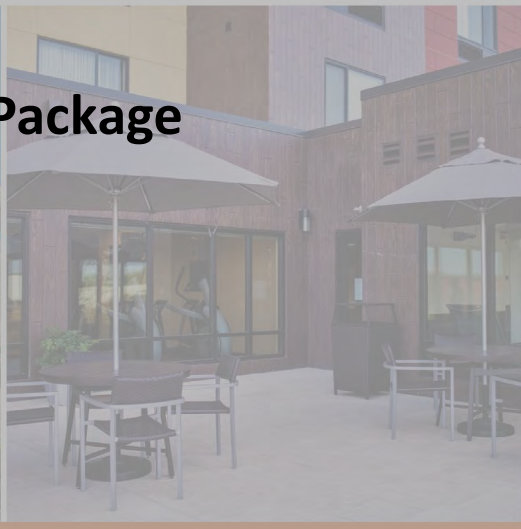


Project Submittal Package



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

800-755-0825

masterwall.com

LiMa M105 Light Masonry Wall System

The LiMa M105 thin brick and stone system is an economical, lightweight wall cladding with simplified construction.

It features sheet type water barriers and cement board substrate for an economical installation.

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

- 5-year limited warranty
- UltraBond adheres strongly to cement board with high adhesion and low slump properties
- Quality products with great durability



1. Wood or Metal Framing
2. Approved sheathing
3. Water Barriers
4. 1/2" or 5/8" PermaBase® Cement Board
5. UltraBond Adhesive
6. Thin Brick or Stone
7. CIFS® Brick Mortar

LiMa M105 Light Masonry Wall System

LiMaM105 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 ASTM C1177 exterior gypsum sheathing.

1.1 System Description

The Master Wall[®] LiMaM105 is a light masonry stone or thin brick application over cement board. It is applied over two weather-resistive barriers 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 ASTM C1177 exterior gypsum sheathing or approved alternates.
- 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 weather resistive barrier shall be as recognized in the applicable building code or recognized alternative.
- B. 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 5-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 Cement Board: National Gypsum PermaBase in 1/2" (12.7 mm) or 5/8" (15.9 mm) thickness or PermaBase CI along with recommended fasteners.
- 2.2 Master Wall[®] Stone/Thin Brick Adhesive: UltraBond, A ready to use dry base adhesive that is field mixed with water.
- 2.3 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 application of the weather resistive barrier.
- 3.2 Install weather resistive barrier in accordance with building code requirements. Two layers or approved equivalent products.
- 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.

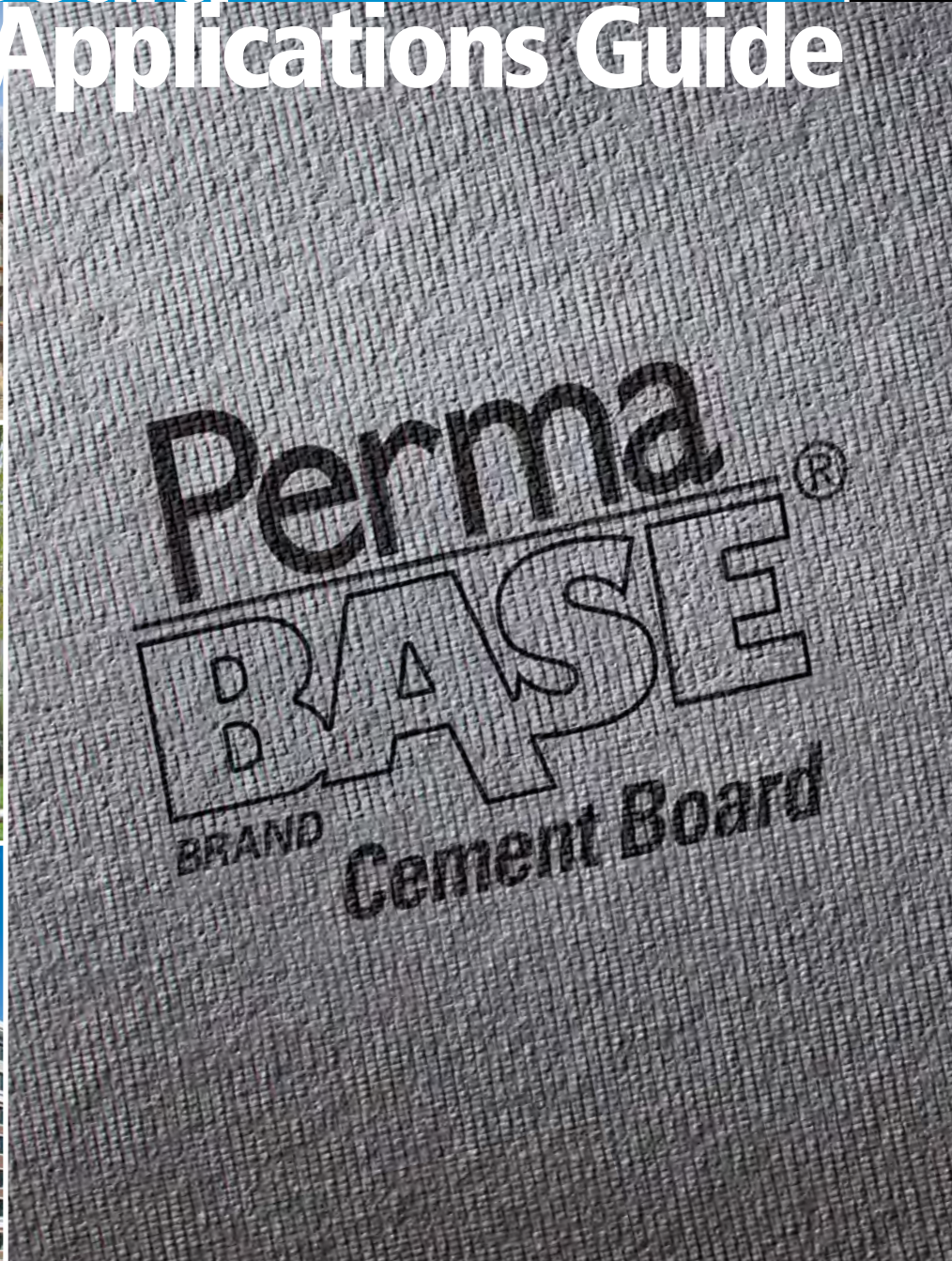
Information contained in this product data sheet conforms to the standard detail recommendations and specifications for the installation of Master Wall Inc.[®] products and is presented in good faith. Master Wall Inc.[®] assumes no liability, expressed or implied as to the architecture, engineering, 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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Cement Board Exterior Applications Guide



Building In Strength And Quality

Reinforce With The Best Rigid Substrate: PermaBase® BRAND Cement Board

PermaBase® provides a durable surface designed to withstand prolonged exposure to moisture. Made with Portland cement, aggregate and fiberglass mesh, it works well with exterior applications. Lightweight and easy to install, our EdgeTech® Technology allows a closer nail or screw application.



Resists Moisture Better

- Stays intact when exposed to water: will not rot, disintegrate or swell – built for the long run
- Achieves the industry's lowest water-absorption rating (ASTM C 473) – offering better installation
- Helps inhibit mold growth with the highest possible score on mold tests (ASTM D 3273 and ASTM G 21)



Stays Strong And Lasts Long

- Resists impact and remains dimensionally stable – extending the life of your project
- Holds up to the toughest conditions



Installs Quickly

- Lightweight and easy to cut – speeding up installation
- Reduces jobsite waste – easier, cleaner cut
- EdgeTech® Technology allows for a closer edge fastening and reduces damage from handling



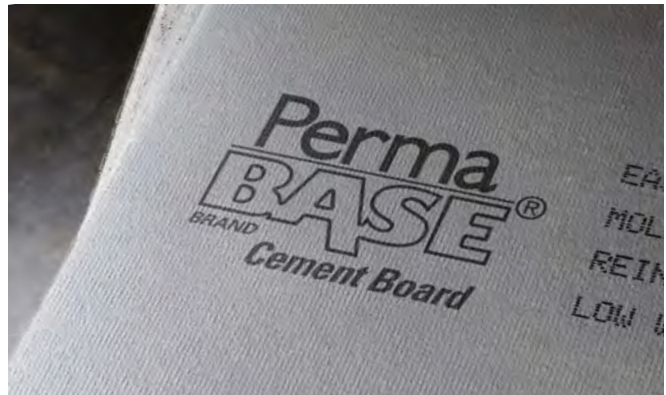
Works For Exterior Projects – One Panel, Many Applications

- Adhere tile, stone or thin brick directly to PermaBase in exterior applications – saving time and money
- Durable substrate for direct-applied coating systems
- Meets UL classifications for one- and two-hour fire-rated assemblies
- Building code approved – one substrate that does the job of many



