

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

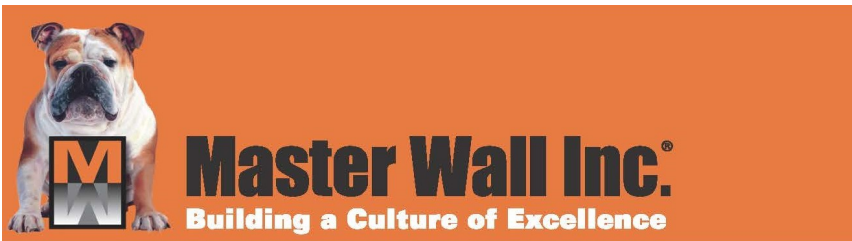
Fortson

GA

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masterwall.com



**SUPERIORSHIELD ROLLERSHIELD
LAB SYSTEM**
Liquid-applied Air/Water Barrier

SuperiorShield Rollershield LAB Liquid-applied Air/Water Barrier system is a series of products for use with claddings other than EIFS that delivers a durable, robust high-performance air and water barrier that is easily applied yet comparatively less expensive than other fluid or peel and stick barriers.

The system offers 100% protection for building walls over all common substrates (Glass Fiber Sheathing, concrete, masonry, plywood, OSB) with no laps, breaks or holes. Window and door openings are flashed as are penetrations

Primary LAB Wall Components

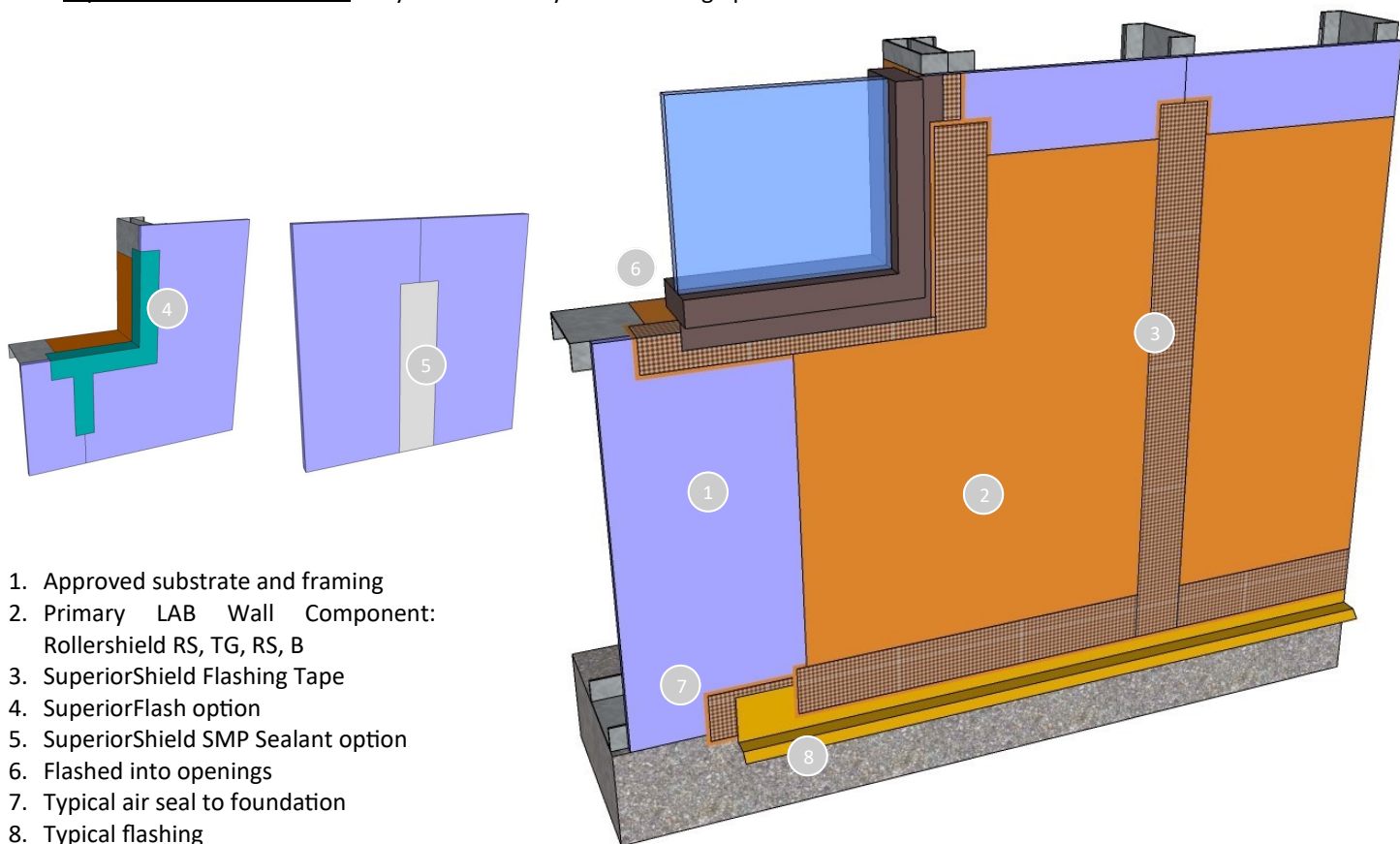
- Rollershield RS (Roll/Spray) – Vapor open with thin to thick application methods to suit project needs
- Rollershield TG (Trowel Grade) – Vapor open trowel grade version of RS
- Rollershield VB (Vapor Barrier) – Vapor closed; roll/spray applied
- Rollershield B (Black) – Darker version of Rollershield RS for use with screen wall applications where it may be visible.

