
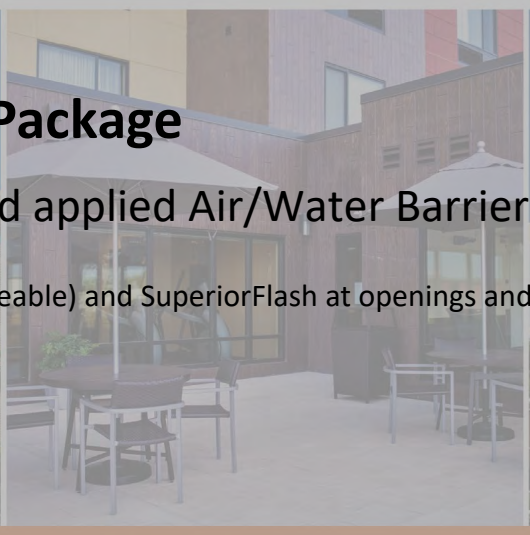
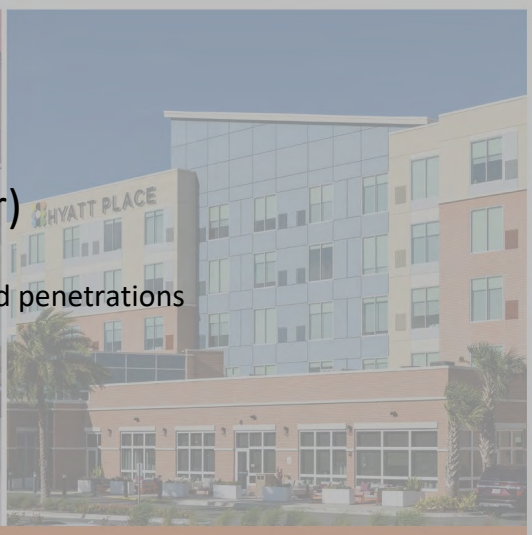

Project Submittal Package

Rollershield LAB (Liquid applied Air/Water Barrier)

with Rollershield-RS (Vapor Permeable) and SuperiorFlash at openings and penetrations

Project:

Location:

Architect:

General Contractor:

Applicator:

Master Wall Inc.®




Long Form

✔ System Data Sheets ✔ Product Data Sheets ✔ Sample Warranty

✔ Specifications ✔ Details __ Web Link (click here)

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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

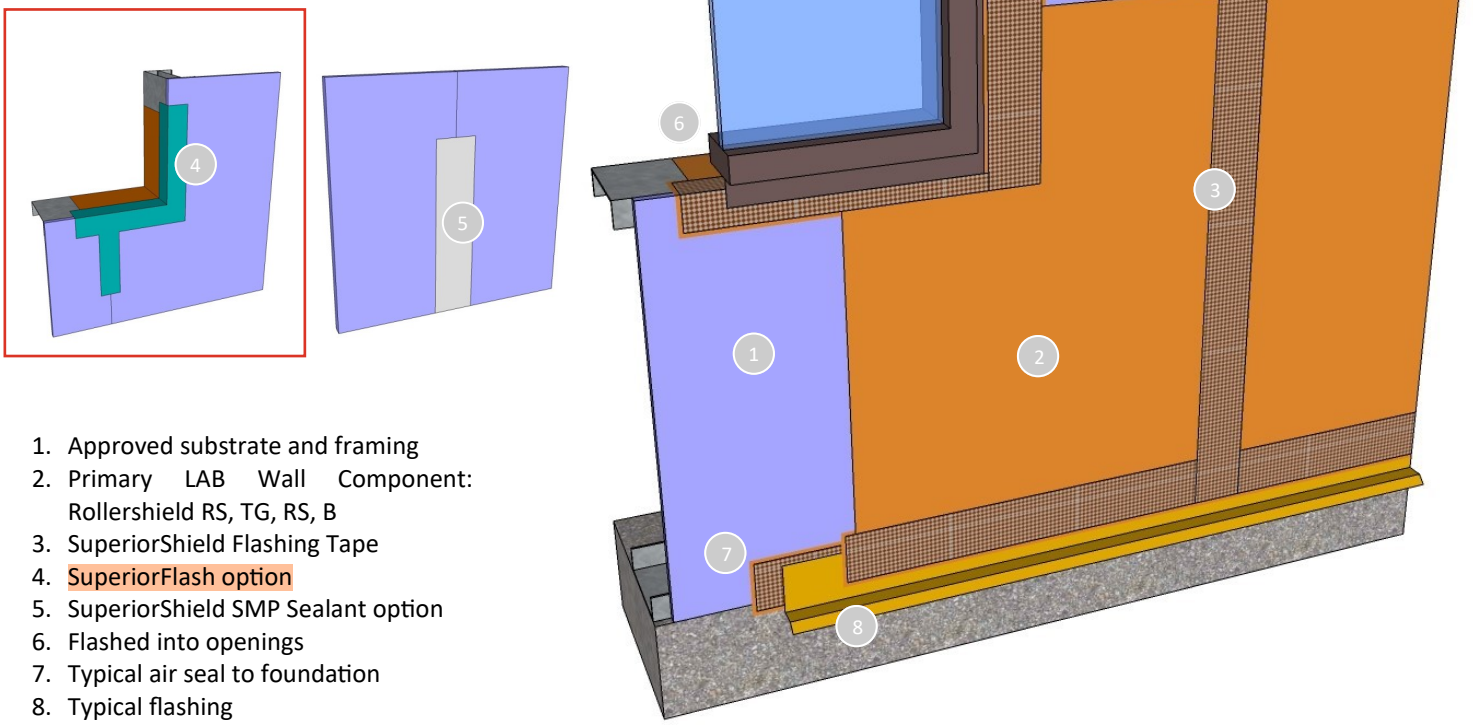
- *Rollershield RS* (Roll/Spray) – Vapor open with thin to thick application methods to suit project needs
- *Rollershield TG* (Trowel Grade) – Vapor open trowel grade version of RS
- *Rollershield VB* (Vapor Barrier) – Vapor closed; roll/spray applied
- *Rollershield B* (Black) – Darker version of Rollershield 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/ft^2 @ 1.57 psf (0.001 L/s/m^2 @ 75 Pa), Air Leakage ASTM E2357 - 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 – 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

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

Application Temperature: 25°-110°F (-3.8°-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 40ºF (5°C) or higher and must remain 40ºF (5°C) or higher for a minimum of 24 hours unless special procedures are used. 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 for a single coat of 15 mils wet film thickness (WFT), 10 mils dry 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.

APPLICATION PROCEDURE

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

Brick/Masonry – If joints are not struck flush, multiple coats may be required. Porous CMU may require additional coats.

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

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

Application – Rollershield-RS is applied by first treating the joints and fastener locations where sheathing is used, then coating the entire surface using brush, roller, trowel, or airless spray equipment techniques. When using a foam roller, a maximum ¾" (19 mm) nap is recommended. Apply in an even, continuous coat, maintaining a wet edge of approximately 15 mils wet film thickness (WFT). 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 WFT, 10 mils dry with no pinholes or voids.

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
[A]With P120 Primer with Rollershield RS & TG
[B]With P120 Primer with Rollershield VB

SPECIALTY APPLICATION - MEDIUM AND HIGH BUILD

Application for Medium-Build Specification: apply one or two coats to achieve minimum 20 mils wet film thickness (WFT). If applied by roller apply two coats to achieve minimum 20 mils WFT. For CMU substrates apply two or three coats to achieve 20-60 mils WFT.

Application for High-Build Specification: apply two or three coats to achieve 40 mils WFT. If applied by roller apply three or more coats as needed. For CMU substrates apply multiple coats to achieve 40-60 mils WFT.

IMPORTANT: the condition of the substrate may dictate thicker application or more coats to achieve a VOID and PINHOLE FREE SURFACE, particularly on substrates like concrete masonry where CMU composition, unit weight (lightweight or normal weight), porosity, joint profile, and other variables may exist. For “rough” CMU wall surfaces level with Master Wall Base Coat before applying the coating. Use the mock-up and site tests as the basis for the work. Some highly absorbent glass mat gypsum sheathing substrates may require back rolling to achieve a VOID and PINHOLE FREE surface. Avoid excess film build-up of wet material to prevent sag, especially on non-porous surfaces and during cold or damp weather. Work away from sun during application.

SPECIALTY APPLICATION - COLD WEATHER

Special Instruction for Cold Temperature Application: Master Wall Rollershield may be applied at temperatures less than 40° down to 25°F (4° down to -3.8°C), provided certain conditions are met:

1. Pre-condition Rollershield-RS to 65°-75°F (18°-24°C) for a minimum of 24 hours.
2. Confirm and maintain substrate and ambient temperatures are minimum 25°F (- 3.8°C) and rising at the time of application and do not fall below 25°F (-3.8°C) until Rollershield-RS is fully dry.
3. Apply Rollershield-RS over standard sheathing substrates – glass mat gypsum, plywood, or OSB.
4. Confirm substrate surfaces are frost-free, dry and remain dry throughout the application and curing process.
5. Apply Rollershield-RS at a wet film thickness of no greater than 15 mils WFT.
6. Apply Rollershield-RS with Master Wall SuperiorShield Flashing Tape for joint and rough opening treatments.
7. Apply in dry weather and protected from rain or other precipitation for at least 24 hours and relative humidity (RH) remains at or below 50%. IMPORTANT: Final water-resistive barrier and air barrier material properties, and film toughness, depend on temperatures rising above freezing.

COLD WEATHER LIMITATIONS

Application range is at ambient temperatures between 25° and 100°F (-3.8° and 38°C) during application and drying period. Strictly adhere to Special Instructions for Cold Temperature Application if installing below 40°F (4°C).

Do not apply if substrate or ambient temperature is less than 25°F (-3.8°C), or if temperatures will go below 25°F (-3.8°C) at any time during the application or drying period.

Do not apply if the surface temperature is less than 5°F (2.8°C) above the ambient dew point temperature.

Technical Data

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

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/ft^2 @ 1.57 psf, 0.001 L/s/m2 @ 75 Pa

Air Leakage, ASTM E2357: 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/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 kWm^2, Total Heat Release Rate = 3.6 MJ/m^2, Effective Heat of Combustion = 2.5 MJ/kg

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

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.

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.

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.

SUPERIORSHIELD FLASHING TAPE

PRODUCT DATA

APPLICATION PROCEDURE

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

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

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

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

VOC: Less than 50 g/L.

Approved Materials for Embedment

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

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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SuperiorFlash at openings and penetrations

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PRODUCT DATA

SUPERIORSHIELD SUPERIORFLASH

Master Wall Inc.® SuperiorShield SuperiorFlash is a gun-grade flashing and waterproofing. Formulated with STPE polymers, SuperiorFlash uses moisture curing to produce a highly durable, seamless, elastomeric flashing membrane that is compatible with our Rollershield RS and TG products. Fast curing it allows for same day installation of windows, doors and other wall assembly, waterproofing or air barrier components.

FEATURES & BENEFITS

- One Step - Eliminates the need for reinforcement in Rollershield LAB applications at corners and seams
- Bonds directly to damp or dry surfaces
- Moisture curing, cures in wet weather
- Cold weather applications down to 32°F (0°C)
- Solvent free. Isocyanate free. Phthalate free.
- Service temperatures: –75°F to 300°F (–59°C to 149°C).

JOB CONDITIONS

Surface and ambient temperatures should ideally be 40°F (4°C) and rising and below 110°F (43°C) during application and drying. Wind, humidity and high temperatures will accelerate drying.

Hot Weather Precautions: If air or surface temperatures exceed 95°F (35°C), apply to shaded surfaces and before daytime air and surface temperatures reach their peak. Hot surfaces may be cooled with a mist of fresh water. Keep containers closed and out of direct sunlight when not in use.

Cold Weather Conditions: May be applied to frost-free substrates at temperatures below 32°F (0°C). Product will not start curing and drying until temperature rises to and remains above 32°F (0°C).

Low Humidity Conditions: Curing may take longer than 12 hours. Lightly misting treated surfaces with fresh water will accelerate curing.

SuperiorFlash® may be applied to damp surfaces and tolerates rain immediately after application, do not apply to surfaces with standing water or frost.

PREPARATION

To ensure best results, apply to clean surfaces free of contaminants. Chemical residues, surface coatings or films may adversely affect adhesion. Pressure-treated wood and other contaminated surfaces should be cleaned with a solvent wipe before application. Protect people, vehicles, property, plants and all other surfaces not intended to receive SuperiorFlash. Remove and replace damaged sheathing. In rough openings, prime all raw gypsum board edges with BA57. Any gaps or joints greater than 1 inch should be structurally repaired or readied for an appropriate transition membrane. Ensure positive drainage at all rough openings.

Application Conditions

Application Temperature: 32°-110°F (0°-43°C)

Working Time: 1/4 hr

Cure Time: 12 hrs at room temperature, working and drying time will vary with temperature and humidity. Humidity and water speed cure.

Coverage per sausage (sf/sm)*

15–17 sq.ft. (1.3-1.5 sm) per 20-oz sausage applied at 12–15 mils

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

Packaging/Shelf Life/Storage

Packaging: 20 oz (591 ml) sausages, 20 sausages per case.

Shelf Life: 1 after date of manufacture year in tightly sealed, unopened container and stored below 80°F (27°C) . This shelf life assumes upright storage of factory-sealed containers.

Storage & Handling: Store in a cool, dry place. Keep container tightly closed when not dispensing. Do not open container until preparation work has been completed. Do not alter or mix with other chemicals. Do not double stack pallets. Dispose of unused product and container in accordance with local, state and federal regulations.

Regulatory Compliance

SuperiorFlash is compliant with the following national, state and district VOC regulations:

- US Environmental Protection Agency
- California Air Resources Board SCM Districts
- South Coast Air Quality Management District
- Maricopa County, AZ
- Northeast Ozone Transport Commission

APPLICATION PROCEDURE

Equipment: Apply using a professional caulking gun. Use a DRY joint knife, trowel, or spatula to spread the product. Do not use soapy water when tooling or spreading.

Prepare all surfaces as described above under "Preparation." Once preparation is complete, cut open tip of threaded fitting, install sausage into professional caulking gun.

Waterproofing Rough Openings

- Apply a bead of product in each corner of the rough opening. Apply additional product in a zigzag pattern over the exterior framing inside the rough opening. Spread the wet product to create an opaque, monolithic flashing membrane.
- Apply a thick bead of SuperiorFlash in a zigzag pattern to the exterior wall surrounding the rough opening. Spread the product to create an opaque, monolithic flashing membrane at 12–15 mils which surrounds the rough opening and extends 4 to 6 inches (100–152 mm) over the face of exterior wall. NOTE: When using with existing sheet weather resistive barriers, extend SuperiorFlash 8-10 inches (203-254 mm) over the face of the exterior wall to ensure positive drainage.
- Allow treated surfaces to skin before installing windows, doors and other wall assembly, waterproofing or air barrier components.

Filling Joints, Seams and Cracks

- Apply a thick bead of SuperiorFlash to all sheathing joints, seams and cracks. Treat joints ranging from ¼ to ½ inch with backer rod before applying SuperiorFlash. On plywood, spot wood knots, deep cracks or surface irregularities.
- Use a DRY joint knife, trowel or spatula to tool and spread the product. Spread 1-inch beyond seam at each side to a thickness of 12–15 mils.
- Allow to skin before installing other waterproofing or air barrier components.

Flashing Transitions

- Apply a generous bead of SuperiorFlash® to the top edge of the flashing leg.
- Spread the wet product to create a monolithic "cap flash" flashing membrane that extends 2 inches (51 mm) up the vertical face of the exterior wall and down over the fastener heads of the metal flashing.

CURING AND DRYING

At 70°F (21°C) and 50% relative humidity, product skins within 30 minutes and dries in 12 hours. SuperiorFlash is moisture curing. Low temperatures and low relative humidity slow dry time. High temperatures and high relative humidity accelerates dry time.

CLEAN UP

Clean tools and equipment with mineral spirits or similar solvent immediately after use. Follow all safety precautions. Remove cured SuperiorFlash mechanically using a sharp edged tool.

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

VOC: Less than 30 g/L.

TYPICAL TECHNICAL DATA

Form: viscous paste, mild odor

Specific Gravity: 1.45–1.55

pH: not applicable

Weight/Gallon: 12.5 lbs

Total Solids: 99%

Flash Point: >200° F (>93° C)

Freeze Point: not applicable

Cured Properties

Hardness, Shore A: 35–45

Tensile Strength: >150 psi

Elongation at Break: >350%

Corrosive Properties: Non-corrosive

Transfer Free Time: 20–40 minutes

APPROVED SUBSTRATES

Bonds to most common building materials without priming.