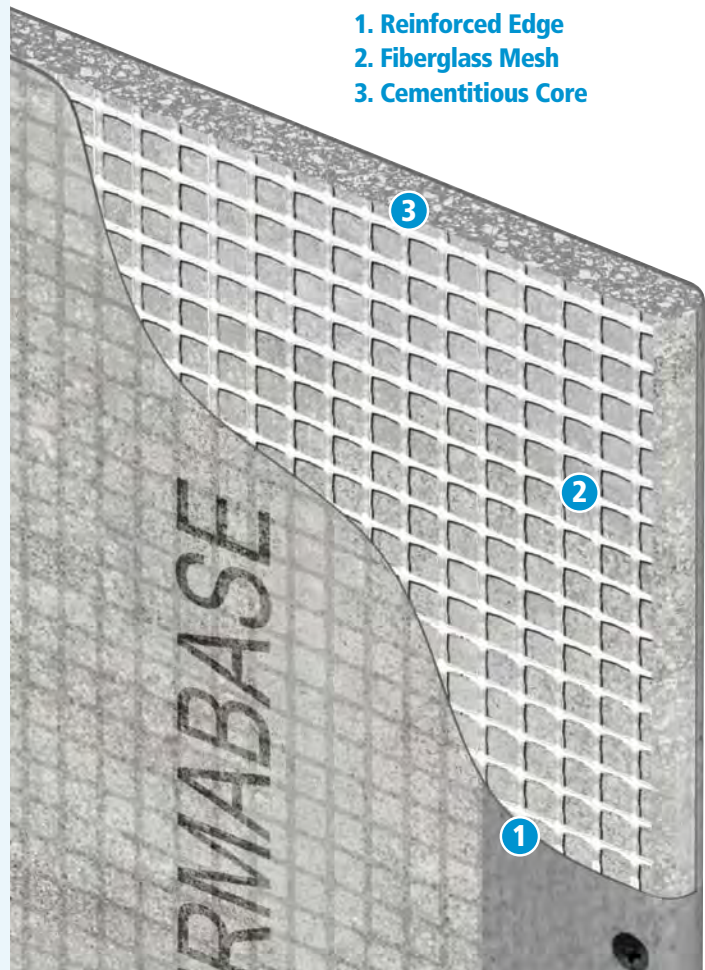
Offers Best In Class Warranty

- 15-Year Limited Warranty: Exterior applications



Quality To The Core

1. Reinforced Edge
2. Fiberglass Mesh
3. Cementitious Core



Cement Board Masonry Veneer Wall System (CBMV)

For use in residential and low-rise commercial applications, CBMV offers a complete, engineered solution for installation of adhered veneers. It provides the ability to incorporate an effective water-management system for a variety of building exteriors with manufactured or natural stone and thin brick veneers.

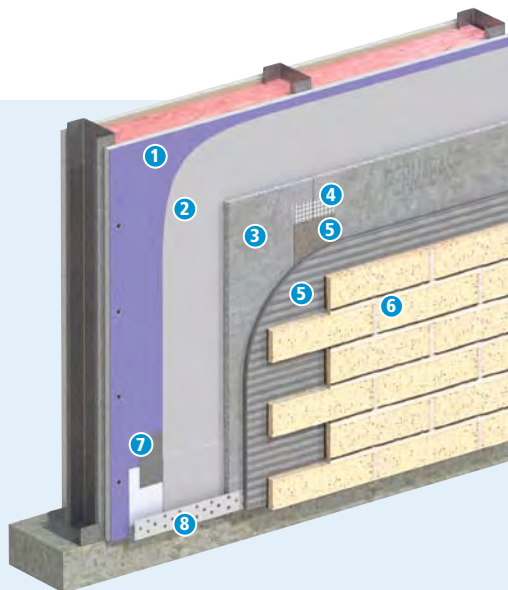
BENEFITS INCLUDE

- Engineered system that allows a faster installation while providing superior quality control (manufactured product that must comply with ASTM product specifications)
- Increased performance by utilizing modified adhesive mortars (designed for hanging materials) rather than type S&N mortars (developed for stacking materials)
- Extremely durable with increased resistance to impact and inclement weather
- Approved for use in ASTM 1780, and cement board is cited as an approved substrate for this system by the Masonry Veneer Manufacturers Association (MVMA): *Installation Guide and Detailing Options for Compliance with ASTM C1780*
- Easily allows for the inclusion of continuous installation into the assembly
- Appropriate for all climates, and resists the growth of mold and mildew

- Speed up your schedule – faster, easier and cleaner than traditional metal lath/scratch-coat method
- IBC/IRC compliant; meets ASTM C1325
- PermaBase® is approved as a substrate for direct applied finishes, tile, stone and thin brick in exterior applications, as outlined in UL Evaluation Report ER-22158
- PermaBase® is suitable for use in combustible and noncombustible construction under the IBC and IRC, as outlined in UL Evaluation Report ER-22158

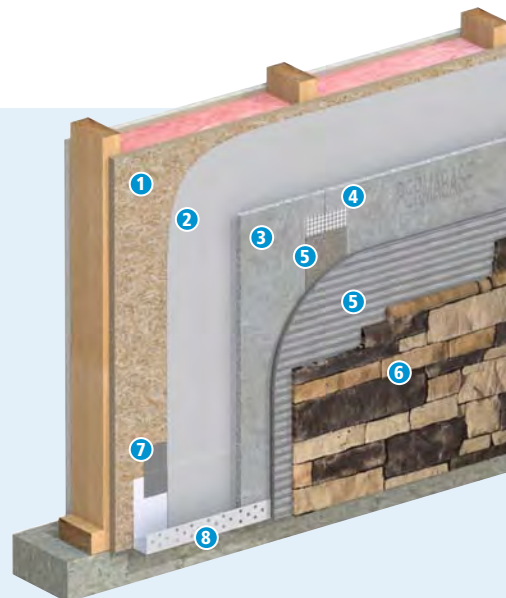
LIMITATIONS

- Sheathing selection and installation varies according to type of wall construction
- Code-approved water/air resistive 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)



Cement Board Masonry Veneer-Thin Brick

- | | |
|------------------------------|----------------------|
| 1. EXP® Sheathing | 5. Mortar |
| 2. Weather Resistant Barrier | 6. Thin Brick Veneer |
| 3. PermaBase® Cement Board | 7. Flashing Tape |
| 4. Mesh Tape | 8. Weep Screed |



Cement Board Masonry Veneer – Stone

- | | |
|------------------------------|----------------------|
| 1. Sheathing | 6. Thin Stone Veneer |
| 2. Weather Resistant Barrier | 7. Flashing Tape |
| 3. PermaBase® Cement Board | 8. Weep Screed |
| 4. Mesh Tape | |
| 5. Mortar | |

Cement Board Stucco Wall Systems (CBSS)

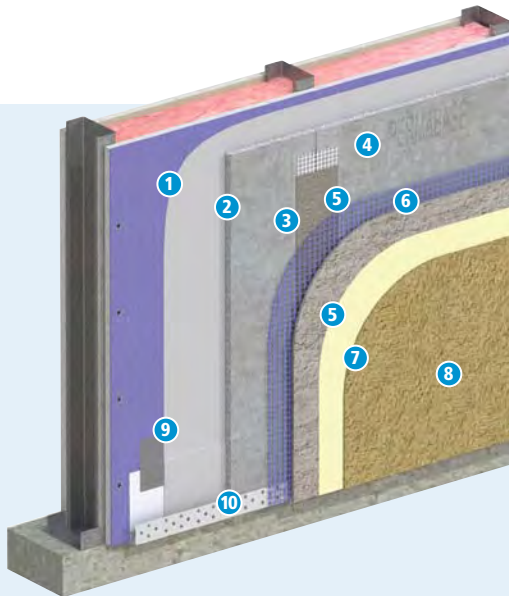
For use in residential and low-rise commercial applications, CBSS provides a drainage system to help prevent water from penetrating behind cladding in framed construction. It complies with ASTM D226, protecting approved sheathings/structural components and helping to evacuate incidental water.

BENEFITS INCLUDE

- Appropriate for all climates and resists the growth of mold and mildew
- Extremely durable with increased resistance to impact and inclement weather
- Acrylic polymers provide more resistance to fading, cracking and peeling
- Engineered system that allows a faster installation while providing superior quality control (manufactured product that must comply with ASTM product specifications)
- Provides a 15-year exterior warranty – the industry's best

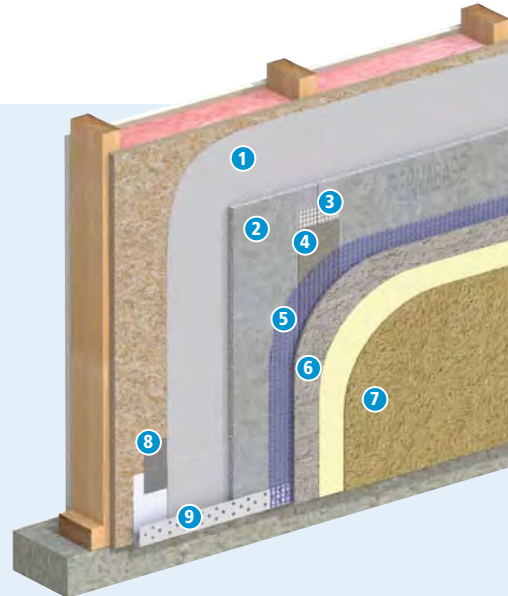
LIMITATIONS

- Follow finish material manufacturer's instructions for proper installation
- Treat joints in PermaBase[®] with mesh tape and base coat
- 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[®]: Reinforcing mesh must be embedded in base coat (consult exterior finish manufacturer for additional installation requirements)
- Conventional Portland cement plaster systems: Self-furring metal lath must be used over PermaBase[®] and fastened to studs
- Code-approved water/air resistive 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 Stucco

- | | |
|--|---------------------|
| 1. EXP [®] Sheathing | 6. Reinforcing Mesh |
| 2. Weather Resistant Barrier | 7. Primer |
| 3. PermaBase [®] Cement Board | 8. Finish Coat |
| 4. Mesh Tape | 9. Flashing Tape |
| 5. Base Coat | 10. Weep Screed |



Wood Board Stucco

- | | |
|--|------------------|
| 1. Weather Resistant Barrier | 6. Base Coat |
| 2. PermaBase [®] Cement Board | 7. Finish Coat |
| 3. Mesh Tape | 8. Flashing Tape |
| 4. Base Coat | 9. Weep Screed |
| 5. Reinforcing Mesh | |

Continuous Insulation

For use in residential and low-rise commercial applications, Continuous Insulation offers a complete, engineered solution for required structural performance. Including PermaBase® as a component in this system reinforces the building and provides the ability to incorporate an effective water-management system.

