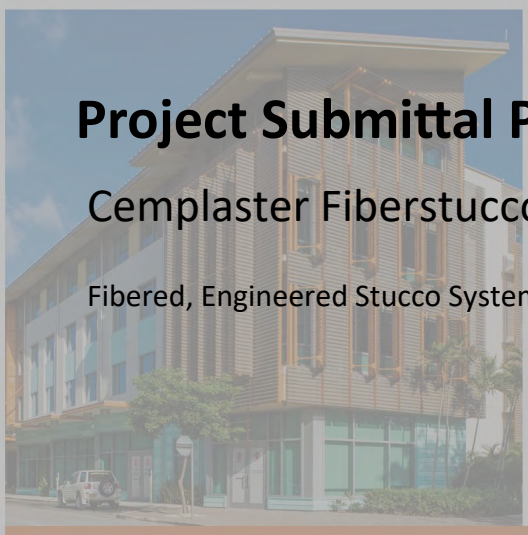

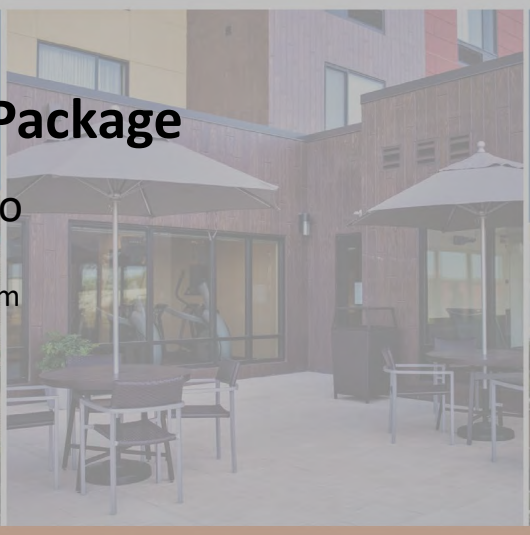

Project Submittal Package

Cemplaster Fiberstucco

Fibered, Engineered Stucco System

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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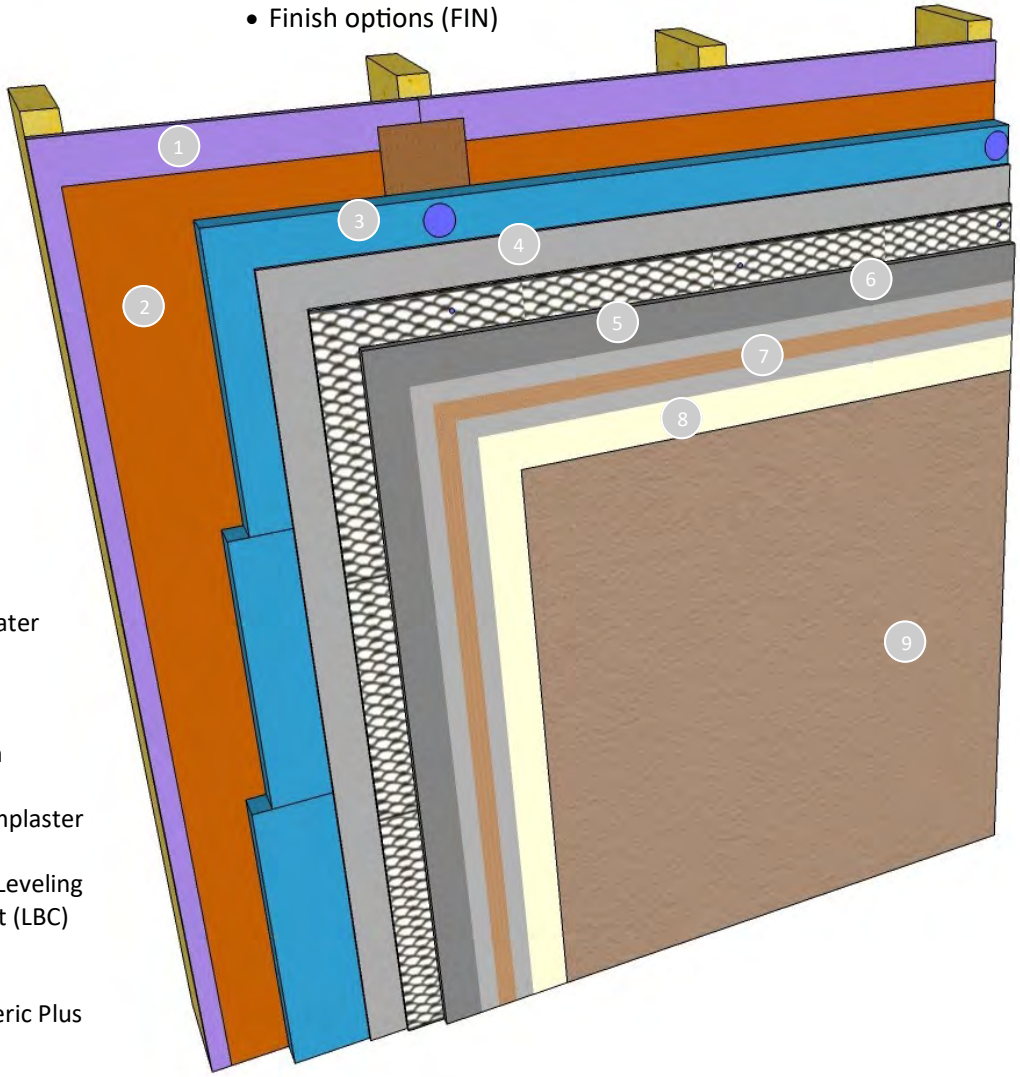
09 24 00/09 25 00

CEMPLASTER FIBERSTUCCO SYSTEM

Master Wall® Cemplaster Fiberstucco System is an engineered, fiber-reinforced stucco using our Cemplaster Fiberstucco or Cobrand stucco products in an easy to use packaged assembly. Available in concentrate and ready versions, it offers improved durability compared to traditional stucco with easier application, better product consistency and technical support throughout the application process. Cemplaster Fiberstucco is available as a basic system (stucco & finish) or it can be upgraded with additives, rainscreen mats, continuous insulation leveling base coats and finishes.

Features & Benefits

- Premium fibered stucco system with a warranty
- Variable warranty options: choose popular additions to customize your system or let us design one for you
- Up to 20-year limited labor/material warranties available
- Options
  - Water barriers (WRB)
  - Continuous Insulation (CI)
  - Drainage options (DRS)
  - Cemplaster Fiberstucco options from 3/8” to 7/8” thick (CFS)
  - Reinforcement options (SRM, LBC)
  - Finish options (FIN)



1. Framing & Sheathing (by others)
2. SuperiorShield Rollershield Air/Water Barrier or other approved WRB
3. Continuous Insulation (CI) option
4. Drainage Spacer (DRS) option
5. Cemplaster Fiberstucco (CFS) with reinforcement
6. Stucco Additive (SA) option in Cemplaster mix option
7. Surface Reinforcing Mesh (SRM), Leveling Base Coat or Reinforced Base Coat (LBC) option
8. Primecoat Primer (PRIME) option
9. Superior Finish, Superior Elastomeric Plus or Specialty Finish (FIN) options

Choose your system and your warranty, or let us custom design one for you

When you improve your stucco you improve your warranty. Choose the options you want for your project, or give us a call and we will custom design a system for you. Warranties add up and the extensions in years are noted in **orange**.

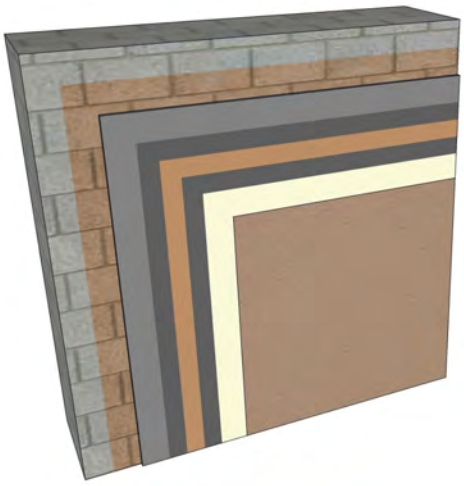
Weather Resistive Barriers (WRB), Continuous Insulation (CI) and Drainage Spacers (DRS)

- ☐ ***WRB01*** 2- ASTM D226 Asphalt Felt or other code required minimum (minimum over sheathing) **(0 Years)**
- ☐ ***WRB02*** Tyvek® StuccoWrap® or similar with 1-layer of ASTM D226 Asphalt Felt (over sheathing) **(0 Years)**
- ☐ ***WRB03*** Master Wall Rollershield with 1-layer of ASTM D226 Asphalt Felt (over sheathing) **(+5 Years)**
- ☐ ***WRB04*** Master Wall Rollershield (over concrete or masonry, slip sheet and lath required) **(+5 Years)**
- ☐ ***CI01-03*** Continuous Insulation: Expanded, Extruded, Polyisocyanurate, Mineral Wool **(0 Years)**
- ☐ ***CI04*** External Insulation **(0 Years)**
- ☐ ***DRS00*** No Drainage Spacer **(0 Years)**
- ☐ ***DRS01*** Drainage Mat: Spacer Type **(0 Years)**
- ☐ ***DRS02*** Rainscreen: Cosella-Dörken Products, Inc. Delta® -Dry, Delta® -Dry Plus or Keene Driwall™ Rainscreen 020-1 **(+1Year)**

Cemplaster Fiberstucco Warranty Program Products (CFS)

- ☐ ***CFS01*** Master Wall Cemplaster Fiberstucco* with 17 or 20 ga. woven wire fabric or STRUCTA**LATH** III reinforcement, 3/8" thick **(+2 Years)**
- ☐ ***CFS02*** Master Wall Cemplaster Fiberstucco* direct to Masonry/Concrete (no Rollershield), 3/8"-1/2" thick **(+3 Years)**
- ☐ ***CFS03*** Master Wall Cemplaster Fiberstucco* with 2.5#/sy self-furring, MW Fibalath™ or STRUCTA Twin Trac reinforcement , 1/2" thick **(+3 Years)**
- ☐ ***CFS04*** Master Wall Cemplaster Fiberstucco* with 3.4#/sy self-furring, MW Fibalath™ or STRUCTA Mega Lath reinforcement, 3/4" thick **(+4 Years)**
- ☐ ***CFS05*** Master Wall Cemplaster Fiberstucco* with 3.4#/sy self-furring reinforcement, 7/8" thick **(+4 years)**

**Cemplaster Fiberstucco available with certain QUIKRETE® and WESTERN Blended products as part of our warranty program.*



Direct application of Cemplaster Fiberstucco to CMU using BA57 bonding agent, reinforced WeatherSTOP waterproof base coat, Primecoat and Superior Finish

Stucco Additives (SA)

- ☐ ***SA00*** No Stucco Additives **(0 Years)**
- ☐ ***SA01*** Master Wall Stucco Ad Liquid, 3 qt per mix of CFS Concentrate, 1 qt per bag of Ready CFS **(+1 Year)**
- ☐ ***SA02*** Master Wall Stucco Ad Liquid, 2 gal per mix of CFS Concentrate, 3 quarts per bag of Ready CFS **(+2 Years)**
- ☐ ***SA03*** Master Wall Stucco Ad Liquid, 5 gal per mix of CFS Concentrate, 1-1/2 gal per bag of Ready CFS **(+3 Years)**

Surface Reinforcing Mesh (SRM) & Leveling Base Coats (LBC)

- ☐ ***SRM00*** No Surface Reinforcing Mesh **(0 Years)**
- ☐ ***SRM01*** Bulltec Reinforcing Mesh embedded into wet stucco brown coat **(+1 Year)**
- ☐ ***LBC00*** No Leveling Base Coat **(0 Years)**
- ☐ ***LBC01*** F&M, F&M Plus, MBB, MBB Plus, Guardian or WeatherSTOP Skim Coat **(+1 Year)**
- ☐ ***LBC02*** F&M, F&M Plus, MBB, MBB Plus, Guardian or WeatherSTOP Skim Coat with Master Wall Standard Reinforcing or Bulltec Mesh **(+2 Years)**

Primers (PRIME), Finish Additives (FA), Finish Options (FIN)

- ☐ ***PRIME00*** No Primer **(0 Years)**
- ☐ ***PRIME01*** Primecoat or Sanded Primecoat tinted primer **(+1 Year)**
- ☐ ***FIN01*** Superior Finish/Specialty Finish **(+1 Year)**
- ☐ ***FA01*** Excel Additive (to any finish) **(+0.5 Year)**
- ☐ ***FA02*** Silicone Coat (to any finish) **(+0.5 Year)**
- ☐ ***FIN02*** Superior Elastomeric Plus Finish **(+3 Years)**

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Cemplaster Stucco

Sample Labor & Material Limited Warranty

Master Wall Inc.® warrants the properly designed and installed Cemplaster Stucco System and materials for terms noted above 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. Cemplaster Stucco may have hairline cracks, spalling, fastener popping or efflorescence, which are not considered product defects. 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 a sample of the warranty and is not the final warranty. A final warranty must be requested to be valid.

Compliance Standards

UES Evaluation Report 384, Rollershield Water Barrier, Evaluation Report CCRR-0215, Master Wall Cemplaster Fiberstucco, Evaluation Report ER-0821, Cemplaster Fiberstucco L, QUIKRETE® Stucco Cobrand in Warranty Program, ER-0455, Western Blended Stucco Cobrand in Warranty Program, ER-0821, ASTM C67, ASTM C109, ASTM E330, ASTM G26, ASTM E84, ASTM E119, ASTM E136, NFPA 285

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Rollershield LAB

07 27 00 **Liquid Applied Air/Water Barrier**

100%

When it comes to keeping your building dry you want 100% protection, and can't settle for less. Sheet water barriers have laps, gaps and are secured with fasteners...holes. At windows and doors peel and stick flashings don't seal properly or lose bond over time.

The Rollershield LAB Air/ Water Barrier System is a fluid applied secondary water barrier and flashing that offers 100% coverage with no laps, breaks or holes. It seals the substrate and protects the building.

Let me Breathe!

Like people, buildings breathe and are continuously passing water vapors around depending upon interior and exterior conditions. While Rollershield is an excellent water barrier, it's also highly breathable (30 perms). This means that building moisture can pass easily and eliminates the problems posed by vapor barriers.

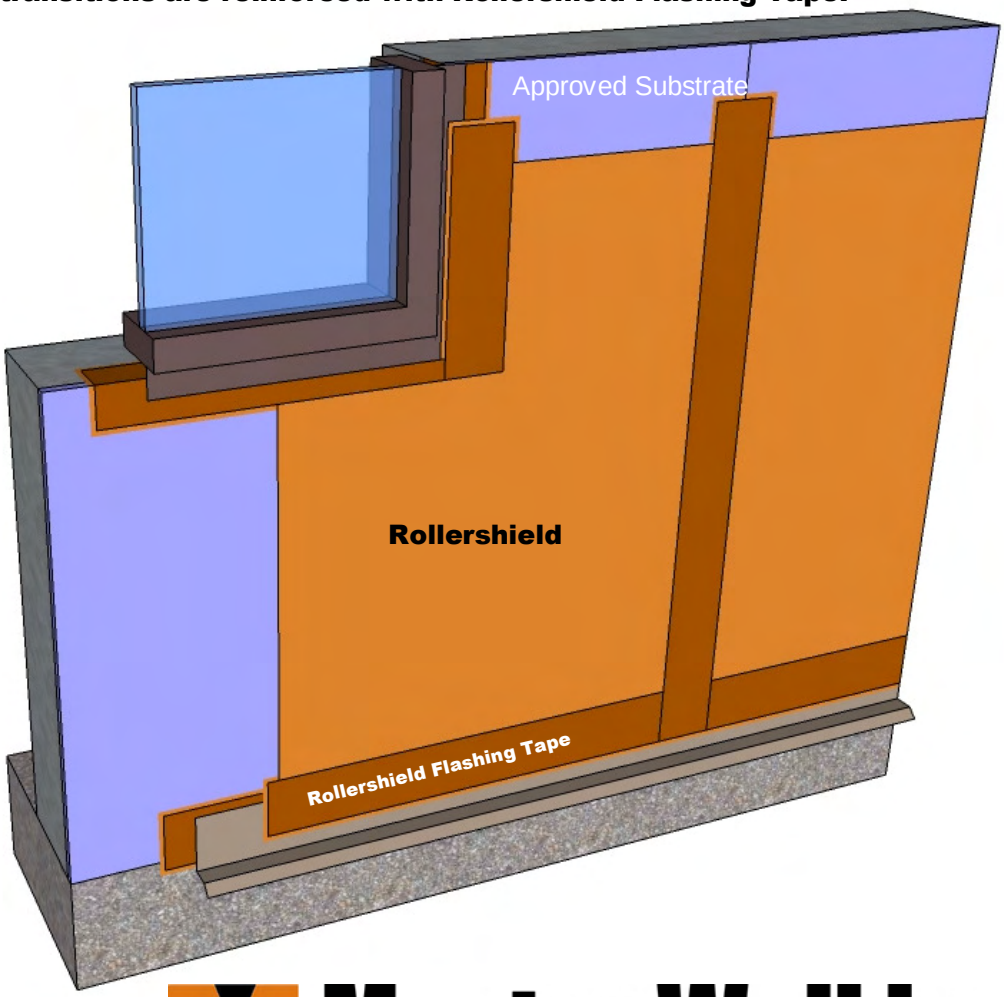
System Use

- **Commercial**
- **Residential**

The Rollershield LAB Liquid-applied Air/Water Barrier system works under all claddings that require a secondary water barrier including stone, brick, stucco and Master Wall® EIFS. The system consists of the following components:

- **Rollershield Air/Water Barrier, supplied in 5 gallon (19L) pails**
- **Rollershield Flashing Tape for openings and sheathing applications**

Rollershield is applied with a foam roller or spray equipment to 10 mils dry thickness and forms a continuous water barrier. Sheathing board joints and transitions are reinforced with Rollershield Flashing Tape.



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Rollershield LAB

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.® Rollershield LAB System is a liquid applied vapor permeable 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.

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 & Flashing Tapes:

1. Rollershield: A 100% pure acrylic-based roll-applied weather-resistive barrier.
2. Rollershield Flashing Tape: A lightweight nonwoven joint treatment material.

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.

ASTM C297 Tensile Bond

Dens Glass Gold	31.6 psi
Exterior Gypsum	28.2 psi
OSB	40.4 psi
Plywood	79.1 psi
Cement Board	70.6 psi
Copper	185.1 psi
Galvanized Steel	180.8 psi
Rigid PVC	168.2 psi
Aluminum	184.2 psi
Color Coated Aluminum	203.5 psi
Stainless Steel	183.0 psi

ASTM D1970

@ 22 mils dft	Pass

ASTM D2247 Water Resistance/ICC-ES AC212

Exterior Gypsum	Pass
Dens Glass Gold	Pass
Cement Board	Pass
Plywood	Pass
OSB	Pass

ASTM E-84 Combustibility

Flamespread-5
Smoke Developed-5

ASTM E96 Water Vapor Transmission

203 g/24 hr/m^2
30.5 perms

ASTM E2178 Air Permeability

0.0002 cfm/ft^2 at 1.57 psf

ASTM E2273 EIFS Drainage Performance

ICC-ES AC212 99.2% Efficiency

ASTM E2357 Air Leakage Resistance

0.003 L/s·m^2 @ 75 Pa
0.02 L/s·m^2 @ 300 Pa

ICC-ES AC212 Full Scale Conditioning and Water Testing Pass

ICC-ES AC212 Freeze Thaw

Plywood	Pass
Cement Board	Pass
OSB	Pass
Exterior Gypsum	Pass
Dens Glass Gold	Pass

ICC-ES AC212 Weathering, 55 cm Head

Exterior Gypsum	Pass
Dens Glass Gold	Pass
Cement Board	Pass
OSB	Pass
Plywood	Pass

NFPA 285 Multi-Story Fire Test

Pass

We finish strong.