Master Wall® Base Coats, , Stucco, Rollershield RS/TG/VB

Exterior gypsum sheathing (ASTM C1396)

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

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

Concrete

Brick

Masonry

Exterior Plywood, Treated dry plywood

Oriented Strand Board

Metals, coated metals

PVC

Others approved in writing

SUPERIORFLASH TEST RESULTS

AAMA 714-12: Voluntary Specification for Liquid-Applied Flashing Used to Create a Water-Resistive Seal Around Exterior Wall Openings in Buildings

Adhesive Strength to Substrates	ASTM C794	≥ 5 pli	Pass
Water Penetration Around Nails	Modified ASTM D1970AAMA 711 Section 5.3	Shall pass 31 mm (1.2 in) of water	Pass
Accelerated UV Aging Peel Adhesion Appearance	ASTM G154, UVA cycle 1ASTM C794, Visual	≥ 5 pli	Pass
Elevated Temperature Exposure, Level 3=176° F for 7 days	AAMA 711, ASTM C794	≥ 5 pli	Pass
Thermal Cycling (10 cycles) Peel Adhesion	AAMA 711, ASTM C794	≥ 5 pli	Pass
Crack Bridging	ASTM C1305	Water holdout of 550 millimeters for 24 hrs, 1/8-inch crack per ASTM C1305, 10 cycles.	Pass
Water Immersion	AAMA 711, ASTM C794	≥ 5 pli	Pass
Water Vapor Permeability	ASTM E96 Wet Cup	Minimum of 10 perms at manufacturer's recommended application thickness	Pass – 21 perms
Damp Surfaces	ASTM C794	≥ 5 pli	Pass

ICC-ES AC212: Acceptance Criteria for Water-Resistive Coatings Used as Water-Resistive Barriers Over Exterior Sheathing

(*SuperiorFlash Tested as Part of an Assembly)

*Tensile Bond	ASTM C297	Minimum 15 psi (105 kPa)	Pass
*Freeze-Thaw	ICC-ES AC212	No cracking, checking, crazing, erosion, delamination or other deleterious effects	Pass
*Water Resistance	ASTM D2247	No cracking, checking, crazing, erosion, delamination or other deleterious effects	Pass
*Water Penetration	ASTM E331	No visible water penetration at sheathing joints as viewed from back of the panel.	Pass
*Weathering	ICC-ES AC212AATCC2 127	No cracking of the coating; no water penetration.	Pass

ABAA: Air Barrier Association of America Acceptance Criteria for Liquid Applied Membranes

(*SuperiorFlash Tested as part of an Assembly)

*Air Leakage of Air Barrier Assemblies	ASTM E 2357, ≤ 0.2 L / s·m^2 at 75 Pa	Pass: 0.0105 L / s·m^2 at 75 Pa (0.0021cfm / ft^2 at 1.57 psf)

Fire Testing

Surface Burning Characteristics	ASTM E84 Criteria for ICC and NFPA Class A Building Material: Flame Spread ≤ 25 Smoke Developed ≤ 450	Meets Class A Building Material. Flame Spread: 15, Smoke Developed: 10

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SAMPLE
WARRANTY

SuperiorShield Rollershield Liquid Applied Barrier

10 Year Labor & Material Limited Warranty

Master Wall Inc.® warrants the properly designed and installed Rollershield Liquid Applied Air/Water Barrier and materials for 10 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.

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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

Master Wall Inc.®

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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

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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)	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 kWm2, Total Heat Release Rate = 3.6 MJ/m^2, Effective Heat of Combus-tion = 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 Thermal Resistance Water Absorption Oxygen Index Compressive Strength Flexural Strength Flame Spread Smoke Developed	 ASTM C303, D1622 ASTM C177, C518 ASTM C272 ASTM D2863 ASTM D1621 Proc. A ASTM C203 ASTM E84	 15.2-20.0 kg/m^3 (0.95-1.25 lb/ft^3) 4.0 @ 4.4 °C (40 °F) 3.6 @ 23.9 °C (75 °F) 2.5 % max. by volume 24% min. by volume 69 kPa (10 psi) min. 172 kPa (25 psi) min. 25 max. 450 max.	 Pass Pass Pass Pass Pass Pass 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.m2)	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/EPSA 67 psi (464) OSB/ EPSA 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 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

* (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

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Master Wall Guide Specification RSLAB
Rollershield LAB

PART I – GENERAL

1.01 SUMMARY

A. This document is to be used in preparing specifications for projects utilizing the Master Wall Inc.® Rollershield Liquid-applied Air/Water Barrier (LAB) a 100% acrylic based liquid or fluid applied air and water barrier designed with low VOC and approved where a water barrier or flashing is required. Related Master Wall Inc.® documents:

1. Master Wall Inc.® Rollershield System Data Sheet
2. Master Wall Inc.® Rollershield System Application Instructions
3. Master Wall Inc.® Rollershield System Installation Details
4. Master Wall product data sheets

B. Related Sections

1. Unit Masonry – Section 04200
2. Concrete – Sections 03300 and 03400
3. Light Gauge Cold Formed Steel Framing – Section 05400
4. Wood Framing – Section 06100
5. Sealant – Section 07900
6. Flashing – Section 07600

1.02 SUBMITTALS

A. Manufacturer's specifications, details, installation instructions and product data
B. Manufacturer’s code compliance report
C. Manufacturer's standard warranty
D. Applicator's industry training credentials
E. Samples for approval as directed by architect or owner
F. Prepare and submit project-specific details (when required by contract documents)

1.03 REFERENCES

A. ASTM Standards:
- ASTM C297 Tensile Bond
- ASTM C1177 Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing
- ASTM C1396 (formerly C 79) Standard Specification for Gypsum Board
- ASTM D1784 Specification for Rigid Poly (Vinyl Chloride) (PVC) and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds
- ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
- ASTM E72 Racking Resistance
- ASTM E96 Test Methods for Water Vapor Transmission of Materials
- ASTM E330 Test Method for Structural Performance of Exterior Windows, Doors and Curtain Walls by Uniform Static Air Pressure Difference
- ASTM E331 Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference.
- ASTM E1233 Structural Performance
- ASTM E2134 Test Method for Evaluating the Tensile-Adhesion Performance of an Exterior Insulation and Finish System (EIFS)
- ASTM E2178 Test Method for Air Permeance of Building Materials
- ASTM E2357 Standard Test Method for Determining Air Leakage of Air Barrier Assemblies
- ASTM E2485 Freeze/Thaw Resistance
- ASTM E2568 Standard Specification for Class PB Exterior Insulation and Finish Systems
- ASTM E2570 Test Method for Water-Resistive (WRB) Coatings used Under Exterior Insulation and Finish Systems (EIFS) with Drainage

B. Building Code Standards
- AC212 Restrained Environmental Cycling, UV Exposure and Aging
- AC235 Acceptance Criteria for EIFS Clad Wall Assemblies (November, 2009)

C. National Fire Protection Association (NFPA) Standards
- NFPA 268 Standard Test Method for Determining Ignitibility of Exterior Wall Assemblies Using a Radiant Heat Energy Source
- NFPA 285 Standard Method of Test for the Evaluation of Flammability Characteristics of Exterior Non-Load Bearing Wall Assemblies containing Combustible Components Using the Intermediate-Scale, Multistory Test Apparatus

D. Other Referenced Documents
- American Association of Textile Chemists and Colorists AATCC-127 Water Resistance: Hydrostatic Pressure Test
- APA Engineered Wood Association E30, Engineered Wood Construction Guide
- UES Evaluation Report 384, Rollershield Water Barrier

1.04 SYSTEM DESCRIPTION

A. General: The Master Wall Inc.® Rollershield LAB is a fluid applied air and water barrier application. The product shall be applied over an approved substrate in accordance with the Rollershield LAB application Details.

B. Methods of Installation
1. Field Applied: The Rollershield LAB System is applied to the substrate system in place.
2. Panelized: The Rollershield LAB System is shop-applied to the prefabricated wall panels.

C. Design Requirements
1. Acceptable substrates for the Rollershield LAB System shall be:
   a. Exterior sheathing having a water-resistant core with fiberglass mat facers meeting ASTM C 1177.
   b. Exterior fiber reinforced cement or calcium silicate boards.
   c. APA Exterior or Exposure 1 Rated Plywood, Grade C-D or better, nominal 12.7 mm (1/2 in), minimum 4-ply.
   d. Unglazed, unpainted brick, cement plaster, concrete, or masonry.
   e. APA Exposure 1 rated Oriented Strand Board (OSB) or plywood, nominal 12.7 mm (1/2 in).
   f. Other substrates approved in writing from the manufacturer.
2. Deflection of substrate systems shall not exceed 1/240 times the span.
3. The substrate shall be flat within 6.4 mm (1/4 in) in a 3.05 m (10 ft) radius.
4. The slope of inclined surfaces shall not be less than 6:12, and the length shall not exceed 305 mm (12 in).
5. Expansion Joints
   a. Design and location of expansion joints in the Rollershield LAB System is the responsibility of the project designer and shall be noted on the project drawings. As a minimum, expansion joints shall be placed at the following locations:

      1) Where expansion joints occur in the substrate system.
      2) Where building expansion joints occur.
      3) At floor lines in wood frame construction (Reference Technical Bulletin #140).
      4) At floor lines of non-wood framed buildings where significant movement is expected.
      5) Where the Rollershield LAB System abuts dissimilar materials.
      6) Where the substrate type changes
      7) Where prefabricated panels abut one another
      8) Where significant structural movement occurs such as changes in roofline, building shape or structural system.
6. Terminations
   a. Interior foam expanding foam sealant may be required behind penetration openings.
   b. Sealants
      1) Shall be manufactured and supplied by others.
      2) Shall be compatible with Rollershield LAB System materials.
7. Vapor Retarders and barriers – The use and location of vapor retarders and/or barriers within a wall assembly is the responsibility of the project designer and shall comply with local building code requirements.
8. Flashing: Shall be provided at all roof-wall intersections, windows, doors, chimneys, decks, balconies and other areas as necessary to prevent water from entering behind the Rollershield LAB System.

1.05 PERFORMANCE REQUIREMENTS

A. Rollershield LAB System shall have been tested as follows:

Air/Moisture Barrier Performance

TEST	METHOD	CRITERIA	RESULT
1. Water Penetration Resistance	AATCC 127 (Water Column) ICC ES (AC 212)*	Resist 21.6 in (55 cm) water for 5 hours before and after aging	Pass
2. Water Penetration Resistance after Cyclic Wind Loading	ASTM E1233 / ASTM E331	No water penetration beyond the inner-most plane of the wall after 15 minutes at 137 Pa (2.86 psf)	No water penetration
3. Water Resistance Testing	ASTM D2247 ICC ES (AC 212)*	Absence of deleterious effects after 14 day exposure	Pass: Plywood Cement Board, OSB, Exterior Gypsum (ASTM C79/C1396) and Dens Glass Gold (ASTM C1377) substrates
4. Water Vapor Transmission	ASTM E96 Method B (Water Method)	Measure	30 perms (Rollershield) 12 perms (Trowelshield)
5. Air Leakage (material)	ASTM E2178	$\leq$ 0.004 cfm/ft2 at 1.57 psf (0.02 L/s•m2 at 75 Pa)	0.0002 cfm/ft^2
6. Air Leakage (assembly)	ASTM E2357	$\leq$ 0.04 cfm/ft2 (0.2 L/s•m2) @ 75 Pa	0.003 L/s.m^2 @ 75 Pa 0.02 L/s.m^2 @ 300 Pa
7. 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
8. 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
9. UV Exposure	ICC ES Proc. ICC ES (AC 212)*	210 hours of exposure	Pass
10. Surface Burning	ASTM E84	Flame Spread 0 – 25 for NFPA Class A, UBC Class I	Flame Spread: 5 Smoke Density: 5
11. Tensile Adhesion	ASTM C297	>15 psi (103 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)

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

LAB Weather Resistance and Durability Performance*

TEST	METHOD	CRITERIA	RESULTS
1. 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.

Air/Moisture Barrier and LAB Fire Performance

TEST	METHOD	CRITERIA	RESULT
1. Intermediate Scale Multi-Story Fire Test	NFPA 285 (formerly UBC Standard 26-9)	1. Resistance to vertical spread of flame within the core of the panel from one story to the next 2. Resistance to flame propagation over the exterior surface 3. Resistance to vertical spread of flame over the interior surface from one story to the next 4. Resistance to significant lateral spread of flame from the compartment of fire origin to adjacent spaces	Pass
2. Surface Burning (individual components)	ASTM E84	Individual components shall each have a flame spread of 25 or less, and smoke developed of 450 or less	Flame Spread: 0 Smoke Developed: 0

1.06 QUALITY ASSURANCE

A. Qualifications
1. System Manufacturer: Shall be Master Wall Inc.®. All materials shall be manufactured or sold by Master Wall Inc.® and shall be purchased from Master Wall Inc.® or its authorized distributors.
2. Contractor: Shall be knowledgeable in the proper installation of the Master Wall Inc.® Rollershield LAB System. Additionally, the contractor shall possess a current Master Wall Inc.® applicator certificate issued by Master Wall Inc.®

B. Regulatory Requirements
1. Continuous insulation if used shall be separated from the interior of the building by a minimum 15-minute thermal barrier.
2. The use and maximum thickness of continuous insulation shall be in accordance with the applicable building codes.

C. Certification
1. The Rollershield LAB System shall be recognized for the intended use by the applicable building code(s).

D. Mock-Up
1. The contractor shall, before the project commences, provide the owner/architect with a mock-up for approval.
2. The mock-up shall be of suitable size as required to accurately represent the products being installed, as well as each color and texture to be utilized on the project.
3. The mock-up shall be prepared with the same products, tools, equipment and techniques required for the actual application. The finish used shall be from the same batch that is being used on the project.

4. The approved mock-up shall be available and maintained at the job site.
5. For panelized construction, the mock-up shall be available and maintained at the panel fabrication location.

1.07 DELIVERY, STORAGE AND HANDLING

A. All Master Wall Inc.® materials shall be delivered to the job site in the original, unopened packages with labels intact.
B. Upon arrival, materials shall be inspected for physical damage, freezing, or overheating. Questionable materials shall not be used.
C. Deliver all materials in original unopened packages with labels intact. Verify all quantities, colors, and textures against bill of lading.
D. Store all materials protected from direct exposure to weather conditions and at temperatures not less than 40℉ (4℃) or greater than 110℉ (43℃).
E. Material Safety Data Sheets (MSDS) or Safety Data Sheets (SDS) shall be supplied for the components of the LAB and be available at the job site.

1.08 PROJECT CONDITIONS

A. Ambient air temperatures shall be 40℉ (4℃) or greater and rising at the time of installation of the Master Wall Inc.® products and shall remain at 40℉ (4℃) or g reater for at least 24 hours after application.
B. Provide supplemental heat and protection as required when the temperature and conditions are not in accordance with installation requirements. Sufficient ventilation and time shall be provided to ensure that materials have sufficiently dried prior to removing supplemental heat.
C. Adequate protection shall be provided to prevent weather conditions (humidity, temperature, and precipitation) from having an affect on the curing or drying time of Master Wall Inc.® materials.
D. Adjacent materials and the Rollershield LAB System shall be protected during installation and while curing from weather and shall be protected from site damage.
E. Coordinate installation of the Rollershield LAB System with related work specified in other sections to ensure that the wall assembly is protected to prevent water from getting behind the system. The cap flashing shall be installed as soon as possible after the finish coat has been applied. When this is not possible, temporary protection shall be provided immediately in this area.
F. All sealant work shall be installed in a timely manner. Protect open joints from water intrusion during construction with backer rod, or temporary covering, until permanently sealed.
G. Sufficient manpower and equipment shall be employed to ensure a continuous operation, free of cold joints, scaffolding lines, and texture variations, etc.
H. Existing Conditions - The contractor shall have access to electric power, clean water, and a clean work area at the location where the Master Wall Inc.® materials are to be applied.
I. Exposure Limitations – Rollershield LAB is limited to a maximum of 30 days exposure when Rollershield Drainage EIFS is to be adhered to the product. The surface must be clean and dry prior to application of EIFS. Under all other cladding products the exposure limitation is a maximum of six months.

1.09 SEQUENCING AND SCHEDULING

A. Installation of the Rollershield System shall be coordinated with other construction trades.
B. Sufficient manpower and equipment shall be employed to ensure a continuous operation.

1.10 LIMITED MATERIALS WARRANTY

A. Provide a manufacturer's warranty against defective material upon request.

1.11 MAINTENANCE

A. Maintenance and repair shall follow the procedures noted in Master Wall Inc.® Technical Bulletins #112 and #129.

PART II – PRODUCTS

2.01 MANUFACTURER

A. All components of the Rollershield LAB System shall be supplied or obtained from Master Wall Inc.® or its authorized distributors. Substitutions or additions of materials other than specified will void the warranty.

2.02 MATERIALS

A. Liquid-applied AirWater Barriers (LAB)
   1. Rollershield-RS: A flexible polymer-based roll or spray applied air barrier and waterproof membrane.
   2. Rollershield-TG: A trowel grade version of Rollershield-RS.
   3. Rollershield-VB: A Class I Vapor Retarder with a vapor permeability of 0.07 perms.

B. Sheathing Joint Treatment/Transition Treatment
   1. Rollershield Flashing Tape, 4” (104 mm) width.

C. SuperiorFlash: Moisture curing gun grade alternate treatment for flashing windows, or joints and seams of the Rollershield LAB application.

D. Exterior Sealants (Rollershield to Penetrating Item): Single part polyurethane conforming to Federal Specification TT-S-00230C, Type II, Class A; ASTM C 920, Type S, Grade NS, Class 25, Use NT, M, A, G and I.
   1. BASF Sonolastic® NP1™
   2. Sikaflex® One Part Polyurethane
   3. Tremco Vulkem Polyurethane Sealant

E. Interior Sealants: A multi-purpose, professional, low-expansion construction adhesive and gap and crack filler. One component polyurethane foam that cures by absorbing water vapor from the air with no CFC/HCFC.
   1. Wind-Lock Foam-2-Foam Adhesive
   2. Illbruck FM230 Window Seal Gun Grade Foam

PART III – EXECUTION

3.01 EXAMINATION

A. Prior to installation of the Rollershield LAB System, the contractor shall verify that the substrate:
   1. Is of a type listed.
   2. Is flat within 6.4 mm (1/4 in) in a 3 m (10 ft) radius.
   3. Is sound, dry, connections are tight, has no surface voids, projections or other conditions that may interfere with the Rollershield System installation or performance.

B. Prior to the installation of the Rollershield LAB System, the architect or general contractor shall insure that all needed flashings and other waterproofing details have been completed, if such completion is required prior to the Rollershield application. Additionally, the Contractor shall ensure that:
   1. Metal roof flashing has been installed in accordance with Asphalt Roofing Manufacturers Association (ARMA) Standards.
   2. Openings are flashed in accordance with the Rollershield LAB System Installation Details or as otherwise necessary to prevent water penetration.
   3. Chimneys, Balconies, and Decks have been properly flashed.
   4. Windows, Doors, etc. are installed and flashed per manufacturer's requirements and the Rollershield LAB System Installation Details.

C. Prior to the installation of the Rollershield LAB System, the contractor shall notify the general contractor, and/or architect, and/or owner of all discrepancies.

3.02 PREPARATION

A. Rollershield LAB materials shall be protected by permanent or temporary means from inclement weather and other sources of damage prior to, during, and following application until completely dry.
B. Protect adjoining work and property during Rollershield LAB installation.
C. The substrate shall be prepared as to be free of foreign materials, such as, oil, dust, dirt, form release agents, efflorescence, paint, wax, water repellents, moisture, frost and any other condition that inhibit adhesion.