NFPA 285 Approvals

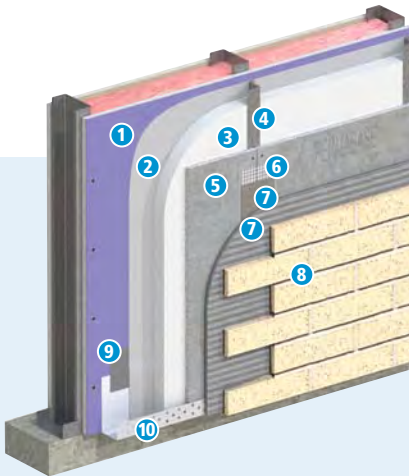
PermaBase is approved for use in NFPA 285 wall assemblies. Approvals include the following finishes: stucco, manufactured stone, natural stone, thin brick, and calcium silicate stones. Assemblies include options for expanded polystyrene, extruded polystyrene, polyisocyanurate, and polyurethane insulations. For complete systems details, see UL Evaluation Report R22158.

BENEFITS INCLUDE

- Engineered system that allows a faster installation while providing superior quality control (manufactured product that must comply with ASTM product specifications)
- Helps mitigate the loss of heat/air conditioning by insulating the studs (reduces thermal bridging)
- Helps eliminate air and moisture leakage
- Appropriate for all climates, resists the growth of mold and mildew, and offers fire protection
- Provides added dimensional stability
- Helps prevent the water/air resistive barrier (WRB) from being compromised as assembly components shift
- Provides a 15-year exterior warranty – the industry's best

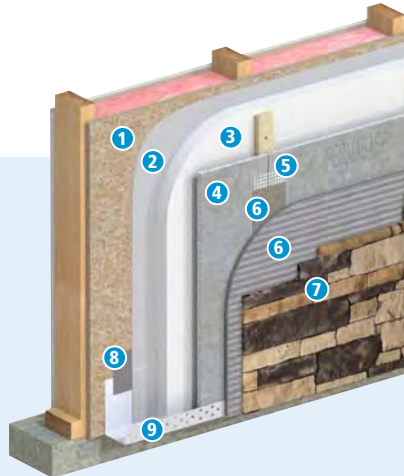
LIMITATIONS

- Sheathing selection and installation varies according to type of wall construction
- Code-approved water/air resistive barrier (WRB) must first be installed (type and placement will vary per local building codes and/or manufacturer's specifications, installation guidelines and warranties)



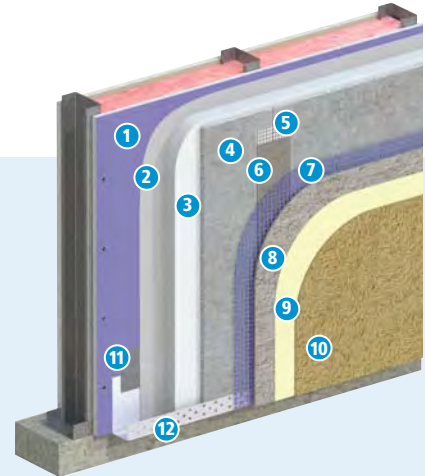
Continuous Insulation – Z Furring – Installation

- | | |
|------------------------------|----------------------|
| 1. EXP® Sheathing | 6. Mesh Tape |
| 2. Weather Resistant Barrier | 7. Mortar |
| 3. Insulation | 8. Thin Brick Veneer |
| 4. Z-Furring | 9. Flashing Tape |
| 5. PermaBase® Cement Board | 10. Weep Screed |



Continuous Insulation – Batten Strip

- | | |
|------------------------------|----------------------|
| 1. Sheathing | 6. Mortar |
| 2. Weather Resistant Barrier | 7. Thin Stone Veneer |
| 3. Insulation | 8. Flashing Tape |
| 4. PermaBase® Cement Board | 9. Weep Screed |
| 5. Mesh Tape | |



Continuous Insulation – Specialty Fastener

- | | |
|------------------------------|-------------------|
| 1. EXP® Sheathing | 6. Base Coat |
| 2. Weather Resistant Barrier | 7. Mesh |
| 3. Insulation | 8. Base Coat |
| 4. PermaBase® Cement Board | 9. Primer |
| 5. Mesh Tape | 10. Finish Coat |
| | 11. Flashing Tape |
| | 12. Weep Screed |

This section of the PermaBase Construction Guide provides information on how to utilize PermaBase within both a CBMV System and a Continuous Insulation System. While some typical examples are shown (right) for reference purposes, the specifications and details on how to design and construct individual systems should be obtained from the adhering material or veneer manufacturer of the materials that are being used to complete the system. [For more information, go to permaBase.com/exterior](http://permaBase.com/exterior).

Installation Guide

Exterior Applications

An ideal substrate for exterior applications, such as:

- Tile applications
- Stucco applications
- Cement board stucco
- Thin brick
- Adhered stone veneer
- Thin porcelain tile
- Ventilated rainscreen facade
- EIFS
- Continuous Insulation
- Outdoor kitchens/grills

INSTALLATION

General: All framing should comply with local building code requirements and be designed to provide support with a maximum allowable deflection of L/360 under all intended live (including wind) and dead loads.

Note: Cut or score PermaBase® on rough side of panel.

Control Joints: For exterior installations, allow a maximum of 16 lineal feet between control joints. Consult finish manufacturer for other requirements. For exterior tile applications, control joints should be spaced a maximum of every 12'. 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.

WALLS AND CEILINGS

Wall Framing: Studs should be spaced a maximum of 16" o.c. Edges/ends of PermaBase® parallel to framing should be continuously supported. Provide additional blocking when necessary to permit proper PermaBase® attachment. Do not install PermaBase® directly over protrusions from stud plane such as heavy brackets or fastener heads.

Ceiling Framing: The deflection of the complete ceiling assembly due to dead load (including insulation, PermaBase®, bonding material and facing material) should not exceed L/360. The dead load applied to the ceiling frame should not exceed 10 psf. Ceiling joist or furring channel should not exceed 16" o.c. (Edges of PermaBase® parallel to framing should be continuously supported.) Provide additional blocking when necessary to permit proper PermaBase® attachment.

Water Barrier: While PermaBase® is unaffected by moisture, a water/air resistive barrier (WRB) must be installed to protect the cavity. The type and specific placement or location of the water barrier will vary based on local building codes and/or manufacturers' warranties. Consult the WRB manufacturer's recommendations for specific installation guidelines.

PermaBase® Cement Board: Apply PermaBase® 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. into framing for walls, 6" o.c. into joists for ceilings with perimeter fasteners at least 3/8" and less than 5/8" from ends and edges.

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, approximately 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.

PHYSICAL PROPERTIES

| Property Method | Test | 1/4" | 7/16" PLUS | 1/2" | 5/8" |
|---|----------------------|-----------|------------|-----------|-----------|
| Water Absorption % By Weight/24 Hours | ASTM C 473 | <8 | <10 | <8 | <8 |
| Flexural Strength (psi) | ASTM C 947 | >1750 | 750 | 750 | >1000 |
| Fastener Holding (Wet and Dry, lbs.) (0.400" head diameter) | ASTM D 1037 | >85 | >90 | >90 | >90 |
| Weight (psf) | ASTM C 473 | 1.8 | 2.1 | 2.1 | 3.65 |
| Freeze/Thaw (Cycles) | ASTM C 666 | 100 | 100 | 100 | 100 |
| Flame Spread / Smoke Developed | ASTM E 84 | 0/0 | 0/0 | 0/0 | 0/0 |
| Compressive Strength (psi) (Indentation) | ASTM D 2394 | N/A | N/A | 1450 | 1250 |
| Wind Load | ASTM E 330 | N/A | 30 | 40 | 40 |
| Thermal "R"/k Value | Property of Material | 0.2/2.7 | 0.28/2.7 | 0.37/2.7 | 0.47/2.7 |
| Bending Radius (ft.) | Property of Material | N/A | 5 | 5 | 5 |
| Falling Ball Impact | ASTM D 1037 | Pass | Pass | Pass | Pass |
| Linear Variation (Due to change in moisture content) | ASTM D 1037 | <0.07% | 0.05% | 0.05% | 0.05% |
| Fungus Resistance | ASTM G 21 | No Growth | No Growth | No Growth | No Growth |
| Mold Growth On Surface | ASTM D 3273* | 10 | 10 | 10 | 10 |
| Shear Bond Strength (7 Days psi) Dry-Set Portland Cement Mortar | ANSI A 118.1 | N/A | N/A | 204 | N/A |
| Shear Bond Strength (7 Days psi) Latex Portland Cement Mortar | ANSI A 118.4 | N/A | N/A | 241 | N/A |
| Shear Bond Strength (7 Days psi) Organic Adhesives Type 1 | ANSI A 136.1 | N/A | N/A | 159 | N/A |

* When tested by an independent laboratory per ASTM D 3273 ("Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber"), PermaBase achieved a panel score of 10, the highest score possible, indicating no mold growth under the laboratory test conditions. The use of PermaBase in actual installations may not produce the same results as were achieved in controlled laboratory conditions. No material can be considered "mold proof," nor is it certain that any material will resist mold indefinitely.