Seaming & Secondary Flashing Options

- SuperiorShield Flashing Tape – Seaming and transition tape embedded in Rollershield products
- SuperiorFlash – STPE seaming and flashing product option that speeds the application process
- SuperiorShield SMP Sealant - Silyl Modified Polyether seaming option

Features & Benefits

- Weather protection as thin as 10 mils
- Seamless with no laps
- Medium to high build options
- Vapor open or closed options
- Screen wall options
- Seaming and flashing options
- Single source warranty options with Master Wall® CIFS® and other systems



1. Approved substrate and framing
2. Primary LAB Wall Component: Rollershield RS, TG, RS, B
3. SuperiorShield Flashing Tape
4. SuperiorFlash option
5. SuperiorShield SMP Sealant option
6. Flashed into openings
7. Typical air seal to foundation
8. Typical flashing

Short Form Specification**1.0 General**

This is a short form specification. Refer to Rollershield LAB specifications and details for additional information.

1.1 System Description

The Master Wall Inc.® SuperiorShield Rollershield LAB System is a liquid applied air and water barrier.

1.2 Design Requirements:

- A. Reference Master Wall® suggested details and architectural drawings for specific detail requirements.
- B. Maximum deflection of substrates shall not exceed L/240.
- C. Typical acceptable substrates include unpainted brick, masonry, concrete, plywood, Oriented Strand Board (OSB) or gypsum sheathings (ASTM C1396 or C1177). Contact Master Wall® for other approved substrates.

1.3 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, except for specific products.

2.0 Products

All components of the Rollershield System shall be manufactured by Master Wall Inc.® and supplied by an authorized distributor.

A. Water Barrier:

1. Rollershield RS (Roll/Spray) – Vapor open air/water barrier
2. Rollershield TG (Trowel Grade) – Vapor open trowel grade version
3. Rollershield VB (Vapor Barrier) – Vapor closed air/water barrier
4. Rollershield B (Black) – Darker version of Rollershield RS

B. Seaming and Flashing

1. SuperiorShield Flashing Tape: A lightweight nonwoven joint treatment material.
2. SuperiorFlash – STPE seaming and flashing product
3. SuperiorShield SMP Sealant - Silyl Modified Polyether seaming product

3.0 Installation

- A. Inspect the substrate to ensure that it is free of all foreign materials that would affect the adhesion of the Rollershield LAB.
- B. Apply the coatings in strict accordance with Master Wall® specifications, product data sheets, architectural drawings and architectural specifications.