3.03 GENERAL GUIDELINES

A. The system shall be installed in accordance with the current Master Wall Inc.® Rollershield LAB System Application Instructions.

3.04 FIELD QUALITY CONTROL

A. The contractor shall be responsible for the proper application of the Rollershield LAB materials.
B. Master Wall Inc.® assumes no responsibility for on-site inspections or application of its products.
C. If required, the contractor shall certify in writing the quality of work performed relative to the substrate system, details, installation procedures, workmanship and as to the specific products used.

3.05 ROLLERSHIELD LAB APPLICATION

A. Mixing
   1. Mix the products following the instructions on the product data sheets.
   2. Additives shall not be added to Master Wall Inc.® materials unless written approval has been received from Master Wall Inc.®
B. Preparation
   1. Protect contiguous work from damage during application of the Rollershield LAB. Temporary covering may be required to prevent over spray or splattering of coatings on other work.
   2. Protect substrate from inclement weather during installation. Prevent infiltration of moisture behind the wall.
   3. Coatings shall not be installed when ambient air temperature is below 40ºF (4ºC). The temperature shall remain at or above 40ºF (4ºC) during mixing, application and until materials have dried.
   4. Flashings shall be installed as required by construction documents and Master Wall Inc.® details in a manner to prevent the intrusion of water behind the wall system. All flashing materials should direct the water to the exterior face of the finished wall system.
C. Installation, General
   1. Reference architectural details for full wall system requirements.
   2. Comply with the manufacturers' current published instructions, (specifications, details, data sheets and technical bulletins) for the installation of the Rollershield LAB.
   3. Comply with local building codes.
   4. Verify that all flashings and other items are in place.
D. Rollershield Liquid-applied Air/Water Barrier (LAB) Application
   1. The substrate must be approved by Master Wall Inc.®, clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds or anything that would affect bond. Painted surfaces are not acceptable and must be removed. Substrates must be flat and free of fins or planar irregularities greater than 1/4" in 10'-0" (6.35 mm in 3.05m).

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

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

      Sheathing Applications - Sheathing gaps must be less than 1/4" (6.4 mm). Gap wood-based sheathing per manufacturer's recommendations, typically 1/8" (3.2 mm) minimum.

2. Stir the Rollershield LAB to a homogeneous consistency.
3. Rollershield LAB is applied by first treating the joints and fastener locations, then coating the entire surface using brush, roller, trowel or airless spray equipment techniques.
4. Apply a thin layer of Rollershield at all joints, corners, openings or transitions. While the Rollershield is still wet, center Rollershield Flashing Tape and immediately embed it into the wet Rollershield. Recoat as necessary to ensure full embedment. Spot fasteners using a paint brush or trowel and allow to dry. Rollershield LAB may be flashed into window, door and other openings using the same techniques. Reference details for flashing options.
5. Roll or spray apply Rollershield over the prepared sheathing to a nominal uniform thickness of 15 mils wet, 10 mils dry with no pinholes or voids. When using a foam roller, a maximum ¾" (19 mm) nap is recommended. Apply Rollershield LAB in an even, continuous coat, maintaining a wet edge of approximately 15 mils thickness, 10 mils dry. Oriented Strand Board and other porous substrates require two (2) coats of Rollershield LAB.
6. Spray Recommendations: Rollershield is compatible with GRACO and Titan airless spray equipment with the following specifications; Minimum 1 gallon per minute output, Minimum hose width of 3/8 inch, Minimum tip size of 0.027–0.031, Minimum pressure requirement to spray of 2,000 psi at the gun with an airless sprayer rated no lower than 3,300 psi. Remove all filters in sprayer and gun before application. Hopper Gun: 3/16"-1/4" (6-6.5 mm) orifice, 23-25 psi.
7. Rollershield must be applied as a continuous barrier of 10 mils dry thickness with no breaks or skips, although some areas will appear lighter than others due to the application process. The Rollershield application need not look like a painted surface.
8. Repair any voids or holes with additional coats of Rollershield LAB or spot applications of Trowelshield.
9. Allow to dry completely before proceeding with installation.

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

F. Drying and Curing
1. Provide protection from rain and temperatures below 4º0F (4ºC) for a minimum of 24 hours after application. Longer protection may be necessary during lower temperatures and/or higher humidity conditions.
2. Once cured, Rollershield may be exposed to the elements as long as 30-days once fully dry but should be covered as soon as practical.

3.06 JOB SITE CLEANUP

A. Clean work area in accordance with contract documents removing all excess materials, droppings and debris. Clean adjacent surfaces.
B. Other trades may now install their work – Sheet Metal (Section 07620), Sealants (Section 07900), Mechanical (Section 15000), Electrical (Section 16000).

3.07 PROTECTION

A. Rollershield LAB System shall be protected from inclement weather and other sources of damage until dry and permanent protection in the form of flashings, sealants, cladding, etc. are installed.

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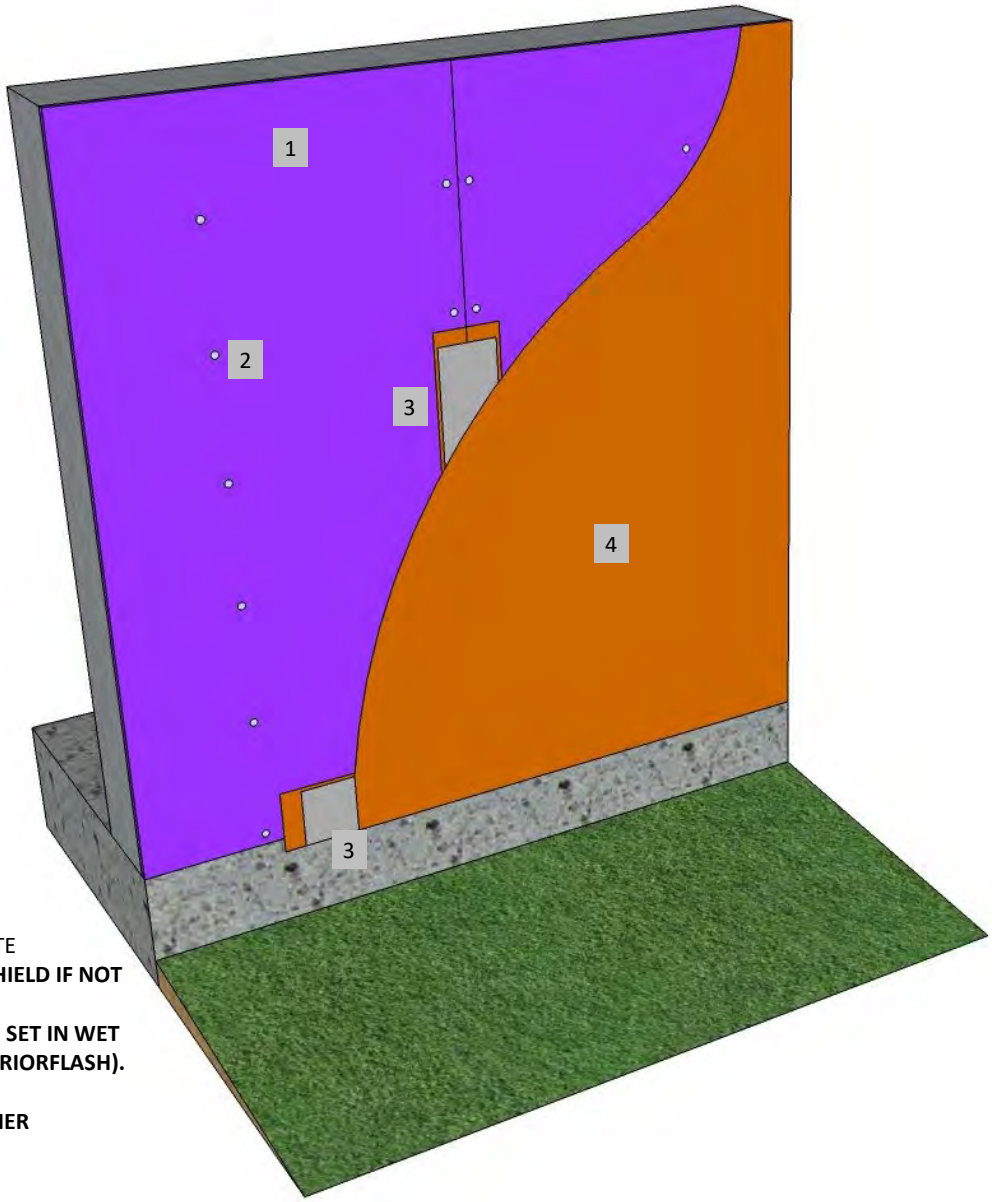
ROLLERSHIELD LAB

SYSTEM DETAIL



1. FRAMING & APPROVED SUBSTRATE
2. **SPOT FASTENERS WITH ROLLERSHIELD IF NOT FLUSH**
3. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH). LAP SPLICES 2" (51 MM) MIN.**
4. **ROLLERSHIELD AIR/WATER BARRIER**

RSLAB-01 APPLICATION ON SHEATHING

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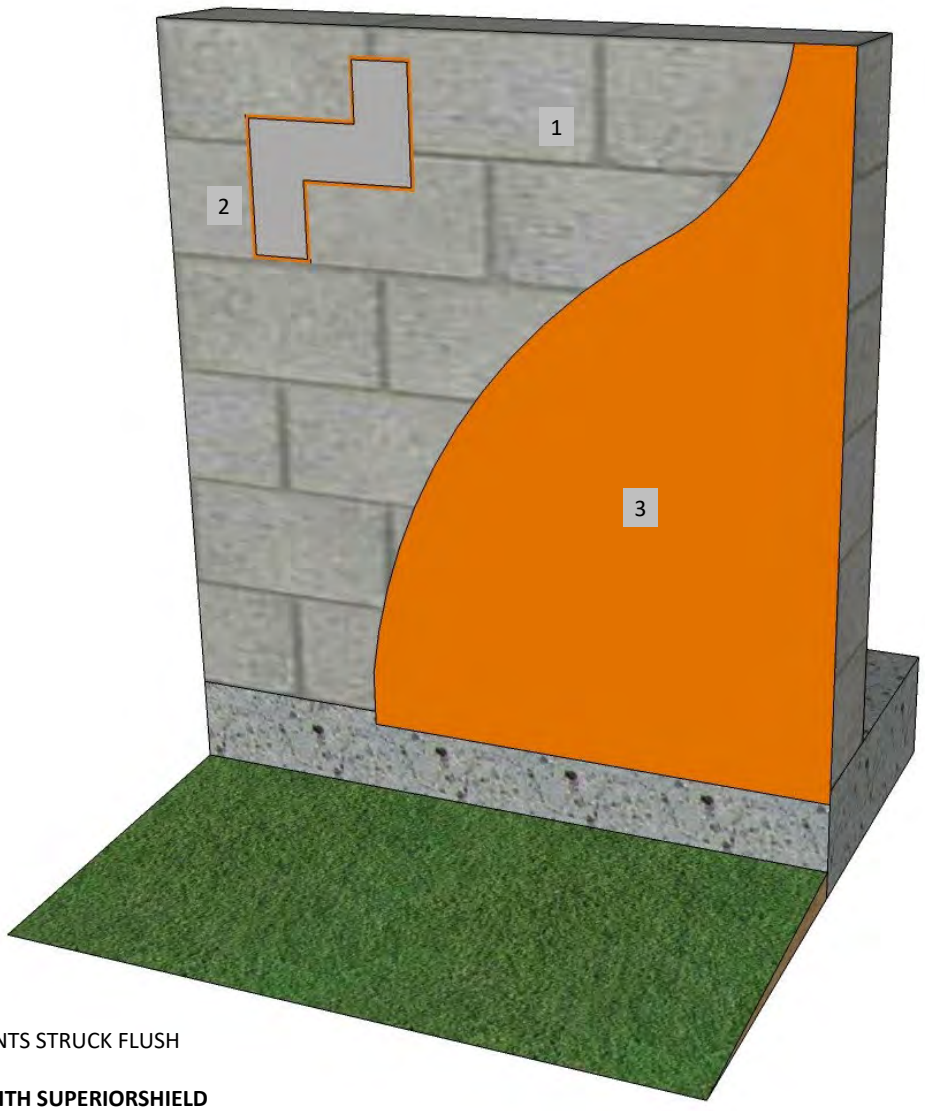
ROLLERSHIELD LAB

SYSTEM DETAIL



1. APPROVED SUBSTRATE, MASONRY JOINTS STRUCK FLUSH PREFERRED
2. **REPAIR ANY CRACKS IN SUBSTRATE WITH SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH). LAP SPLICES 2" (51 MM) MIN.**
3. **ROLLERSHIELD AIR/WATER BARRIER**

RSLAB-02 APPLICATION ON CMU, MASONRY OR CONCRETE

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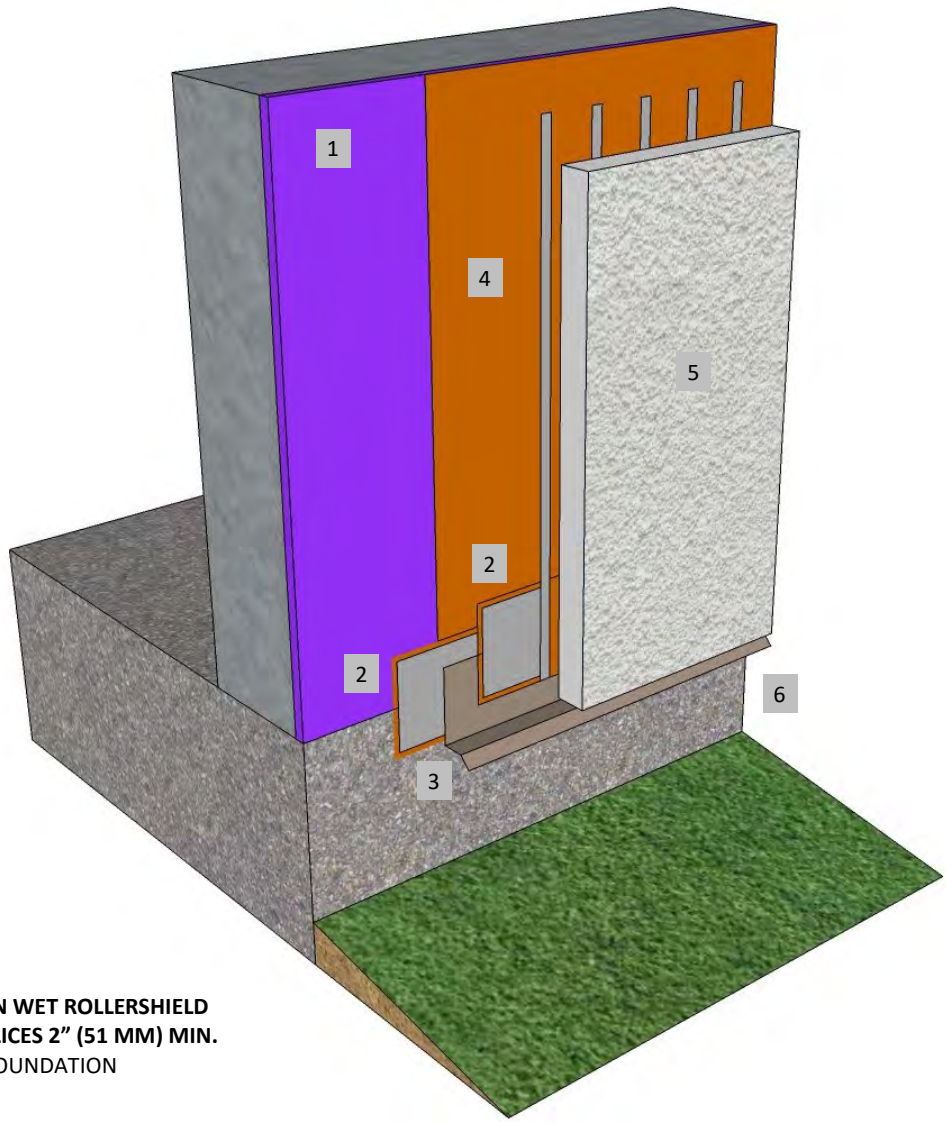
ROLLERSHIELD LAB

SYSTEM DETAIL



1. FRAMING & APPROVED SUBSTRATE
2. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH). LAP SPLICES 2" (51 MM) MIN.**
3. FLASHING SET 1" (25 MM) MIN. OVER FOUNDATION
4. **ROLLERSHIELD AIR/WATER BARRIER**
5. **ROLLERSHIELD DRAINAGE CIFS®**
6. KEEP SYSTEM 6" (152 MM) MIN. ABOVE GRADE