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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.

220701

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Product Data

Master Wall® Insulation Board — Type X

Insulate your Master Wall® stucco project with extruded insulation board. Extruded insulation boards wrap the entire building to keep interior temperatures more consistent. It helps to reduce thermal bridging at framing.

Board Sizes

2' x 8' (.61m x 2.4m)

4' x 8' (1.2m x 2.4m)

Edge Profile:

Square Edge, Tongue and Groove Edge

Board thickness:

Maximum 2" (51mm)
Minimum 3/4" (19.1mm)

Technical Data

Meets or Exceeds ASTM C578, ASTM C273, ASTM E2430, ASTM E2568.

ASTM C578, Type X

Minimum Density: 1.30 pcf

R-Value (U-Value) at 75°F (9°C): 5.0 (0.20)

Compressive strength, min., PSI (kPa): 15.0 (104)

Flexural Strength, min., PSI (kPa) : 40 (276)

Water Vapor Permeance of 1.00 in (25.2 mm) thickness, max., perm (ng/Pa.s.m^2): 1.5 (86)

Water absorption by total immersion, max., volume, % : 0.3

Dimensional stability (change in dimensions), max., %: 2.0
Oxygen index, min., volume, %: 24.0

Flame spread, max.: 25.0

Smoke development, max. 450

For a full listing of approved manufacturers please reference the insulation board page at masterwall.com

Features & Benefits

- Continuous Insulation for Wall Assemblies
- Reduces air movement in wall
- Reduces life cycle CO2 emissions
- Controls dew point / moisture condensation in wall
- Long lasting, strong, stable
- HCFC Free
- 20% Pre-consumer Recycled Content

Application Procedure

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

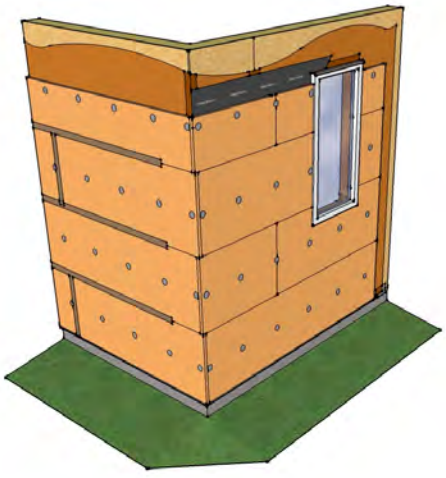
Substrate Preparation – Applications must be to an approved substrate with a maximum variation tolerance of 1/4" in 10'-0" (6.4 mm in 3.05m). Contact Master Wall for approved substrates and recommended attachment methods.

Application
The Insulation Board can be easily cut using handsaws, power saws, sharp knives, or thermal cutting tools.

Install insulation tightly in accordance with Master Wall Inc.® and manufacturer recommendations in a running bond pattern, interlock inside and outside corners.

Fasten insulation boards in place using approved fastening method in the center of the board at framing locations. In general attach the insulation board to the framing members at the center of the board using approved fasteners and support plates such as Wind-Lock Lath Lock or ULP 302, Demand DP300, Buildex Gridmate or Master Wall® approved equal.

Provide closure where insulation board is exposed at grade. Reference Plastic Accessories data sheet or use metal closure where fire resistance is needed.



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Drainage Media

Systems
Aggre-flex Drainage EIFS
Cemplaster Fiberstucco
QRW1 Drainage EIFS
Stucco Cement Board Coatings

Approved Manufacturers

Advanced Building Products Inc.

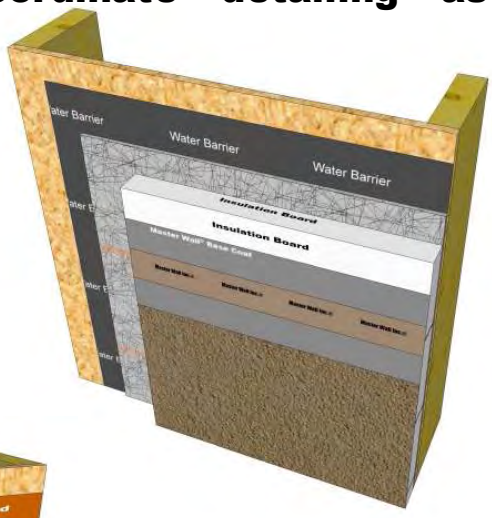
Benjamin Obdyke

Cosella-Dorken

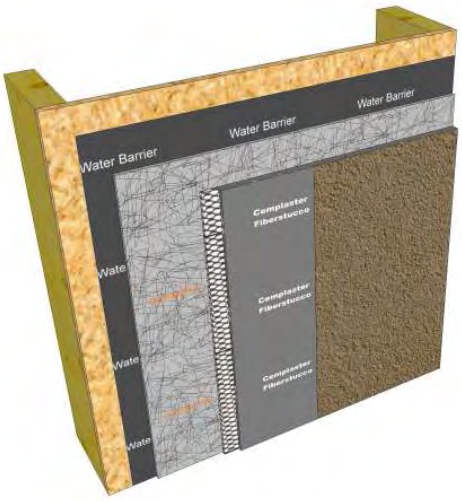
Keene Building Products

Plastic Components

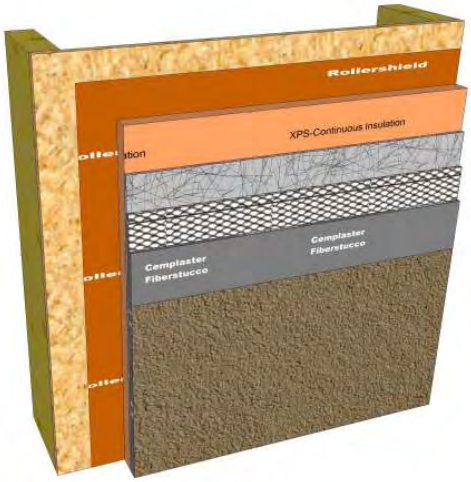
Drainage media has been used behind Master Wall® Systems for many years. The drainage media can vary from a very thin cross section material, a thicker version designed to prevent capillary action to a true ventilated wall cavity. The designs will vary and Master Wall® is available to help coordinate detailing as needed.



Drainage Mat under Aggre-flex Drainage EIFS



Drainage Mat under Cemplaster Fiberstucco



Drainage Mat under Insulated Cemplaster Fiberstucco

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Drainage Media

The following manufactures are approved by Master Wall Inc.®:

Manufacturer	Product	Type	Approved Systems	Comments
Advanced Building Products Inc. **advancedbuildingproducts.com**	Mortairvent	Rainscreen Mat with Backer Fabric, 6 mm & 10 mm	Aggre-flex Drainage EIFS, Cemplaster Stucco, OCS, Stucco Cement Board Coatings, QRW1 Drainage EIFS	Minimum 1–1/2" Insulation board required for EIFS, Two water barriers required under Master Wall stucco systems
Benjamin Obdyke **benjaminobdyke.com**	Home Slicker	Rainscreen Mat	Aggre-flex Drainage EIFS, Cemplaster Stucco, OCS, Stucco Cement Board Coatings, QRW1 Drainage EIFS	Minimum 1–1/2" Insulation board required for EIFS, weather barrier required behind stuccos to prevent bonding to mat
	Home Slicker Plus Typar	Rainscreen Mat with water barrier	Aggre-flex Drainage EIFS, Cemplaster Stucco, OCS, Stucco Cement Board Coatings, QRW1 Drainage EIFS	Minimum 1–1/2" Insulation board required for EIFS, weather barrier required behind stuccos to prevent bonding to mat
	Home Slicker Stone & Stucco	Rainscreen Mat with mortar fabric	Cemplaster Stucco, OCS	Two water barriers required under Master Wall stucco systems
Cosella-Dorken **cosella-dorken.com**	Delta Dry	True Ventilated Wall Cavity	Aggre-flex Drainage EIFS, Cemplaster Stucco, OCS, Stucco Cement Board Coatings, QRW1 Drainage EIFS	Provide ventilation path for moisture migration. Minimum 1–1/2" Insulation board required for EIFS, weather barrier required behind stuccos to prevent bonding to Delta Dry
Keene Building Products **keenebuilding.com**	Driwall Rainscreen 020-1	Rainscreen Mat with mortar fabric	Aggre-flex Drainage EIFS, Cemplaster Stucco, OCS, Stucco Cement Board Coatings, QRW1 Drainage EIFS	Minimum 1–1/2" Insulation board required for EIFS, weather barrier required behind stuccos to prevent bonding to mat
	Driwall Rainscreen 10mm	Rainscreen Mat with mortar fabric	Aggre-flex Drainage EIFS, Cemplaster Stucco, OCS, Stucco Cement Board Coatings, QRW1 Drainage EIFS	Minimum 1–1/2" Insulation board required for EIFS, weather barrier required behind stuccos to prevent bonding to mat
	Driwall Rainscreen 075	Wide Spaced Rainscreen Mat	Cemplaster Stucco, OCS	Two water barriers required under Master Wall stucco systems
	Driwall Rainscreen 075-1	Wide Spaced Rainscreen Mat with mortar fabric	Cemplaster Stucco, OCS	Two water barriers required under Master Wall stucco systems
Plastic Components **plasticomponents.com**	Ultra-Lath	Plastic Lath in sheets or rolls	Aggre-flex Drainage EIFS, Stucco Cement Board Coatings, QRW1 Drainage EIFS	Systems must be mechanically attached through plastic lath
Varies	Varies	2.5#/sy metal lath fastened to substrate in accordance with ASTM C1063	Aggre-flex Drainage EIFS, QRW1 Drainage EIFS	Aggre-flex Drainage may be adhered to the metal lath with F&M or MBB Adhesives, others must be mechanically attached through metal lath

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Stucco Accessories

Systems
Cemplaster Fiberstucco

Manufacture Locations:
Verify with manufacturer

Recycled Content:
Varies with manufacturer

Packaging (trims): Typically 10' lengths

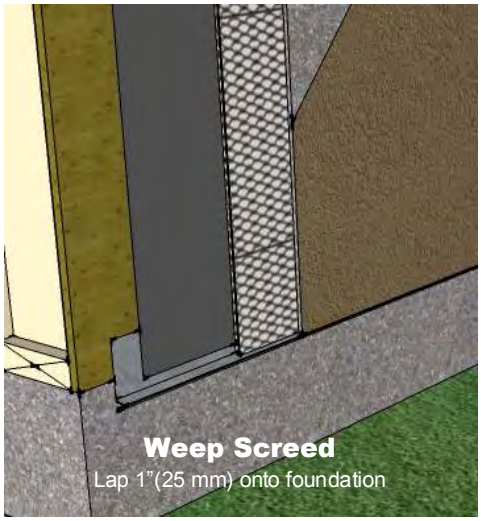
Weight: Varies

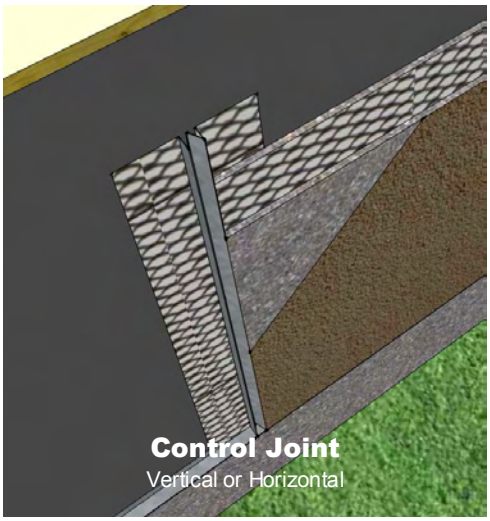
Typical Grounds (thickness): 3/8" (9.5mm), 1/2" (13mm), 5/8" (16mm), 3/4" (19mm), 7/8" (22mm)

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

Lath Reinforcement:
CFS01, 3/8" thick No. 17 gauge galvanized steel woven wire fabric, ASTM C1032.
CFS03, ½" thick 2.5 lb./yd^2 (1.4 kg/m^2) self-furred galvanized steel diamond mesh metal lath, ASTM C 847.
CFS03-SS, ½" thick 2.5 lb./yd^2 (1.4 kg/m^2) self-furred stainless steel diamond mesh metal lath, ASTM C 847.
CFS04 & 05, ¾ -7/8" thick 3.4 lb./yd^2 (1.8 kg/m^2) self-furred galvanized steel diamond mesh metal lath, ASTM C 847.
CFS04 & 05-SS, ¾ -7/8" thick 3.4 lb./yd^2 (1.8 kg/m^2) self-furred stainless steel diamond mesh metal lath, ASTM C 847, 304 or 316 stainless steel.

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





Manufacturers

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

CEMCO[2] 800-775-2362, www.cemcosteel.com

ClarkDietrich Building Systems[1,2,3] 513-870-1100, www.clarkdietrich.com

Plastic Components[1] 800-327-7077, www.plasticcomponents.com

Vinyl Corp.[1] 800-648-4695, www.vinylcorp.com

Wind-Lock[1] 800-872-5625, www.wind-lock.com

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

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Stucco Accessories

Application Procedure

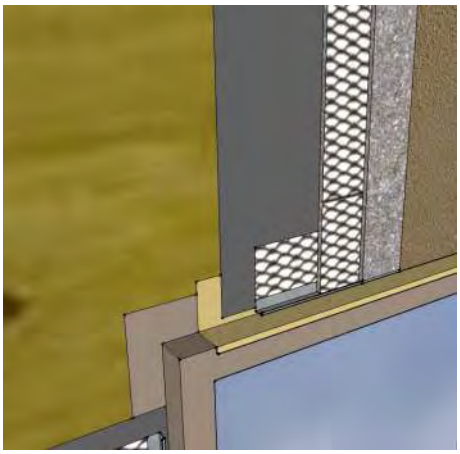
After satisfactory inspection of surfaces and correction of any deviations from specification requirements commence the Cemplaster Fiberstucco installation in accordance with Master Wall Specifications.

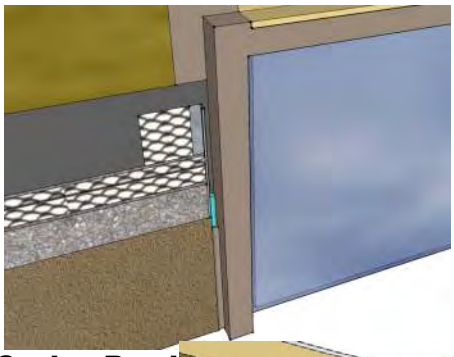
Weep Screed Installation
Install foundation weep screed at the base of the wall securely to framing with the appropriate fastener. Locate foundation weep screed so that it overlaps the joint between the foundation and framing by a minimum of 1 inch (25 mm). Locate the foundation weep screed minimum 4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

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

Casing Bead and Expansion Joint Installation
Install casing beads at Cemplaster Fiberstucco terminations—doors, windows and other through wall penetrations. Install expansion joints (or back-to-back casing beads) at building expansion joints, where the Cemplaster Fiberstucco is to be installed over dissimilar construction or substrates, at changes in building height, at floor lines, columns, and cantilevered areas. Install full accessory pieces where possible and avoid small pieces. Seal adjoining pieces by embedding ends in sealant. Abut horizontal into vertical joint accessories. Attach at 6-inch (152 mm) centers into framing with appropriate fasteners.
(Note: refer to architectural drawings for joint locations and accessory type. Moisture protection must be continuous behind joints and accessories.)

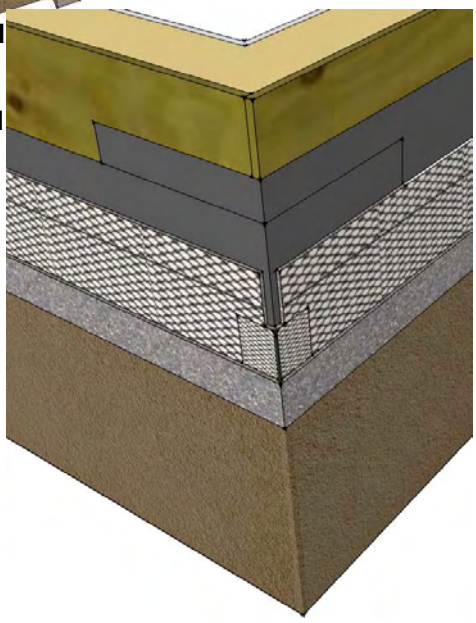
Control Joint Installation
Install control joints every 144 ft2 (13.4 m2) for walls and 100 ft2 (9.3 m2) maximum (as indicated on the construction documents). Tack in place as insure proper alignment during the application of the lath. Wire tie control joints to lath at 6 inches (152 mm) on center if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





Casing Bead
(above)

Corner Bead
(below)



Lath Installation
Diamond Mesh Metal Lath: General--install metal lath with the long dimension at right angles to structural framing. Terminate lath at expansion joints. Do no install continuously beneath joints. Seams/overlaps – overlap side seams a minimum of ½ inch (13 mm) and end seams a minimum 1-inch (25 mm). Stagger end seams. Overlap casing beads and expansion joints minimum 1 inch (25 mm) over the narrow wing accessories and 2 inches over expanded flange accessories. Attachment--fasten securely through sheathing into structural framing at 6 inches (152 mm) on center maximum vertically and 16-24 inches (41-61 cm) on center horizontally*. Wire tie horizontal laps at 8 inches (204 mm) on center at: side laps, accessory overlaps, and where end laps occur between supports.

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

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

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

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

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

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Stucco Ad-Liquid

Systems
Cemplaster Fiberstucco
Traditional Stucco
Branded Manufactured Stucco

VOC: 5 g/l
Manufacture Locations:
30058 • 77474 • 84651
Recycled Content: 0%

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

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

Shelf Life: 2 years

Suggested Levels (Varies)

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

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

Stucco Ad-Liquid is an easy to use polymer modifier that is added directly to traditional stucco or Cemplaster Fiberstucco mix to improve the overall quality of the material.