Compliance Standards

System complies with 2012-2011 IBC and IRC per IAPMO ER-0384, Tensile Bond ASTM C297/E2134 – min. 28 psi, Freeze-thaw ASTM E2485 – pass, Water Resistance ASTM D2247 – pass, Water Vapor Transmission ASTM E96 Proc. B - Rollershield RS/B (30 perms) Rollershield TG (12 perms) Rollershield VB (0.07/1.35 perms), 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 – pass, ASTM E72 – pass, Restrained Environmental ICC-ES Procedure – pass, Water Penetration ASTM E331 – pass, UV Exposure – pass, Accelerated Aging – pass, Hydrostatic Pressure Test AATCC 127 – pass, Surface Burning Characteristics ASTM E84 – pass, Intermediate Multi-Story Fire Test NFPA 285 – pass, Nail Sealability ASTM D1970 – pass, Heat and Smoke Release Rates ASTM E1354 – pass, ICC-ES AC212 - pass

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. ©2024 Master Wall Inc.®





PRODUCT DATA

SUPERIORSHIELD ROLLERSHIELD VB

SuperiorShield Rollershield VB is the vapor barrier version of our Rollershield Liquid applied Air/Water Barrier (LAB). Rollershield VB is a high quality roll applied flexible air and water barrier. Easily applied with a trowel, brush, roller, hopper gun or airless sprayer. Rollershield VB forms a continuous air, water, and vapor barrier that protects approved substrates from incidental water damage.

FEATURES & BENEFITS

- 100% Coverage
- Class I Vapor Retarder
- Vapor impermeable, 0.07 perms
- Doesn't rattle in the wind
- Used as water barrier and flashing
- Compatible with Rollershield-RS, Rollershield-TG, SuperiorFlash and WeatherSTOP Tape (also Vapor Impermeable)
- Adheres to most common building materials
- Easy to apply, water based for easy cleanup
- Low VOC

Application Temperature: 40°-110°F (5°-43°C) Dry to Touch: 1 hr. Re-coat Time: 2 hrs. Dry Time: 12 hrs. at room temperature, working and drying time will vary with temperature and humidity.

JOB CONDITIONS

Air and substrate temperature for application of Rollershield VB 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. 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/m²)*

Roller: 225-250 (21-23)
Trowel: 100-125 (9-11.6)
Spray: 150-175 (14-16)

**2-coat coverage @ 20 mil dry thickness. All coverage is approximate and depend upon substrate, details and individual application*

Packaging/Shelf Life/Storage

Packaging: 5 gallon (19 L) pail

Shelf Life: 2 years

Storage: Protect from extreme heat - 90°F (32°C), freezing and direct sunlight.

Technical Data

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: 5 perms

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

Nail Sealability, ASTM D1970: Pass

APPLICATION PROCEDURE

Concrete – Must have cured a minimum of 28 days prior to the application of Rollershield VB. If form release agents or curing compounds exist on the surface, they must be removed with a solution of muriatic acid or similar product (with appropriate precautions). Remove any residual acid by flushing with water.

Brick/Masonry – If joints are not struck flush, multiple coats may be required. Contact Master Wall for more information.

Sheathing Applications - Sheathing gaps must be less than 1/4" (6.4 mm). For gaps larger than 1/4" (6.4 mm) WeatherSTOP Tape or Rollershield Flashing Tape may be used. Gap wood-based sheathing per manufacturers recommendations, typically 1/8" (3.2 mm) minimum.

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

Application – Rollershield VB is applied by first treating the joints and fastener locations where sheathing is used, then coating the entire surface with 2-coats of 15-mils wet (10 mils dry) using brush, roller, trowel or airless spray equipment techniques. When using a foam roller, a maximum 3/4" (19 mm) nap is recommended. Apply Rollershield VB in an even, continuous coat, maintaining a wet edge of approximately 15 mils thickness. For moisture protection, Rollershield VB must be applied as a continuous barrier of 20 mils dry thickness with no breaks or skips, although some areas will appear lighter than others due to the application process. The Rollershield VB application need not look like a painted surface.

Joint Treatment—Apply a thin layer of Rollershield VB to the joints and embed SuperiorShield Flashing Tape into the wet mixture and trowel smooth.

Rollershield VB may be flashed into window, door and other openings using the same techniques for sheathing applications. Any remaining gaps should be filled with Rollershield VB and Flashing Tape.

Wall Treatment—Apply Rollershield VB to the wall surface using the foam roller, trowel or by spray applying and backrolling to a uniform thickness of 20 mils with no pinholes or voids.