RSLAB-03 CIFS® OR EIFS TERMINATION

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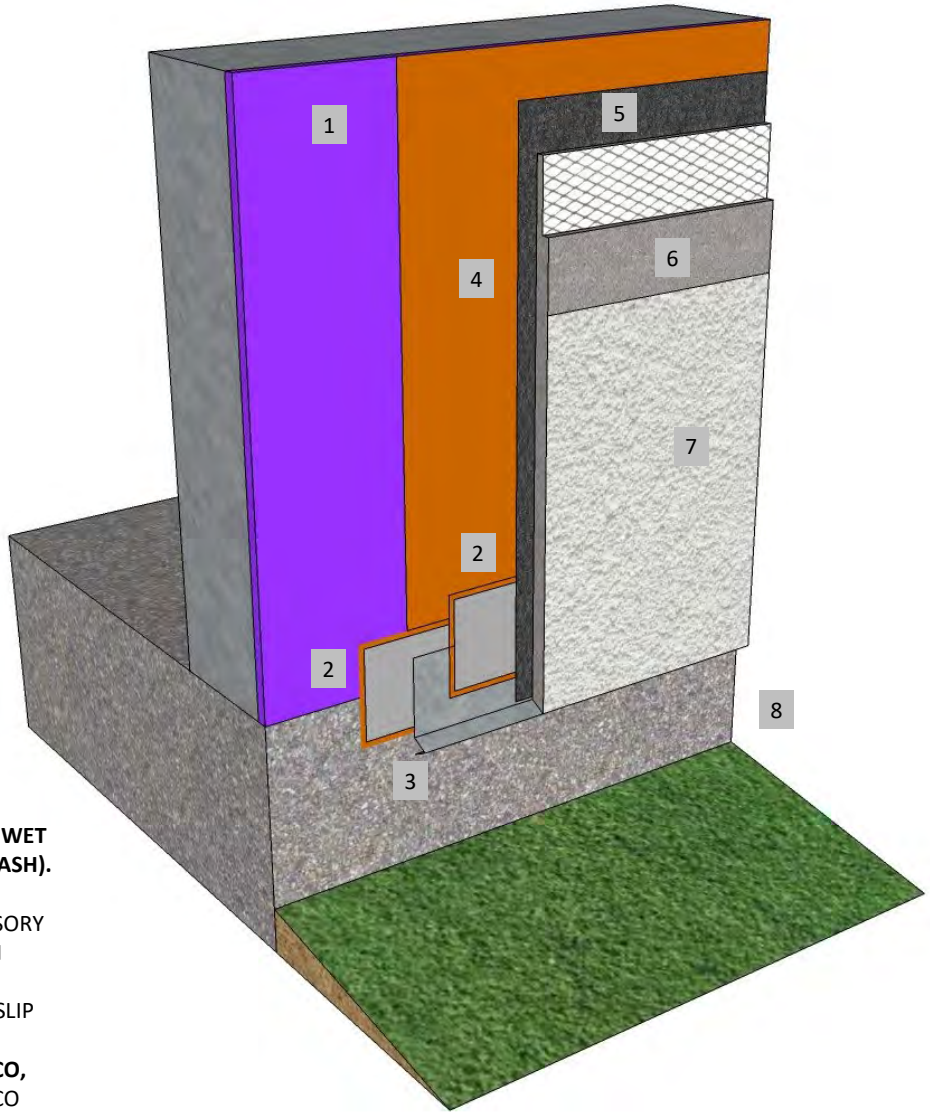
ROLLERSHIELD LAB

SYSTEM DETAIL



1. FRAMING & APPROVED SUBSTRATE
2. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH). LAP SPLICES 2" (51 MM) MIN.**
3. STUCCO WEEP SCREED OR OTHER ACCESSORY SET 1" (25 MM) MIN. OVER FOUNDATION
4. **ROLLERSHIELD AIR/WATER BARRIER**
5. SECONDARY WATER RESISTIVE BARRIER, SLIP SHEET OR DRAINAGE MAT
6. **MASTER WALL CEMPLASTER FIBERSTUCCO,** ONE COAT STUCCO OR ASTM C926 STUCCO
7. **MASTER WALL SUPERIOR FINISH**
8. KEEP SYSTEM 6" (152 MM) MIN. ABOVE GRADE

RSLAB-04 STUCCO TERMINATION AT FOUNDATION

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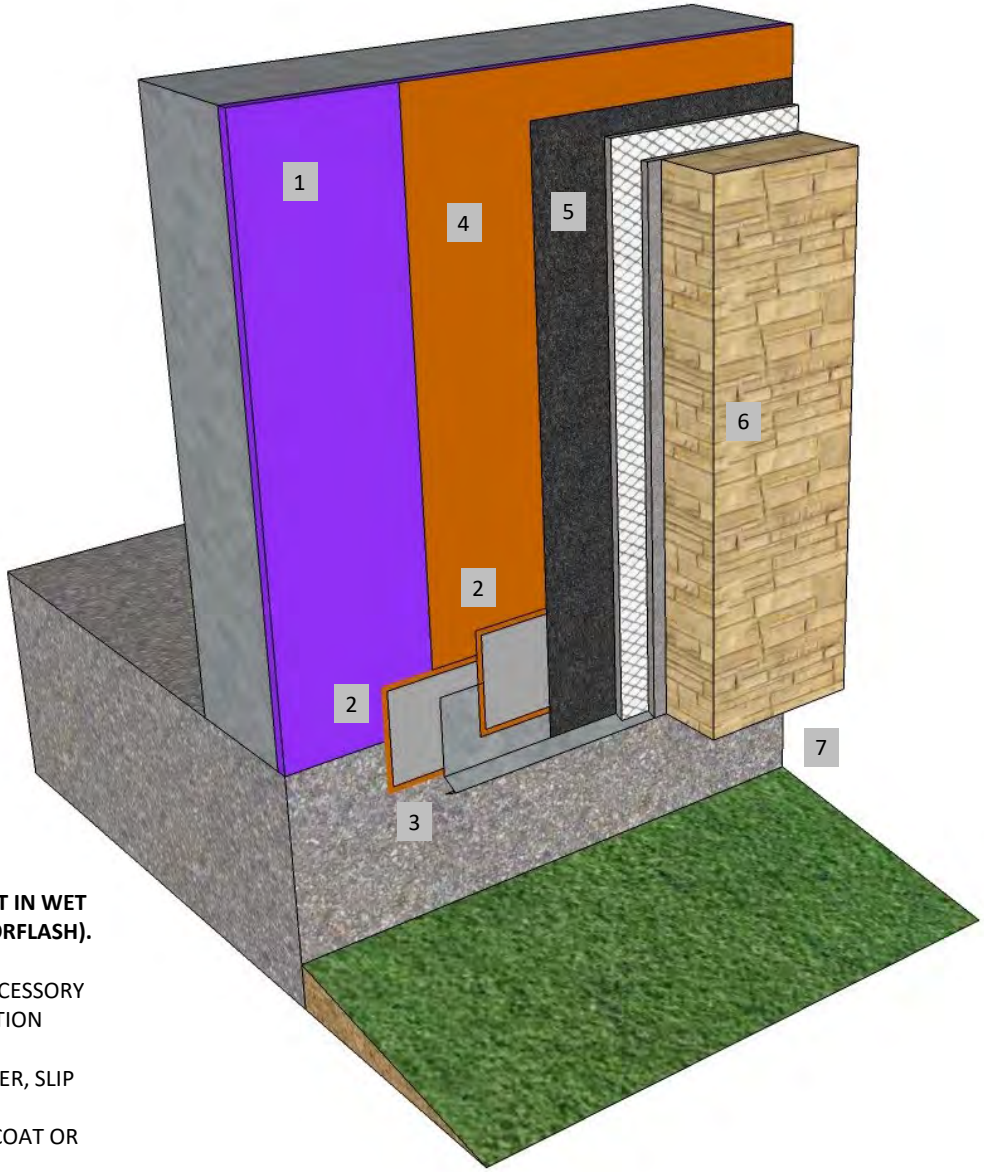
ROLLERSHIELD LAB

SYSTEM DETAIL



1. FRAMING & APPROVED SUBSTRATE
2. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH). LAP SPLICES 2" (51 MM) MIN.**
3. STUCCO WEEP SCREED OR OTHER ACCESSORY SET 1" (25 MM) MIN. OVER FOUNDATION
4. **ROLLERSHIELD AIR/WATER BARRIER**
5. SECONDARY WATER RESISTIVE BARRIER, SLIP SHEET OR DRAINAGE MAT
6. THIN BRICK OR STONE ON SCRATCH COAT OR OTHER APPLICATION
7. KEEP SYSTEM 6" (152 MM) MIN. ABOVE GRADE

RSLAB-05 STONE TERMINATION AT FOUNDATION

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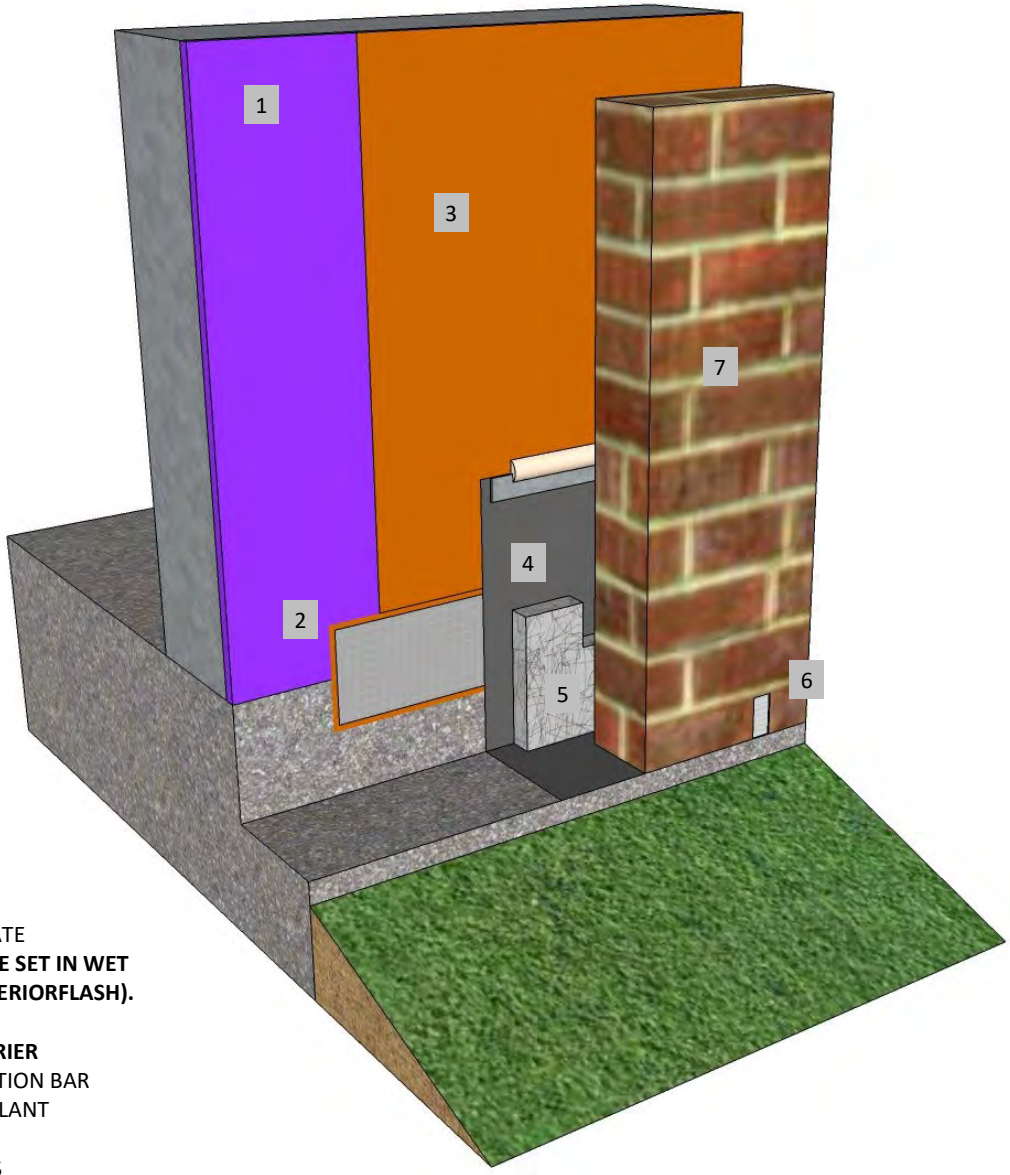
SYSTEM DETAIL



1. FRAMING & APPROVED SUBSTRATE
2. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH). LAP SPLICES 2" (51 MM) MIN.**
3. **ROLLERSHIELD AIR/WATER BARRIER**
4. BRICK FLASHING WITH TERMINATION BAR AND COMPATIBLE EXTERIOR SEALANT
5. MORTAR PROTECTION
6. WEEP HOLES IN VERTICAL JOINTS
7. BRICK

RSLAB-06 BRICK TERMINATION AT FOUNDATION

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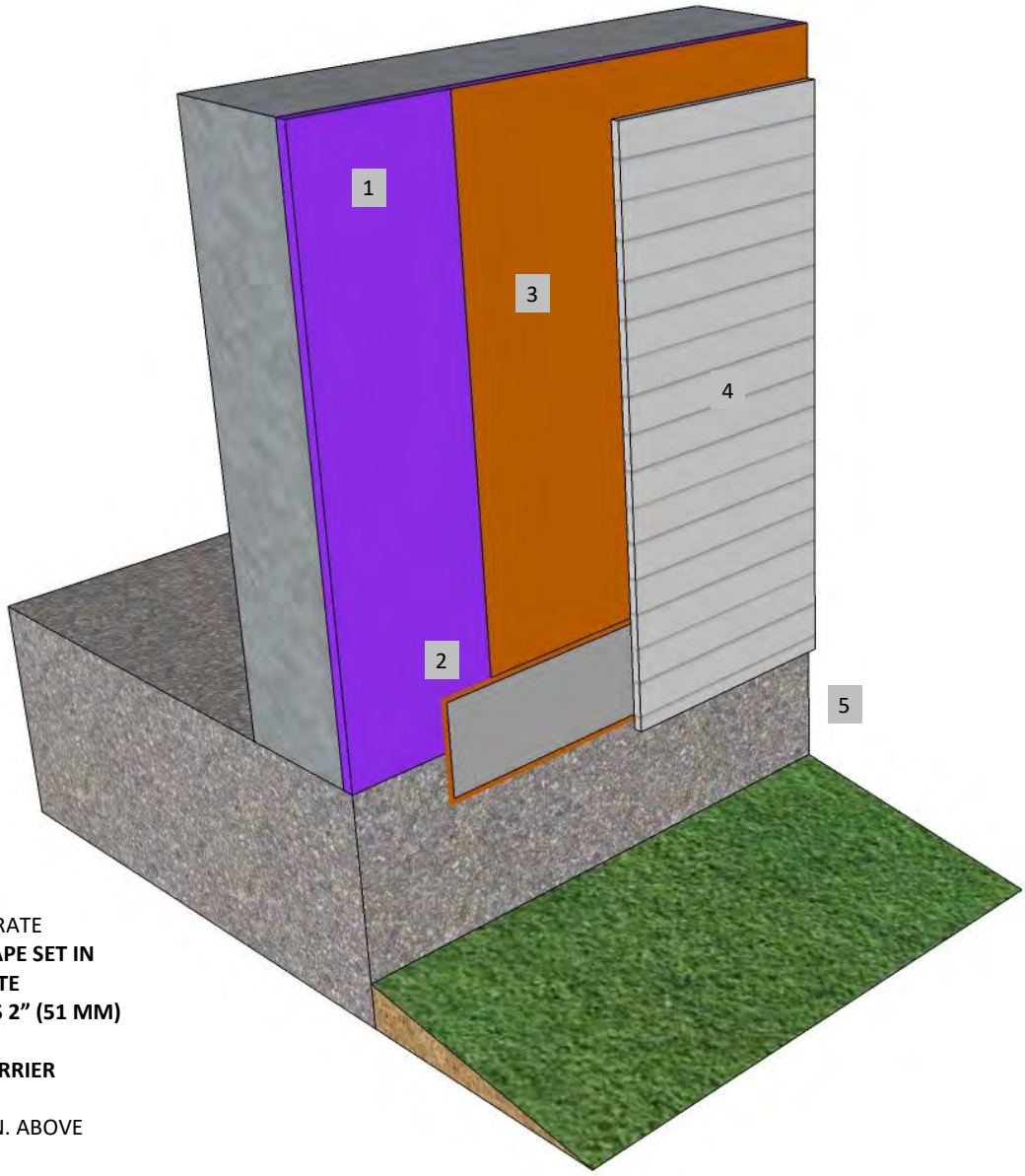
SYSTEM DETAIL



1. FRAMING & APPROVED SUBSTRATE
2. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH). LAP SPLICES 2" (51 MM) MIN.**
3. **ROLLERSHIELD AIR/WATER BARRIER**
4. SIDING
5. KEEP SYSTEM 6" (152 MM) MIN. ABOVE GRADE

RSLAB-07 SIDING TERMINATION AT FOUNDATION

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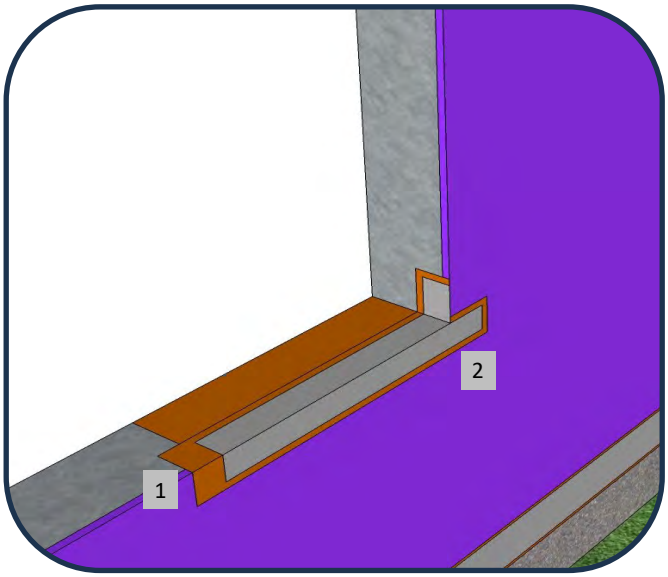
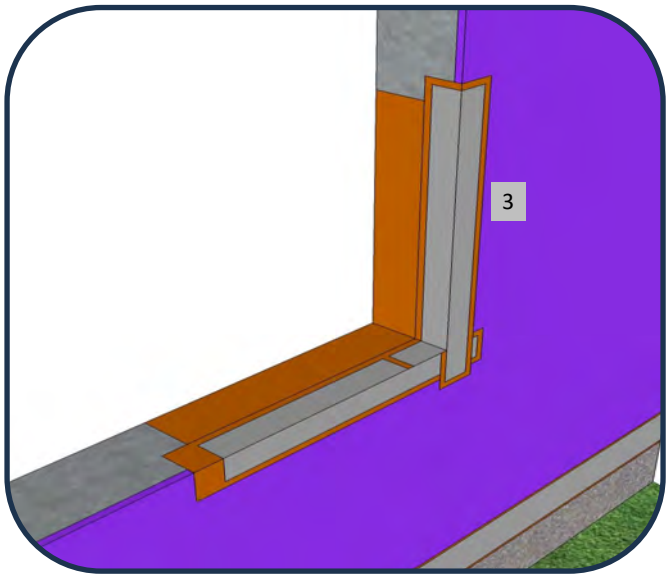
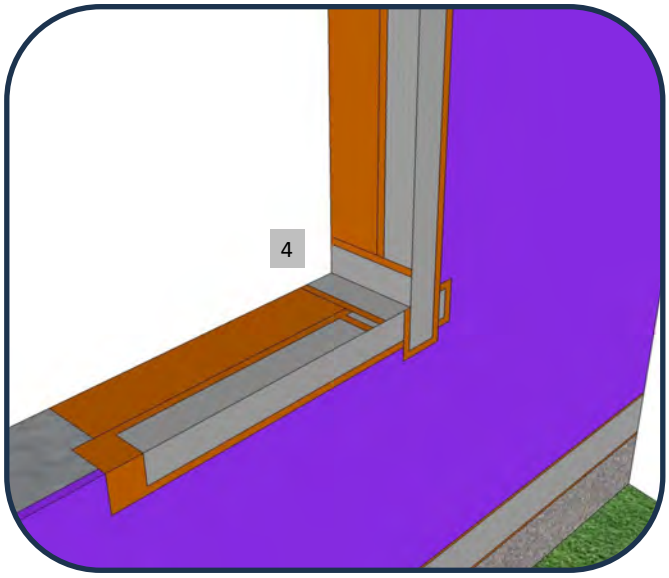
SYSTEM DETAIL







1. START AT THE BASE OF THE WINDOW. APPLY WET **ROLLERSHIELD** USING A TROWEL, BRUSH OR ROLLER TO THE SILL AND FACE OF THE WALL.
2. CENTER AND EMBED **SUPERIORSHIELD FLASHING TAPE** INTO THE WET **ROLLERSHIELD** AND EXTEND UP THE WALL 3” (75 MM) UP THE JAMBS AND ONTO THE FACE OF THE WALL. SMOOTH USING TROWEL, BRUSH OR ROLLER.
3. APPLY JAMB FLASHING IN A SIMILAR MANNER EXTENDING THE FLASHING 3” MIN. ONTO THE SILL SURFACE.
4. SEAL CORNER WITH AN ADDITIONAL STRIP OF **ROLLERSHIELD FLASHING TAPE** CENTERED IN THE CORNER
5. APPLY HEAD FLASHING IN A SIMILAR MANNER (NOT SHOWN).