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

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Stucco Ad-Liquid

Temp: 40°-110°F (5°-43°C) • Working Time: 1.5 hr • Dry Time: 72 hrs
at room temperature, working and drying time will vary with temperature and humidity

Application Procedure

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

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

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

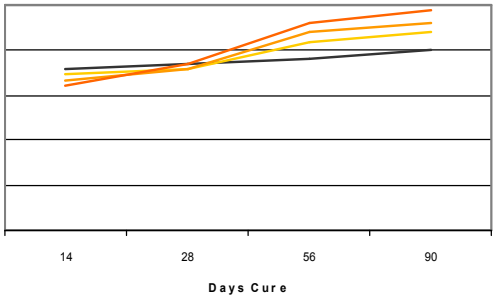
Mixing – Use non air entrained stucco mix. Slowly add Stucco Ad-Liquid to the mixture and mix for a short time (about 1 to 2 minutes) to avoid air entrapment.

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

For Professional Results
Do not use with air entrained cement mixes or with air entraining admixtures.
Do not use where air circulation is limited.
Protect from extreme water exposure for a minimum of 24 hours.
Fogging the wall is not recommended when Stucco Ad-Liquid is used.
Do not use as a stucco surface primer or external bonding agent—use Primecoat or Roller-flex depending upon application.
Do not over mix.

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

Stucco Ad-Liquid Performance



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

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

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

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PRODUCT DATA

CEMPLASTER FIBERSTUCCO

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

FEATURES & BENEFITS

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

Application Temperature: 40°-110°F (5°-43°C)
Working Time: 1 hour
Set Time: 1-2 hours
Cure Time: 48-72 hrs at room temperature, working and drying time will vary with temperature and humidity.

JOB CONDITIONS

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

PREPARATION

Preparation - The substrate must be approved by Master Wall Inc.®, clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds or anything that would affect bond. Painted surfaces are not acceptable and must be removed or metal lath applied. All sheathed applications must receive a minimum of 2-layers code-approved asphalt felt or equivalent.

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

Coverage per bag (sf/sm)*

3/8” (9.5 mm) thick: 80 sf (7.4 sm)

1/2” (12.7 mm) thick: 70 sf (6.5 sm)

3/4” (19 mm) thick: 40 sf (3.7 sm)

7/8” (22 mm) thick: 34 sf (3.1 sm)

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

Packaging/Shelf Life/Storage

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

Shelf Life: 1 year

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

Technical Data

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

Recognized in INTERTEK CCRR-0215

CEMPLASTER FIBERSTUCCO

PRODUCT DATA

APPLICATION PROCEDURE

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

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

Application

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

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

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

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

CLEAN UP

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

Curing Recommendations

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

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

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

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

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

VOC: Less than 50 g/L.

Approved Substrates

Self-furring Metal Lath

Concrete

Brick

Masonry

Others approved in writing

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PRODUCT DATA

READY CEMPLASTER FIBERSTUCCO

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

FEATURES & BENEFITS

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

Application Temperature: 40°-110°F (5°-43°C)
Working Time: 1 hour
Set Time: 1-2 hours
Cure Time: 48-72 hrs at room temperature, working and drying time will vary with temperature and humidity.

JOB CONDITIONS

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

PREPARATION

The substrate must be approved by Master Wall Inc.®, clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds or anything that would affect bond. Painted surfaces are not acceptable and must be removed or metal lath applied. All sheathed applications must receive a minimum of 2-layers code-approved asphalt felt or equivalent.

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

Coverage perbag (sf/sm)*

3/8” (9.5 mm) thick: 22 sf (2 sm)

1/2” (12.7 mm) thick: 20 sf (1.8 sm)

3/4” (19 mm) thick: 11 sf (1 sm)

7/8” (22 mm) thick: 9.4 sf (0.9 sm)

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

Packaging/Shelf Life/Storage

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

Shelf Life: 6-12 months

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

Technical Data

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

Recognized in IAPMO UES ER-0381

READY CEMPLASTER FIBERSTUCCO

PRODUCT DATA

APPLICATION PROCEDURE

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

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

Application

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

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

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

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

CLEAN UP

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

Curing Recommendations

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

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

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

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

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

VOC: Less than 50 g/L.

Approved Substrates

Self-furring Metal Lath
Concrete
Brick
Masonry
Others approved in writing

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.

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PRODUCT DATA

CEMPLASTER FIBERSTUCCO CO-BRAND PRODUCTS

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

FEATURES & BENEFITS

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

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

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

See our Systems page for Cemplaster Fiberstucco Warranties

CO-BRAND PRODUCTS

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

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

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

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

FRS Lightweight Stucco (No. 1201-56)*

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

SPEC MIX® Scratch and Brown Preblended Stucco*

SPEC MIX® Fiber Base Coat (FBC)

WESTERN 1-Kote Gray Concentrate

WESTERN 1-Kote Gray Premium Concentrate

WESTERN 1-Kote Premium Sanded Gray

WESTERN 1-Kote Sanded Gray

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

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PRODUCT DATA

AGGRE-FLEX MESH

Master Wall® Aggre-flex Mesh is a specially woven, glass fiber mesh with AR Coating (Alkali Resistive). Embedded in Master Wall® base coats, Aggre-flex Mesh is the key impact and tensile component in Master Wall® EIFS and wall systems. It can also improve crack resistance in Master Wall® Cemplaster Fiberstucco Systems, traditional stucco or foam shapes.

FEATURES & BENEFITS

- **Detail Mesh** – super soft, pliable mesh used for backwrapping, special shapes, and detail work.
- **Standard Mesh**–Standard weight mesh for wall areas and general detailing. Industry leading impact resistance.
- **Hi-Tech Mesh**–Upgraded heavier weight version of Standard Mesh with good workability.
- **Medium Mesh**–Extra tough heavy weight mesh. Best for areas of light traffic.
- **Strong Mesh**–Great high traffic mesh where impacts are a consideration.
- **Ultra Mesh**–Best where abuse is expected. Ultra heavy for high traffic areas.
    - **Strong Mesh** and **Ultra Mesh** must be used in a two-layer system.
- **Corner Roll**– For highly impact resistant corners. Apply under Standard or higher mesh.

MESH WEIGHT AND COVERAGE

	Mesh Weight	Roll Size	Coverage*
Detail	4.5 oz/sy (113 g/sm)	9.5“ x 150’ (96.5cm x 45.7m)	119 sf (11 sm)
Standard - 38	4.6 oz/sy (156 g/sm)	38“ x 150’ (96.5cm x 45.7m)	475 sf (44.1 sm)
Standard - 48	4.6 oz/sy (156 g/sm)	48“ x 150’ (122 cm x 45.7m)	600 sf (55.7 sm)
Hi-Tech	6.0 oz/sy (202 g/sm)	48” x 150’ (122cm x 45.7m)	600 sf (55.7sm)
Medium	11.0 oz/sy (370 g/sm)	38” x 75’ (96.5cm x 22.8m)	238 sf (22.1 sm)
Strong	15.4 oz/sy (508 g/sm)	38” x 75’ (96.5cm x 22.8m)	238 sf (22.1 sm)
Ultra	21.0 oz/sy (700 g/sm)	48” x 75’ (122cm x 22.8m)	300 sf (22.1 sm)
Corner Roll	9.5 oz/sy (238 g/sm)	9.5” x 150’ (96.5cm x 45.7m)	150 lf (45.7 m)

*Allow about 10% waste for lapping all meshes (Strong, Ultra and Corner Roll Meshes are butted). Coverage will vary.

PRODUCT TEST STANDARDS

ASTM D76, ASTM D578, ASTM D579, ASTM D1777, ASTM D3659, ASTM D3775, ASTM D3776, ASTM D4029, ASTM D5035, ASTM E2098, ASTM E2486. MIL-Y-1140

Weave: Full Leno

Impact ASTM E2486 (Formerly EIMA 101.86)		ASTM D5035 Tensile (warp/fill)
Standard Mesh	Medium Impact Resistance 50-89 in-lbs (5.7-10.1J)	247/280
Hi Tech Mesh	Medium Impact Resistance 50-89 in-lbs (5.7-10.1J)	140/250
Medium Mesh	Medium Impact Resistance 50-89 in-lbs (5.7-10.1J)	300/500
Medium & Standard	High Impact Resistance 90-150 in-lbs (10.2-17.0J)	300/500
Strong & Standard	Ultra High Impact Resistance 150+ in-lbs (over17.0J)	350/600
Ultra & Standard	Ultra High Impact Resistance 150+ in-lbs (over17.0J)	750/500
Corner Roll		274/274

APPLICATION PROCEDURE

Job Conditions - Air and substrate temperature for embedment of the Reinforcing Mesh 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 at all times until the wall system, including flashings, caps, and sealants, is completed to provide protection from climatic conditions and other potential damage.

Application - All imperfections in the insulation board must be rasped flush and any gaps in the insulation board must be filled with slivers of insulation. Apply the base coat over the entire surface of the insulation board in a thickness greater than that of the Reinforcing Mesh being used, approximately 1/16" (1.6 mm) for Standard Mesh and 3/32" (2.4 mm) for Ultra Mesh. Immediately embed the Aggre-flex Mesh into the wet base coat and smooth from the center to the edge to avoid wrinkles. Lap all meshes except Strong Mesh and Ultra Mesh a minimum of 2-1/2" (63.5 mm) on all sides. The reinforcing fabric must be continuous at all corners and lapped or abutted in accordance to Master Wall specifications. The color of the mesh shall not be visible but a slight mesh pattern may be visible. The overall minimum thickness of the base coat should be a nominal 1/16" (1.6 mm) when dry.

When applying Strong, Ultra or Corner Roll Mesh, tightly abut all edges and let cure for a minimum of 12 hours. Grind any imperfections with the edge of a stainless steel trowel or grinding stone, taking care not to damage the Aggre-flex Mesh, and apply a layer of Standard Mesh, Hi-Tech Mesh, or Medium Mesh as per the directions in the preceding paragraph. To minimize wall variations, the lap of the second mesh layer should not coincide with the abutment of the first layer.

Special Conditions and Recommendations

Apply wrapping, backwrapping mesh or other approved accessory at all terminations of the insulation board. This includes at the top and bottom of all walls and at all openings.

Aggre-flex Mesh may be wrapped from the face of the insulation board onto a foundation or onto the studs of an opening on barrier wall systems. In all cases, the exposed edges of the insulation board must be wrapped with Aggre-flex Mesh and base coat or an approved accessory trim.

Health & Safety

WARNING!
Causes eye and skin irritation.
Precautionary Statement
Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

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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Bulltec Stucco Mesh

Use with
Cemplaster Fiberstucco
One Coat Stucco
Traditional Stucco

VOC: 0
Shipping Locations:
30058 • 77474• 84651

Mesh Weight:
2.0 oz/sy (67 g/sm)

Tensile Strength:
68 lbf./in. minimum

Roll Size:
38” x 150’
(96.5cm x 45.7m)

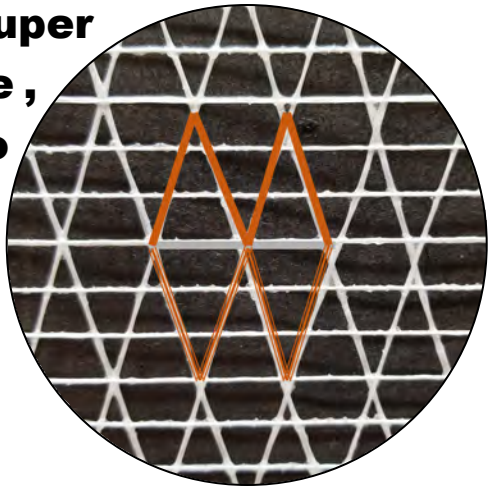
Approximate Coverage per Roll:
475 sf (44.1 sm)
*Allow about 10% waste for lapping mesh

Packaging: 4 rolls per box
25 boxes/pallet (100 rolls)

Master Wall® Bulltec Stucco Mesh is the solution to reduce stucco cracking and improve the performance of any stucco system. Bulltec is an alkali resistant lightweight mesh with an open weave of MW fabric that quickly and easily embeds into either wet stucco products or Master Wall® base coats.

Application Methods

- **Embedded into wet brown coats of Master Wall® Cemplaster Fiberstucco, One Coat Stucco or traditional stucco mixes**
- **As part of a leveling base coat application for a super smooth base, embedded into Master Wall® or Accent® Base Coats.**



5-Year Limited Warranty!

Also extends Cemplaster Fiberstucco System Warranties by One Year

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Bulltec Stucco Mesh

Application Procedure

Job Conditions - Air and substrate temperature for embedment of the Reinforcing Mesh 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 at all times until the wall system, including flashings, caps, and sealants, is completed to provide protection from climatic conditions and other potential damage.

Application

Into Wet Stucco Bases: Immediately embed the Bulltec Stucco Mesh into the wet stucco brown coat and smooth from the center to the edge to avoid wrinkles. Lap the mesh a minimum of 2-1/2" (63.5 mm) on all sides. The color of the mesh shall not be visible but a slight mesh pattern may be visible.

Bulltec Stucco Mesh Embedded in Wet Stucco

Into Master Wall® Base Coats: Over the dried stucco, apply the base coat over the entire surface of the stucco in a thickness of approximately 1/16" (1.6 mm). Immediately embed the Bulltec Stucco Mesh into the wet base coat and smooth from the center to the edge to avoid wrinkles. Lap the mesh a minimum of 2-1/2" (63.5 mm) on all sides. The color of the mesh shall not be visible but a slight mesh pattern may be visible.

Allow the stucco or base coats to cure prior to finishing.

Bulltec Mesh is not approved for EIFS or foam trim applications. Use Standard Mesh for foam trim.

Bulltec Stucco Mesh Embedded in Master Wall® Base Coat

Master Wall Inc. warrants Bulltec Stucco Mesh for 5 years from the date of installation. Master Wall Inc.'s exclusive liability under this warranty is to supply replacement materials less depreciation, 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 30 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. This warranty does not cover failures or defects which are due to the failure on any building component, materials not manufactured or sold by Master Wall Inc. This warranty does not cover failures or defects resulting from improper installation of the products or workmanship, improper storage, abuse, vandalism, damage from accidental causes or negligence by any person, thermal movement, structural movement, structural failure, acts of God, engineering or design deficiencies, or defective or insufficient caulking.

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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PRODUCT DATA

F&M ADHESIVE AND BASE COAT

Foam & Mesh Adhesive (F&M) is a 100% acrylic formulated high performance base coat and adhesive used in Master Wall® Systems or over prepared substrates including brick, masonry, concrete and stucco.

FEATURES & BENEFITS

- Adheres insulation board to approved substrates
- Base coat for Master Wall CIFS®, EIFS and other Systems
- Leveling coat for Cemplaster Fiberstucco and other stucco products
- Excellent water resistance
- Mixes 1:1 with Portland cement to a creamy consistency
- 100% Acrylic Polymers for durability
- Water-based - easy clean up with water

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

Working Time: 1 hour

Set Time: Varies with temperature and humidity

Dry Time: 12 hours at room temperature, working and drying time will vary with temperature and humidity.

JOB CONDITIONS

Air and substrate temperature for application of F&M 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 generally unacceptable without evaluation. Reference Technical Bulletins #173 and #187 for additional information.

Coverage per pail (sf/sm)*

Adhesive & Standard Base Coat:
120 sf (11 sm)

Embedding Single-layer of Mesh:
240-280 sf (22-26 sm)

Double Layer of Mesh:
80-230 sf (7.5-21 sm)

Notched Trowel Adhesive Application:
135 sf (12.5 sm)

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

Packaging/Shelf Life/Storage

Packaging: 5 gallon (19L) pail

Pail Weight: 60 lbs (27 kg)

Shelf Life: 2 years

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

Technical Data

ASTM C297/E2134 - min 30 psi (208 kPa)

ASTM D897 - min 22 psi (152 kPa) ASTM

D2247 - Pass

ASTM E84 - Pass

ASTM E96 - 12 perms

ASTM E331 - Pass to 12.0 psf (575 Pa)

ASTM E2485/EIMA 101.01* - Pass NFPA

268* - Pass

NFPA 285 (UBC 26-9)* - Pass

*part of a larger assembly

APPLICATION PROCEDURE

Mixing - Thoroughly stir F&M using a heavy duty 1/2" (12.7 mm) drill at 400 to 500 rpm and a heavy duty mixing paddle. Pour half of the stirred F&M into a clean plastic pail. Add Type I or I-II Portland cement to the half pail of F&M in a ratio of one-to-one by weight and mix to a homogenous consistency. Let the mixture stand for 3 to 5 minutes and then stir to a creamy consistency. Up to 30 ounces (0.9L) of clean, potable water may be added to a half pail to adjust workability. Do not over mix as faster setting or reduced working time can occur. Do not add accelerators or retarders to the F&M mixture.

APPLICATION

ADHESIVE APPLICATION – Over gypsum or Rollershield coated substrates, apply the F&M mixture directly to the back of the insulation board using a 3/8" x 3/8" x 3/8" (9.5 x 9.5 x 9.5 mm) or a 3/8" x 1/2" x 1-1/2" (9.5 x 13 x 38 mm) stainless steel notched trowel. With the trowel at a 45-degree angle, cover the entire back of the insulation board with full beads of adhesive. Apply the adhesive so the ribbons run vertically when applied to the wall.

Over non-gypsum substrates where drainage is not required, you may use the above described notched trowel method or the 'ribbon and dab' method. Using a stainless steel plastering trowel, apply a 2" (50.8 mm) wide by 3/8" (9.5 mm) high ribbon of the F&M mixture around the entire perimeter of the insulation board. Place 8 dabs of the F&M mixture 3/8" (9.5 mm) thick by 4" (102 mm) in diameter approximately 8" (204 mm) on center inside the ribbon.

Immediately place the prepared insulation board on the substrate. Make sure that all edges of the insulation board are abutted tightly and that no F&M mixture gets into the board joints. Do not allow the F&M mixture to form a skin prior to placing the insulation board on the substrate. Do not apply the F&M mixture directly onto the substrate.

BASE COAT APPLICATION – Over insulation board, all imperfections in the board must be rasped flush and any gaps in the insulation board must be filled with slivers of insulation. Apply the F&M mixture over the entire surface of the insulation board in a thickness greater than that of the reinforcing fabric being used (approximately 1/16" (1.6 mm) for standard mesh and 3/32" (2.4 mm) for Ultra Mesh). Immediately embed the reinforcing fabric into the wet F&M mixture and smooth from the center to the edge to avoid wrinkles. The reinforcing fabric must be continuous at all corners and lapped or abutted in accordance with Master Wall® specifications. The color of the mesh shall not be visible, but a slight mesh pattern may be visible.

As a leveling coat over approved concrete, masonry, stucco, and other surfaces, apply the F&M mixture over the entire surface a nominal 1/16" (1.6 mm) thick. Where reinforcing mesh is specified, follow application methods for insulation board above.

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, C1177)
- Dens Glass Gold®
- GlasRoc®
- FiberBond®
- Gold Bond e2xp®
- Securock®
- Weather Defense Platinum™

Cement Board (ASTM C1325)
- Durock®
- PermaBase®
- Util-A-Crete®
- ProTEC®, ProGUARD®

Concrete
Brick
Masonry
Metal Lath - Adhesive Application
Adheres to Rollershield
Others approved in writing

CLEAN UP

Tools and equipment can be cleaned with soapy water while the F&M is still wet.

WARNING, THIS PRODUCT CONTAINS SILICA

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

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: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

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

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. 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

MBB

Master Wall® Bagged Base Coat (MBB) is a dry polymer acrylic formulated high performance base coat and adhesive used in Master Wall® Systems or over prepared substrates including brick, masonry, concrete and stucco.