Clean Up—Tools and equipment can be cleaned with soapy water when Rollershield VB is wet.

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-B and stucco or adhered masonry veneer over metal lath.

Spray Application

Rollershield VB 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.

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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 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

Sealant Bond Compatibility**

Master Wall: SuperiorShield SMP

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

Dow Corning: 795 Silicone**

Pecora Corp.: 864NST, 890NST, 890FTS, 895NSTA, Dynatrol I-XL HybridB

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 & VB

^BWith P120 Primer with Rollershield VB

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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Building a Culture of Excellence

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.

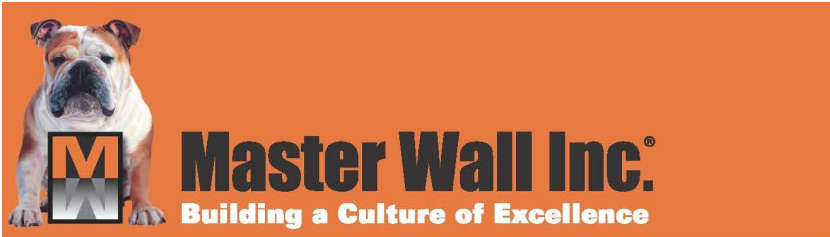
Approved Materials for Embedment

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



SAMPLE
WARRANTY

SuperiorShield Rollershield Liquid Applied Barrier

5 Year Labor & Material Limited Warranty

Master Wall Inc.® warrants the properly designed and installed Rollershield Liquid Applied Air/Water Barrier and materials for 5 years from the date of installation. Master Wall Inc.'s exclusive liability under this warranty is to supply replacement materials and labor or corrective procedures, if it is shown that the materials supplied by Master Wall Inc., were defective when installed by the Master Wall Inc. certified applicator. Remedies shall be solely determined by Master Wall Inc. and no other warranties are expressed or implied. For a valid warranty, the system and products must be installed in accordance with Master Wall Inc.'s written recommendations, specifications, details, bulletins and other project-specific written recommendations. Master Wall Inc. must be notified in writing within 10 business days of the original discovery of the defect.

Master Wall Inc. is not responsible for structural conditions, design conditions beyond those noted in our literature, architecture, engineering or workmanship of any project. Drainage Systems are warranted to drain incidental water for the warranty period. Materials must be properly stored and applied in a timely manner. Workmanship, aesthetics and installation are beyond the scope of this warranty as are any deviations from Master Wall Inc. Documents not specifically approved in writing.

Abuse, misuse, excessive weather or environmental conditions beyond what the products or systems have been tested, designed or approved for is expressly limited. Certain colors with organic pigments are less fade-resistant than others. The building, system and products must be properly maintained in accordance with Master Wall Inc., documents, local environmental conditions and good building practices. In no case is Master Wall Inc. responsible for incidental and consequential damages.

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.



This is not the final warranty. For a valid warranty fill out a warranty request under Tools and Technical at masterwall.com. Warranties are not valid until issued.

PRODUCT AND SYSTEM TESTING



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MASTER WALL® SYSTEMS SPECIFICATION FACT SHEET

- Manufacturer of EIFS, Stucco and Coatings since 1987
- Committed and focused specifically on our industry; privately held and American owned.
- Pioneer in CIFS® (Continuous Insulation and Finish Systems)
- Leader in specialty finishes; CIFS® Wood Grain, CIFS® Brick, Hydrophobic Finishes, Metallics, SuperiorCote coatings
- AWCI Certified EIFS Professional (CEP) accredited Sales and Technical Force
- AIA MasterSpec listed, AIA CES Registered Provider
- Industry Leadership
 - EIMA (EIFS Industry Members Association) – Manufacturer Member and Current President
 - NOCSA (National One Coat Stucco Association) – Manufacturer Member and Current President
 - SMA (Stucco Manufacturer's Association) – Manufacturer Member and Board Member
 - ABAA (Air Barrier Association of America) – Manufacturer Member
 - AWCI (Association of the Wall and Ceiling Industry) – Member
 - FWCCA (Florida Wall & Ceiling Contractors Association) – Member
- Code Compliant EIFS, CIFS® Stucco and Air Barrier Systems (ICC, Miami Dade and Florida Building Code recognized systems)
- Full-service product support including sales and technical aspects of your project
- Labor and Material Limited Warranties exceeding other manufacturers ranging up to 20 years including Single-source envelope warranties with approved Sealant manufacturers.
- DuroTone High Performance Tint Pigments for Improved Color Retention (5-year fade warranty)
- Manufacturing strategically located in Stonecrest GA, Brookshire TX and Payson UT
- Nationwide distributor network that serves most major markets



Master Wall Inc. continuously tests our products and systems to meet the most current building codes.