RSLAB-08 BASIC FLASHING – METHOD A

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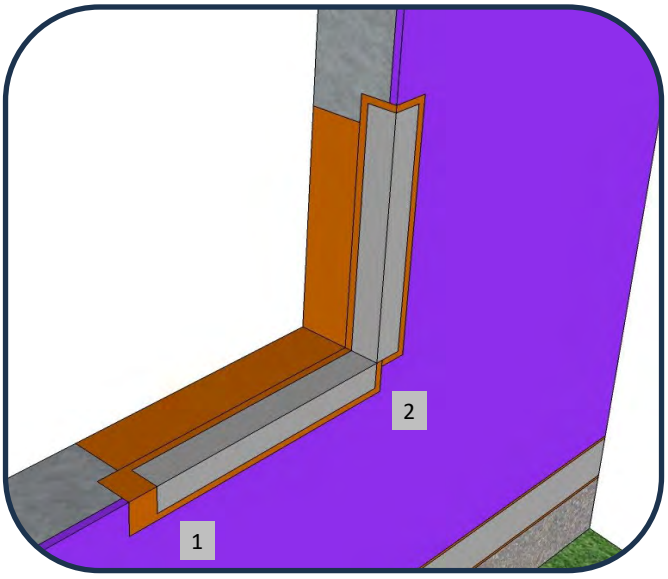
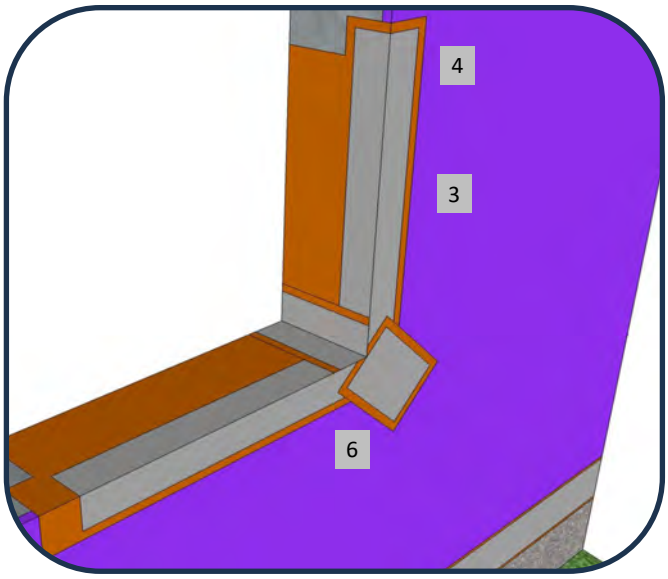
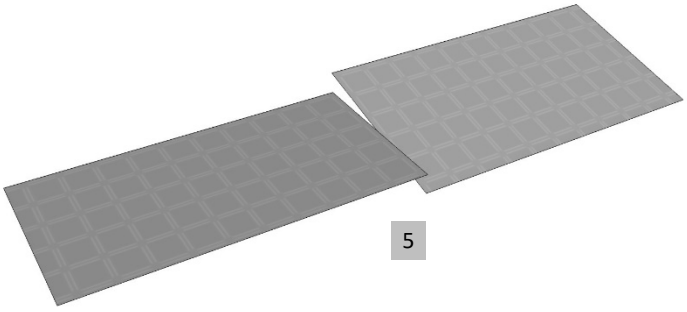
SYSTEM DETAIL







1. START AT THE BASE OF THE WINDOW. APPLY WET **ROLLERSHIELD** USING A TROWEL, BRUSH OR ROLLER TO THE SILL AND FACE OF THE WALL.
2. CENTER AND EMBED **SUPERIORSHIELD FLASHING TAP**E INTO THE WET ROLLERSHIELD. SMOOTH USING TROWEL, BRUSH OR ROLLER.
3. APPLY JAMB FLASHING IN A SIMILAR MANNER.
4. APPLY HEAD FLASHING IN A SIMILAR MANNER (NOT SHOWN).
5. CREATE DIAGONAL REINFORCEMENT BY CUTTING A PIECE OF **SUPERIORSHIELD FLASHING TAPE** TWICE THE DEPTH OF THE OPENING AND CAREFULLY CUT LEAVING 1-2 STRANDS
6. APPLY WET **ROLLERSHIELD** AT ALL CORNERS AND EMBED DIAGONAL REINFORCEMENT.

RSLAB-09 BASIC FLASHING – METHOD B

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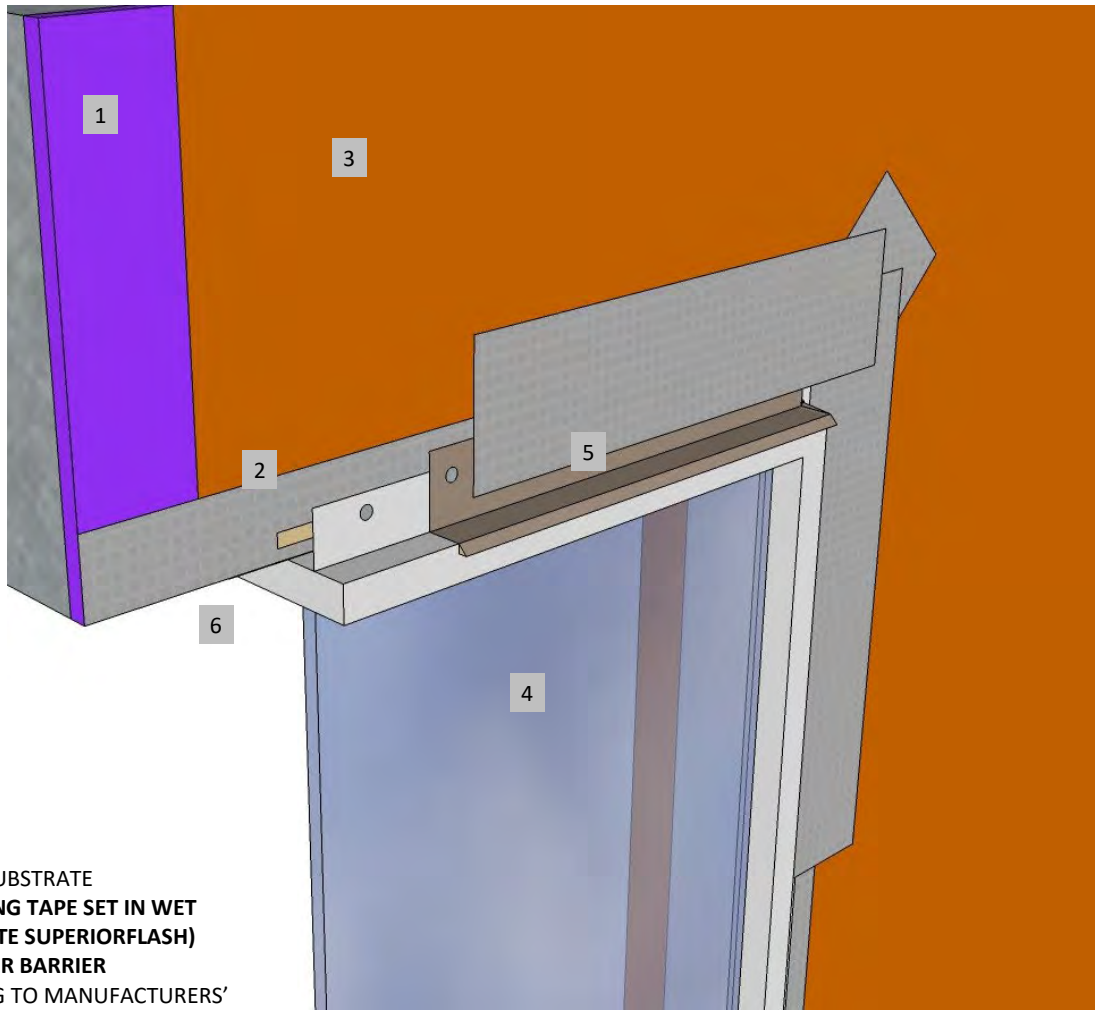
SYSTEM DETAIL



1. FRAMING & APPROVED SUBSTRATE
2. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH)**
3. **ROLLERSHIELD AIR/WATER BARRIER**
4. WINDOW SET ACCORDING TO MANUFACTURERS' INSTRUCTIONS
5. HEAD FLASHING WITH END DAMS SHOWN, SET IN SEALANT. FLASH ONTO WINDOW FLANGE IF SELF-FLASHING WINDOW IS USED
6. INTERIOR SEALANT (NOT SHOWN)

RSLAB-10 WINDOW HEAD DETAIL

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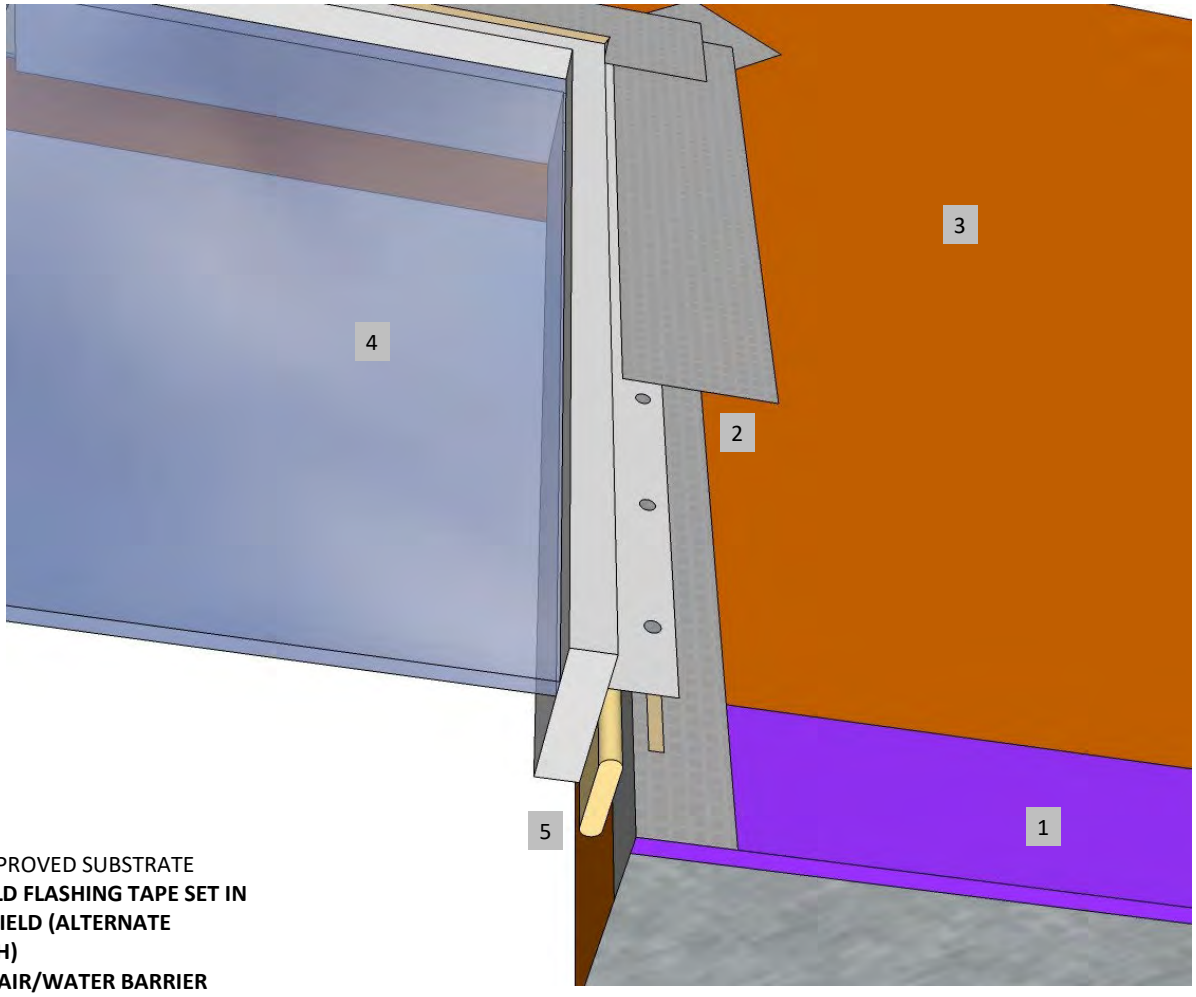
SYSTEM DETAIL



1. FRAMING & APPROVED SUBSTRATE
2. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH)**
3. **ROLLERSHIELD AIR/WATER BARRIER**
4. WINDOW SET ACCORDING TO MANUFACTURERS' INSTRUCTIONS
5. INTERIOR SEALANT

RSLAB-11 TYPICAL WINDOW JAMB DETAIL

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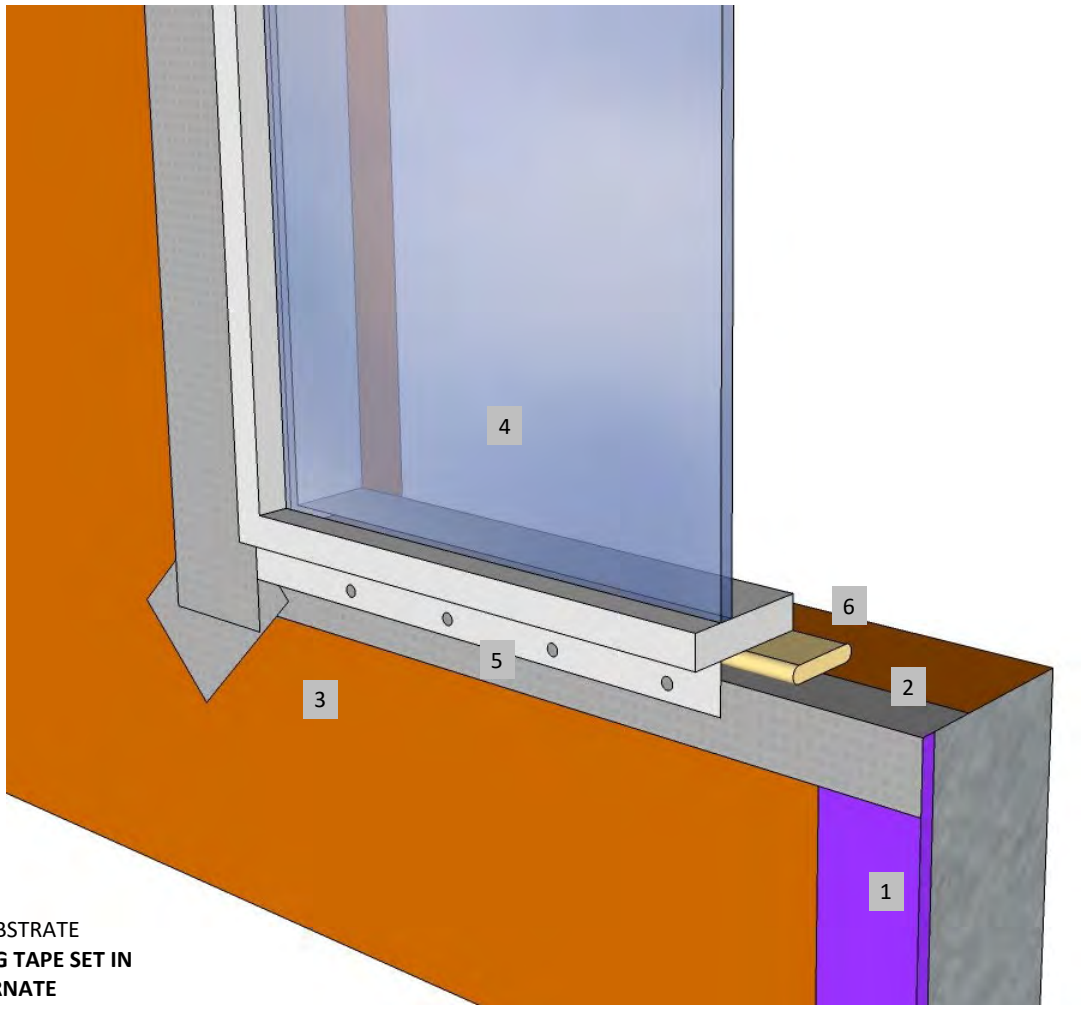
ROLLERSHIELD LAB