SIZES AND PACKAGING

| Size: Thickness, Width And Length | # Of Pcs Per Unit |
|---|-------------------|
| PermaBase Cement Board | |
| 1/2" x 32" x 5' (12.7 mm x 813 mm x 1524 mm) | 50* |
| 1/2" x 32" x 8' (12.7 mm x 813 mm x 2438 mm) | 50 |
| 1/2" x 36" x 4' (12.7 mm x 914 mm x 1219 mm) | 50* |
| 1/2" x 36" x 5' (12.7 mm x 914 mm x 1524 mm) | 50 |
| 1/2" x 36" x 6' (12.7 mm x 914 mm x 1829 mm) | 50* |
| 1/2" x 36" x 8' (12.7 mm x 914 mm x 2438 mm) | 30* |
| 1/2" x 48" x 8' (12.7 mm x 1219 mm x 2438 mm) | 35 |
| 5/8" x 48" x 8' (15.9 mm x 1219 mm x 2438 mm) | 24 |
| 5/8" x 36" x 5' (15.9 mm x 914 mm x 1524 mm) | 35 |
| 3/8" x 36" x 5' (9.5 mm x 914 mm x 1524 mm) | 50* |
| 3/8" x 48" x 8' (9.5 mm x 1219 mm x 2438 mm) | 40* |
| 3/4" x 48" x 8' (19.0 mm x 1219 mm x 2438 mm) | 20 |
| PermaBase Underlayment | |
| 1/4" x 48" x 4' (7.9 mm x 1219 mm x 1219 mm) | 60 |
| 1/4" x 36" x 5' (7.9 mm x 914 mm x 1524 mm) | 60 |

* Special Order

Installation Accessories

For a seamless installation, we recommend PermaBase Tape and PermaBase Screws.



Fasteners

PermaBase corrosion resistant screws or equivalent, 1-1/4" or 1-5/8" long, for use with wood framing. Type S-12 screws or equivalent, 1-1/4" or 1-5/8" long, for use with 20 gauge or heavier steel framing.

Galvanized roofing nails, 1-1/2" long with hot dipped galvanized coating for use with wood framing. Nails should meet Federal Specification #FF-N105B/type 2 style 20.

Joint Reinforcement

PermaBase mesh tape must be used on all edges and cuts made to size. Use 2" wide polymer-coated (alkali resistant) mesh tape for interior applications and 4" wide polymer-coated (alkali resistant) mesh tape for exterior applications.

Bonding Materials

Treat joint and set facing material, preferably with latex-Portland cement mortar or with dry-set (thin-set) mortar. All mortars should comply with ANSI A118.1, A118.4 or A118.15 standards. Type 1 organic adhesive meeting ANSI A-136.1 may be utilized for interior use only.

LIMITED WARRANTY AND REMEDIES

Products manufactured and sold by National Gypsum Company are warranted by National Gypsum Company to its customers to be free from defects in materials and workmanship at the time of shipment. THIS EXPRESS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO SUCH PRODUCTS, AND IS IN LIEU OF AND EXCLUDES ALL OTHER EXPRESS ORAL OR WRITTEN WARRANTIES AND ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

National Gypsum Company will not be liable for any incidental, indirect or consequential losses, damages or expenses. The customer's exclusive remedy for any type of claim or action for defective products will be limited to the replacement of the products (in the form originally shipped) or, at National Gypsum's option, to a payment or credit not greater than the original purchase price of the products.

Mold And Mildew Resistance

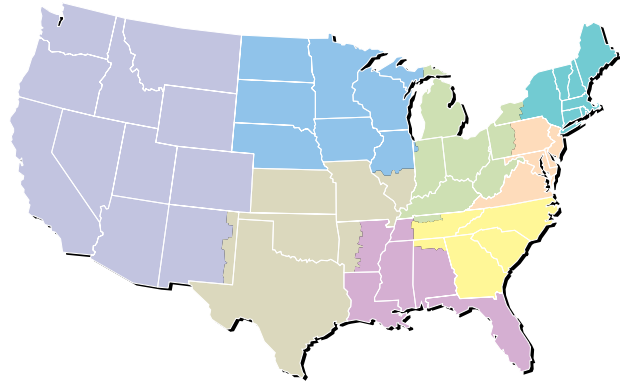
PermaBase was designed to provide extra protection against mold and mildew. When tested by an independent laboratory, PermaBase received the highest possible ratings on ASTM G 21 and D 3273. The use of PermaBase in actual installations may not produce the same results as were achieved in controlled laboratory conditions. No material can be considered "mold-proof," nor is it

National Gypsum Company will not be liable for products claimed to be defective where the defect resulted from causes not within National Gypsum's control, or which arose or occurred after shipment, including but not limited to accidents, misuse, mishandling, improper installation, contamination or adulteration by other materials or goods, or abnormal conditions of temperature, moisture, dirt or corrosive matter.

Any claim that products sold by National Gypsum Company were defective or otherwise did not conform to the contract of sale is waived unless the customer submits it in writing to National Gypsum within thirty (30) days from the date the customer discovered or should have discovered the defect or non-conformance. No legal action or proceeding complaining of goods sold by National Gypsum may be brought by the customer more than one year after the date the customer discovered or should have discovered the defect or problem of which it complains.

certain that any material will resist mold or mildew indefinitely. When used in conjunction with good design, handling and construction practices, PermaBase can provide increased mold resistance. As with any building material, avoiding water exposure during handling, storage and installation, and after installation is complete, is the best way to avoid the formation of mold or mildew.

CUSTOMER SERVICE SALES AREAS



Atlantic Area

Phone: (800) 237-9167
Fax: (877) 252-0430

Central Area

Phone: (800) 252-1065
Fax: (866) 232-0440

Gulf Area

Phone: (800) 343-4893
Fax: (866) 482-8940

Midwest Area

Phone: (800) 323-1447
Fax: (866) 692-8590

Northeast Area

Phone: (800) 253-3161
Fax: (866) 632-1480

Southeast Area

Phone: (800) 548-9394
Fax: (866) 732-1990

Southwest Area

Phone: (800) 548-9396
Fax: (866) 792-7520

Western Area

Phone: (800) 824-4227
Fax: (800) 438-6266

National Accounts

Phone: (800) 440-1230
Fax: (866) 622-3590

Manufactured Housing

Phone: (800) 455-3185
Fax: (800) 639-1714



Perma
BASE[®]
BRAND
Cement Board

permabase.info



PRODUCT
CERTIFIED FOR
LOW CHEMICAL
EMISSIONS:
UL.COM/GG
UL 2818

Corporate Headquarters

National Gypsum Company
2001 Rexford Road
Charlotte, NC 28211
Phone: (704) 365-7300
Web: nationalgypsum.com

Technical Information

Phone: (800) NATIONAL
(800) 628-4662
Fax: (800) FAX-NGC1
(800) 329-6421

National 
Gypsum[®]

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.