FIRE TESTING			
Test	Test Method	Criteria	Results
Fire Resistance	ASTM E119	No effect on the fire resistance of a rated wall assembly	See Technical Bulletin MW#168-030111 for assemblies
Ignitability	NFPA 268 (BOCA 99/1407.0)	No ignition at 12.5 kw/m ² at 20 minutes	Pass
Intermediate Multi-Story Fire Test	NFPA 285 (UBC 26-9)	<ol style="list-style-type: none"> 1. Resist flame propagation over the exterior surface 2. Resist vertical spread of flame within combustible core/component of panel from one story to the next 3. Resist vertical spread of flame over the interior surface from one story to the next 4. Resist lateral spread of flame from the compartment of fire origin to adjacent spaces 	Pass
Surface Burning Characteristics— Base Coat, Mesh and Finish	ASTM E84	All components shall have a: Flame Spread < 25 Smoke Developed < 450	Flame Spread = 0 Smoke Developed = 0
Surface Burning Characteristics— Rollershield	ASTM E84	All components shall have a: Flame Spread < 25 Smoke Developed < 450	Flame Spread = 5 Smoke Developed = 5
Heat and Smoke Release Rates for Rollershield Air/ Water Barrier	ASTM E1354, IBC Section 1403.5, Exception 2 Requirements	Peak Heat Release Rate <150 kWm ² Total Heat Release Rate <20 MJ/m ² , Effective Heat of Combustion <18 MJ/kg	RS: Peak Heat Release Rate = 32 kWm ² , Total Heat Release Rate = 3.6 MJ/m ² , Effective Heat of Combustion = 2.5 MJ/kg, VB: Peak Heat Release Rate = 336 kWm ² , Total Heat Release Rate = 8.8 MJ/m ² , Effective Heat of Combustion = 9.3 MJ/kg

MESHES AND INSULATION BOARD			
Test	Test Method	Criteria	Results
Reinforcing Mesh Alkali Resistance of Reinforcing Mesh	ASTM E2098 (formerly EIMA 105.01)	>21dN/cm (120 pli) retained tensile strength after exposure	Pass
EPS (Physical Properties)			
Density	ASTM C303, D1622	15.2-20.0 kg/m ³ (0.95-1.25 lb/ft ³)	Pass
Thermal Resistance	ASTM C177, C518	4.0 @ 4.4 °C (40 °F)	Pass
Water Absorption	ASTM C272	3.6 @ 23.9 °C (75 °F)	
Oxygen Index	ASTM D2863	2.5 % max. by volume	Pass
Compressive Strength	ASTM D1621 Proc. A	24% min. by volume	Pass
Flexural Strength	ASTM C203	69 kPa (10 psi) min.	Pass
Flame Spread	ASTM E84	172 kPa (25 psi) min.	Pass
Smoke Developed		25 max. 450 max.	Pass Pass