FEATURES & BENEFITS

- Adheres insulation board to approved substrates
- Base coat for Master Wall CIFS®, EIFS and other Systems
- Leveling coat for Cemplaster Fiberstucco and other stucco products
- Excellent water resistance
- Freeze stable in dry form
- Convenient, mixes with water
- Easy clean up with water

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

Working Time: 1 hour

Set Time: Varies with temperature and humidity

Dry Time: 12 hours at room temperature, working and drying time will vary with temperature and humidity.

JOB CONDITIONS

Air and substrate temperature for application of MBB 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 generally unacceptable without evaluation. Reference Technical Bulletins #173 and #187 for additional information.

Coverage per bag (sf/sm)*

Adhesive & Standard Base Coat:

50-60 sf (4.6-536 sm)

Embedding Single-layer of Mesh:

100-125 sf (9-11.5 sm)

Double Layer of Mesh:

30-110 sf (2.5-10 sm)

Notched Trowel Adhesive Application:

56 sf (5.2 sm)

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

Packaging/Shelf Life/Storage

Packaging: 50lb (22.7kg) bag

Shelf Life: 1 year

Storage: Protect from weather, high humidity and direct sunlight.

Technical Data

ASTM C297/E2134 - min 30 psi (208 kPa)

ASTM E96 - 12 perms

APPLICATION PROCEDURE

Mixing - Add 5 to 6 quarts (4.7-5.7L) of potable water to a clean plastic pail. Add the MBB slowly while stirring using a heavy-duty 1/2" (12.7mm) drill at 400 to 500 rpm and a heavy-duty Mixer. Mix thoroughly to a homogenous consistency. Let the mixture stand for 3 to 5 minutes and then stir to a creamy consistency. Small amounts of clean, potable water may be added to obtain a workable consistency. Do not over mix. Excessive stirring may cause faster setting and reduced working time. Do not add accelerators or retarders to the MBB mixture.

APPLICATION

ADHESIVE APPLICATION – Over gypsum or Rollershield coated substrates, apply the MBB mixture directly to the back of the insulation board using a 3/8" x 3/8" x 3/8" (9.5 x 9.5 x 9.5 mm) or a 3/8" x 1/2" x 1-1/2" (9.5 x 13 x 38 mm) stainless steel notched trowel. With the trowel at a 45-degree angle, cover the entire back of the insulation board with full beads of adhesive. Apply the adhesive so the ribbons run vertically when applied to the wall.

Over non-gypsum substrates where drainage is not required, you may use the above described notched trowel method or the 'ribbon and dab' method. Using a stainless steel plastering trowel, apply a 2" (50.8 mm) wide by 3/8" (9.5 mm) high ribbon of the F&M mixture around the entire perimeter of the insulation board. Place 8 dabs of the F&M mixture 3/8" (9.5 mm) thick by 4" (102 mm) in diameter approximately 8" (204 mm) on center inside the ribbon.

Immediately place the prepared insulation board on the substrate. Make sure that all edges of the insulation board are abutted tightly and that no F&M mixture gets into the board joints. Do not allow the MBB mixture to form a skin prior to placing the insulation board on the substrate. Do not apply the MBB mixture directly onto the substrate.

BASE COAT APPLICATION – Over insulation board, all imperfections in the board must be rasped flush and any gaps in the insulation board must be filled with slivers of insulation. Apply the MBB mixture over the entire surface of the insulation board in a thickness greater than that of the reinforcing fabric being used (approximately 1/16" (1.6 mm) for standard mesh and 3/32" (2.4 mm) for Ultra Mesh). Immediately embed the reinforcing fabric into the wet MBB mixture and smooth from the center to the edge to avoid wrinkles. The reinforcing fabric must be continuous at all corners and lapped or abutted in accordance with Master Wall® specifications. The color of the mesh shall not be visible, but a slight mesh pattern may be visible.

As a leveling coat over approved concrete, masonry, stucco, and other surfaces, apply the MBB mixture over the entire surface a nominal 1/16" (1.6 mm) thick. Where reinforcing mesh is specified, follow application methods for insulation board above.

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, C1177)
- Dens Glass Gold®
- GlasRoc®
- FiberBond®
- Gold Bond e2xp®
- Securock®
- Weather Defense Platinum™

Cement Board (ASTM C1325)
Durock®
- PermaBase®
- Util-A-Crete®
- ProTEC®, ProGUARD®

Concrete
Brick
Masonry
Metal Lath - Adhesive Application
Adheres to Rollershield
Others approved in writing

CLEAN UP

Tools and equipment can be cleaned with soapy water while the MBB is still wet.

WARNING, THIS PRODUCT CONTAINS SILICA

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

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Health & Safety

WARNING!
Causes eye and skin irritation.
Precautionary Statement
Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

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

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. 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.

F&M Plus Adhesive & Base Coat

Systems
Aggre-flex EIFS
Aggre-flex Drainage EIFS
Cemplaster Fiberstucco
ICF Coatings
QRW1 Drainage EIFS
Rollershield Drainage CIFS®
Soffit System
Stucco Cement Board Coatings
Uninsulated Finishes

VOC: <1% by Weight
VOC: 0.9 g/l
Manufacture Locations:
30058 • 77474 • 84651

Packaging: 5 gallon (19L) pail

Pail Weight: 60 lbs (27 kg)

Shelf Life: 2 years

Coverage (estimated)
Adhesive & Standard Base Coat: 120 sf (11 sm)

Embedding Single-layer of Mesh: 240-280 sf (22-26 sm)

Double Layer of Mesh: 80-230 sf (7.5-21 sm)

Notched Trowel Adhesive Application: 135 sf (12.5 sm)

F&M Plus is the high-build version of our Foam & Mesh Adhesive (F&M) used in Master Wall® Systems or over prepared substrates.

- **High Build with leveling capability up to 1/4” (6.4 mm) thickness**
- **Fibered for better crack resistance**
- **Adheres insulation board to approved substrates**
- **Excellent water resistance**
- **Mixes 1:1 with Portland cement to a creamy consistency**
- **Base coat for Aggre-flex Mesh**

Product Test Standards
ASTM C67, ASTM C297, ASTM D897, ASTM D2247, ASTM E2489/EIMA 101.86, ASTM D5420, ASTM E96, ASTM E330, ASTM E331, ASTM E2273, ASTM E2485, ASTM E84, IBC 1403, NFPA 268

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F&M Plus Adhesive & Base Coat

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

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

Application Procedure

Job Conditions - Air and substrate temperature for application of F&M PLUS 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.

Mixing - Thoroughly stir F&M PLUS using a heavy duty 1/2" (12.7 mm) drill at 400 - 500 rpm and a heavy duty mixing paddle. Pour half of the stirred F&M PLUS into a clean plastic pail. Add Type I or I-II Portland cement to the half pail of F&M PLUS in a ratio of one-to-one by weight and mix to a homogenous consistency. Let the mixture stand for 3 to 5 minutes and then stir to a creamy consistency. Up to 30 ounces (0.9L) of clean, potable water may be added to a half pail to adjust workability. Do not over mix as faster setting or reduced working time can occur. Do not add accelerators or retarders to the F&M PLUS mixture.

Application

Adhesive application – Over gypsum substrates, apply the F&M PLUS mixture directly to the back of the insulation board using a 3/8"x3/8"x3/8" (9.5x9.5x9.5 mm) or a 3/8"x1/2"x1-1/2" (9.5x13x38 mm) stainless steel notched trowel. With the trowel at a 45° angle, cover the entire back of the insulation board with full beads of adhesive. Apply the adhesive so the ribbons run vertically when applied to the wall.

Over non-gypsum substrates, you may use the above described notched trowel method or the 'ribbon and dab' method. Using a stainless steel plastering trowel, apply a 2" (50.8 mm) wide by 3/8" (9.5 mm) high ribbon of the F&M PLUS mixture around the entire perimeter of the insulation board. Place 8 dabs of the F&M PLUS mixture 3/8" (9.5 mm) thick by 4" (102 mm) in diameter approximately 8" (204 mm) on center inside the ribbon.

Approved Substrates

Exterior gypsum sheathing (ASTM C1396, C1177)
Dens Glass Gold®
GlasRoc®
FiberBond®
Gold Bond e2xp®
Securock®
Weather Defense Platinum™
Durock®
PermaBase®
Util-A-Crete®
ProTEC®, ProGUARD®
Concrete
Brick
Masonry
Metal Lath
Adheres to Rollershield
Others approved in writing

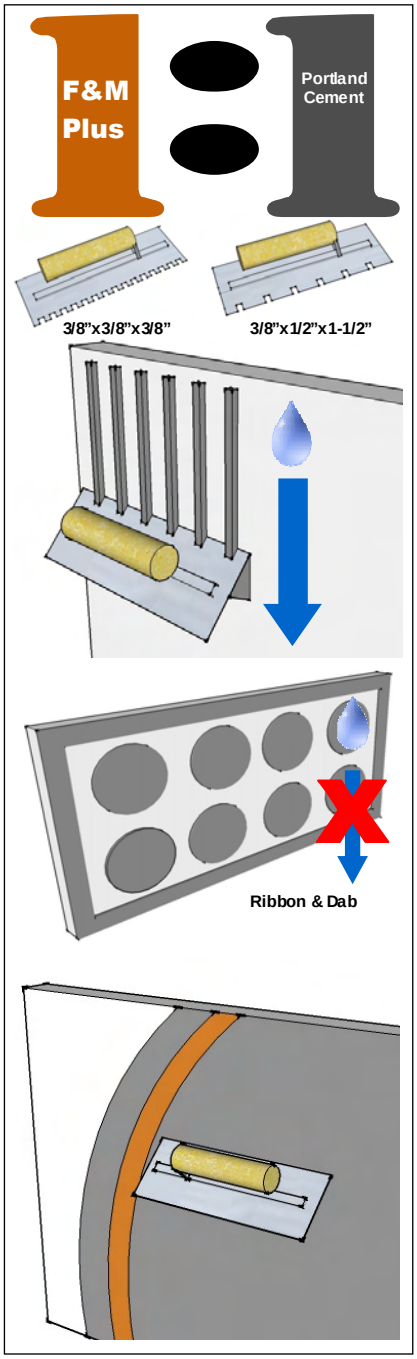
Immediately place the prepared insulation board on the substrate. Make sure that all edges of the insulation board are abutted tightly and that no F&M PLUS mixture gets into the board joints. Do not allow the F&M PLUS mixture to form a skin prior to placing the insulation board on the substrate. Do not apply the F&M PLUS mixture directly onto the substrate.

For base coat application – All imperfections in the insulation board must be rasped flush and any gaps in the insulation board must be filled with slivers of insulation. Apply the F&M PLUS mixture over the entire surface of the insulation board in a thickness greater than that of the reinforcing fabric being used (approximately 1/16" (1.6 mm) for standard mesh and 3/32" (2.4 mm) for Ultra Mesh). Immediately embed the reinforcing fabric into the wet F&M PLUS mixture and smooth from the center to the edge to avoid wrinkles. The reinforcing fabric must be continuous at all corners and lapped or abutted in accordance to Master Wall® specifications. The color of the mesh shall not be visible but a slight mesh pattern may be visible.

Clean Up—Tools and equipment can be cleaned with soapy water while the F&M PLUS is still wet.

WARNING, THIS PRODUCT CONTAINS SILICA

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



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MBB Plus Adhesive & Base Coat

Systems
Aggre-flex EIFS
Aggre-flex Drainage EIFS
Commercial Drainage EIFS
Cemplaster Fiberstucco
ICF Coatings
QRW1 Drainage EIFS
Rollershield Drainage EIFS
Soffit System
Stucco Cement Board Coatings
Trowelshield Drainage EIFS
Uninsulated Finishes

VOC: 0
Shipping Locations:
30058 • 77474 • 84651

Packaging: 50lb (22.7kg) bag

Shelf Life: 1 year

Coverage (estimated)
Adhesive & Standard Base Coat: 50-60 sf (4.6-536 sm)

Embedding Single-layer of Mesh: 100-125 sf (9-11.5 sm)

Double Layer of Mesh: 30-110 sf (2.5-10 sm)

Notched Trowel Adhesive Application: 56 sf (5.2 sm)

Master Wall® MBB Plus is the high-build version of our MBB adhesive and base coat. MBB Plus allows leveling up to 1/4" (6.4 mm) in a single pass.

- **Adheres insulation board to approved substrates**
- **Excellent water resistance**
- **Freeze stable in dry form**
- **Convenient, mixes with water**
- **Base coat for Aggre-flex Mesh**

Product Test Standards
ASTM C67, ASTM C297, ASTM D897, ASTM D2247, ASTM E2489/EIMA 101.86, ASTM D5420, ASTM E96, ASTM E330, ASTM E331, ASTM E2273, ASTM E2485, ASTM E84, IBC 1403, NFPA 268

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MBB Plus Adhesive & Base Coat

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

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

Application Procedure

Job Conditions - Air and substrate temperature for application of MBB Plus 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.

Mixing - Add 5 to 6 quarts (4.7-5.7L) of potable water to a clean plastic pail. Add the MBB Plus slowly while stirring using a heavy-duty 1/2" (12.7mm) drill at 400 - 500 rpm and a heavy-duty Mixer. Mix thoroughly to a homogenous consistency. Let the mixture stand for 3 to 5 minutes and then stir to a creamy consistency. Small amounts of clean, potable water may be added to obtain a workable consistency. Do not over mix.

Excessive stirring may cause faster setting and reduced working time. Do not add accelerators or retarders to the MBB Plus mixture.

Application

Adhesive application – Over gypsum substrates, apply the MBB Plus mixture directly to the back of the insulation board using a 3/8"x3/8"x3/8" (9.5x9.5x9.5 mm) or a 3/8"x1/2"x1-1/2" (9.5x13x38 mm) stainless steel notched trowel. With the trowel at a 45° angle, cover the entire back of the insulation board with full beads of adhesive. Apply the adhesive so the ribbons run vertically when applied to the wall.

Over non-gypsum substrates, you may use the above described notched trowel method or the 'ribbon and dab' method. Using a stainless steel plastering trowel, apply a 2" (50.8 mm) wide by 3/8" (9.5 mm) high ribbon of the MBB Plus mixture around the entire perimeter of the insulation board. Place 8 dabs of the MBB Plus mixture 3/8" (9.5 mm) thick by 4" (102 mm) in diameter approximately 8" (204 mm) on center inside the ribbon.

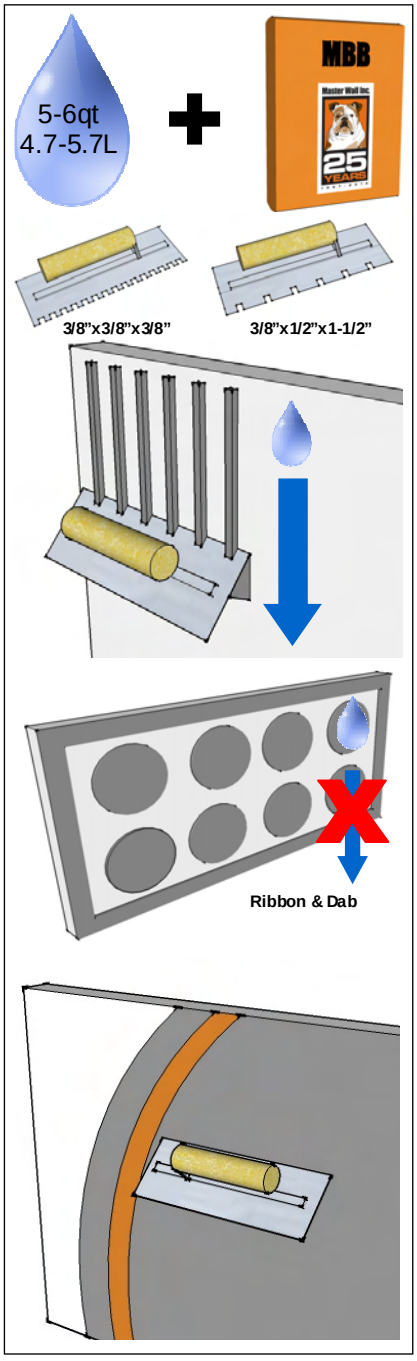
Immediately place the prepared insulation board on the substrate. Make sure that all edges of the insulation board are abutted tightly and that no MBB Plus mixture gets into the board joints. Do not allow the MBB Plus mixture to form a skin prior to placing the insulation board on the substrate. Do not apply the MBB Plus mixture directly onto the substrate.

For base coat application – All imperfections in the insulation board must be rasped flush and any gaps in the insulation board must be filled with slivers of insulation. Apply the MBB Plus mixture over the entire surface of the insulation board in a thickness greater than that of the reinforcing fabric being used (approximately 1/16" (1.6 mm) for standard mesh and 3/32" (2.4 mm) for Ultra Mesh). Immediately embed the reinforcing fabric into the wet MBB Plus mixture and smooth from the center to the edge to avoid wrinkles. The reinforcing fabric must be continuous at all corners and lapped or abutted in accordance to Master Wall specifications. The color of the mesh shall not be visible but a slight mesh pattern may be visible. Leveling over Master Wall base coats or other approved substrates to 1/4" (6.4 mm) and can be tapered to a feather edge if needed.

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

WARNING, THIS PRODUCT CONTAINS SILICA

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



Approved Substrates

Exterior gypsum sheathing (ASTM C1396, C1177)
Dens Glass Gold®
GlasRoc®
FiberBond®
Gold Bond e2xp®
Securock®
Weather Defense Platinum™
Durock®
PermaBase®
Util-A-Crete®
ProTEC®, ProGUARD®
Concrete
Brick
Masonry
Metal Lath
Others approved in writing

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Product Data

WeatherSTOP

To finish strong you need a leveling base coat with superior weather resistance to stop water before it enters your stucco or wall. Flexible, fibered WeatherSTOP remains flexible, weather resistant and embeds easily into Master Wall® mesh. WeatherSTOP is an alternative to a separate fluid applied water barrier.

Coverage per pail
Embedding Single-layer of Mesh: 200-220 sf (18.6-20 sm)

Double Layer of Mesh: 66-200 sf (6-18.6 sm)
Coverage information

Coverage may vary depending upon application technique and surface conditions.

Packaging/Shelf Life/Storage
Packaging: 5 gallon (19L) pail
Pail Weight: 60 lbs (27 kg)
Shelf Life: 2 years
Storage: Protect from extreme heat (90°F (32° C), freezing and direct sunlight.

Technical Data
ASTM C67 Freeze/Thaw: Pass
ASTM C297/E2134: 94 psi
ASTM E96: Vapor Permeable, >10 perms
ASTM E331 as drainage media: 97.7%
ASTM E2485 Freeze/Thaw: Pass

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.

Features & Benefits

- Waterproof acrylic polymers
- Fibered for additional strength
- Stops water at the surface
- Highly flexible
- Excellent water holdout
- Protects stucco keeping it safe and dry
- Dry stucco does not support mold growth

Application Temperature: 40°-110°F (5°-43°C) • Working Time: 1 hour • Dry Time: 12 hours
at room temperature, working and drying time will vary with temperature and humidity

Surface 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. Stucco should cure a minimum of 24 hours and concrete/masonry a minimum of 28 days before application. Painted surfaces are not acceptable and must be removed. Surface should be true to within 1/4" in 10-0" (6 mm in 3 m) and clear of excessive fins and voids.