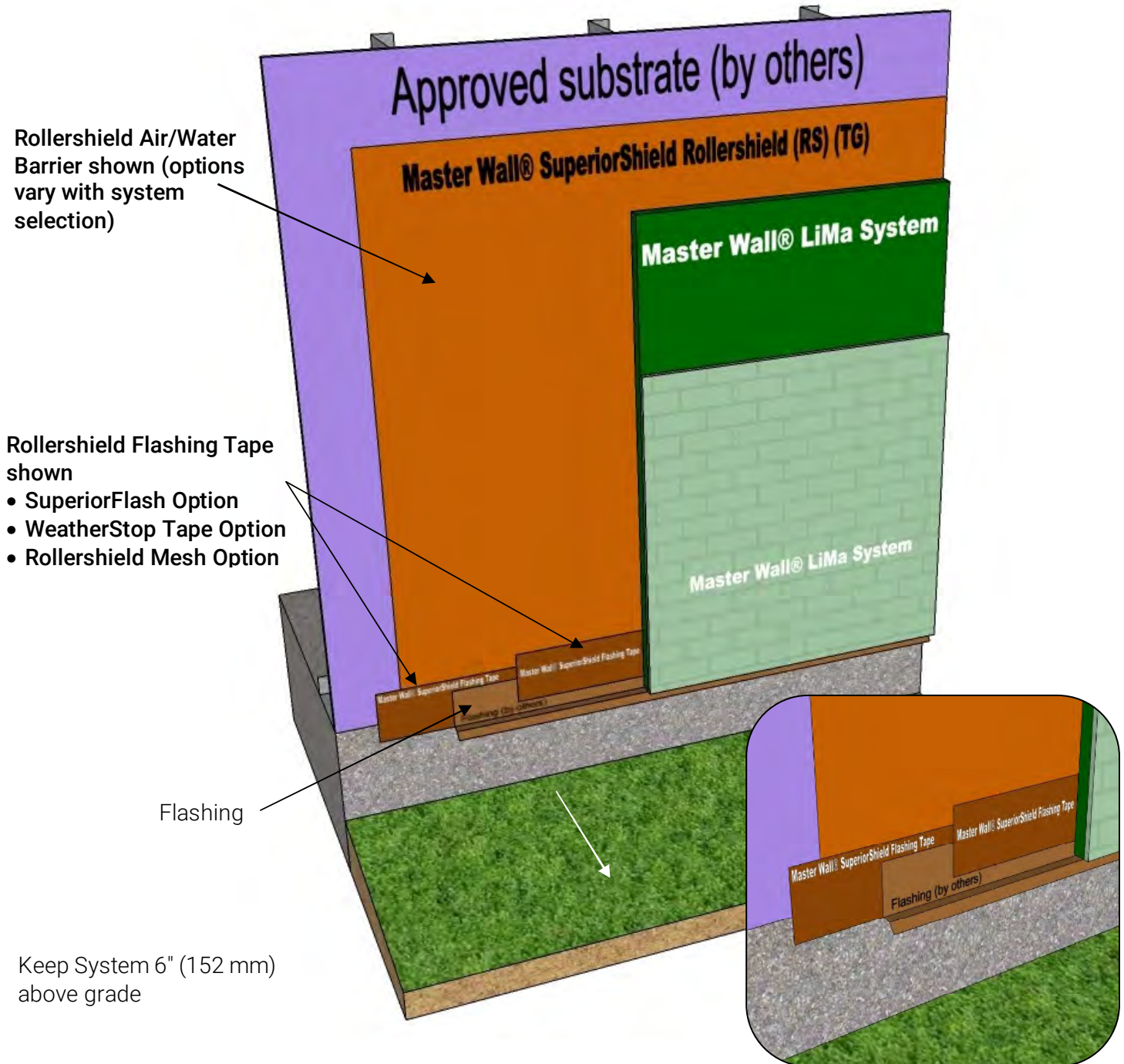
Project:

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.

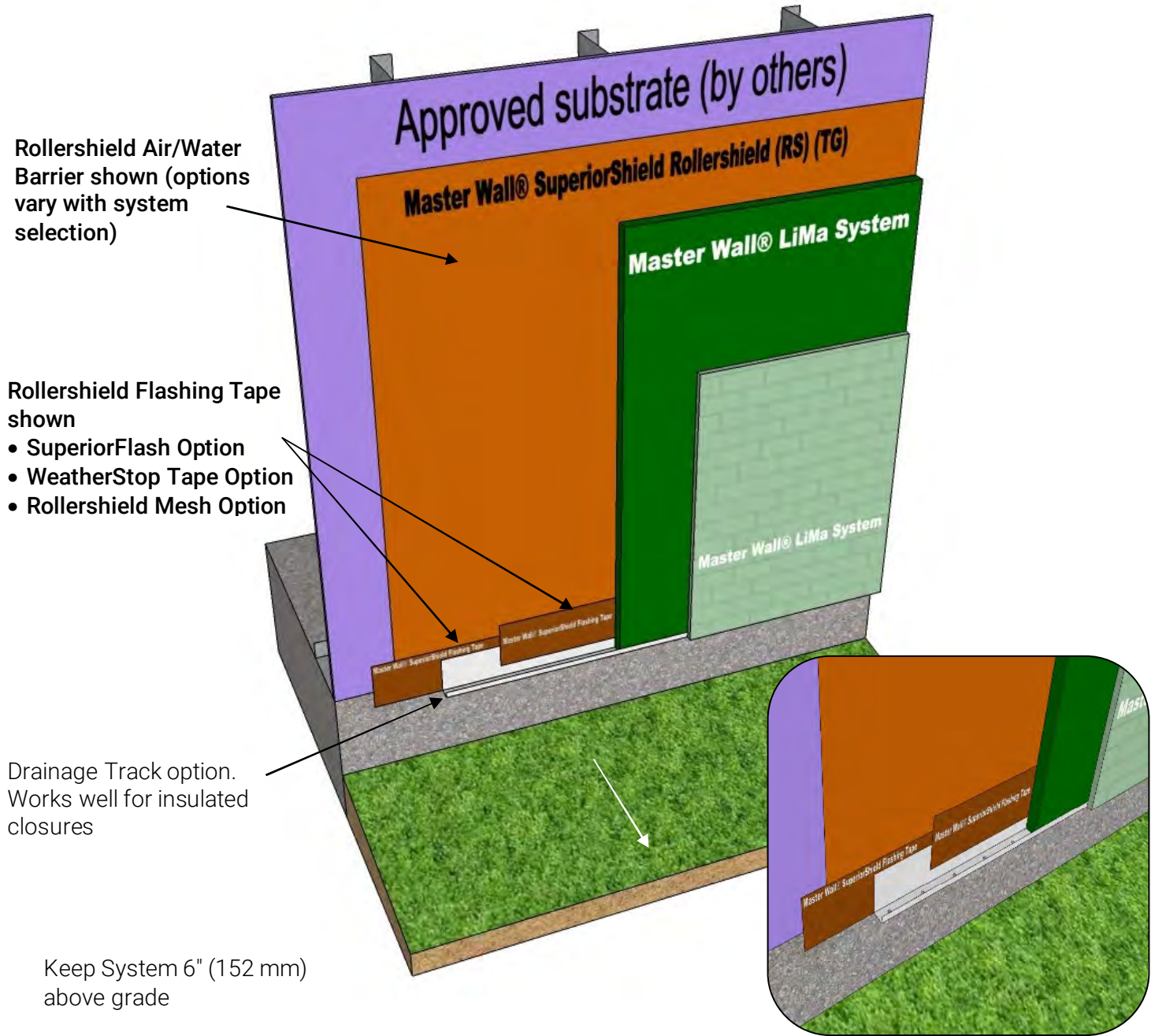
System Detail



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.** ©2020 Master Wall Inc.®

System Detail



LiMa D-02 Detail @ Grade

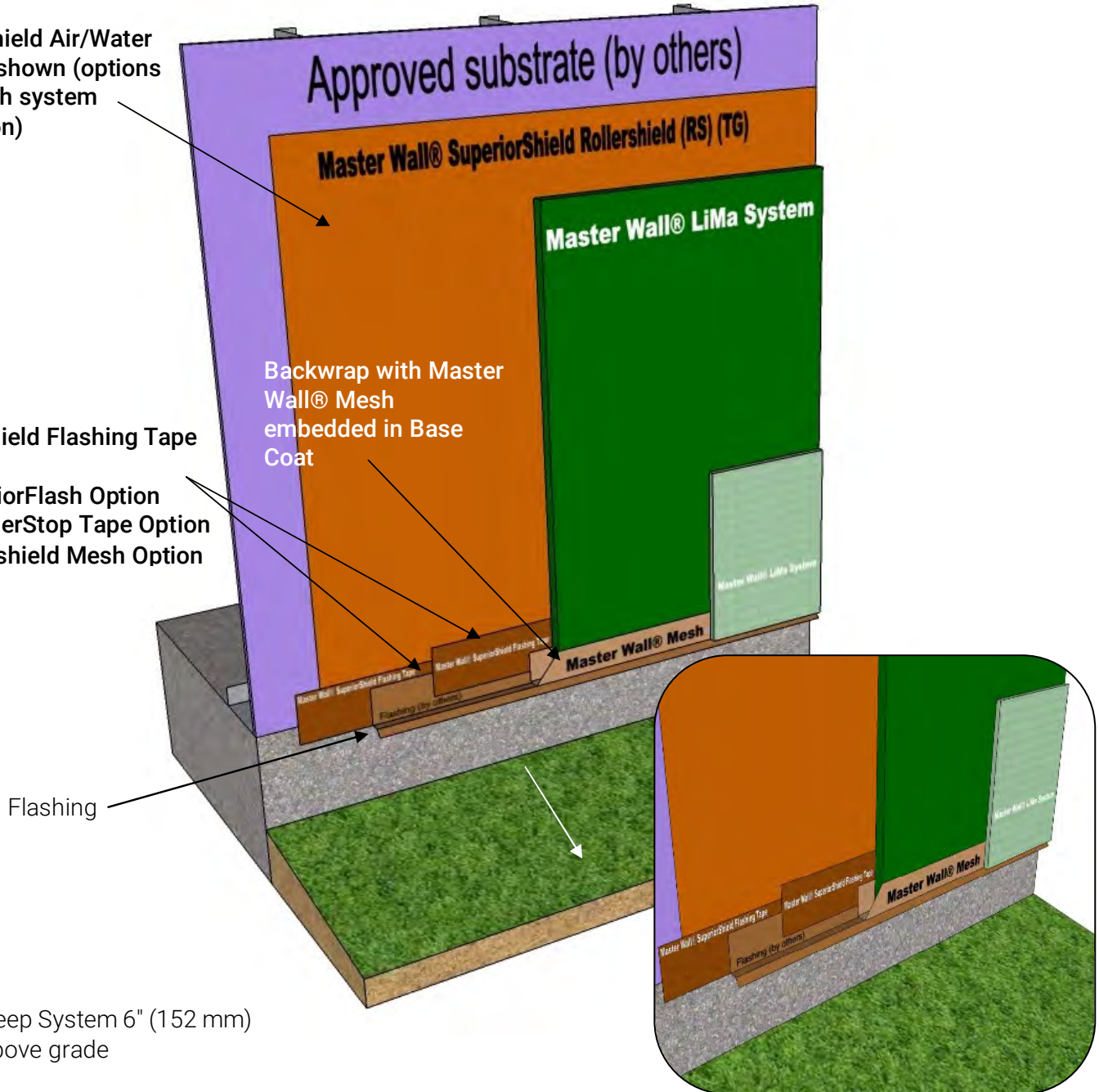
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System Detail