SYSTEM DETAIL



1. FRAMING & APPROVED SUBSTRATE
2. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH)**
3. **ROLLERSHIELD AIR/WATER BARRIER**
4. WINDOW SET ACCORDING TO MANUFACTURERS' INSTRUCTIONS
5. LOWER FLANGE SHOWN OPEN FOR DRAINAGE, VERIFY WITH WINDOW MANUFACTURER
6. INTERIOR SEALANT

RSLAB-12 TYPICAL WINDOW SILL DETAIL

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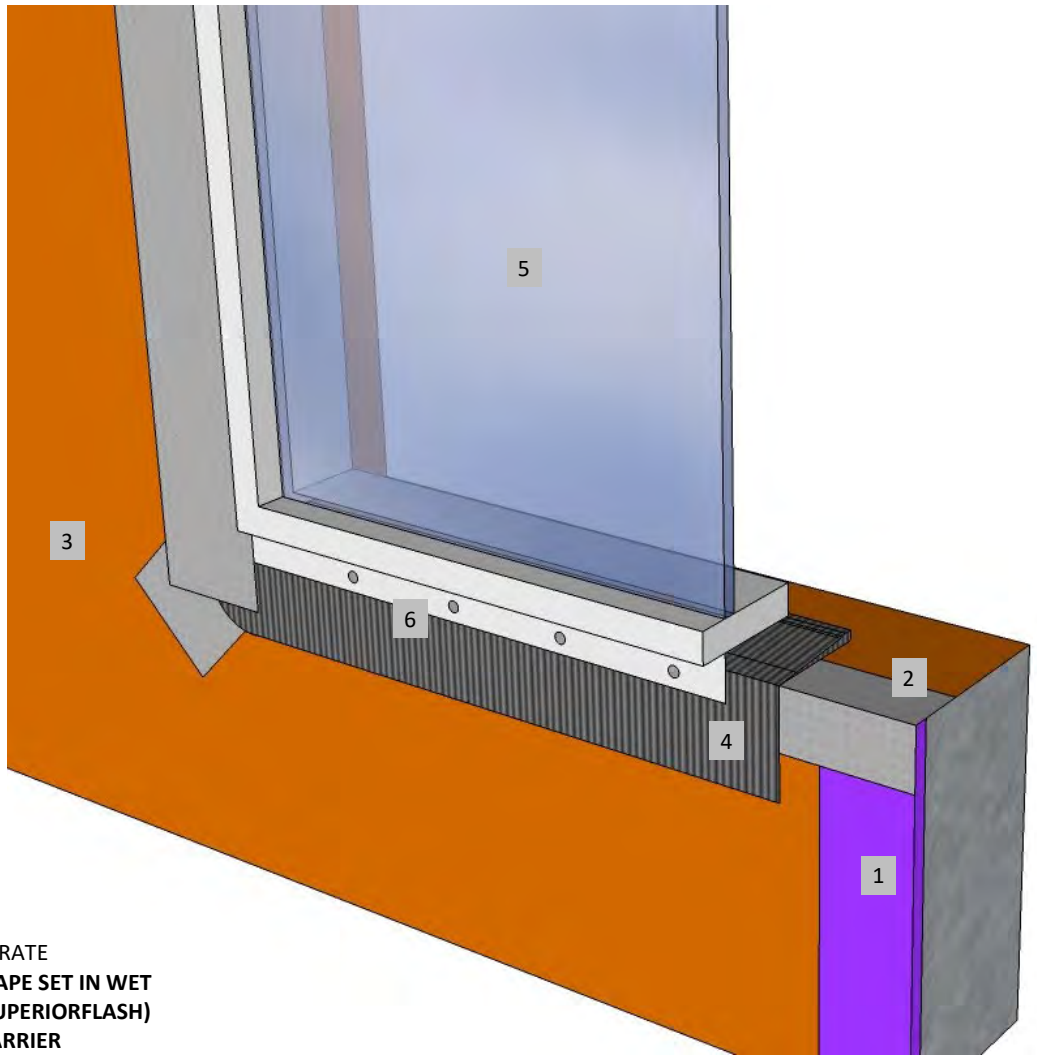
ROLLERSHIELD LAB

SYSTEM DETAIL



1. FRAMING & APPROVED SUBSTRATE
2. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH)**
3. **ROLLERSHIELD AIR/WATER BARRIER**
4. SILLDRY® SILL PAN SET TO MANUFACTURER'S INSTRUCTIONS, FLASHED WITH **ROLLERSHIELD AND SUPERIORSHIELD FLASHING TAPE**
5. WINDOW SET ACCORDING TO MANUFACTURERS' INSTRUCTIONS
6. LOWER FLANGE SHOWN OPEN FOR DRAINAGE, VERIFY WITH WINDOW MANUFACTURER

RSLAB-13 SILLDRY® WINDOW SILL

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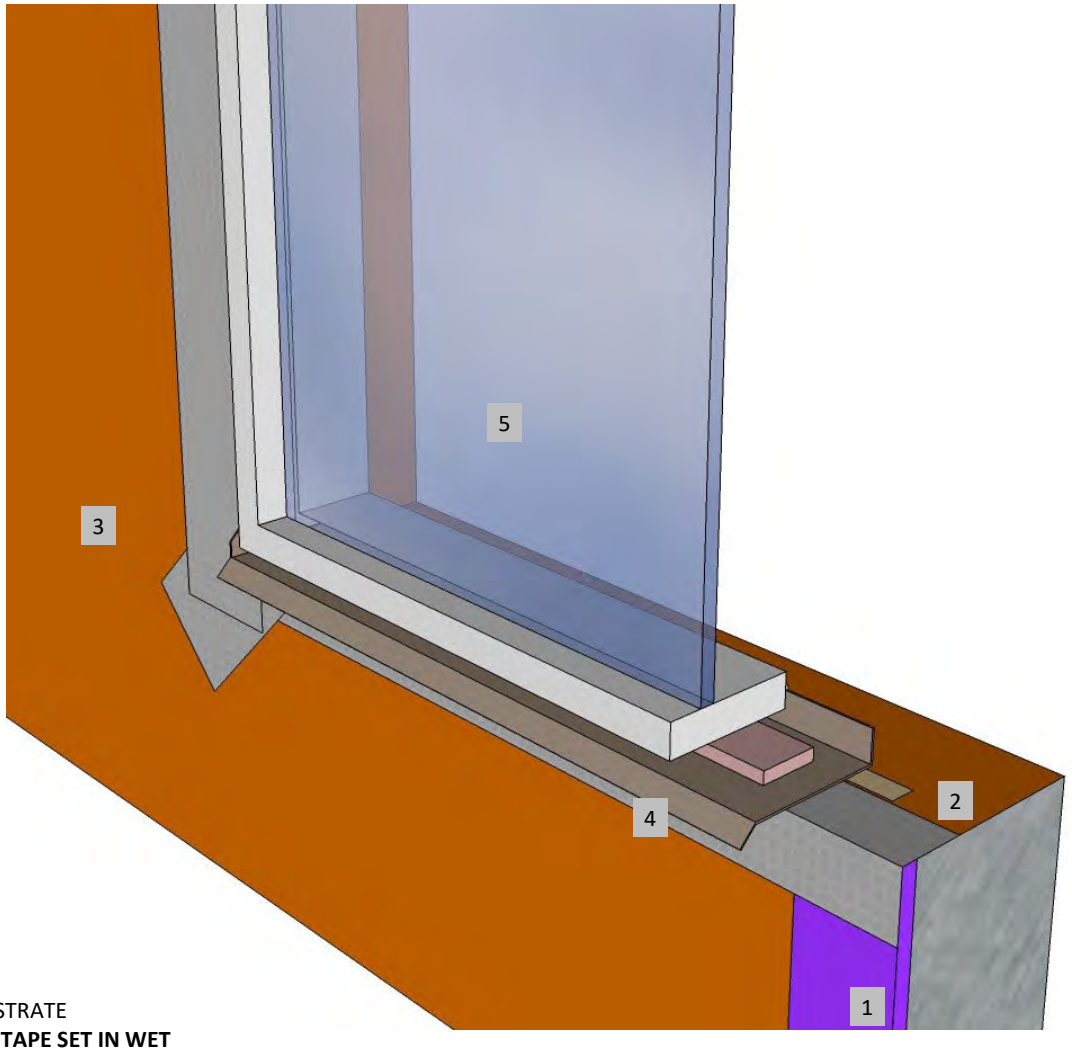

1. FRAMING & APPROVED SUBSTRATE
2. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH)**
3. **ROLLERSHIELD AIR/WATER BARRIER**
4. SILL PAN WITH END DAMS, SET IN SEALANT
5. WINDOW SET ACCORDING TO MANUFACTURERS' INSTRUCTIONS

RSLAB-14 TYPICAL WINDOW SILL PAN

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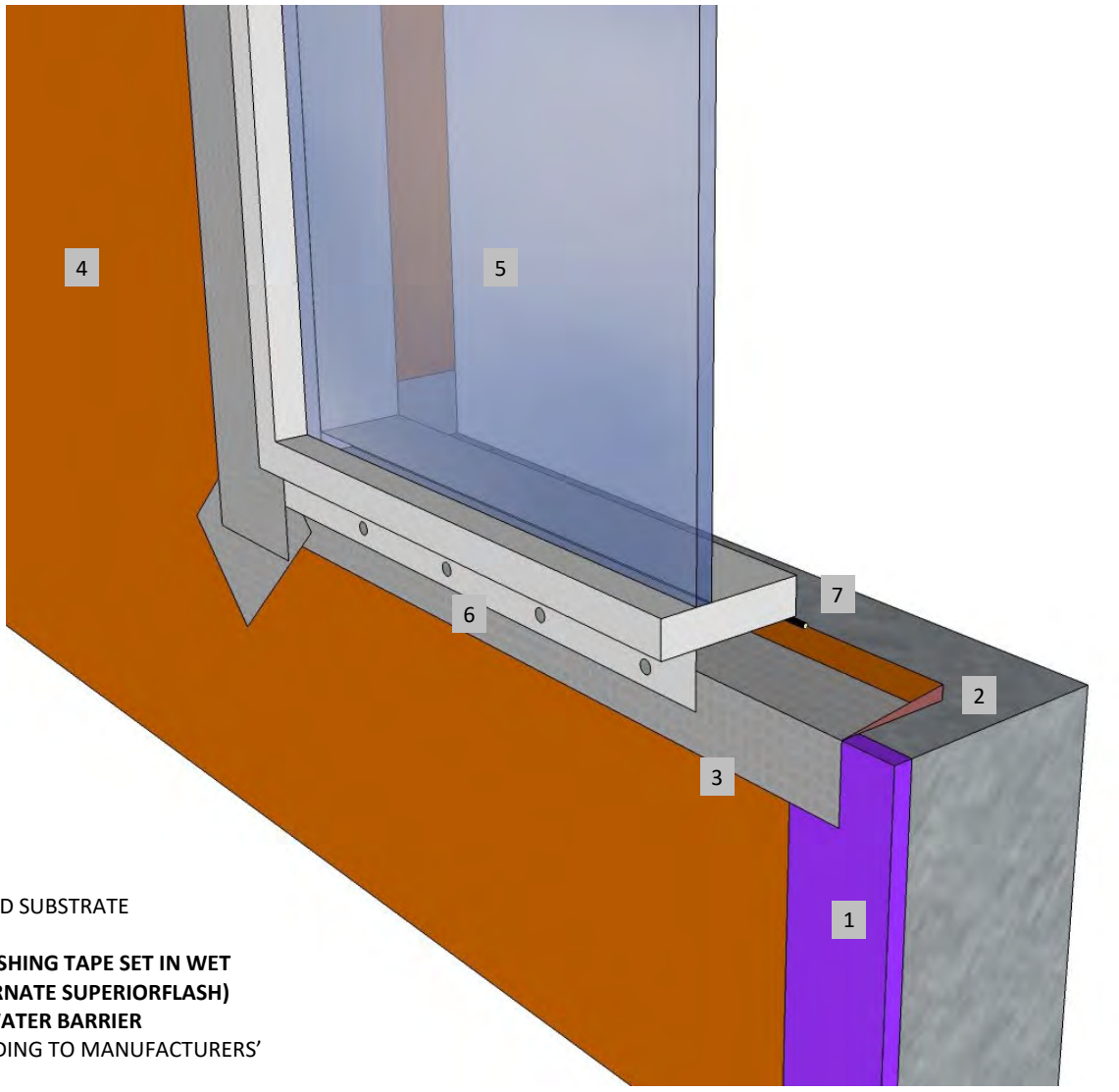

1. FRAMING & APPROVED SUBSTRATE
2. SILL WEDGE
3. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH)**
4. **ROLLERSHIELD AIR/WATER BARRIER**
5. WINDOW SET ACCORDING TO MANUFACTURERS' INSTRUCTIONS
6. LOWER FLANGE SHOWN OPEN FOR DRAINAGE, VERIFY WITH WINDOW MANUFACTURER
7. INTERIOR SEALANT

RSLAB-15 TYPICAL WINDOW SILL WEDGE

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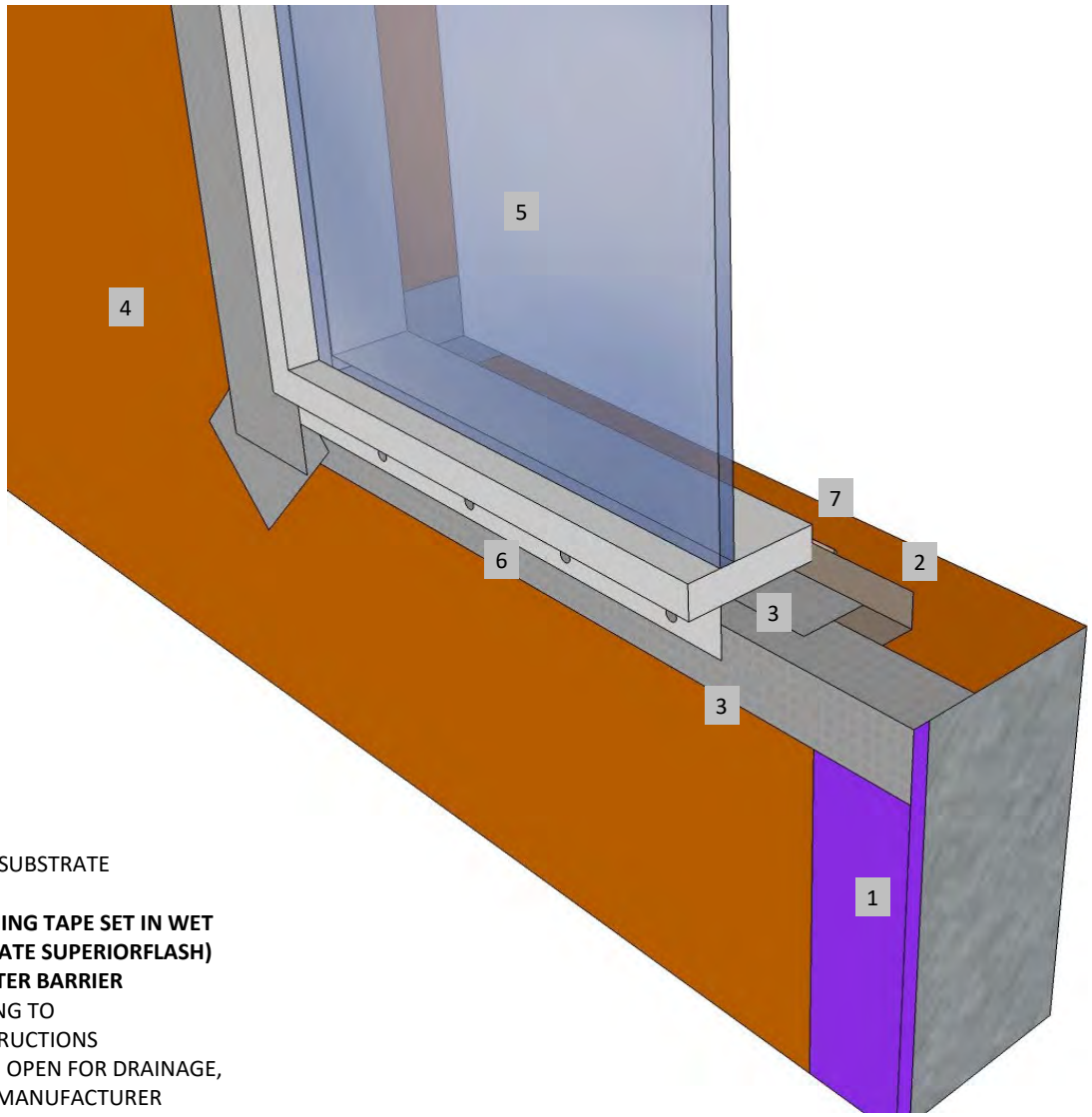
SYSTEM DETAIL



1. FRAMING & APPROVED SUBSTRATE
2. SILL STOP
3. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH)**
4. **ROLLERSHIELD AIR/WATER BARRIER**
5. WINDOW SET ACCORDING TO MANUFACTURERS' INSTRUCTIONS
6. LOWER FLANGE SHOWN OPEN FOR DRAINAGE, VERIFY WITH WINDOW MANUFACTURER
7. INTERIOR SEALANT