Master Wall Inc.
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Product Data

WeatherSTOP

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: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. 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.*

Approved Substrates

Master Wall® Base Coats

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.

Surfaces of Brick, Concrete, Masonry and Stucco

Others approved in writing

Application Procedure

Job Conditions - Air and substrate temperature for application of WeatherSTOP 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.

Mixing - Thoroughly stir WeatherSTOP using a heavy duty 1/2" (12.7 mm) drill at 400 - 500 rpm and a heavy duty mixing paddle. Pour half of the stirred WeatherSTOP into a clean plastic pail. Up to 12 ounces (0.35L) of clean, potable water may be added to adjust workability. Add 20lbs (9 kg) Type I or I-II Portland cement to the half pail of WeatherSTOP and mix to a homogenous consistency. Let the mixture stand for 3 to 5 minutes and then stir to a creamy consistency. Do not exceed 24 ounces (0.7L) per pail. Do not over mix as faster setting or reduced working time can occur. Do not add accelerators or retarders to the WeatherSTOP mixture.

Application

Water Barrier Application – Apply the WeatherSTOP mixture over the entire surface of the approved substrate in a thickness of approximately 1/16" (1.6 mm).

With Optional Mesh Application – Apply the WeatherSTOP mixture over the entire surface of the approved substrate in a thickness greater than that of the reinforcing fabric being used (approximately 1/16" (1.6 mm) for Standard Mesh). Immediately embed the reinforcing fabric into the wet WeatherSTOP mixture and smooth from the center to the edge to avoid wrinkles. The reinforcing fabric must be continuous at all corners and lapped or abutted in accordance to Master Wall® Mesh data sheet requirements. Do not run mesh through control/expansion joints or accessories. The color of the mesh shall not be visible but a slight mesh pattern may be visible.

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

Limitations:
A Master Wall® Superior, Superior Elastomeric Plus or other approved Master Wall® finish must be used over the WeatherSTOP.

Surfaces exposed to the weather must be sloped (6:12 minimum).

Under certain conditions efflorescence on the surface during the cure process. This can be removed with a white vinegar solution.

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

We finish strong.

masterwall.com

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Master Wall Inc.®
SUPERIOR SHIELD
We finish strong.

Guardian

Waterproof Base Coat & Adhesive

Approved Substrates
Master Wall Base Coats
Stucco
Prepared & Base Coated Surfaces of Brick, Concrete, Masonry
Exterior gypsum sheathing (ASTM C1396, C1177)
Dens Glass Gold®
GlasRoc®
FiberBond®
Gold Bond e2xp®
Securock®
Durock®
PermaBase®
Util-A-Crete®, ProTEC®, ProGUARD®
Others approved in writing

VOC: <1% by Weight
Manufacture Locations:
30058 • 77474 • 84651
Recycled Content: 0%

Packaging: 5 gallon (19L) pail

Pail Weight: 30 lbs (13.6 kg)

Coverage (estimated)
1/8" (3.2 mm) sealer:
45-50 sf (4-4.6 sm)

1/16" (1.6 mm) base coat :
89-100 sf (8.3-9.3 sm)

Working Time: 1 hour @ room temperature

Drying Time: 12 hours @ room temperature

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

Shelf Life: 2 years

To finish strong you need a Superior Base Coat that can not only protect but waterproof the surface. Premium Guardian is formulated with extremely flexible waterproof polymers and fibered for improved tensile strength. Guardian embeds easily into Master Wall® mesh as part of a weather protection strategy.

Application Procedure

Job Conditions - Air and substrate temperature for application of Guardian 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.

Mixing - Thoroughly stir Guardian using a heavy duty 1/2" (12.7 mm) drill at 400 - 500 rpm and a heavy duty mixing paddle. Add Type I or I-II Portland cement to the pail of Guardian and fill to the top (approximately 20 lbs, 9 kg) and mix to a homogenous consistency. Let the mixture stand for 3 to 5 minutes and then stir to a creamy consistency. Up to 18 ounces (0.5L) of clean, potable water may be added to a half pail to adjust workability. Do not over mix as faster setting or reduced working time can occur. Do not add accelerators or retarders to the Guardian mixture.

Application - Adhesive/Sealer application – Apply the Guardian mixture approximately 1/8' (3.2 mm) thick directly to the approved substrate using a stainless steel trowel. If used to adhere insulation, stipple the Guardian adhesive coat by pressing the trowel into the wet adhesive and then pulling it away from surface. Immediately apply the insulation board to the wet adhesive. Make sure that all edges of the insulation board are abutted tightly and that no Guardian mixture gets into the board joints. Do not allow the Guardian mixture to form a skin prior to placing the insulation board on the substrate.

For base coat application – All imperfections in the insulation board must be rasped flush and any gaps in the insulation board must be filled with slivers of insulation. Apply the Guardian mixture over the entire surface of the insulation board in a thickness greater than that of the reinforcing fabric being used (approximately 1/16" (1.6 mm) for standard mesh and 3/32" (2.4 mm) for Ultra Mesh). Immediately embed the reinforcing fabric into the wet Guardian mixture and smooth from the center to the edge to avoid wrinkles. The reinforcing fabric must be continuous at all corners and lapped or abutted in accordance to Master Wall specifications. The color of the mesh shall not be visible but a slight mesh pattern may be visible.

For Sloped Surfaces—Embed reinforcing mesh in Guardian as noted in the base coat application. If Guardian is used on the sloped surface only, consider a skim coat of the wall base coat to equalize finish absorption and color. Minimum recommended slope is 1:2 and maximum run is 18" (0.46m) with two-layers of Standard Mesh. Consult Master Wall and local code requirements for specifics.

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

Limitations - Guardian is not intended for water immersion.

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

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PRODUCT DATA

PRIMECOAT PRIMER

High quality exterior acrylic primer that helps solidify and protect the surface. Integrally colored Primecoat Primer helps make finishes brighter and deeper, reduces efflorescence and extends finish coverage rates. Suitable for priming Master Wall® base coats, new stucco, masonry and concrete that has a pH of 13 or less.

FEATURES & BENEFITS

- Tintable sealer/primer with good hiding power
- Hot prime capable for pH 13 or less
- Reduces finish absorption for improved aesthetics and reduced finish color variations
- Recommended for extreme color changes, under very dark, vivid or bright topcoats or when top tier finishing is specified
- Extends finish coverage, required when spraying Superior Finishes and some specialty finishes
- 100% Acrylic Polymers for durability
- Water-based - easy clean up with water

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

Dry to touch: 1 hour

Recoat Time: 2 hours

Dry Time: 12 hours at room temperature, working and drying time will vary with temperature and humidity.

JOB CONDITIONS

Air and substrate temperature for application of Primecoat 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. Concrete and masonry should be cured a minimum of 28 days, stucco cured a minimum of 7-14 days or surfaces verified to have a pH less than 13.

Coverage per pail (sf/sm)*

1000-1200 sf/pail (93-112 sm)*

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

Packaging/Shelf Life/Storage

Packaging: 5 gallon (19L) pail Pail

Shelf Life: 2 years

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

Technical Data

Water Vapor Transmission (perms), ASTM E96 Vapor Permeable

Substrate Recommendations

Concrete – If preparing for a textured or specialty finish, all projections must be removed and any voids filled with a Master Wall® base coat as needed to provide an appropriate surface.

Masonry – If preparing for a textured or specialty finish, skim coat with a Master Wall® base coat to achieve a smooth level surface. If joints are not struck flush, multiple coats may be required. Contact Master Wall for more information.

Stucco – If additives were used in the stucco, it is recommended that a test patch be made to evaluate bond strength of the Primecoat to the stucco.

Master Wall® Base Coats or Finishes, Previously Painted Surfaces, Cement Composition Siding

Install/Apply and prepare according to published guidelines. Surfaces should be clean, dry, cured and ready to receive coatings.

PRIMECOAT PRIMER

PRODUCT DATA

APPLICATION PROCEDURE

Mixing - Thoroughly stir Primecoat into a homogeneous consistency. Small amounts of clean, potable water may be added to obtain a workable consistency. Do not over mix. Do not exceed 24 ounces (0.7L) of water per pail. Do not add accelerators or retarders to Primecoat.

Application – Primecoat can be applied by brush, roller, or airless spray equipment. When using a roller, a maximum 3/4" (19 mm) nap is recommended. Apply Primecoat in an even, continuous coat of about 3 mils, maintaining a wet edge.

Airless Spray Application - Pressure 2000 p.s.i., Tip .015– to .019 inch. Spray in a consistent manner or backroll after spraying for a consistent application.

Limitations - Primecoat is not intended for use as the final finish coat over Master Wall base coats or other approved substrates.

FOR PROFESSIONAL RESULTS

Apply coatings away from direct sunlight. Cold joints or color variations can occur if the finish dries too quickly. Under certain conditions dark colors may show efflorescence on the surface during the cure process.

Surfaces exposed to the weather must be sloped (6:12 minimum). Use of dark colors in high temperature climates can affect the performance of the system, especially EIFS and areas may need to be limited.

CLEAN UP

Tools and equipment can be cleaned with soapy water when Primecoat is wet.

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

Master Wall® Base Coats
Stucco
Brick
Masonry
Concrete
Interior Drywall
Previously painted surfaces with bond test
Others approved in writing

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

SANDED PRIMECOAT PRIMER

High quality sanded exterior acrylic primer that helps solidify and protect the surface. Integrally colored Sanded Primecoat Primer helps make finishes brighter and deeper, reduces efflorescence and extends finish coverage rates. Suitable for priming Master Wall® base coats, new stucco, masonry and concrete that has a pH of 13 or less.

FEATURES & BENEFITS

- Sanded for a rough surface when applying finishes over very smooth surfaces
- Tintable sealer/primer with good hiding power
- Hot prime capable for pH 13 or less
- Reduces finish absorption for improved aesthetics and reduced finish color variations
- Recommended for extreme color changes, under very dark, vivid or bright topcoats or when top tier finishing is specified
- Extends finish coverage, required when spraying Superior Finishes and some specialty finishes
- 100% Acrylic Polymers for durability
- Water-based - easy clean up with water

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

Dry to touch: 1 hour

Recoat Time: 2 hours

Dry Time: 12 hours at room temperature, working and drying time will vary with temperature and humidity.

JOB CONDITIONS

Air and substrate temperature for application of Sanded Primecoat 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. Concrete and masonry should be cured a minimum of 28 days, stucco cured a minimum of 7-14 days or surfaces verified to have a pH less than 13.

Coverage per pail (sf/sm)*

1000-1200 sf/pail (93-112 sm)*

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

Packaging/Shelf Life/Storage

Packaging: 5 gallon (19L) pail Pail

Shelf Life: 2 years

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

Technical Data
Water Vapor Transmission (perms), ASTM E96 Vapor Permeable

Substrate Recommendations

Concrete – If preparing for a textured or specialty finish, all projections must be removed and any voids filled with a Master Wall® base coat as needed to provide an appropriate surface.

Masonry – If preparing for a textured or specialty finish, skim coat with a Master Wall® base coat to achieve a smooth level surface. If joints are not struck flush, multiple coats may be required. Contact Master Wall for more information.

Stucco – If additives were used in the stucco, it is recommended that a test patch be made to evaluate bond strength of the Primecoat to the stucco.

Master Wall® Base Coats or Finishes, Previously Painted Surfaces, Cement Composition Siding
Install/Apply and prepare according to published guidelines. Surfaces should be clean, dry, cured and ready to receive coatings.

SANDED PRIMECOAT PRIMER

PRODUCT DATA

APPLICATION PROCEDURE

Mixing - Thoroughly stir Sanded Primecoat into a homogeneous consistency. Small amounts of clean, potable water may be added to obtain a workable consistency. Do not over mix. Do not exceed 24 ounces (0.7L) of water per pail. Do not add accelerators or retarders to Primecoat.

Application – Sanded Primecoat can be applied by brush, roller, or airless spray equipment. When using a roller, a maximum 3/4" (19 mm) nap is recommended. Apply Sanded Primecoat in an even, continuous coat of about 3 mils, maintaining a wet edge.

Limitations - Sanded Primecoat is not intended for use as the final finish coat over Master Wall base coats or other approved substrates.

FOR PROFESSIONAL RESULTS

Apply coatings away from direct sunlight. Cold joints or color variations can occur if the finish dries too quickly. Under certain conditions dark colors may show efflorescence on the surface during the cure process.

Surfaces exposed to the weather must be sloped (6:12 minimum). Use of dark colors in high temperature climates can affect the performance of the system, especially EIFS and areas may need to be limited.

CLEAN UP

Tools and equipment can be cleaned with soapy water when Primecoat is wet.

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

Master Wall® Base Coats
Stucco
Brick
Masonry
Concrete
Interior Drywall
Previously painted surfaces with bond test
Others approved in writing

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

SUPERIOR FINISHES

To finish strong you need a Superior Finish. Master Wall® finishes are crafted with one of the highest 100% acrylic polymer contents in our industry. This translates to extra durability, lower life-cycle maintenance and a longer lasting finish.

FEATURES & BENEFITS

- 100% Acrylic Polymers for durability
- Dirt Pickup Resistant (DPR) Polymer Formulation
- Quartz or Marble aggregate available
- 64 Standard Colors
- Custom color matching available
- DuroTone colorfast pigments, Excel mildew enhancement, Silicone Coat additive available
- Vapor Permeable - resists blistering and allows trapped water vapors to pass
- Low VOC—Suitable for Interior Use
- Water Based - easy clean up with water

Application Temperature: 40°-110°F (5°-43°C)
Working Time: 1/4 hr
Set Time: 8-12 hrs
Dry Time: 48-72 hrs at room temperature, working and drying time will vary with temperature and humidity.

JOB CONDITIONS

Air and substrate temperature for application of Superior Finishes 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 mate-rials within prescribed temperature limits and out of direct sun-light. High temperatures will reduce working times, Low temperatures and/or high humidity and pigment loading will extend working, set and dry times.

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. Concrete and surfaces should cure for a mini-mum of 28 days. Stucco should be cured until clean, dry and hard—typically 14 days with a pH of 10 or less (13 or less if Primecoat Primer is used).

Interior drywall should be finished and made ready for paint. Prime surfaces with Primecoat/Sanded Primecoat primer prior to finishing.

Coverage per pail (sf/sm)*

- Perfect Swirl 2.0, 120-150 (11-14)
- Fine Sand 1.0, 160-170 (15-15.8)
- Medium Sand 1.5, 130-150 (12-14)
- Versatex 0.5, Varies with Texture

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

Packaging/Shelf Life/Storage Packaging:

- 5 gallon (19L) pail Pail

Shelf Life: 2 years

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

Technical Data

ASTM B117 Salt Spray Resistance - Pass ASTM

C67 Freeze/Thaw - Pass

ASTM C297 Tensile Bond - 30 psi minimum

ASTM D968 Abrasion Resistance - Pass 500L

ASTM D2247/E2570 Water Resistance - Pass

ASTM D3273 Mildew Resistance - Pass 28 Days

ASTM E84 Surface Burning - Pass, FS=0, SD=0

ASTM E 96 Vapor Permeability - Pass, 12 perms, vapor open

ASTM E108 Flame Propagation - Pass

ASTM E2485/2570 (formerly EIMA 101.01) Impact Resistance - Pass

ASTM G23/G154/G155 Accelerated Weathering - Pass 2000 Hours

ASTM G53 Accelerated Weathering - Pass 2000 Hours

APPLICATION PROCEDURE

Base Coats - Must be flat, dry hard, and free of efflorescence. Master Wall® base coats must cure a minimum of 12 hours before application of Superior Finish. Substrates of brick, masonry or concrete should be leveled smooth using either Master Wall® base coats or stucco.

Mixing - Thoroughly stir Superior Finish using a heavy duty 1/2" drill at 400 - 500 rpm and a heavy duty mixing paddle. Small amounts of clean, potable water may be added to obtain a workable consistency. To avoid color variations, add the same amount of water to each pail. Do not exceed 24 ounces (0.7L) of water per pail of finish.

Application - Apply a uniform thickness (about 1/16", 1.6 mm) of Superior Finish to the substrate using a stainless steel trowel. Spread evenly and then scrape the finish coat down to a thickness no greater than the largest aggregate in the mate-rial. Immediately float the finish coat using a plastic float to the desired texture. Always maintain a wet edge to achieve uniformity of texture and color. Allow the finish to fully dry and set before exposure to inclement weather.

FOR PROFESSIONAL RESULTS

Apply finish coats away from direct sunlight. Cold joints or color variations can occur if the finish dries too quickly. Priming stucco surfaces with Primecoat/Sanded Primecoat evens out finish absorption and should be strongly considered and specified for dark colored finishes, especially those using Ultra Deep Base (UDB) tint base and over stucco to avoid efflorescence blush. Under certain conditions dark colors may show efflorescence on the surface during the cure process.

Surfaces exposed to the weather must be sloped (6:12 minimum). Use of dark colors in high temperature climates can affect the performance of the system, especially EIFS and areas may need to be limited.

Deep, intense colors should be specified with DuroTone pigments to maintain colorfastness longer. Verify specialty colors with your Master Wall® Distributor. Finishes are intended for the approved substrates listed above and should not be applied directly to gypsum board or insulation board products.

CLEAN UP

Tools and equipment can be cleaned with soapy water while the Superior Finish is still wet.

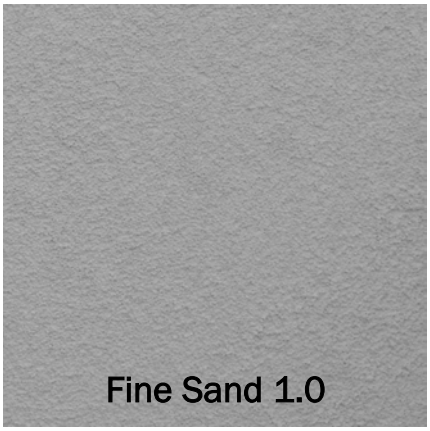
Hazard: This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

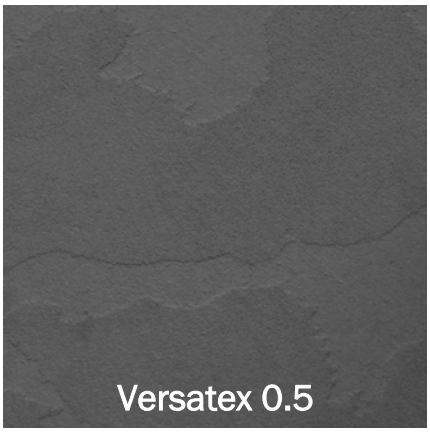
VOC: Less than 50 g/L.
See Superior Finishes for other technical properties

Approved Substrates

Master Wall® Base Coats
Cemplaster Fiberstucco, One Coat Stucco (OCS), Primecoat Primer surfaces, ASTM C926 Stucco

Prepared & Base Coated Surfaces of:
Brick, Concrete, Masonry
Others approved in writing





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: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

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

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. 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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Master Wall Guide Specification CFS
Cemplaster Fiberstucco

Specifiers note: Stucco applications can be complex and may involve a variety of substrates and different applications. This specification is primarily focused on a typical application over sheathing with an asphalt felt water barrier, 2.5#/sy metal lath, 1/2" thick Cemplaster Fiberstucco and a Superior Finish. Edit as needed for your specific project or contact Master Wall Inc.® for your project needs.