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

Rollershield Flashing Tape shown

- SuperiorFlash Option
- WeatherStop Tape Option
- Rollershield Mesh Option

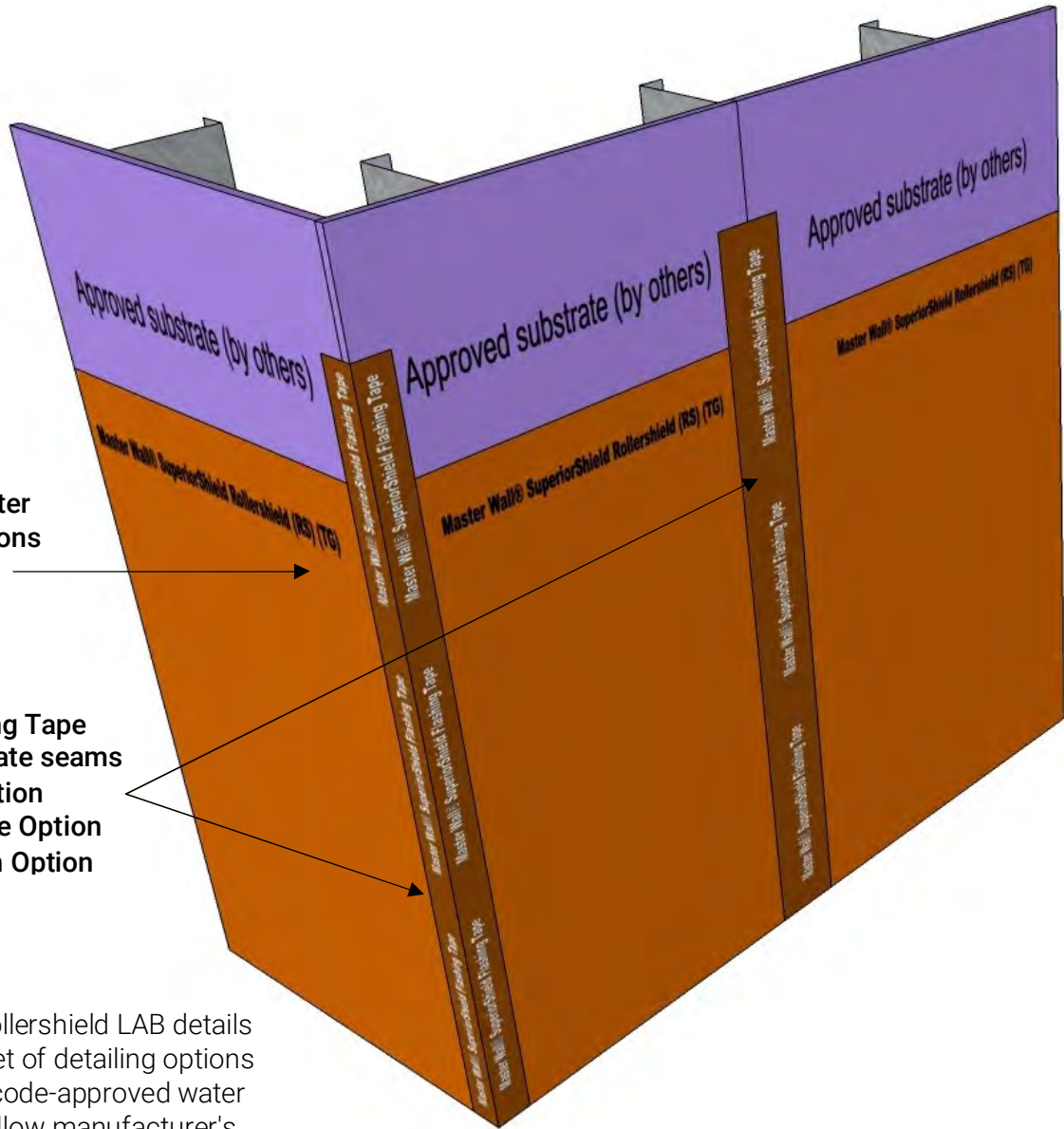


Keep System 6" (152 mm) above grade

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

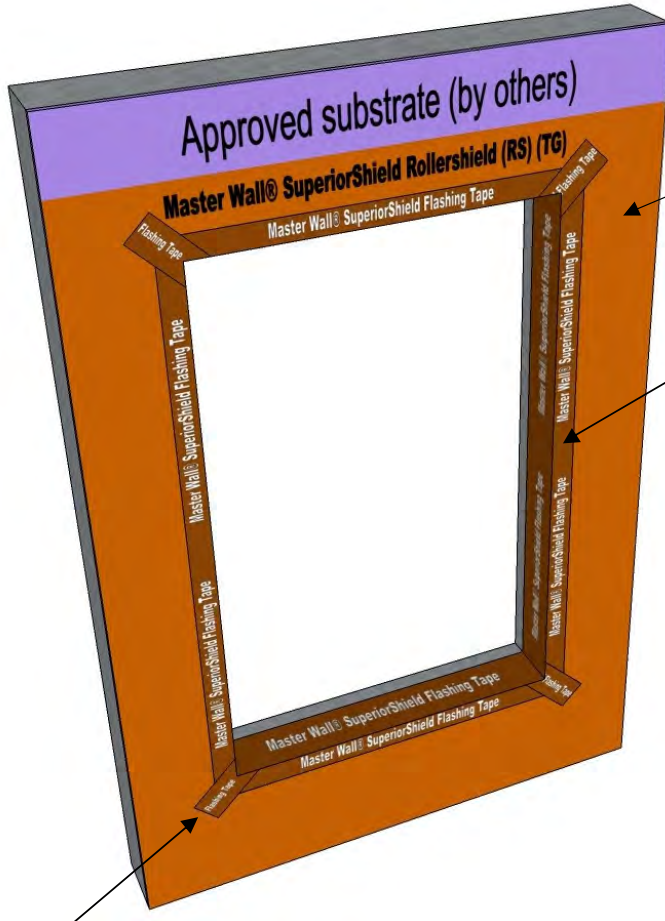
Notes:

- 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



Flanged Window Shown - Install per manufacturer's requirements

Diagonal Rollershield Flashing Tape shown

- SuperiorFlash Option
- WeatherStop Tape Option
- Rollershield Mesh Option

Notes:

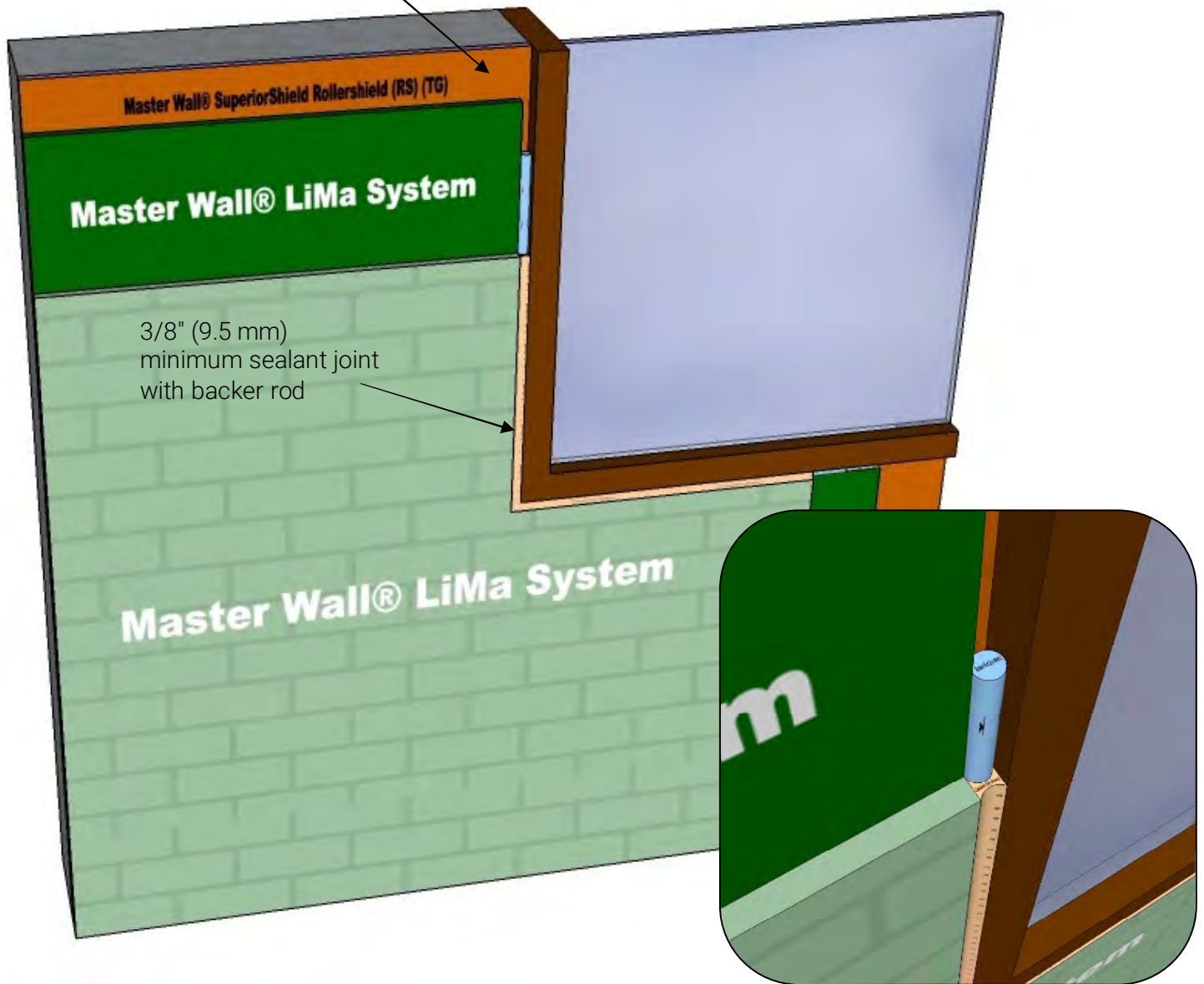
- See the Rollershield LAB details for a full set of detailing options
- For other code-approved water barriers follow manufacturer's instructions

LiMa D-05 Window Opening

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System Detail

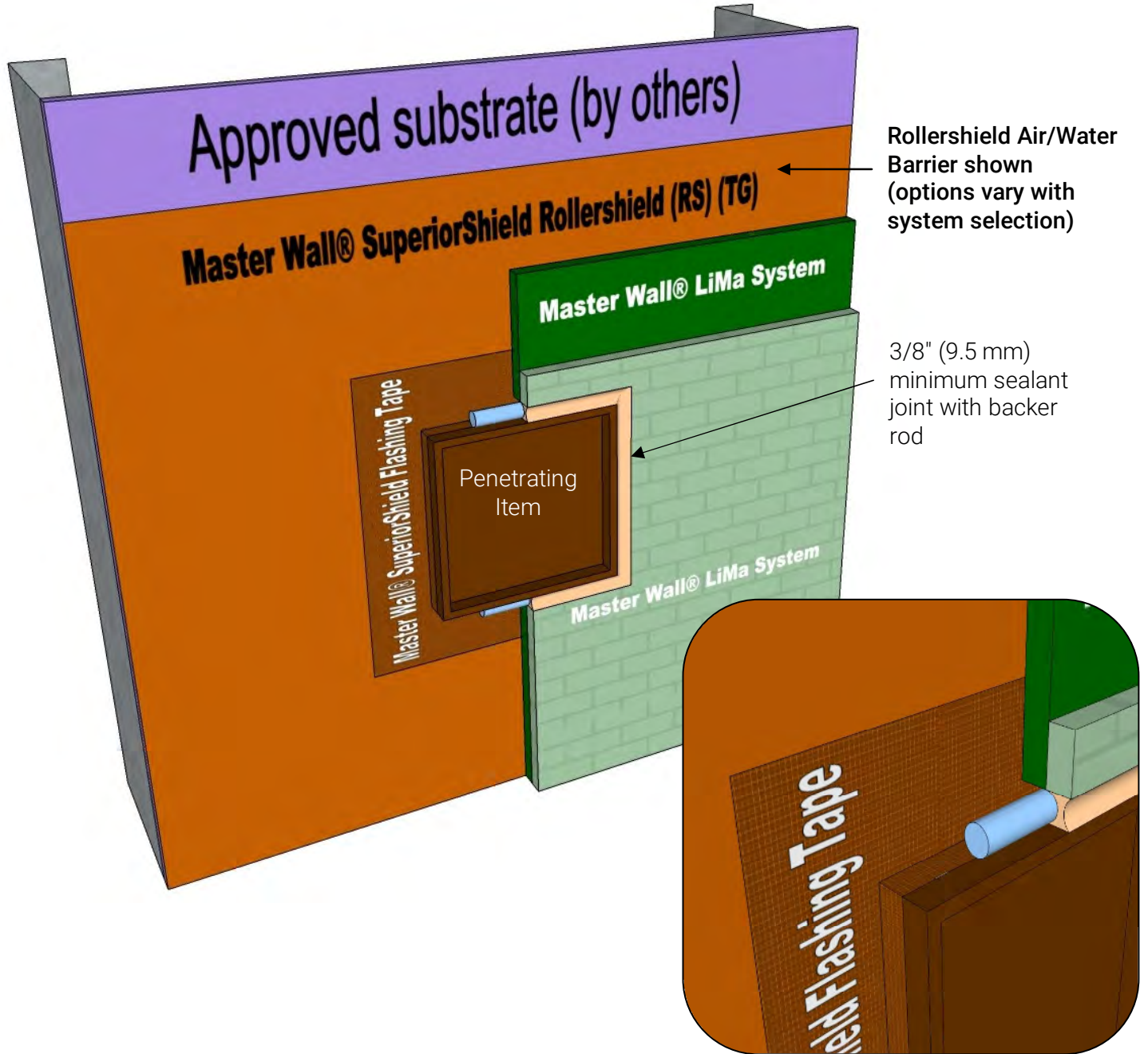
Rollershield Air/Water Barrier shown
(options vary with system selection)



LiMa D-06 LiMa to Window Detail

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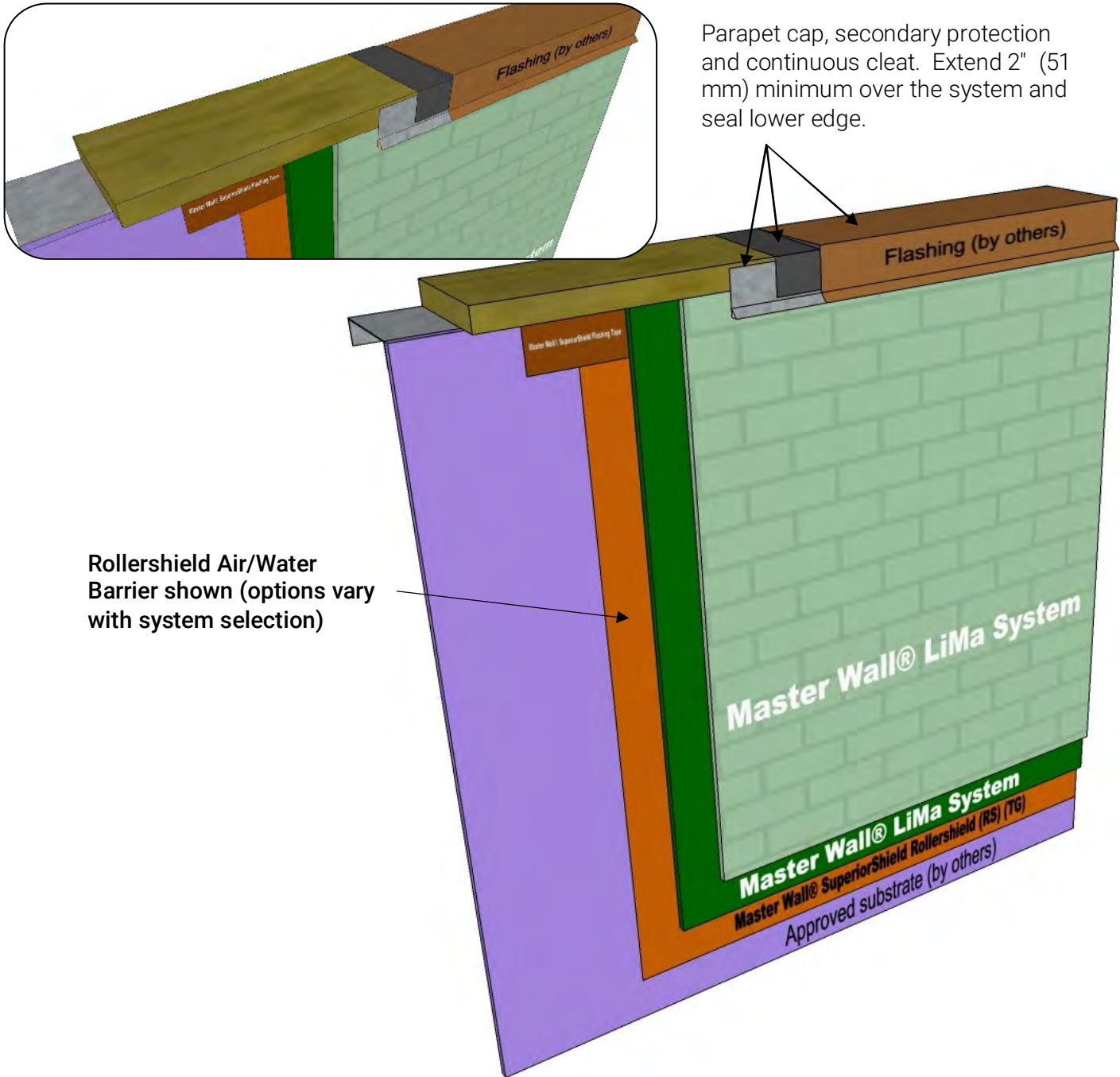
System Detail