RSLAB-16 TYPICAL WINDOW SILL STOP

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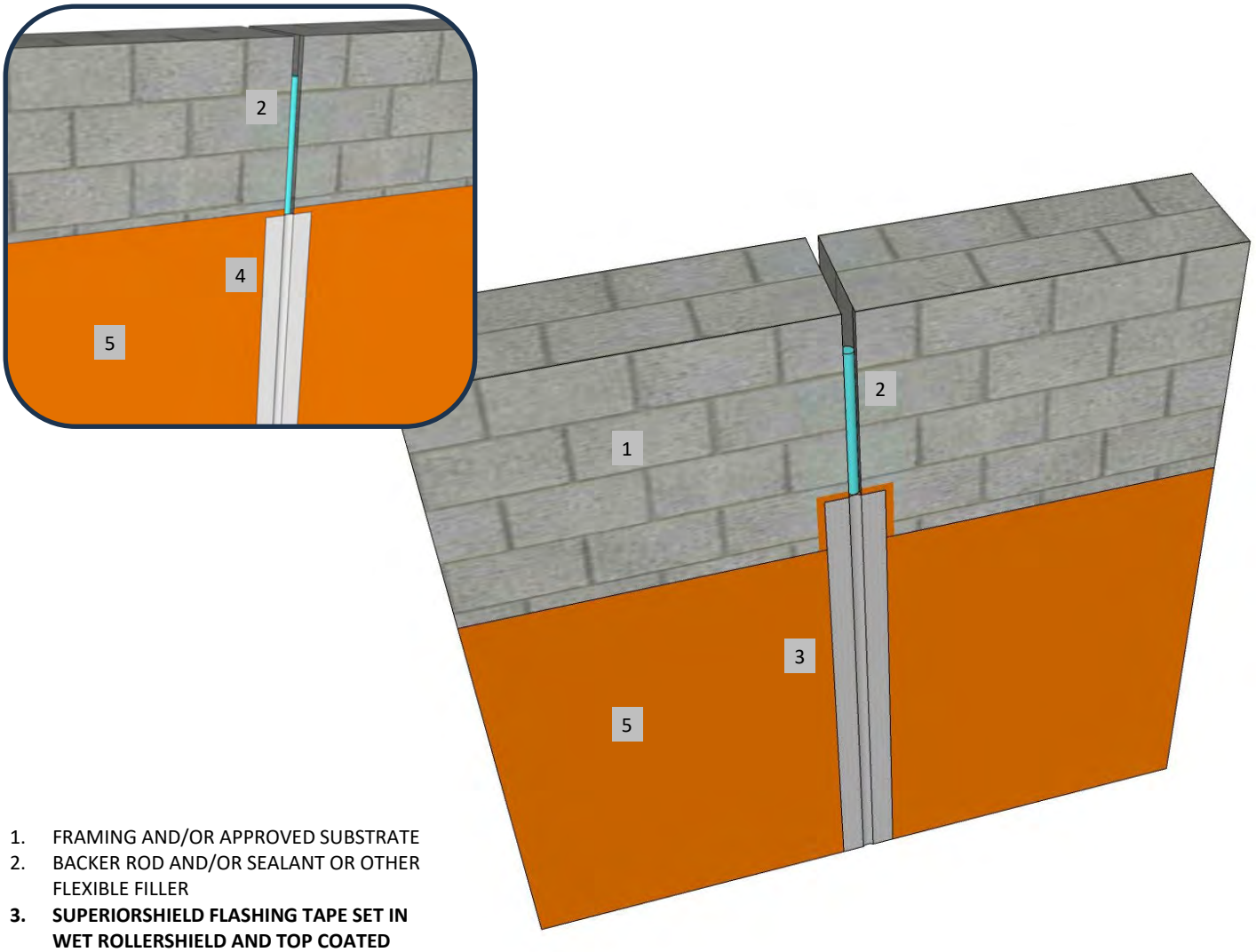
SYSTEM DETAIL



1. FRAMING AND/OR APPROVED SUBSTRATE
2. BACKER ROD AND/OR SEALANT OR OTHER FLEXIBLE FILLER
3. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD AND TOP COATED WITH ROLLERSHIELD (ALTERNATE SUPERIORFLASH)**
4. **SUPERIORSHIELD WEATHERSTOP TAPE OPTION**
5. **ROLLERSHIELD AIR/WATER BARRIER**

RSLAB-17 TYPICAL BUILDING EXPANSION OR CONTROL JOINT

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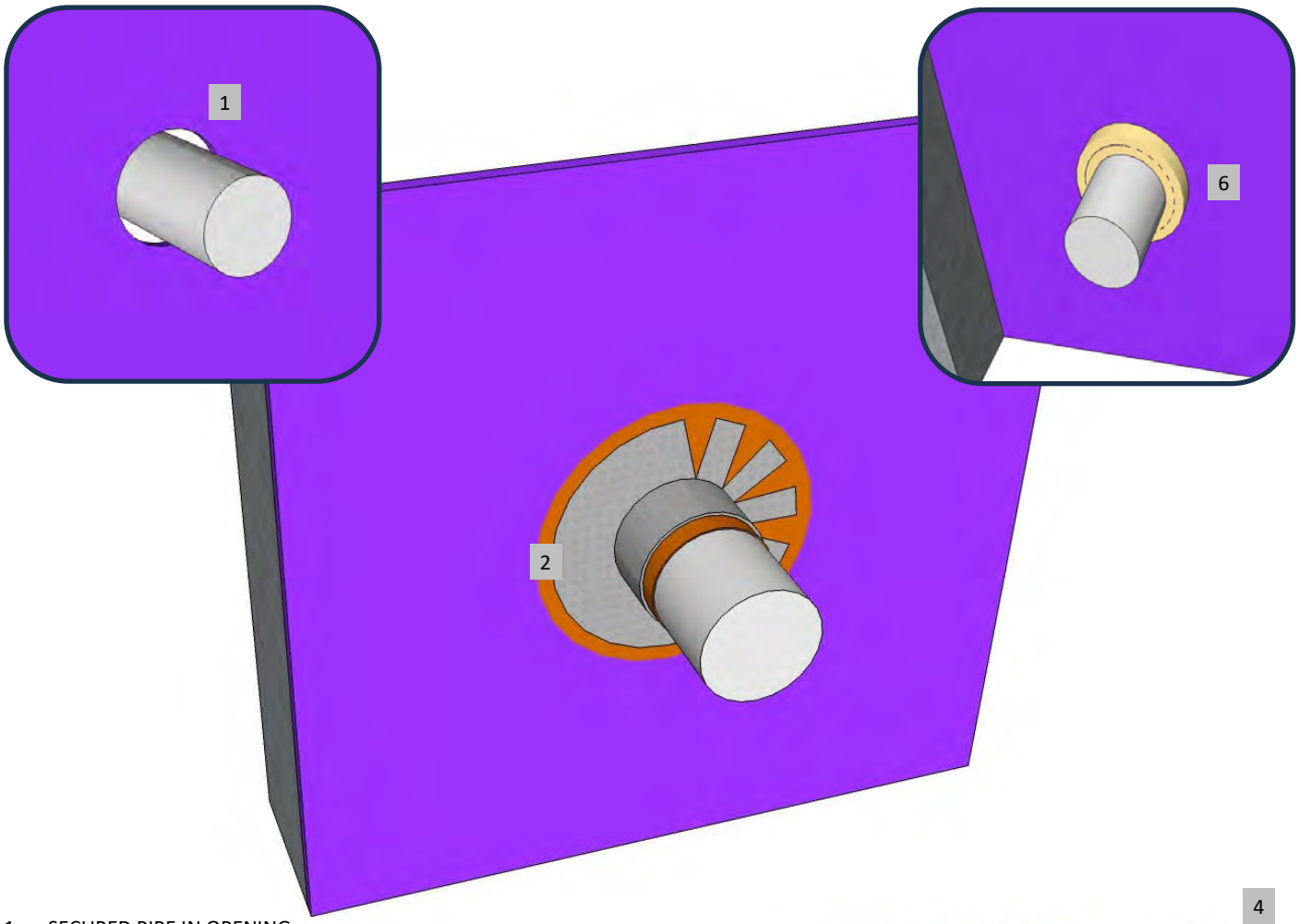
SYSTEM DETAIL



1. SECURED PIPE IN OPENING
2. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD, TYPICALLY 6X THE PIPE DIAMETER WILL BE REQUIRED FOR PROPER EMBEDMENT (ALTERNATE SUPERIORFLASH AT THIS LOCATION)**
3. **ROLLERSHIELD FLASHING TAPE CUT AS SHOWN**
4. **PIPE SIDE OF FLASHING**
5. **WALL SIDE OF FLASHING**
6. INTERIOR SEALANT

RSLAB-18 TYPICAL PIPE PENETRATION

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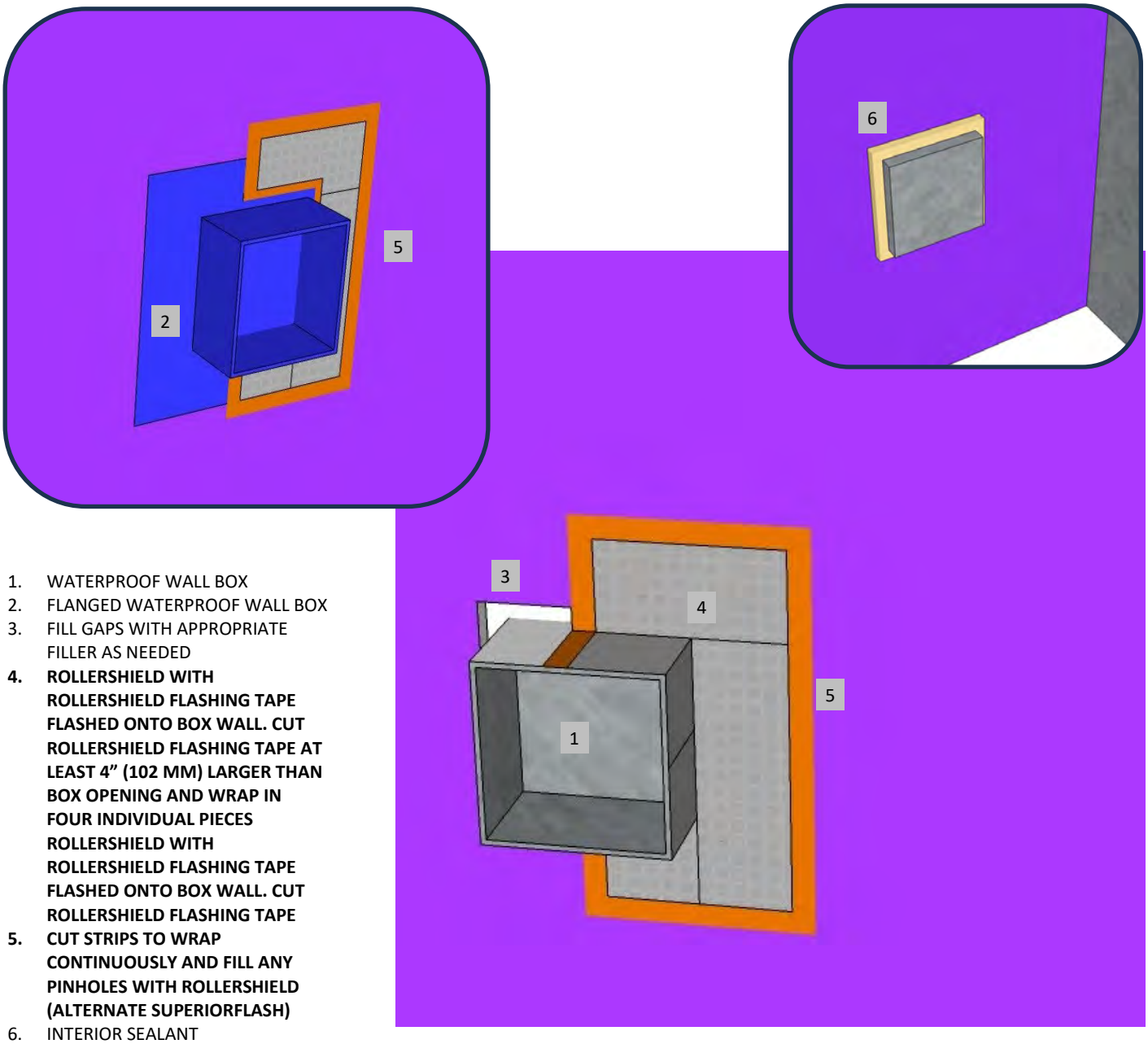

1. WATERPROOF WALL BOX
2. FLANGED WATERPROOF WALL BOX
3. FILL GAPS WITH APPROPRIATE FILLER AS NEEDED
4. **ROLLERSHIELD WITH ROLLERSHIELD FLASHING TAPE FLASHED ONTO BOX WALL. CUT ROLLERSHIELD FLASHING TAPE AT LEAST 4" (102 MM) LARGER THAN BOX OPENING AND WRAP IN FOUR INDIVIDUAL PIECES ROLLERSHIELD WITH ROLLERSHIELD FLASHING TAPE FLASHED ONTO BOX WALL. CUT ROLLERSHIELD FLASHING TAPE**
5. **CUT STRIPS TO WRAP CONTINUOUSLY AND FILL ANY PINHOLES WITH ROLLERSHIELD (ALTERNATE SUPERIORFLASH)**
6. INTERIOR SEALANT

RSLAB-19 WATERPROOF BOX

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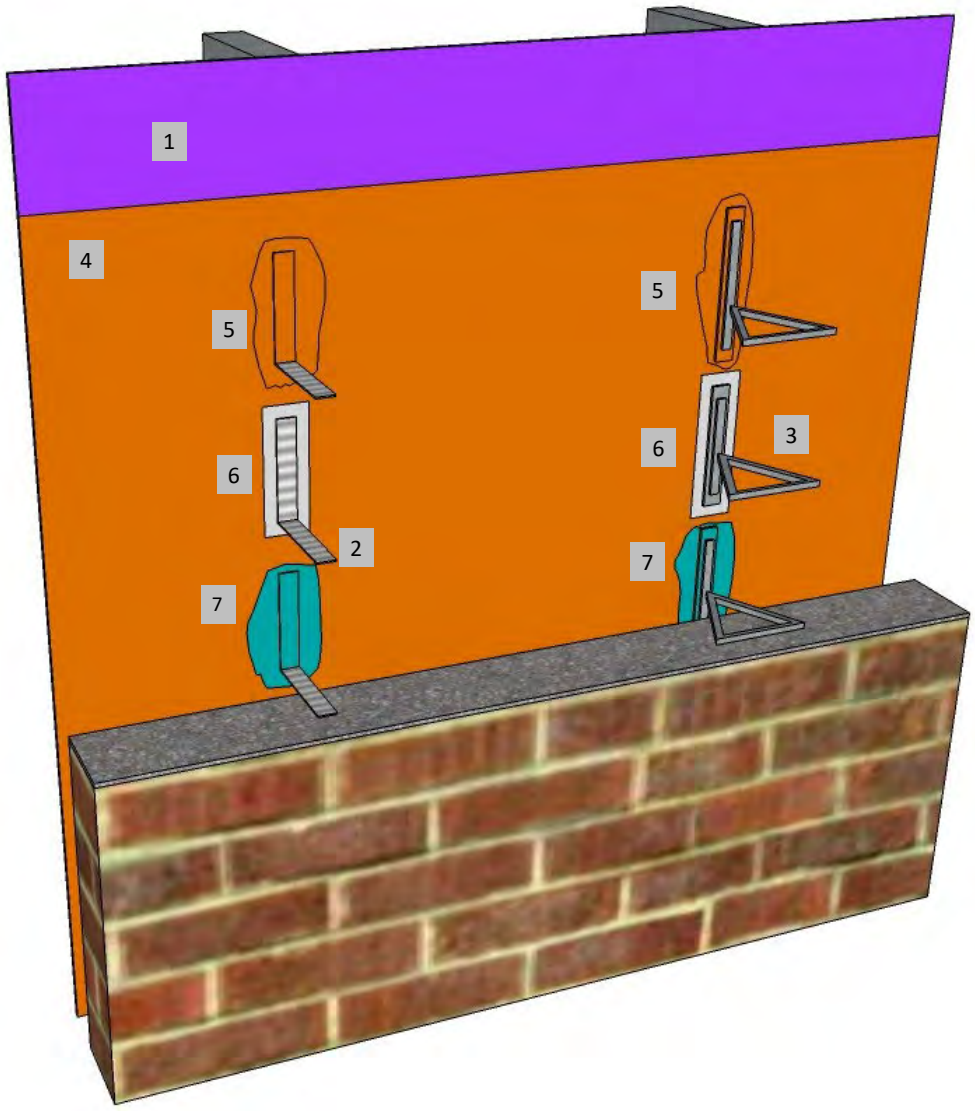

1. FRAMING & APPROVED SUBSTRATE
2. CORRUGATED BRICK TIE
3. SLIP OR INSULATED BRICK TIE
4. **ROLLERSHIELD AIR/WATER BARRIER**
5. **SEAL WITH ROLLERSHIELD**
6. **SEAL WITH WEATHERSTOP TAPE OR PEEL & STICK**
7. **SEAL WITH SUPERIORFLASH OR SUPERIORSHIELD SMP SEALANT**

RSLAB-20 BRICK TIE

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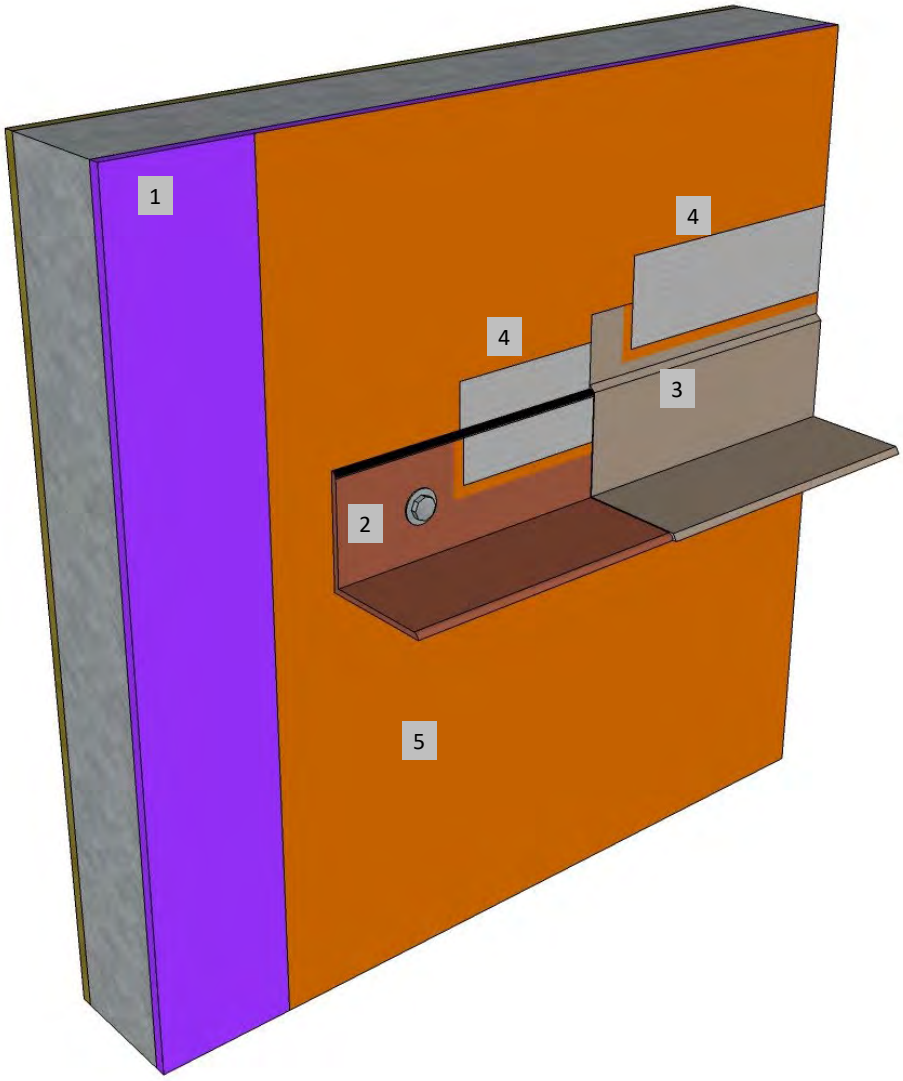