EIFS & COATING

Test	Test Method	Criteria	Results
Abrasion Resistance	ASTM D968	No deleterious effects after 500 liters (528 quarts)	Pass
Accelerated Weathering	ASTM G155 Cycle 1	No deleterious effects after 2000 hours	Pass
Accelerated Weathering	ASTM G23 (G152 & 153)	No deleterious effects after 2000 hours	Pass
Accelerated Weathering	ASTM G53	No deleterious effects after 2000 hours (QUV)	Pass
Freeze-Thaw	ASTM E2485 (formerly EIMA 101.01)	No deleterious effects after 60 cycles	Pass
Freeze-Thaw	ASTM C67 modified/ICBO AC24	No deleterious effects after 10 cycles	Pass
Freeze-Thaw	ASTM E2485/ICC-ES Proc. ICC ES (AC 235)***	No deleterious effects after 10 cycles	Pass
Mildew Resistance	ASTM D3273	No growth during 28 day exposure period	Pass
Water Resistance	ASTM D2247	No deleterious effects after 14 days exposure	Pass
Impact	ASTM D5420	Gardner Impact Falling Weight	Pass
Salt Spray Resistance	ASTM B 117	No deleterious effects after 300 hours exposure	Pass
Water Penetration	ASTM E331 ICC ES (AC 235)***	No water penetration beyond the inner-most plane of the wall after 15 minutes at 137 Pa (2.86 psf)	Pass at 2.86 psf (137 Pa), 6.24 psf (299 Pa), and 12.0 psf (575 Pa) consecutively
Water Vapor Transmission	ASTM E 96 Water Method	Vapor permeable perm (ng/Pa.s.m ²)	EPS 5 perm-inch (114) Base Coat* 12 (679) Finish** 12 (674)
Component-Specific Weather Protection	IBC 1403	2-hour water test of EIFS and specific components	Pass
Drainage Efficiency	ASTM E 2273 ICC ES (AC 235)***	Minimum Drainage Efficiency of 90%	Aggre-flex Drainage 97.8% Rollershield Drainage 99.2% QRW1 Drainage 97.8%
* Base Coat perm value based on Master Wall F&M ** Finish perm value based on Master Wall Perfect Texture *** AC 235 (ASTM E 2568) – Acceptance Criteria for EIFS Clad Drainage Wall Assemblies			
Tensile Bond	ASTM C297/E2134	Minimum 15 psi (104 kPa) – substrate or insulation failure	Plywood/EPASA 67 psi (464) OSB/ EPASA 22 psi (152) Brick/F&M 105 psi (728) Concrete/F&M 94 psi (651) Gypsum/F&M 30 psi (208)
Tensile Bond	ASTM D897	Bond strength before and after 2000 hours florescent UV condensation weathering.	Before 24.6 psi After 22.7 psi
Transverse Wind Load	ASTM E330	Withstand positive and negative wind loads as specified by the building code	Pass. Assemblies vary from 68-287 psf*
* Ultimate wind loads – contact Master Wall for specific assemblies.			



IMPACT RESISTANCE (ASTM E2486/EIMA 101.86)

Description	OZ/SY	IN-LB Results	Joules	EIMA Classification
Standard Mesh	4.5	50-89	6-10	Medium
Hi-Tech Mesh	6.0	50-89	6-10	Medium
Medium Mesh	10.4	50-89	10-17	Medium
Medium & Standard Mesh	10.4 & 4.5	90-150	10-17	High Impact
Strong & Standard Mesh	15.0 & 4.5	Over 150	>17	Ultra High Impact
Ultra & Standard Mesh	21.0 & 4.5	Over 150	>17	Ultra High Impact

CEMPLASTER FIBERSTUCCO

Test	Test Method	Criteria	Results
Finishes & Coatings	Varies		Reference EIFS & Coatings Data
Freeze-Thaw	ICC AC11	No deleterious effects after 10 cycles	Pass
Transverse Load	ICC AC11/ASTM E330	Withstand positive and negative wind loads as specified by the building code	Pass. Assemblies vary from 81-124 psf*
Compressive Strength	ASTM C109	Average load for cured sample	1910 psi
Fire Resistance	ASTM E119	No effect on the fire resistance of a rated wall assembly	See Technical Bulletin MW#168-030111 for assemblies
Combustibility	ASTM E136	Standard Test Method for Assessing Combustibility of Materials in a Vertical Tube Furnace at 750°C, Option A	Pass
Accelerated Weathering	ASTM G26/G155	No deleterious effects after 2000 hours	Pass

* Ultimate wind loads – contact Master Wall for specific assemblies.