PART I – GENERAL

1.01 SUMMARY

A. This document is to be used in preparing specifications for projects utilizing the Master Wall Inc.® Cemplaster Fiberstucco System.

Related Master Wall Inc.® documents:

1. Master Wall Inc.® Cemplaster Fiberstucco System Data Sheet
2. Master Wall Inc.® Cemplaster Fiberstucco System Application Instructions
3. Master Wall Inc.® Cemplaster Fiberstucco 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 standard warranty
C. Applicator's industry training credentials
D. Samples for approval as directed by architect or owner
E. Sealant manufacturer's certificate of compliance with ASTM C 1382
F. Prepare and submit project-specific details (when required by contract documents)

1.03 REFERENCES

A. ASTM Standards:

A641	Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire
A653	Specification for Sheet Steel Zinc coated (Galvanized) by the Hot-Dip Process, Commercial Quality
B69	Specification for Rolled Zinc
C144	Specification for Aggregate for Masonry Mortar
C297	Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions
C578	Specification for Preformed, Cellular Polystyrene Thermal Insulation

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C847 Standard Specification for Metal Lath
C897 Standard Specification for Aggregate for Job-Mixed Portland Cement-Based Plasters
C926 Standard Specification for Application of Portland Cement-Based Plaster
C1063 Standard Specification for Installation of Lathing and Furring for Portland Cement Plaster
C1177 Specification for Glass Mat Gypsum for Use as Sheathing
C1513 Standard Specification for Steel Tapping Screws for Cold-Formed Steel Framing Connections
D226 Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing
D1784 Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds
D4541 Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers
E84 Test Method for Surface Burning Characteristics of Building Materials
E96 Standard Test Methods for Water Vapor Transmission of Materials
E283 Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
E330 Test Method for Structural Performance of Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference
E331 Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
E783 Standard Test Method for Field Measurement of Air Leakage Through Installed Exterior Windows and Doors
E2178 Standard Test Method for Air Permeance of Building Materials
E2357 Standard Test Method for Determining Air Leakage of Air Barrier Assemblies
E2430 Standard Specification for Expanded Polystyrene (“EPS”) Thermal Insulation Boards For Use in Exterior Insulation and Finish Systems (“EIFS”)
E2556 Standard Specification for Vapor Permeable Flexible Sheet Water-Resistive Barriers Intended for Mechanical Attachment
G154 Recommended Practice for Operating Light-and Water-Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials

B. Other Referenced Documents

APA Engineered Wood Association
PS 1 Voluntary Product Standard, Structural Plywood
PS 2 Performance Standard for Wood-Based Structural-Use Panels
E 30 APA Engineered Wood Construction Guide
AISI (American Iron and Steel Institute)
AISI S200-2007 North American Standard for Cold-Formed Steel Framing-General Provisions
ICC (International Code Council)
IBC 2012 and 2015 IBC (International Building Code)
ICC ES (International Code Council Evaluation Service)
AC 11 Acceptance Criteria for Cementitious Exterior Wall Coatings
AC 212 Acceptance Criteria for Water-resistive Coatings used as Water-resistive Barriers over Exterior Sheathing

C. Other Referenced Documents

American Association of Textile Chemists and Colorists AATCC-127 Water Resistance: Hydrostatic Pressure Test
UES Evaluation Report 384, Rollershield Water Barrier
Evaluation Report CCRR-0215, Master Wall Cemplaster Fiberstucco
Evaluation Report ER-0821, Cemplaster Fiberstucco L
QUIKRETE® Stucco Cobrand in Warranty Program, ER-0455
Western Blended Stucco Cobrand in Warranty Program, ER-0821

1.04 SYSTEM DESCRIPTION

A. Structural

1. Design for maximum allowable system deflection, normal to the plane of the wall, of L/360 with a substrate tolerance true to within 1/4" in 10’-0” (6.4 mm in 3.05 m).
2. Design for wind load in conformance with code requirements. Also consult applicable code compliance report.

B. Moisture Control

1. Prevent the accumulation of water into or behind the Cemplaster Fiberstucco, either by condensation or leakage into the wall construction, in the design and detailing of the wall assembly.

a. Provide corrosion resistant flashing to direct water to the exterior where it is likely to penetrate components in the wall assembly, including, above window and door heads, beneath window and door sills, at roof/wall intersections, decks, abutments of lower walls with higher walls, above projecting features, and at the base of the wall.
b. Wall System Design – design wall to eliminate vapor condensation within the wall assembly.
c. Water-resistive Barriers/Drainage Provisions – Provide a barrier over framed construction to meet local building code requirements and indicated on the contract documents.
1. Minimum of two-layers sheet meeting ASTM D-226, Type 1, Grade D or building code-approved alternate.
2. Minimum of two-layers of 10-minute Grade D sheet or two layers complying with ASTM E2556, Type I with individual layers applied separately (IBC 2021, B – Dry Climate Zones, 2510.6.1)
3. Minimum of two-layers of 60-minute Grade D sheet complying with ASTM E2556, Type II with a layer of foam plastic insulating sheathing or other non-water absorbing layer (IBC 2021, B – Dry Climate Zones, 2510.6.1)
4. Drainage provisions: minimum 3/16" (4.8 mm) space added to the above Water-resistive barriers to the exterior side (IBC 2021, A & C – Moist/Marine Climate Zones, 2510.6.2).
5. Drainage provisions: A space with minimum drainage efficiency of 90% as measured in accordance with ASTM E2273 or Annex A2 of ASTM E2925 added to the exterior side of the water-resistive barrier, e.g., grooved insulation board. (IBC 2021, A & C – Moist/Marine Climate Zones, 2510.6.2).
d. Protect sills of rough openings with water resistant barrier, or "peel and stick" type membranes recognized by local codes.
e. Where casing bead is used back-to-back at expansion joints back joints with barrier membrane. Refer to Master Wall® details.

C. Grade Condition
1. Keep Cemplaster Fiberstucco a minimum of 6" (152 mm) above grade in framed construction.

D. Expansion Joints
1. The type, location, ground dimension and orientation of lathing accessories shall be indicated on the contract documents. Provide expansion joints at locations of building movement. Common locations include the following:
a. Where building movement is anticipated (substrate thermal joints, masonry control joints, etc.).
b. At dissimilar substrates.
c. At floor lines in certain wood framed constructions.
d. Where the Cemplaster Fiberstucco meets dissimilar materials.
2. Expansion joint design depends upon the anticipated movement. Master Wall® suggests the following minimum sizes, subject to design acceptance: Windows/Doors – 3/8" (9.5 mm), Building Expansion/Dissimilar Substrates & Materials – 1/2" (13 mm), Floor Line (shrinkage) – 3/4" (19 mm), masonry control joints (1/2" (13 mm) or use a control joint).
3. Sealants
a. Shall be manufactured and supplied by others.
b. Shall be compatible with Cemplaster Fiberstucco System materials. Refer to current Master Wall Inc.® Technical Bulletin #131 for listing of sealants approved by sealant manufacturer for use with stucco systems.
c. The sealant backer rod shall be of closed cell.

E. Control Joints
1. The type, location, ground dimension and orientation of lathing accessories shall be indicated on the contract documents. Common locations include the following:
a. Install control joint lathing accessories at locations to delineate cement plaster panel areas of 144 ft^2 (13 m^2) maximum for walls and 100 ft^2 (9 m^2) maximum for horizontal installation, that is, ceilings, curves, or angle type structures.
b. Install control joint lathing accessories at locations to delineate cement plaster panel areas of 18 ft (5 m) maximum dimension, in either direction or a maximum length-to-width ration of 2-1/2 to 1.

c. Install a control joint lathing accessory at locations where the ceiling framing or furring changes direction.

2. Increase joint requirements where thicker stucco or special structural conditions exist.

3. Typically control joints are tied to the metal lath, which is cut to make two discontinuous slabs but may be continuous if allowed locally following the recommended Technical Bulletin.

4. Double studs may be required to accommodate control joints or where it is needed to provide a fastening base for sheathing board joints.

5. When Cemplaster Fiberstucco is bonded to a solid substrate such as concrete or masonry the control joint requirements may be revised. Control joints may be aligned with any control joints in the plaster base.

F. The type, location, ground dimension and orientation of lathing accessories shall be indicated on the contract documents.

G. Fire Protection

1. Refer to manufacturer's applicable code compliance report for other limitations and fire-resistive assemblies that may apply.

H. 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.

I. Dark Colors - The use of dark colors must be considered in relation to wall surface temperature as a function of local climatic conditions. Using a primer under dark or intense colors is suggested.

J. 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 Cemplaster Fiberstucco and wall system.

1.05 PERFORMANCE REQUIREMENTS

A. Cemplaster Fiberstucco System shall have been evaluated as follows:

Liquid Applied 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-RS) 12 perms (Rollershield-TG)
5. Air Leakage (material)	ASTM E2178	$\leq$ 0.004 cfm/ft^2 at 1.57 psf (0.02 L/s•m^2 at 75 Pa)	0.0002 cfm/ft^2
6. Air Leakage (assembly)	ASTM E2357	$\leq$ 0.04 cfm/ft^2 (0.2 L/s•m^2) @ 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

Fibered Stucco Weather Resistance and Durability Performance*

TEST	METHOD	CRITERIA	RESULTS
1. Freeze/Thaw	ASTM C67	Pass All Code Criteria	Pass
2. Compressive Strength	ASTM C109	1900 psi	Pass
3. Transverse Wind Load	ASTM E330	Withstand positive and negative wind loads as specified by the building code.	+/- 150 psf Ultimate. Allowable varies by Code
4. Accelerated Weathering	ASTM G26	2000 hours	Pass

Fire Performance

TEST	METHOD	CRITERIA	RESULT
1. 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
2. Fire Rating	ASTM E119	One Hour	Pass
3. Non combustibility	ASTM E136	Furnace testing at 750°C	Noncombustible
4. Multi-Story Fire	NFPA 285	Fire Resistance in multi-story buildings	Pass – designs vary

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.® Cemplaster Fiberstucco System and shall be experienced and competent in the installation of stucco. Additionally, the contractor shall possess a current Master Wall Inc.® applicator certificate issued by Master Wall Inc.®

B. Regulatory Requirements

1. Foam plastic insulation shall be separated from the interior of the building by a minimum 15-minute thermal barrier.
2. The use and maximum thickness of foam plastic insulation shall be in accordance with the applicable building codes.

C. Mock-Up
1. As directed, 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°F (4°C) or greater than 110°F (43°C).
E. Stack insulation board flat, fully supported off the ground and protected from direct exposure to the sun.
F. Material Safety Data Sheets (MSDS) or Safety Data Sheets (SDS) shall be supplied for the components of the system and be available at the job site.

1.08 PROJECT CONDITIONS

A. Ambient air temperatures shall be 40°F (4°C) or greater and rising at the time of installation of the Master Wall Inc.® products and shall remain at 40°F (4°C) or greater 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 effect on the curing or drying time of Master Wall Inc.® materials.
D. Adjacent materials and the Cemplaster Fiberstucco System shall be protected during installation and while curing from weather and shall be protected from site damage.
E. Coordinate installation of the Cemplaster Fiberstucco 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 labor 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.

1.09 SEQUENCING AND SCHEDULING

A. Installation of the Cemplaster Fiberstucco System shall be coordinated with other construction trades.

B. Sufficient labor and equipment shall be employed to ensure a continuous operation, free of cold joints, scaffold lines, texture variations, etc.

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 Cemplaster Fiberstucco 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 MOISTURE BARRIER (WRB)

(Supplied by various manufacturers) (Typical Application/Optional Component) <edit>

A. WRB01 Minimum of two-layers sheet meeting ASTM D-226, Type 1, Grade D or building code-approved alternate, or minimum of two-layers of 10-minute Grade D sheet or two layers complying with ASTM E2556, Type I with individual layers applied separately, or minimum of two-layers of 60-minute Grade D sheet complying with ASTM E2556, Type II with a layer of foam plastic insulating sheathing or other non-water absorbing layer (IBC 2021, B – Dry Climate Zones, 2510.6.1)

B. WRB02 Tyvek® StuccoWrap® or approved equal sheet weather resistive barrier with a minimum 15-lb/100 ft^2 (0.683 kg/m^2) vapor permeable asphalt saturated felt in compliance with ASTM D 226, Type I or similar in accordance with building code.

C. WRB03 Master Wall® Rollershield LAB, Liquid Applied Air and Water Barrier over an approved sheathing substrate with a minimum 15-lb/100 ft^2 (0.683 kg/m^2) vapor permeable asphalt saturated felt in compliance with ASTM D 226, Type I or similar in accordance with building code.

D. WRB04 Master Wall® Rollershield LAB, Liquid Applied Air and water barrier over concrete or masonry substrates with asphalt-based slip sheet.

E. Peel & Stick Tape: Compatible with moisture barrier, optional behind control joints. <edit>

F. Other weather barrier meeting the local building code criteria and accepted by Master Wall Inc.®

2.03 CONTINUOUS INSULATION (CI)

(Supplied by various manufacturers) (Typical Application/Optional Component)<edit>

A. Expanded polystyrene (EPS) - EPS foam insulation boards, when used as a sheathing, must have a nominal density of 1.5 lb/pcf, and a flame-spread index of 25 or less and a smoke developed index of not more than 450 when evaluated in accordance with ASTM E84. The boards must all comply with ASTM C578 as Type II. All boards must be recognized in an Evaluation Report and in the Evaluation Report of the one coat stucco manufacturer.

B. Foam insulation boards installed without sheathing, over open framing, must have a minimum nominal 1-inch thickness and have a 3/8" (9.5 mm) high tongue with compatible grooves for horizontal joints.

C. Extruded polystyrene (XPS) - XPS foam insulation boards must have a minimum nominal density of 1.5 lb/pcf and must comply with ASTM C578 as Type IV or V.
D. Polyisocyanurate - Polyisocyanurate foam insulation boards must have a nominal density of 2 lb/pcf and must comply with ASTM C1289 as Type II. Polyisocyanurate foam insulation boards must have a flame spread index of 25 or less and a smoke-developed index of 450 or less tested in accordance with ASTM E84 or UL723. Polyisocyanurate boards shall have all squared joints installed at horizontal and vertical edges supported by framing or blocking and be limited to non-fire-resistant-rated and combustible construction.
E. Mineral Wool – Boards must meet the requirements of ASTM C612 as Type IVA or IVB compliant mineral fiber block and board thermal insulation for both solid substrate and open frame construction. Mineral wool insulation boards must have a flame spread index of 0 and a smoke developed index of 0 in accordance with ASTM E84 or UL 723.
F. Insulation Thickness
   1. CI00 No continuous insulation used.
   2. CI01 1” (25.4 mm) insulation thickness
   3. CI02* 1.5” (38 mm) insulation thickness
   4. CI03* 2” (50.8 mm) insulation thickness
   5. CI04 External Insulation (Reference External Insulation information)
G. Provide closure where insulation board is exposed at grade. Reference EIFS Plastic Accessories data sheet.
   *Special lath attachment required. See 2.12.

2.04 DRAINAGE SPACER (DRS)

(Supplied by various manufacturers) (Typical Application/Optional Component) <edit>

A. DRS00 No drainage spacer used.
B. DRS01 Advanced Building Products Inc. Mortairvent: Rainscreen Mat with Backer Fabric, 6 mm & 10 mm, Benjamin Obdyke Home Slicker: Rainscreen Mat, Home Slicker Plus Typar: Rainscreen Mat with water barrier, Home Slicker Stone & Stucco: Rainscreen Mat with mortar fabric.
C. DRS02 Colsella Dörken Delta®-Dry or Delta®-Dry Plus High Performance Rainscreen System, Keene® Building Products Driwall Rainscreen 020-1.

2.05 CEMPLASTER FIBERSTUCCO (CFS)

A. Master Wall® Cemplaster Fiberstucco - factory proportioned, fiber reinforced Portland cement-based stucco for trowel or pump application, field mixed with graded sand (ASTM C 897) and water.
B. Master Wall® Ready Cemplaster Fiberstucco - factory proportioned, fiber reinforced Portland cement-based stucco for trowel or pump application, field mixed with water.
C. Master Wall® Cemplaster Fiberstucco L - factory proportioned, fiber reinforced lightweight stucco for trowel or pump application, field mixed with water.
D. Cemplaster Fiberstucco Co-Brand Products - Approved Quikrete®, Spec Mix® or Western 1-Kote stucco supplied by an authorized Master Wall® distributor and approved in Master Wall Inc.® Co-Brand data sheet and warranty program.
E. Installed thickness shall be: <edit> 3/8” (9.5 mm) CFS01, CFS02, 1/2" (12.7 mm) CFS02, CFS03, 3/4" (19 mm) CFS04*, 7/8” (22.2 mm) CFS05* *(*ASTM C926 compliant thickness)*.

2.06 STUCCO BONDING AGENTS AND ADDITIVES (SA)

(Typical Application/Optional Component) <edit>

A. BA57-water based acrylic resin bonding agent for brush or roller application to prepared masonry or concrete surfaces for direct application to porous substrates.

B. SA00 No stucco additive used.

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

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

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

2.07 SURFACE REINFORCEMENT MESH (SRM)

(Typical Application/Optional Component) <edit>

A. SRM00 No Surface Reinforcement Mesh used.

B. SRM01 Bulltec Reinforcing Mesh embedded into wet stucco brown coat.

2.08 LEVELING BASE COATS (LBC)

(Typical Application/Optional Component) <edit>

A. LBC00 No leveling base coat used.

B. LBC01 Leveling base coat of Master Wall® F&M, F&M Plus, MBB, MBB Plus, Guardian or WeatherSTOP.

C. LBC02 Reinforced leveling base coat of Master Wall® F&M, F&M Plus, MBB, MBB Plus, Guardian or WeatherSTOP embedded in Master Wall® Standard or Bulltec Mesh.

2.09 FOAM TRIM <edit>

A. Decorative foam trim pieces using Master Wall® materials and recommendations in accordance with the Foam Shapes product data sheet.

2.10 PRIMER (PRIME)

(Typical Application/Optional Component) <edit>

A. PRIME00 No primer used.

B. PRIME01 Master Wall® Primecoat or Sanded Primecoat: acrylic-based tinted primer.

2.11 FINISH COAT (FIN)

(Typical Application/Optional Component) <edit>

A. FIN01 Superior Finishes: Master Wall Inc.® Superior Finishes are acrylic-based wall coatings available in a variety of colors and textures. The following textures are available:

1. Perfect 2.0 - riled texture
2. Fine Sand 1.0 – sand type texture
3. Medium Sand 1.5 – coarse sand texture
4. Versatex 0.5 – Fine texture used to create numerous finishes

B. FIN02 Superior Elastomeric Plus Finish: Master Wall Inc.® Superior Finishes using elastomeric polymers to bridge minor cracking. The following textures are available:
   1. Perfect 2.0 - riled texture
   2. Fine Sand 1.0 – sand type texture
   3. Medium Sand 1.5 – coarse sand texture
   4. Versatex 0.5 – Fine texture used to create numerous finishes

C. Finish Enhancements
   1. Silicone Coat FA02 - Factory added silicone enhancement for better water resistance and to keep buildings cleaner.
   2. Excel Mildew Enhancement FA01 - Factory added mildew booster exceeding ASTM D3273 requirements.

