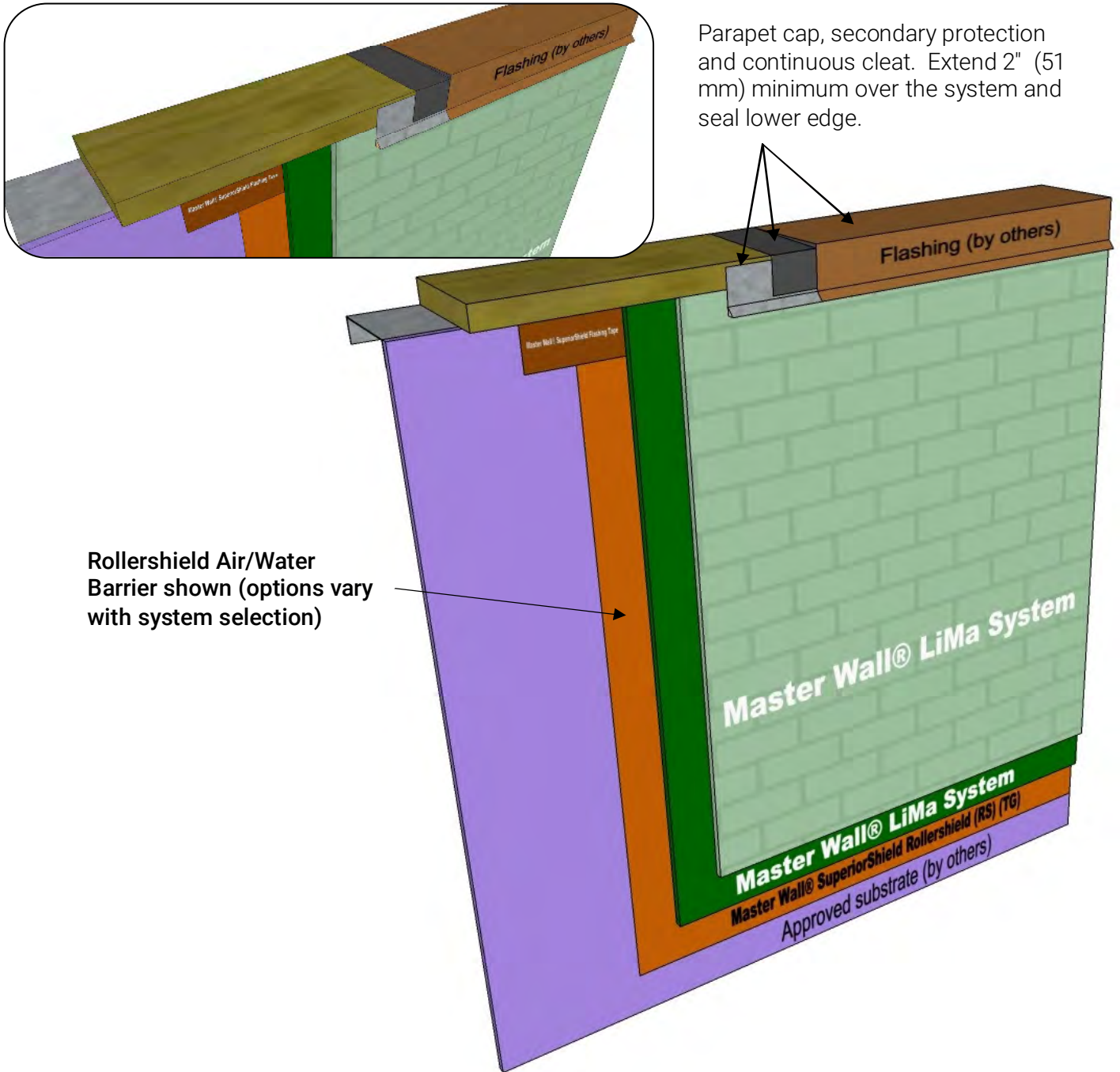
System Detail



LiMa D-07 LiMa to Wall Penetration Detail

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System Detail



LiMa D-08 Parapet Cap Detail

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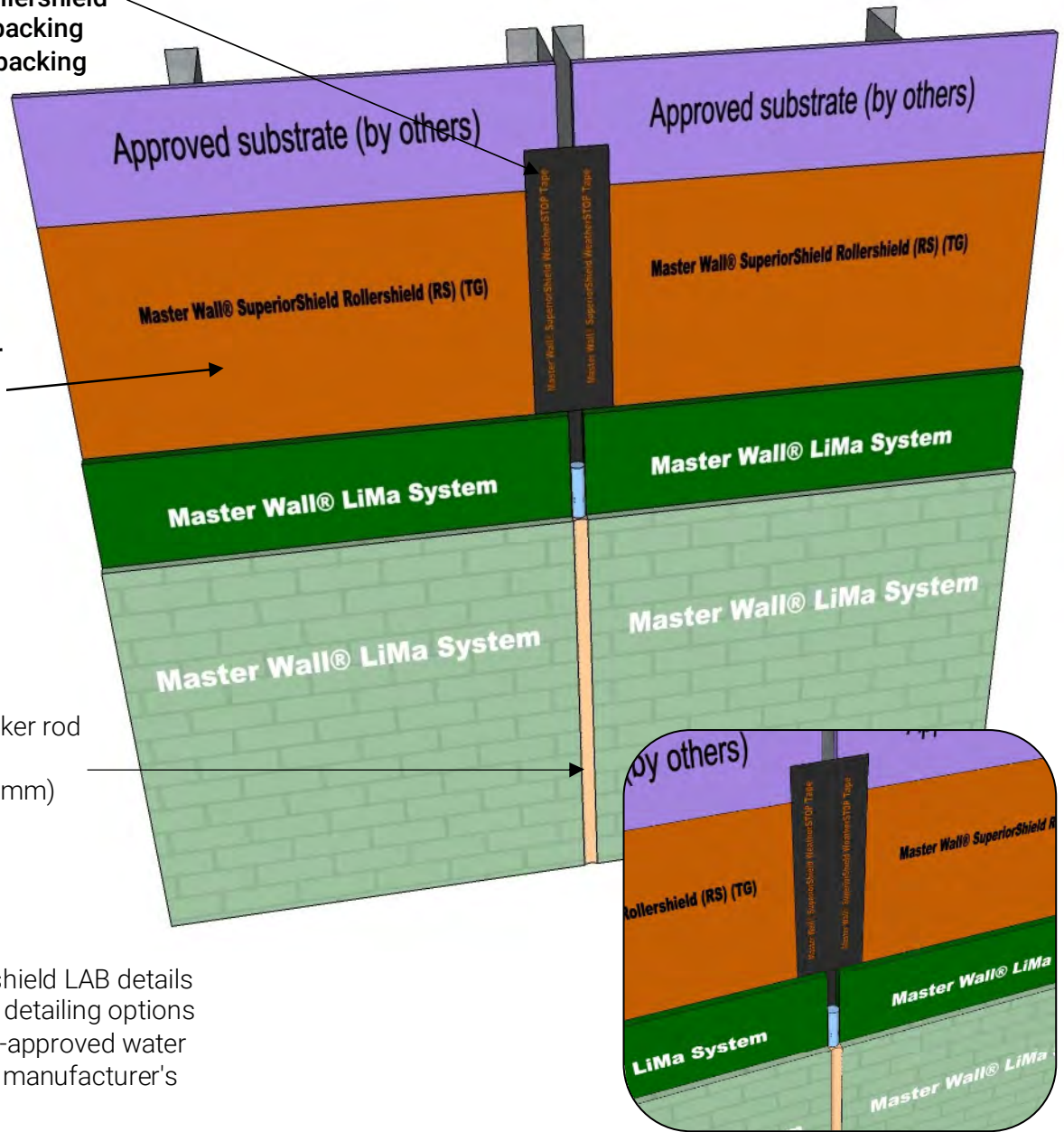
System Detail

WeatherStop Tape shown @ substrate expansion joint

- Rollershield with Rollershield Flashing Tape and backing
- SuperiorFlash with backing Option

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

Sealant joint and backer rod sized for anticipated movement, 3/8" (9.5 mm) minimum



Notes:

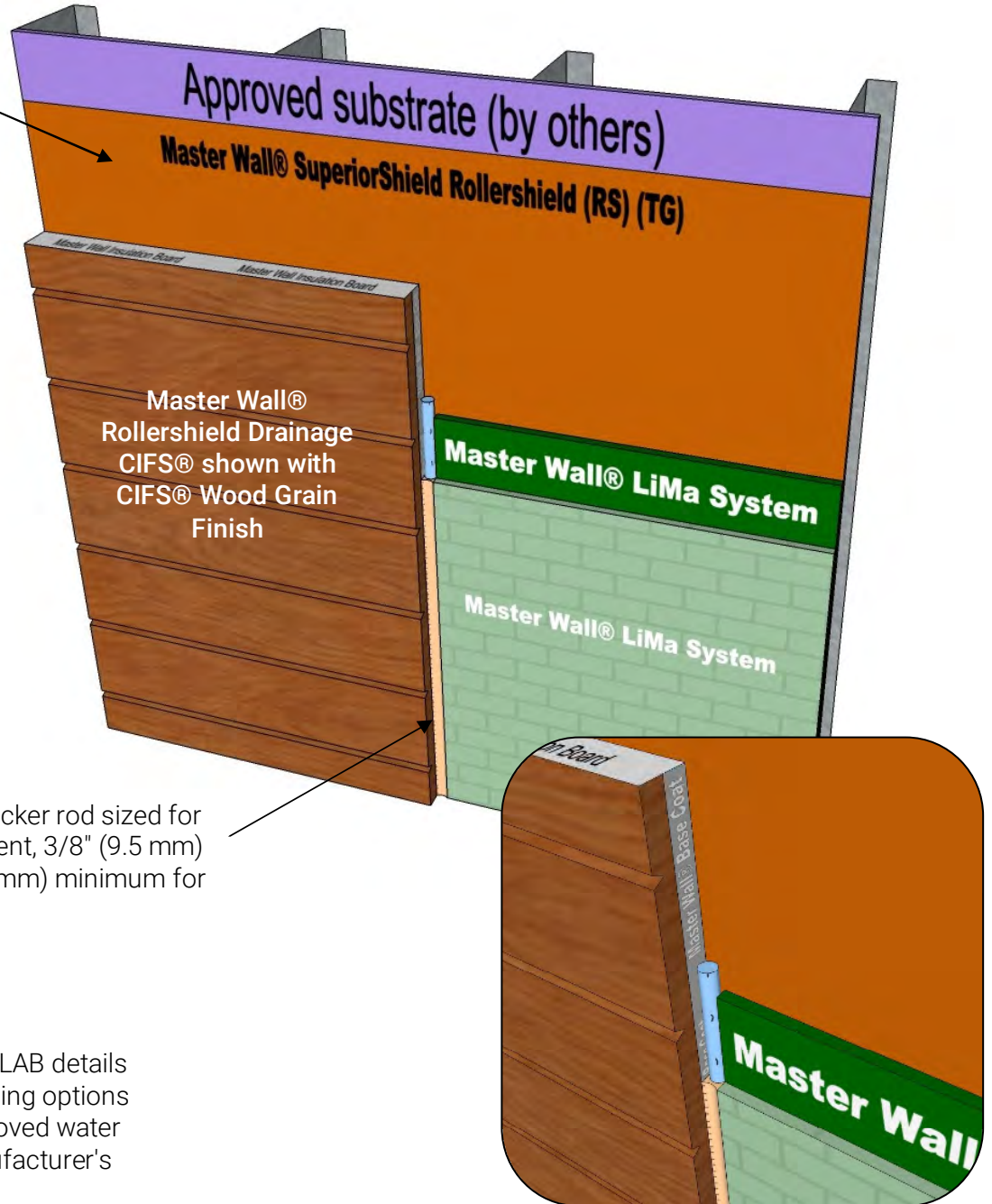
- See the Rollershield LAB details for a full set of detailing options
- For other code-approved water barriers follow manufacturer's instructions

LiMa D-09 Expansion Joint Detail

These drawings relay the conceptual conditions of Master Wall® Systems and are not the construction drawings. Ultimately the design and detailing of an entire wall system is the responsibility of a professional. These details will guide the design professional in the use of Master Wall® Products. Master Wall disclaims design, warranty or construction intent or responsibility. **Bold or Trade Name = Master Wall® Product.**

System Detail

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



Sealant joint and backer rod sized for anticipated movement, 3/8" (9.5 mm) minimum, 3/4" (19 mm) minimum for CIFS®

Notes:

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

LiMa D-10 Dissimilar Materials

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