LiMa D-07 LiMa to Wall Penetration Detail

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System Detail



LiMa D-08 Parapet Cap Detail

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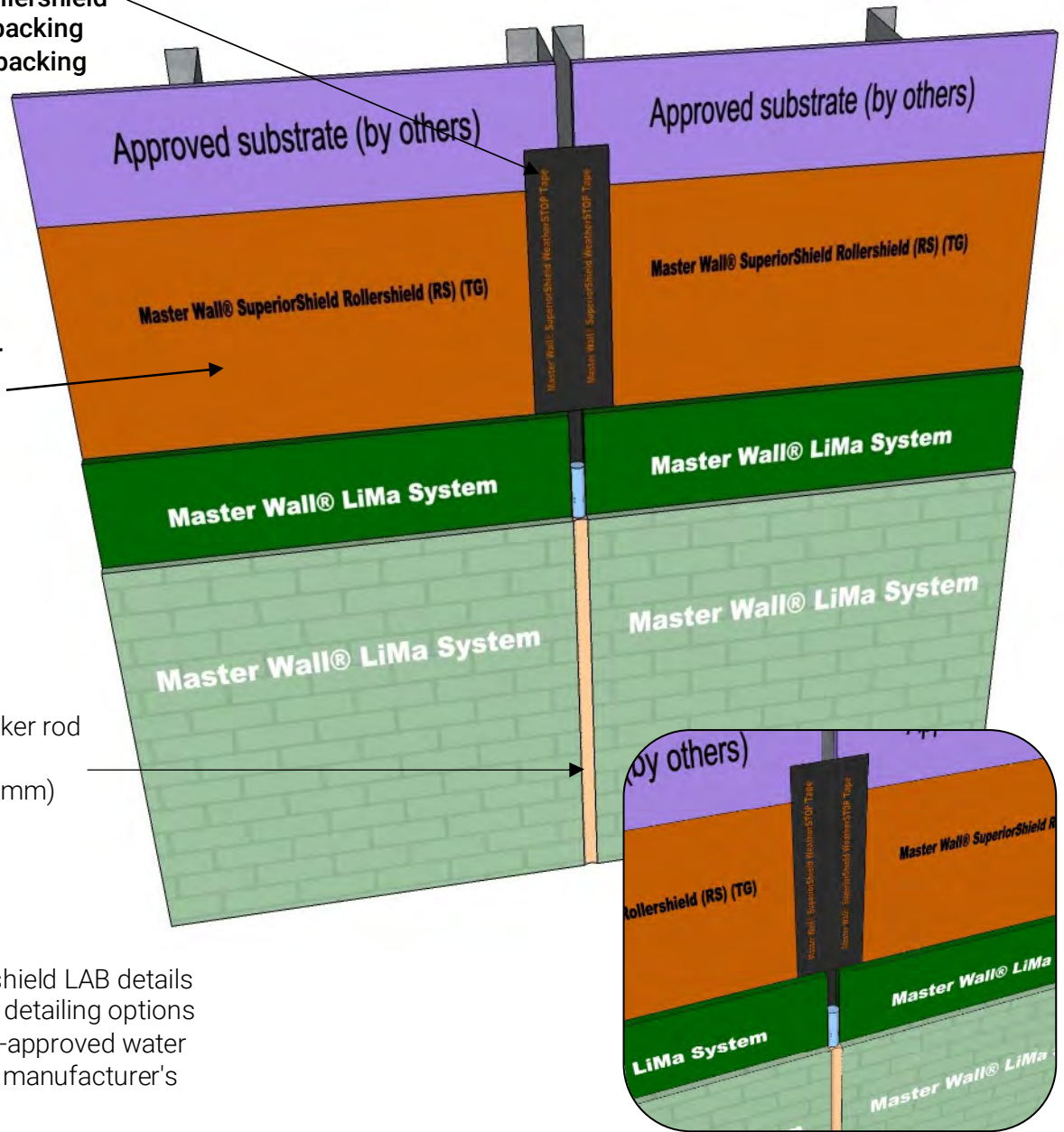
System Detail

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:

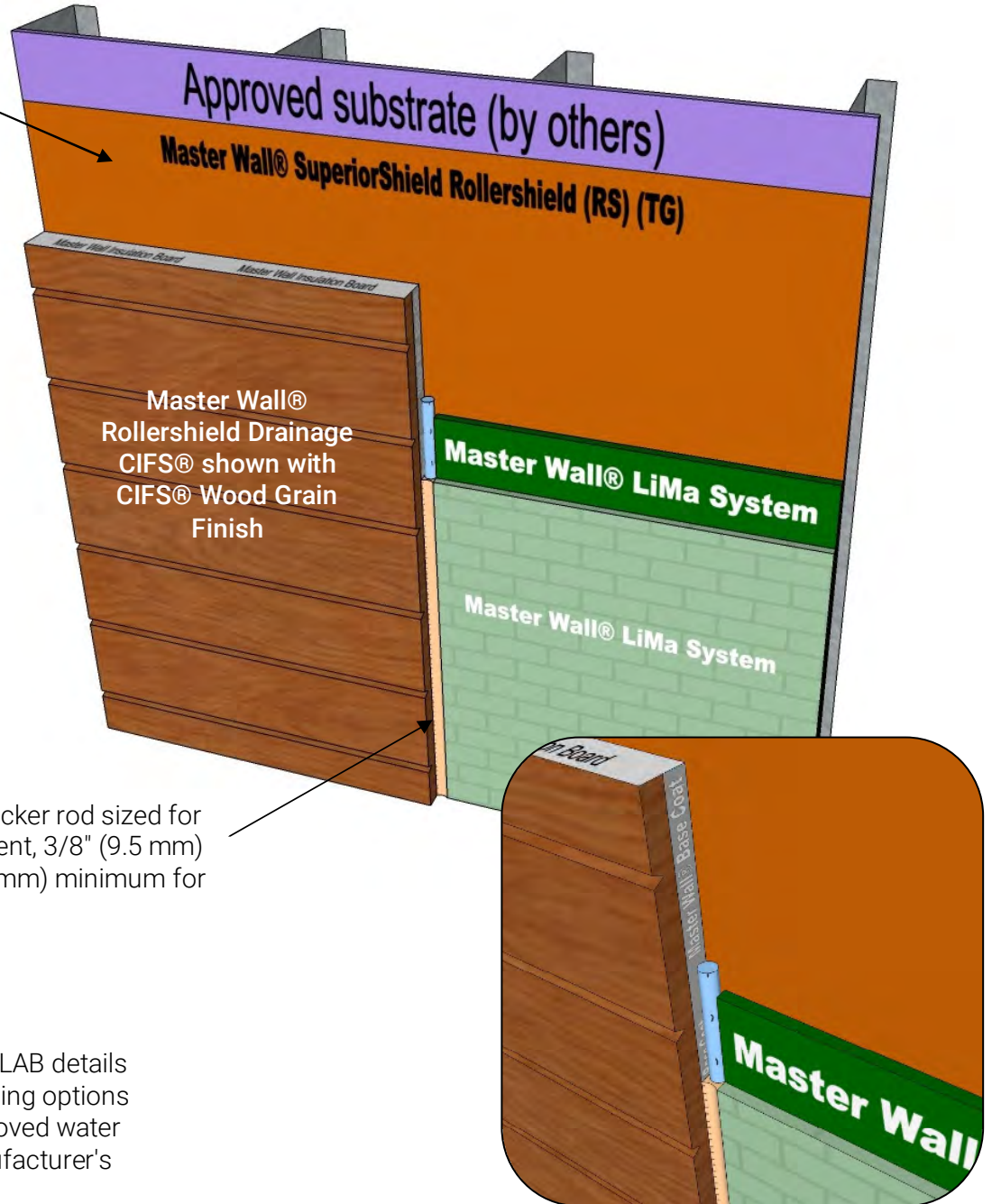
- See the Rollershield LAB details for a full set of detailing options
- For other code-approved water barriers follow manufacturer's instructions

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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