D. Specialty Finishes
   1. Aggrelime – Limestone Look Finish
   2. Aggre-stone – Rough Granite Look
   3. CIFS® Brick Realistic Brick
   4. CIFS® Wood Grain
   5. Brick Stencil
   6. LaCantera – Beautiful Cantera Stone Look
   7. Lumia – Granite with Sparkling Mica
   8. Marbleflex – Brilliant Plaster Finish
   9. Metallic Cote – Metallic Look Finish Coating
   10. Metal-Tex - Integrally Colored Metallic Look Textured Finish
   11. Savannah – Interior/Exterior Venetian Plaster Type Finish
   12. Superior Stone – Smooth Granite Look
   13. Taratex – Earthen look Plaster
   14. Travertine – Recreates the look of Travertine Limestone

E. Accents & Coatings
   1. DuraCote architectural coating
   2. Elasto-flex elastomeric architectural coating
   3. Clearshield clear protective coating
   4. Vintique antiquing accent

2.12 METAL PLASTER BASES

(Supplied by others; select one depending on type construction) <edit>

A. Furring- Metal plaster bases shall be furred over all substrates .

B. When the base coat thickness is 1/2-inches (12.7 mm) thick or less, the body of metal plaster base shall be furred a nominal of 1/8-inch (3.2 mm) from the substrate.

C. When the base coat thickness greater than 1/2-inches (12.7 mm) thick, the body of metal plaster base shall be furred a nominal of 1/4-inch (6.4 mm) from the substrate.

D. Approved Plaster Bases
1. Expanded metal lath meeting *ASTM C847 Standard Specification for Metal Lath*.
2. Welded wire lath meeting *ASTM C933 Standard Specification for Welded Wire Lath.*
3. Woven wire lath meeting *ASTM C1032 Standard Specification for Woven Wire Plaster Base*. 20 gage woven wire may only be used when the base coat thickness is 1/2-inches (12.7 mm) thick or less.
4. Nonmetallic plaster bases meeting ASTM C1788; St. Gobain Fibalath™ Glass Fiber Lath, Plastic Components Ultra Lath Plus.

E. Lathing accessories shall meet specifications in *ASTM C1861, Specification for Lathing and Furring Accessories, and Fasteners, for Interior and Exterior Portland Cement-Based Plaster*.

F. Selecting the appropriate type of plaster base and accessories shall be up to the design professional. Plaster base and accessories should be selected to be compatible with the environment and climatic conditions specific to the location of the project. These conditions include, but are not limited to, salt air, high moisture, and industrial pollution.

G. Common Metal Plaster Base Combinations
1. CFS01, 3/8" thick Cemplaster Fiberstucco Minimum No. 17 or 20-gauge galvanized steel woven wire fabric in compliance with ASTM C 1032, Structa Fusion One Coat Stucco Lath or StructaLath III No. 17 SFCR.
2. CFS03, 1/2" thick Cemplaster Fiberstucco Minimum 2.5 lb./yd^2 (1.4 kg/m^2) self-furred galvanized steel diamond mesh metal lath in compliance with ASTM C 847.
3. CFS03-TT, 1/2" thick Cemplaster Fiberstucco with Structalath Twin Trac 316: Welded wire lath reinforcement manufactured by Structa Wire Corp. and recognized in ICC-ES ESR-2017.
4. CFS03-SS, 1/2" thick Cemplaster Fiberstucco Minimum 2.5 lb./yd^2 (1.4 kg/m^2) self-furred stainless steel diamond mesh metal lath in compliance with ASTM C 847, 304 or 316 stainless steel.
5. CFS04, 3/4 " thick Cemplaster Fiberstucco Minimum 3.4 lb./yd^2 (1.8 kg/m^2) self-furred galvanized steel diamond mesh metal lath in compliance with ASTM C 847.
6. CFS-04-ML, 3/4 " thick Cemplaster Fiberstucco with Structalath Mega Lath: Welded wire lath reinforcement manufactured by Structa Wire Corp. and recognized in ICC-ES ESR-2017.
7. CFS04-SS, 3/4 " thick Cemplaster Fiberstucco Minimum 3.4 lb./yd^2 (1.8 kg/m^2) self-furred stainless steel diamond mesh metal lath in compliance with ASTM C 847, 304 or 316 stainless steel.
8. CFS05, 7/8" thick Cemplaster Fiberstucco Minimum 3.4 lb./yd^2 (1.8 kg/m^2) self-furred galvanized steel diamond mesh metal lath in compliance with ASTM C 847.
9. CFS-05-ML, 7/8" thick Cemplaster Fiberstucco with Structalath Mega Lath: Welded wire lath reinforcement manufactured by Structa Wire Corp. and recognized in ICC-ES ESR-2017.
10. CFS05-SS, 7/8" thick Cemplaster Fiberstucco Minimum 3.4 lb./yd^2 (1.8 kg/m^2) self-furred stainless steel diamond mesh metal lath in compliance with ASTM C 847, 304 or 316 stainless steel.
11. Striplath Minimum 4" x 12" (102 mm x 305 mm), in types and weights noted above.

2.13 MECHANICAL FASTENING & ATTACHMENT (by others) <edit>

A. Appropriate non-corroding fasteners, depending on the type framing or substrate and lath-specific requirements:
1. Wood Framing--minimum 11-gauge, 7/16-inch (11 mm) diameter head galvanized roofing nails or 1-inch wire staples driven flush with the plaster base with minimum 3/4-inch (19 mm) penetration into studs, or minimum #8 Type S wafer head fully threaded corrosion resistant screws with minimum 3/4-inch (19 mm) penetration into studs.
2. Steel Framing—minimum #8 Type S or S-12 wafer head fully threaded corrosion resistant screws with minimum 3/8-inch (9.5 mm) penetration into studs.

3. Concrete or Masonry—minimum # 8 wafer head fully threaded corrosion resistant screws for masonry with minimum 1 inch (25 mm) penetration into substrate and approved corrosion resistant hand, power, or powder actuated stub nails with a minimum 3/8" (9.5 mm) head and not less than 3/4" (19 mm) long.
4. For stainless steel, use washers with galvanized fasteners or use stainless steel fasteners to avoid galvanic reaction.

B. Tie Wire—18 gauge galvanized and annealed low-carbon steel in compliance with ASTM A 641 with Class I coating, 18 ga stainless steel wire for stainless steel lath and accessories.

C. Support Plates – For Continuous Insulation (CI) thicknesses of 1.5" (38 mm) or greater, CI02 and CI03 use an approved accessory plate. Wind-Lock Lath Lock or ULP 302, Demand DP300, Buildex Gridmate or Master Wall® approved equal.

2.14 ACCESSORIES

(By others) <edit>

A. Weep screed, casing bead, corner bead, cornerite, corner lath, expansion, and control joint accessories. All accessories shall meet the requirements of ASTM C 1063 and its referenced documents:
1. PVC plastic in compliance with ASTM D 1784, cell classification 13244C.
2. Galvanized metal in compliance with ASTM A653 with G60 coating.
3. Zinc in compliance with ASTM B69.
4. 304 stainless steel trim manufactured in accordance with ASTM C841.

B. All accessories shall be designed with grounds for the specified thickness of the Cemplaster Fiberstucco.

2.15 JOB MIXED INGREDIENTS

A. Water: Clear, clean, and potable without any foreign matter in the solution that may affect the color and setting qualities of the cement, adhesive, base, or finish coat.

B. Sand: Clean, well graded sand free of deleterious materials in compliance with ASTM C897.

C. Cement: Type I or I-II Portland cement meeting ASTM C150.

2.16 MIXING

A. Mix products in accordance with manufacturer's recommendations.

PART III – EXECUTION

3.01 INSPECTION

A. Prior to the application of Master Wall Inc.® Cemplaster Fiberstucco, the substrate shall be examined for compliance with the contract documents and Master Wall Inc.® specifications. The substrate shall have no planar irregularities greater than ¼" in 10' (6.4 mm in 3.05 m). The General Contractor and Architect shall be advised in writing of any discrepancies. Work shall not proceed until unsatisfactory conditions are corrected.

3.02 PREPARATION

A. Protect contiguous work from damage during application of the Cemplaster Fiberstucco. Temporary covering may be required to prevent over spray or splattering of exterior finish coatings on other work.

B. Protect substrate from inclement weather during installation. Prevent infiltration of moisture behind the system that may affect the substrate.

C. Cemplaster Fiberstucco, Adhesive, Base Coats and Finishes shall not be installed when ambient air temperature is below 40°F (5°C). The temperature shall remain at or above 40°F (5°C) during mixing, application and until materials have cured.

D. Sufficient scaffolding, labor and tools shall be provided to prevent cold joints.
E. The substrate shall be clean and dry.
F. 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 Cemplaster Fiberstucco. All flashing materials should direct the water to the exterior face of the finished system.
G. Concrete (Cast-in-Place)
1. Provide a surface that is slightly scarified, water absorbent, straight and true to within 1/4" in 10'-0" (6.4 mm in 3.05 m). Grind down any projections and remove any form release agents by an appropriate method. Establish surface profile by sandblasting, water blasting, wire brushing, chipping, or other appropriate means. Remove all dust, dirt, grease, laitance, or other bond inhibiting material. Pre-moisten highly absorbent surfaces with water or BA57 prior to placement of Cemplaster Fiberstucco.
H. Concrete Masonry Units
1. Remove projecting joint mortar so it is even with the plane of the wall. Remove surface contaminants such as efflorescence, existing paint or any other bond inhibiting material by sandblasting, water blasting, wire brushing, chipping, or other appropriate means. Pre-moisten highly absorbent surfaces with water or BA57 prior to placement of Cemplaster Fiberstucco.
I. Gypsum Sheathing in compliance with ASTM C1396, Glass Mat Faced Gypsum Sheathing in compliance with ASTM C 1177 and Exterior or Exposure 1 wood-based sheathing (plywood and OSB [Oriented Strand Board]).
1. Verify acceptable installation of sheathing according to the type of sheathing specified.
2. Protect the substrate with a moisture barrier as required by the applicable code and install lath and accessories.

3.03 INSTALLATION, GENERAL
A. Comply with the manufacturers' current published instructions, (specifications, details, data sheets and technical bulletins) for the installation of the Cemplaster Fiberstucco.
B. Mix materials in accordance with Master Wall® literature.
C. Comply with local building codes.

3.04 MOISTURE BARRIER (WRB) INSTALLATION
(Supplied by various manufacturers) (Typical Application/Optional Component) <edit>
A. WRB01 Apply 15-lb/100 ft^2 (0.683 kg/m^2) vapor permeable asphalt saturated felt in compliance with ASTM D 226, Type I or similar in accordance with building code. Apply shingle fashion lapping the water barrier 2" (50 mm) horizontally and 6" (15 cm) horizontally. Apply in the same manner if used as a single-layer slip sheet.
B. WRB02 Tyvek® StuccoWrap® or building code approved equal sheet weather resistive barrier. Install in strict accordance with manufacturer's recommendations.
C. WRB03 Master Wall® Rollershield LAB, Liquid Applied Air and Water Barrier over an approved sheathing substrate with a single layer of WRB01 as a slip sheet. Install in strict accordance with the Master Wall® Rollershield LAB installation instructions. Use Rollershield and Rollershield Flashing Tape in accordance with installation recommendations.
D. WRB04 Master Wall® Rollershield LAB, Liquid Applied Air and water barrier over concrete or masonry substrates with a single layer of WRB01 as a slip sheet. Install in strict accordance with the Master Wall® Rollershield LAB installation instructions. Use Rollershield and Rollershield Flashing Tape in accordance with installation recommendations.
E. Peel & Stick Tape: Install in strict accordance with manufacturer's recommendations as indicated on drawings, optional/required behind control joints. <edit>

3.05 CONTINUOUS INSULATION (CI)

(Supplied by various manufacturers) (Typical Application/Optional Component) <edit>

A. CI00 No continuous insulation used.

B. CI01 1" (25.4 mm) insulation thickness (R-5 @75F).

C. CI02* 1.5" (38 mm) insulation thickness (R-7.5 @75F).

D. CI03* 2" (50.8 mm) insulation thickness (R10 @75F).

E. CI04 External Insulation (Reference External Insulation information)

F. Install insulation tightly in accordance with Master Wall Inc.® and manufacturer recommendations in a running bond pattern, interlock inside and outside corners.

G. Fasten insulation boards in place using approved fastening method in the center of the board at framing locations.

H. If the insulation is being used as a weather resistive barrier (WRB), seal in accordance with manufacturers recommendations.

I. Provide closure where insulation board is exposed at grade. Reference Plastic Accessories data sheet.

*Special lath attachment required. See 2.12.

3.06 DRAINAGE SPACER (DRS)

(Supplied by various manufacturers) (Typical Application/Optional Component) <edit>

A. DRS00 No drainage spacer used.

B. DRS01 Advanced Building Products Inc. Mortairvent: Rainscreen Mat with Backer Fabric, 6 mm & 10 mm, Benjamin Obdyke Home Slicker: Rainscreen Mat, Home Slicker Plus Typar: Rainscreen Mat with water barrier, Home Slicker Stone & Stucco: Rainscreen Mat with mortar fabric., Keene Building Products Driwall Rainscreen 075: Wide Spaced Rainscreen Mat, Driwall Rainscreen 075-1: Wide Spaced Rainscreen Mat with mortar fabric. Install in strict accordance with manufacturer's recommendations. Attach drainage spacer at framing locations only.

C. DRS02 Colsella Dörken Delta®-Dry or Delta®-Dry Plus High Performance Rainscreen System or Keene® Building Products Driwall Rainscreen 020-1. Install in strict accordance with manufacturer's recommendations. Attach drainage spacer at framing locations only.

D. Where a defined drainage space is provided over the weather resistive barrier under lath and cement plaster, the ground dimension of lathing accessories with solid attachment flanges installed behind the water resistive barrier and defined drainage space to facilitate drainage such as weep screeds, designated drainage screeds, expansion joints and drainage flashings, shall accommodate the defined drainage space dimension and specified cement plaster thickness. Install components and flashings as needed to facilitate drainage.

3.07 ACCESSORY, LATH INSTALLATION

After satisfactory inspection of surfaces and correction of any deviations from specification requirements commence the Cemplaster Fiberstucco installation in accordance with A or B below. Accessory type, depth, location, and orientation shall be included in the contract documents. Where masonry or concrete surfaces vary in plane, plaster thickness required to produce level surfaces shall not be required to be uniform.

A. Installation over new cast-in-place concrete or concrete masonry units (unreinforced):

1. Install foundation weep screed at the base of the wall as required.
2. Install casing beads at Cemplaster Fiberstucco terminations—doors, windows and other through wall penetrations. Install two-piece expansion joints, back-to-back casing beads or control joints at joints in the supporting construction, building expansion joints, where the Cemplaster Fiberstucco is to be installed over dissimilar construction or substrates, at changes in building height, at floor lines, columns, and cantilevered areas as directed on the construction documents. Install corner bead at outside corners and corner lath at inside corners (except where lathing is installed continuously through the

corner). Install full accessory pieces where possible and avoid small pieces. Seal adjoining pieces by embedding ends in sealant if specified. Abut horizontal into vertical joint accessories. Attach at 6 inches (152 mm) on center into concrete/masonry with appropriate fasteners.

3. Solid surfaces shall have the suction (ability to absorb water) or surface roughness, or both, to provide the bond required for plaster.
4. Smooth or nonabsorbent solid surfaces, such as cast-in-place or precast concrete, shall be prepared to receive Cemplaster Fiberstucco by one of the following methods as needed:
   a. Sandblasting, wire brushing, acid etching or chipping or a combination thereof.
   b. Application of a dash-bond coat applied forcefully against the surface, left untroweled, undisturbed, and moist cured for at least 24 hours
   c. Pre-moisten with BA57 prior to the placement of Cemplaster Fiberstucco.

B. Installation over frame construction with sheathing and reinforced masonry with a WRB:

1. Weep Screed Installation
   a. Install foundation weep screed at the base of the wall securely to framing with the appropriate fastener. Locate foundation weep screed so that it overlaps the joint between the foundation and framing by a minimum of 1 inch (25 mm). Locate the foundation weep screed minimum 4 inches (101 mm) above earth grade, 2 inches (51 mm) above finished grade (paved surfaces, for example).
2. Weather Protection
   a. Weather barrier will lap onto foundation weep screed as noted in Master Wall® details.
   b. Verify that WRB installation is complete.
3. Casing Bead and Expansion Joint Installation
   a. Install casing beads at Cemplaster Fiberstucco terminations—doors, windows and other through wall penetrations. Install expansion joints (or back-to-back casing beads) at building expansion joints, where the Cemplaster Fiberstucco is to be installed over dissimilar construction or substrates, at changes in building height, at floor lines, columns, and cantilevered areas. Install full accessory pieces where possible and avoid small pieces. Seal adjoining pieces by embedding ends in sealant. Abut horizontal into vertical joint accessories. Attach at 6-inch (152 mm) centers into framing with appropriate fasteners. (Note: refer to architectural drawings for joint locations and accessory type. Moisture protection must be continuous behind joints and accessories.)
4. Control Joint Installation
   a. Install control joints according to the type, location, ground dimension and orientation as indicated on the contract documents. Tack in place as insure proper alignment during the application of the lath. Wire tie control joints to lath at 6 inches (152 mm) on center if framing members are not present under the accessory.
   b. Seal any exposed ends and edges preferably by setting them in sealant during installation to prevent water entry.
   c. Install peel and stick flashing tape under wall control joint locations if specified. <not a requirement, edit>
5. Lath Installation
   a. Diamond Mesh Metal Lath
      1. General--install metal lath with the long dimension at right angles to structural framing. Terminate lath at expansion joints and also at control joints where not surface applied. Stagger side laps a minimum of one framing member.
      2. Seams/overlaps – Side laps shall be lapped a minimum of 1/2” (13 mm) and a maximum of 2” (50 mm). End laps shall be lapped a minimum of 1” (25 mm) and a maximum of 2” (50 mm). overlap side seams 1/2 inch (13 mm) and end seams a minimum 1-inch (25 mm). Overlap casing beads and expansion joints minimum 1 inch (25 mm) onto the narrow wing accessories and 2 inches over expanded flange accessories.