ROLLERSHIELD LAB (LIQUID APPLIED AIR/WATER BARRIER)

Test	Test Method	Criteria	Results
Solids Content	Calculation		Rollershield RS – 69.52% solids by weight (55.05% by volume), Rollershield TG – 73.85% solids by weight (60.12% by volume), Rollershield VB – 68.19% solids by weight (52.97% by volume)
Tensile Bond	ASTM C297/E2134 ICC ES (AC 212)*	Minimum 15 psi (104 kPa)	Dens Glass Gold 31 (215), Exterior Gypsum 28 (194), OSB 40 (277), Plywood 79 (563), Cement Board 70 (485), Copper 185 (1282), Galvanized steel 180 (1248), PVC 168 (1165), Aluminum 184 (1275), Coated Aluminum 203 (1407), Stainless Steel 183 (1269)
Freeze-thaw	ASTM E2485/ICC-ES Proc. ICC ES (AC 212)*	No deleterious effects after 10 cycles	Pass: Plywood, Cement Board, OSB, Exterior Gypsum (ASTM C79/C1396) and Dens Glass Gold (ASTM C1377) substrates
Water Resistance	ASTM D2247 ICC ES (AC 212)*	No deleterious effects after 14 days exposure ¹	Pass: Plywood Cement Board, OSB, Exterior Gypsum (ASTM C79/C1396) and Dens Glass Gold (ASTM C1377) substrates
Water Vapor Transmission	ASTM E96 Proc. B ICC ES (AC 212)*	Vapor Permeable	30 perms (Rollershield RS) ² 12 perms (Rollershield TG) 0.07 perms desiccant (A), 1.35 perms water (B)(Rollershield VB)
Air Permeance	ASTM E2178	No ICC or ANSI/EIMA Criteria ASHRAE/IECC max. 0.004 cfm/ft ² @ 1.57 psf	0.001 cfm/ft ² @ 1.57 psf 0.001 L/s/m ² @ 75 Pa
Air Leakage	ASTM E2357	No ICC or ANSI/EIMA Criteria ASHRAE/IECC max. 0.04 cfm/ft ² @ 1.57 psf	0.0006 cfm/ft ² @ 1.57 psf, 0.003 L/s/m ² @ 75 Pa 0.04 cfm/ft ² @ 6.24 psf, 0.02 L/s/m ² @ 300 Pa
Structural Performance	ASTM E1233 Proc. A ICC ES (AC 212)*	Minimum 10 positive cycles at 1/240 deflection; No cracking in field, at joints or interface with flashing	Pass
Racking	ASTM E72 ICC ES (AC 212)*	No cracking in field, at joints or interface with flashing at net deflection of 3.2 mm (1/8 inch)	Pass
Restrained Environmental	ICC-ES Procedure ICC ES (AC 212)*	5 cycles; No cracking in field, at joints or interface with flashing	Pass
Water Penetration	ASTM E331 ICC ES (AC 212)*	No water penetration beyond the inner-most plane of the wall after 15 minutes at 137 Pa (2.86 psf)	Pass
UV Exposure	ICC ES Proc. ICC ES (AC 212)*	210 hours of exposure, rated for 6 months of exposure	Pass
Accelerated Aging	ICC ES Proc. ICC ES (AC 212)*	25 cycles of wetting and drying	Pass
Hydrostatic Pressure Test	AATCC 127 ICC ES (AC 212)*	ICC: 549 mm (21.6 in) water column for 5 hours	Pass
Surface Burning Characteristics	ASTM E84	Flame Spread < 25 Smoke Developed < 450	Pass
Intermediate Multi-Story Fire Test	NFPA 285 (UBC 26-9)	No flame spread with up to 4" insulation	Pass
Nail Sealability	ASTM D1970	Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection	Pass (22 mils)
Heat and Smoke Release Rates	ASTM E1354, IBC Section 1403.5, Exception 2 Requirements	Peak Heat Release Rate <150 kW/m ² , Total Heat Release Rate <20 MJ/m ² , Effective Heat of Combustion <18 MJ/kg	RS: Peak Heat Release Rate = 32 kW/m ² , Total Heat Release Rate = 3.6 MJ/m ² , Effective Heat of Combustion = 2.5 MJ/kg, VB: Peak Heat Release Rate = 336 kW/m ² , Total Heat Release Rate = 8.8 MJ/m ² , Effective Heat of Combustion = 9.3 MJ/kg

* (AC212 – Acceptance Criteria for Water-Resistive Coatings Used as Water-Resistive Barriers over Exterior Sheathing, also referred to as ASTM E 2570

1. No cracking, checking, rusting, crazing, erosion, blistering, peeling, or delamination when viewed under 5x magnification
2. Defined as a Class III vapor retarder per the 2015 IBC and IRC