1. FRAMING & APPROVED SUBSTRATE
2. SHELF ANGLE
3. FLASHING
4. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH)**
5. **ROLLERSHIELD AIR/WATER BARRIER**

RSLAB-21 STRUCTURAL ANGLE

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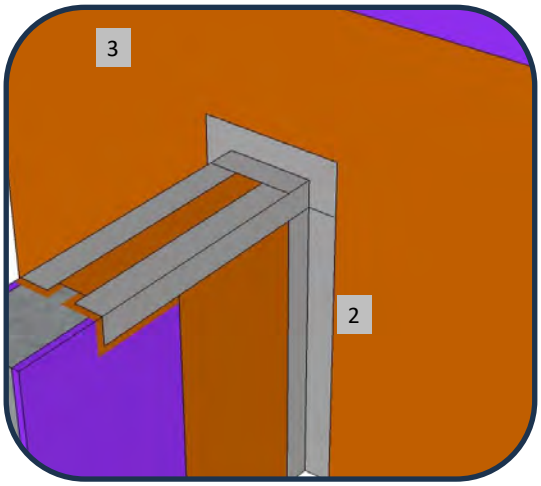

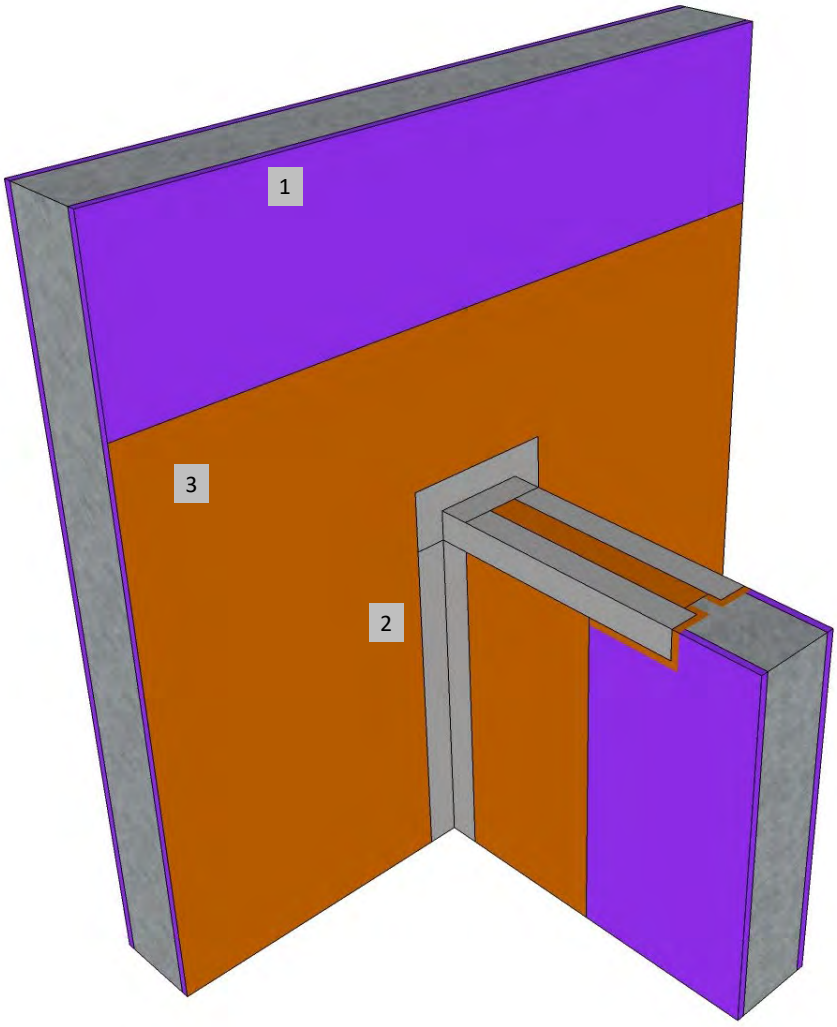

1. FRAMING & APPROVED SUBSTRATE
2. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH)**
3. **ROLLERSHIELD AIR/WATER BARRIER**

RSLAB-22 SADDLE WALL

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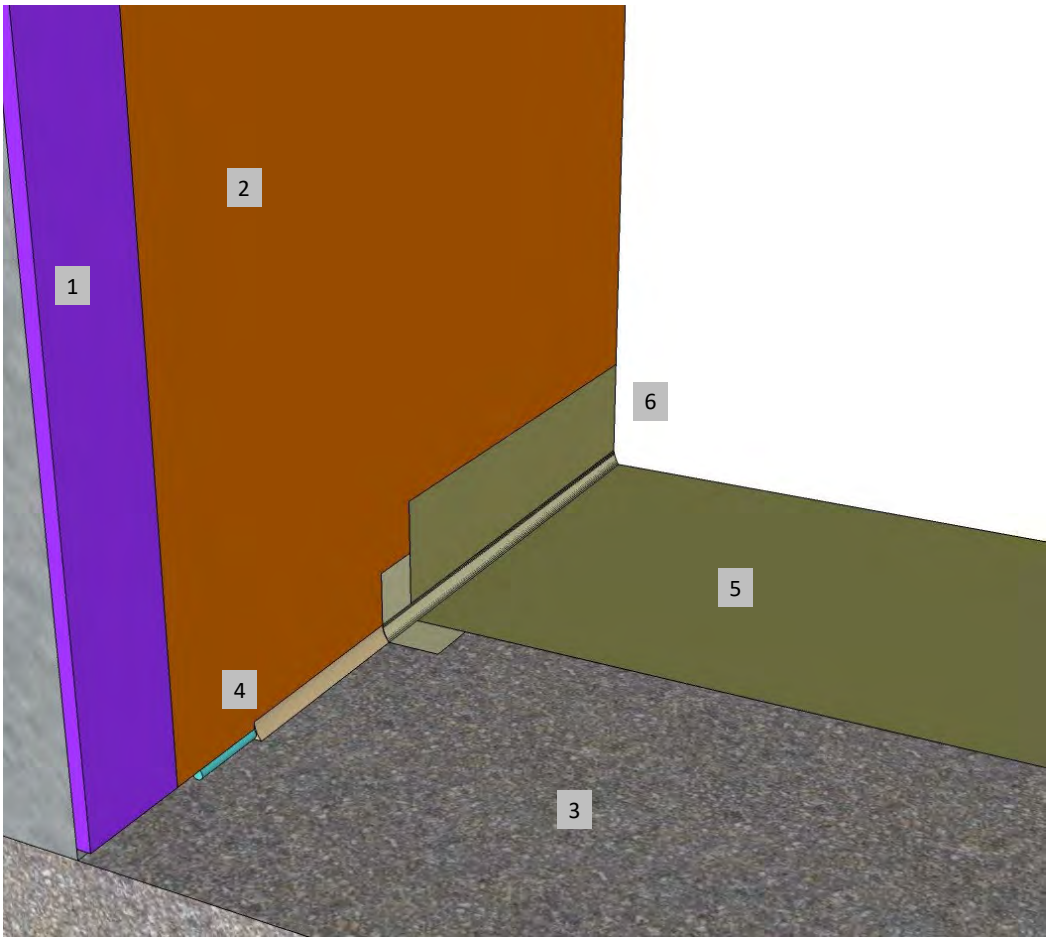

1. FRAMING & APPROVED SUBSTRATE
2. **ROLLERSHIELD AIR/WATER BARRIER**
3. CONCRETE SUBSTRATE
4. TOPPING MANUFACTURER APPROVED SEALANT AND BACKER ROD (DESIGNS VARY)
5. COMPATIBLE WATERPROOF TOPPING
6. EXTEND TOPPING 4” (102 MM) MIN. UP WALL

RSLAB-23 DECK TERMINATION

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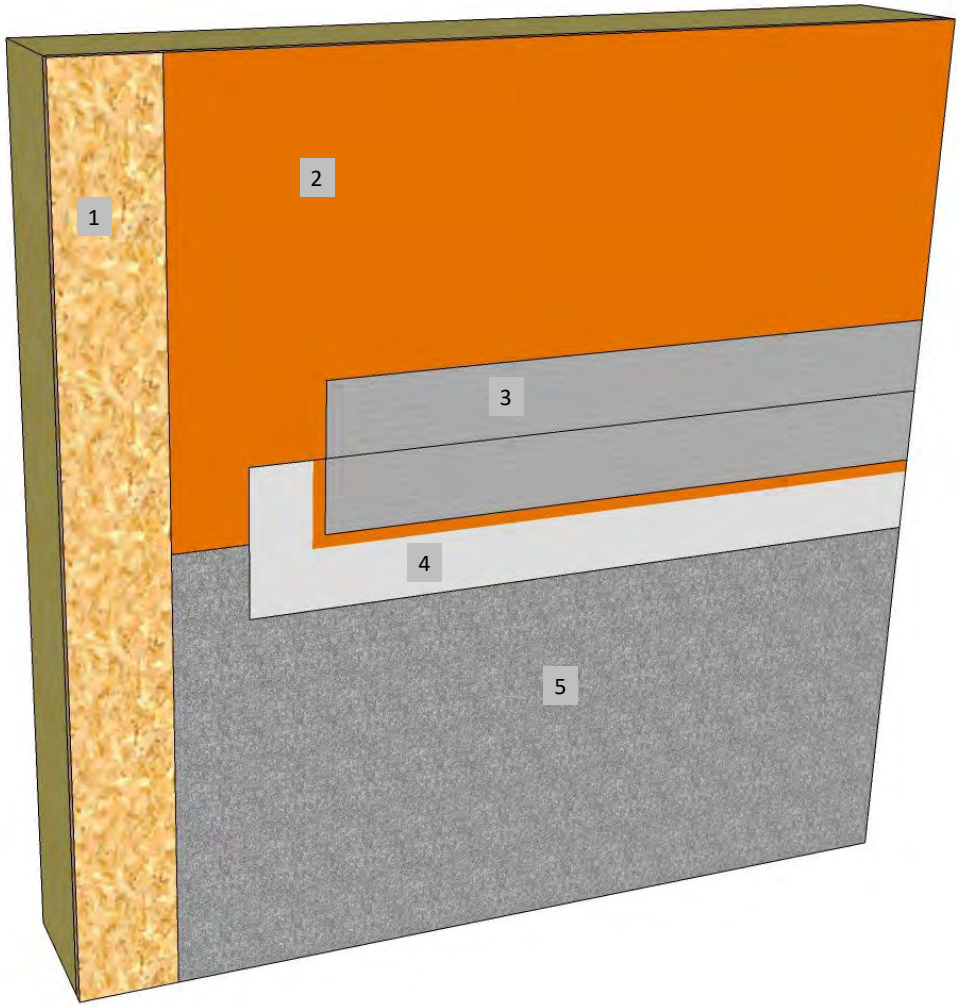

1. FRAMING & APPROVED SUBSTRATE
2. **ROLLERSHIELD AIR/WATER BARRIER**
3. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH)**
4. **WEATHERSTOP TAPE**
5. SHEET WATER BARRIER

RSLAB-24 TRANSITION TO SHEET WATER BARRIER

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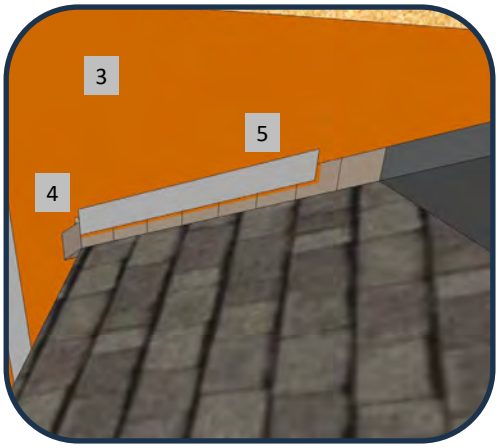

1. FRAMING & APPROVED SUBSTRATE
2. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH)**
3. **ROLLERSHIELD AIR/WATER BARRIER**
4. KICK OUT FLASHING ANGLE KICK-OUT FLASHING 100° MINIMUM TO ALLOW FOR DRAINAGE. KICK OUT FLASHING SEAMS MUST BE SOLDERED OR SEALED WITH APPROPRIATE SEALANT
5. **ROLLERSHIELD SHOULD COVER THE STEP FLASHING A MINIMUM OF 2" (51 MM) AND SIDING SHOULD BE PLACED ABOUT 1" TO 2" (25-51 MM) ABOVE THE ROOFLINE IN ACCORDANCE WITH LOCAL REQUIREMENTS.**
6. ROOF STEP FLASHING, EXTEND UP SIDEWALL 4" (102 MM) MIN.
7. ROOFING FELT, EXTEND UP SIDEWALL 4" (102 MM) MIN.
8. ROOF SYSTEM: ROOF SHINGLES (07300), ROOF FELT TURNED UP WALL 4" (102 MM) MIN, ROOF STEP FLASHING AND DRIP EDGE

RSLAB-25 TYPICAL ROOF/WALL INTERSECTION

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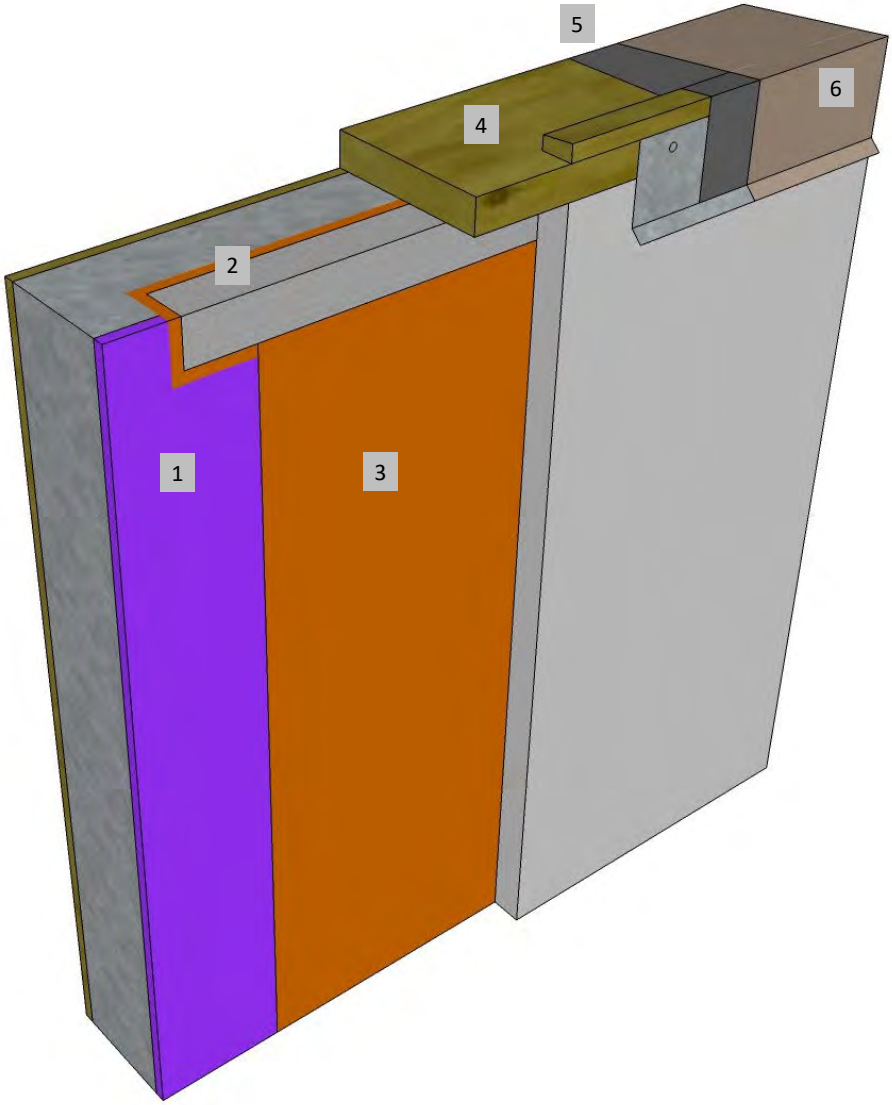

1. FRAMING & APPROVED SUBSTRATE
2. **SUPERIORSHIELD FLASHING TAPE SET IN WET ROLLERSHIELD (ALTERNATE SUPERIORFLASH)**
3. **ROLLERSHIELD AIR/WATER BARRIER**
4. TREATED NAILER
5. ROOFING – EXTEND OVER CONTINUOUS CLEAT
6. COPING CAP WITH CONTINUOUS CLEAT – EXTEND 2" (51 MM) MIN OVER EIFS AND STUCCO AND SEAL LOWER EDGE. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR OTHER SIDING MATERIALS

RSLAB-26 ROOF CAP

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