3. Attachment-fasten securely through sheathing into structural framing at 6 inches (152 mm) on center maximum vertically and 16-24 inches (41-61 cm) on center horizontally*. Wire tie horizontal laps at 8 inches (204 mm) on center at side laps, and where end laps occur between supports.

b. Wire Lath

1. General--unroll wire lath with the long dimension at right angles to structural framing. Terminate wire lath at expansion joints and also control joints where not surface applied. Stagger side laps a minimum of one framing member.
2. Seams/overlaps – Side laps shall be lapped a minimum of one mesh at sides and ends. Where end laps occur between framing members, the ends of the sheets shall be laced, or wire tied with tie wire a minimum of 0.0475 (1.21 mm) diameter.
3. Attachment--fasten securely through sheathing into structural framing at 6 inches (152 mm) on center maximum vertically and 16-24 inches (41-61 cm) on center horizontally*. Wire tie horizontal laps at 8 inches (204 mm) on center at side laps, and where end laps occur between supports.

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

c. Paper-backed lath—follow installation as for metal lath. Lap lath over lath, not paper to lath overlap. For horizontal overlaps the paper backing must lap shingle style behind the lath-to-lath overlap.

d. Structa Wire Products – follow manufacturer's instructions for installation.

e. Apply Striplath, minimum 4" x 12" (102 mm x 305 mm), in type and weights of selected lath at casing bead corners if control joints are not used off windows and doors.

f. Inside and Outside Corners - Install corner lath at inside corners and corner bead at outside corners over lath (except where lathing is installed continuously through the corner). Attach through lath into framing at 6 inches (152 mm) on center with appropriate fasteners.

3.08 CEMPLASTER FIBERSTUCCO APPLICATION

A. Cemplaster Fiberstucco Application

1. Mix Master Wall® Cemplaster Fiberstucco in strict accordance with Master Wall Inc.® recommendations adding additional components identified in the project specifications.
2. When mixing add Master Wall® Stucco Ad Liquid in quantities noted in SA01 assemblies.
3. Scratch Coat: apply Cemplaster Fiberstucco with sufficient pressure to key into and embed the metal lath (if used). Apply sufficient material, approximately half the Cemplaster Fiberstucco ground thickness to cover the metal lath and to permit scoring the surface. Score the Cemplaster Fiberstucco horizontally upon completion of each panel in preparation for brown coat if a "double back" application of a wet scratch and brown coat is not being used.
4. Brown Coat: as soon as the scratch coat is firm enough to receive the brown coat without damage, apply the brown coat with sufficient pressure to ensure intimate contact with the first coat to an approximate thickness as needed to bring the Cemplaster Fiberstucco to a uniform thickness that matches the grounds of the accessories. Use a rod or straight edge to bring the surface to a true, even plane. Fill depressions in plane with Cemplaster Fiberstucco.
5. After the Cemplaster Fiberstucco has become slightly firm float the surface lightly with a Darby or wood float to densify the surface and to provide a smooth, even surface. Embed Bulltec Mesh into the wet brown coat if specified.
6. Moist cure using fogging, plastic films, or other method acceptable to the design professional for 48-72 hours. Mixes with Master Wall® Stucco Ad Liquid do not need moist curing.
7. Allow to fully cure until clean, dry, and hard before finishing:
   - Typically, 7-14 days if no Master Wall® Stucco Ad Liquid is used.

- After 72 hours if Master Wall® Stucco Ad Liquid is used provided the Cemplaster Fiberstucco is clean, dry, and hard.
- After 24 hours if using a leveling base coat (LBC).

8. See Master Wall® Technical Bulletins and data sheets for additional curing, drying and application recommendations.

(Note: The proper time to float is when the wood float no longer sticks to the surface of the Cemplaster Fiberstucco)

B. Leveling Base Coat (LBC01 and LBC02)

a. Ensure that the surface of the Cemplaster Fiberstucco is cured, clean, dry, and free of efflorescence, oil or other contaminants that would impair adhesion.

b. Mix Leveling Base Coat materials in accordance with Master Wall Inc.® recommendations

c. LBC01: Apply the base coat to the entire surface of the Cemplaster Fiberstucco approximately 3/32" (2.4 mm) thick.

d. LBC02: Apply the base coat to the entire surface of the Cemplaster Fiberstucco approximately 3/32" (2.4 mm) thick. Immediately embed Master Wall Inc.® reinforcing mesh into wet base coat with a trowel, working from the center toward the edges, until the mesh is fully covered, and a smooth surface is achieved. The color of the mesh shall not be visible, but a slight mesh pattern may be visible. Lap mesh 2 ½" (64 mm) minimum on all sides. Reinforcing Mesh shall be continuous through all interior and exterior corners extending beyond the corner a minimum of 12" (30 cm) from both directions creating a minimum of two layers of standard reinforcing mesh on all interior and exterior corners.

e. Allow to dry a minimum of 12 hours at room temperature before finishing.

3.09 FINISH APPLICATION

A. Primecoat Application (PRIME01)

1. Apply Primecoat or Sanded Primecoat: Apply evenly according to the data sheet using brush, roller, or proper spray equipment over the clean, dry Cemplaster Fiberstucco and foam shape buildouts and allow to dry thoroughly before applying finish.

B. Superior Finish Coat Application (FIN01 and FIN02)

1. Surface irregularities in the base coat, such as trowel marks, insulation board lines and reinforcing mesh laps shall be corrected prior to the finish application.
2. Apply the Master Wall Inc.® Superior Finish in the color and texture as approved by the project owner or the project architect with sufficient labor and equipment to insure a continuous operation without cold joints, scaffolding lines etc. Texture finish shall match approved jobsite samples. Thickness and coverage will vary depending on the specified final appearance.
3. Trowel Application – (Perfect 2.0, Fine Sand 1.0, Medium Sand 1.5, Versatex 0.5)
   a. Apply the Superior Finish to the clean, dry, and cured base coat with a stainless-steel trowel.
   b. Level the surface to a uniform thickness of 3/32" to 1/8" (2.4-3.2 mm).
   c. Float the Finish with a plastic float in a uniform motion to achieve the desired texture.

C. Spray Application – (Perfect 2.0, Fine Sand 1.0, Medium Sand 1.5, Versatex 0.5)

a. Prime surface with Master Wall Inc.® Primecoat or Sanded Primecoat tinted to match the selected finish color. Allow Primecoat or Roller-Flex to cure a minimum of 12 hours prior to finish coat application.

b. Using a conventional plaster hopper gun or a proven pump, spray finish over the primed base coat to achieve desired texture using a circular overlapping pattern keeping the spray gun at a 90° angle to the surface and maintaining the same distance to the wall at all times.

c. Be cautious of flooding an area with too much finish because it may appear shinier when it dries.

D. Specialty Finishes: Follow individual product data sheet application instructions.

3.10 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).

3.11 PROTECTION

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

Disclaimer

This Specification is published for general informational purposes only and is not intended to imply that these are the only materials, procedures, or methods, which are available or suitable. Materials, procedures, or methods may vary according to the particular circumstances, local building code requirements, design conditions, or statutory and regulatory requirements. While the information in this specification is believed to be accurate and reliable, it is presented without guarantee or responsibility on the part of Master Wall Inc.®

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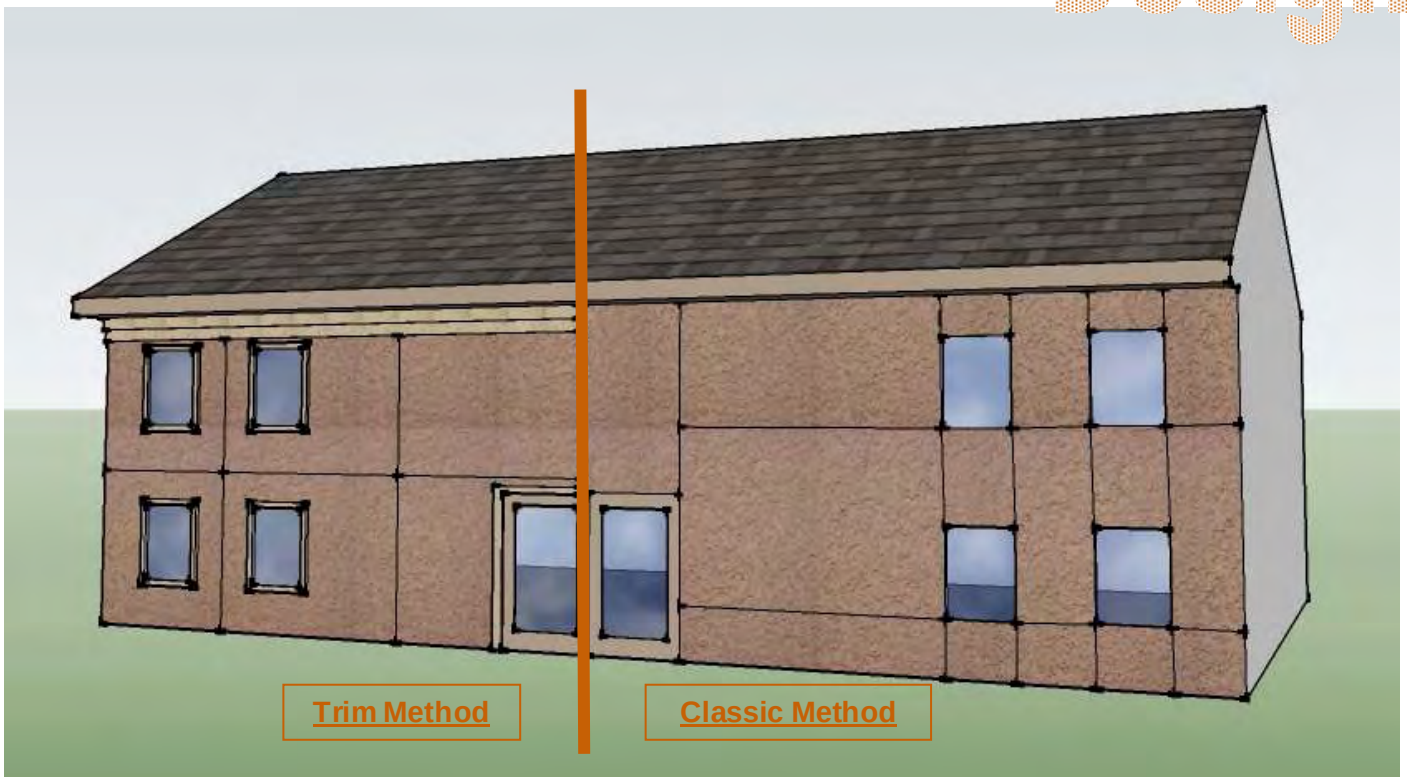
Design



Notes:
Control joints are required and should be located by the designer at the following locations on the construction documents:

- 144 sf (13.4 sm) is the maximum overall area
- One dimension shall not exceed 2-1/2 times the other dimension
- At all dissimilar substrate/sheathing transitions.
- Possibly off corners of windows/doors.
- Increase control joint requirements where thicker stucco or special structural conditions exist.

CFD-01

Control Joint Study (General)

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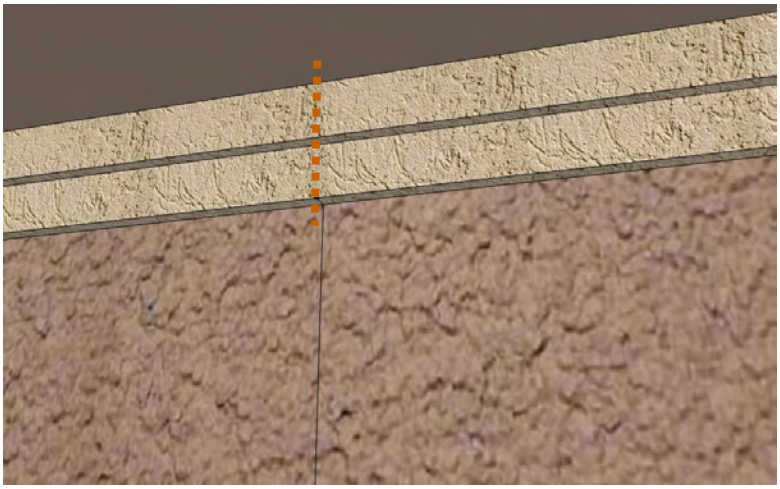

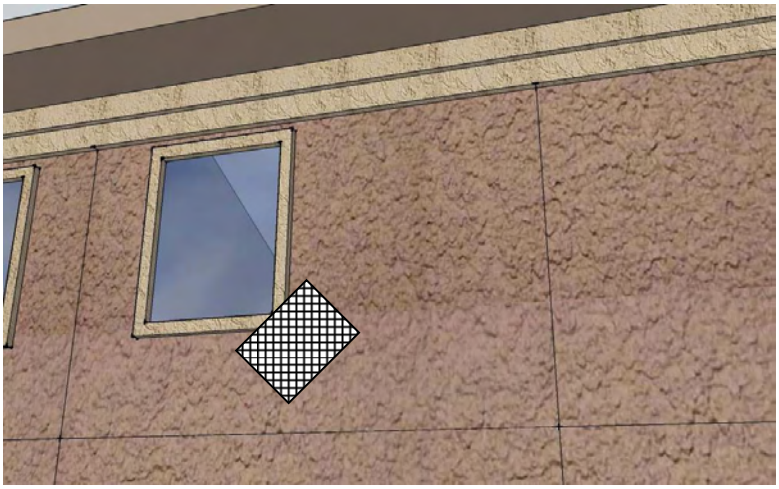

Trim Method Notes

- If trim is planned it's usually best to avoid running the control joints through them.
- Evaluate floor line conditions and place either a control or expansion joint.
- If large foam trims are used, plan on adding an expansion joint in the trim if the control joint continues behind it.
- Use Striplath reinforcement at corners.

CFD-02

Control Joint Study (Trim Method)

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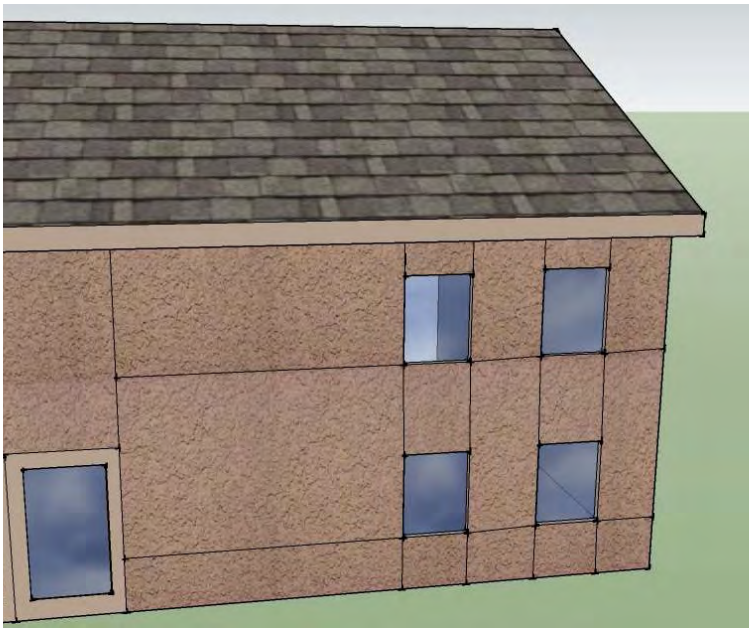

Design

Classic Method Notes

- The classic method uses the window and door openings as part of the control joint process
- Evaluate floor line conditions and place either a control or expansion joint if needed, otherwise follow the general guidelines.
- Generally foam trims aren't used with this aesthetic condition.
- Do not use butterfly lath reinforcement at corners.

CFD-03

Control Joint Study (Classic Method)

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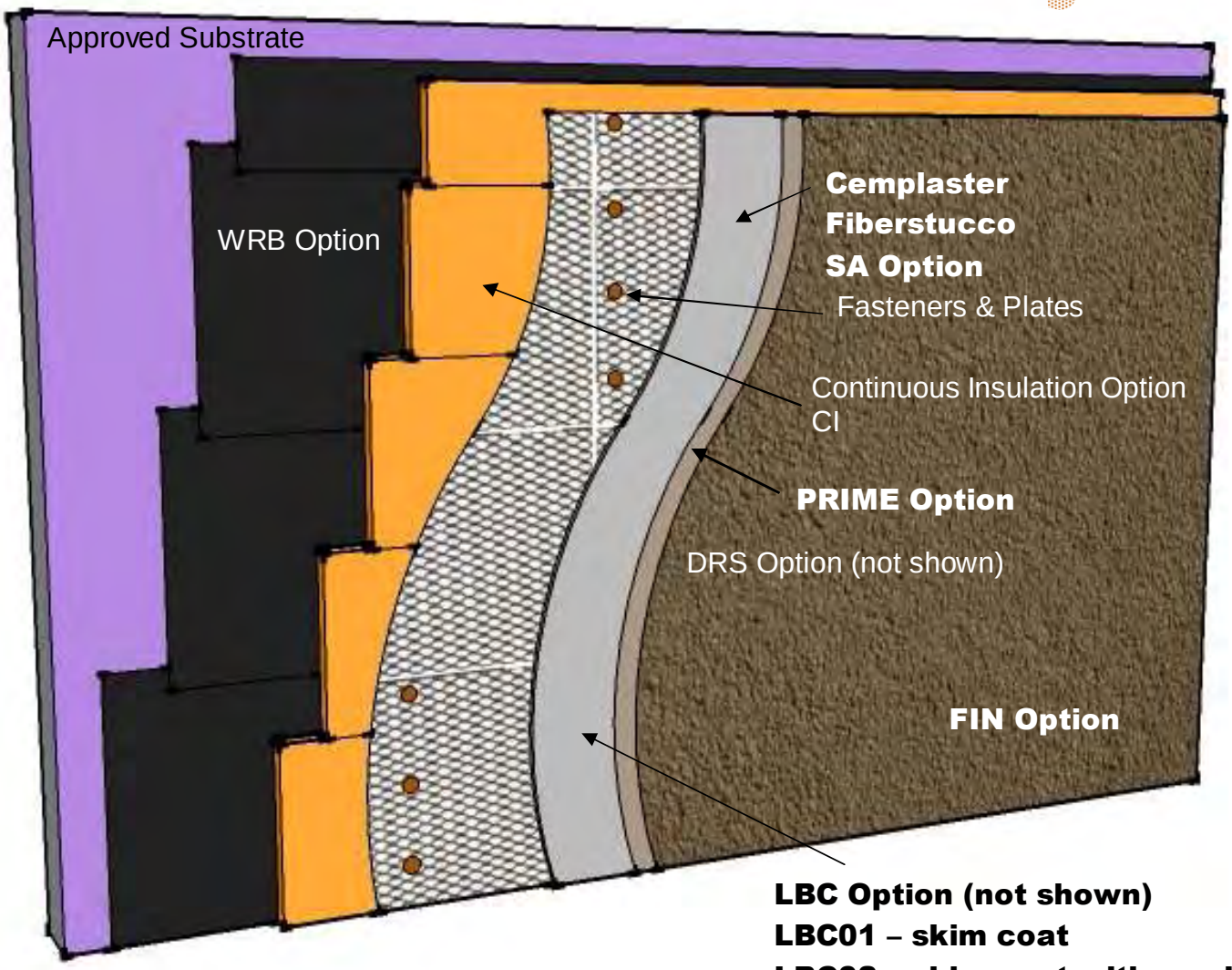

CFD-04

CFS01, 03, 04 and 05 Cross-Section with options

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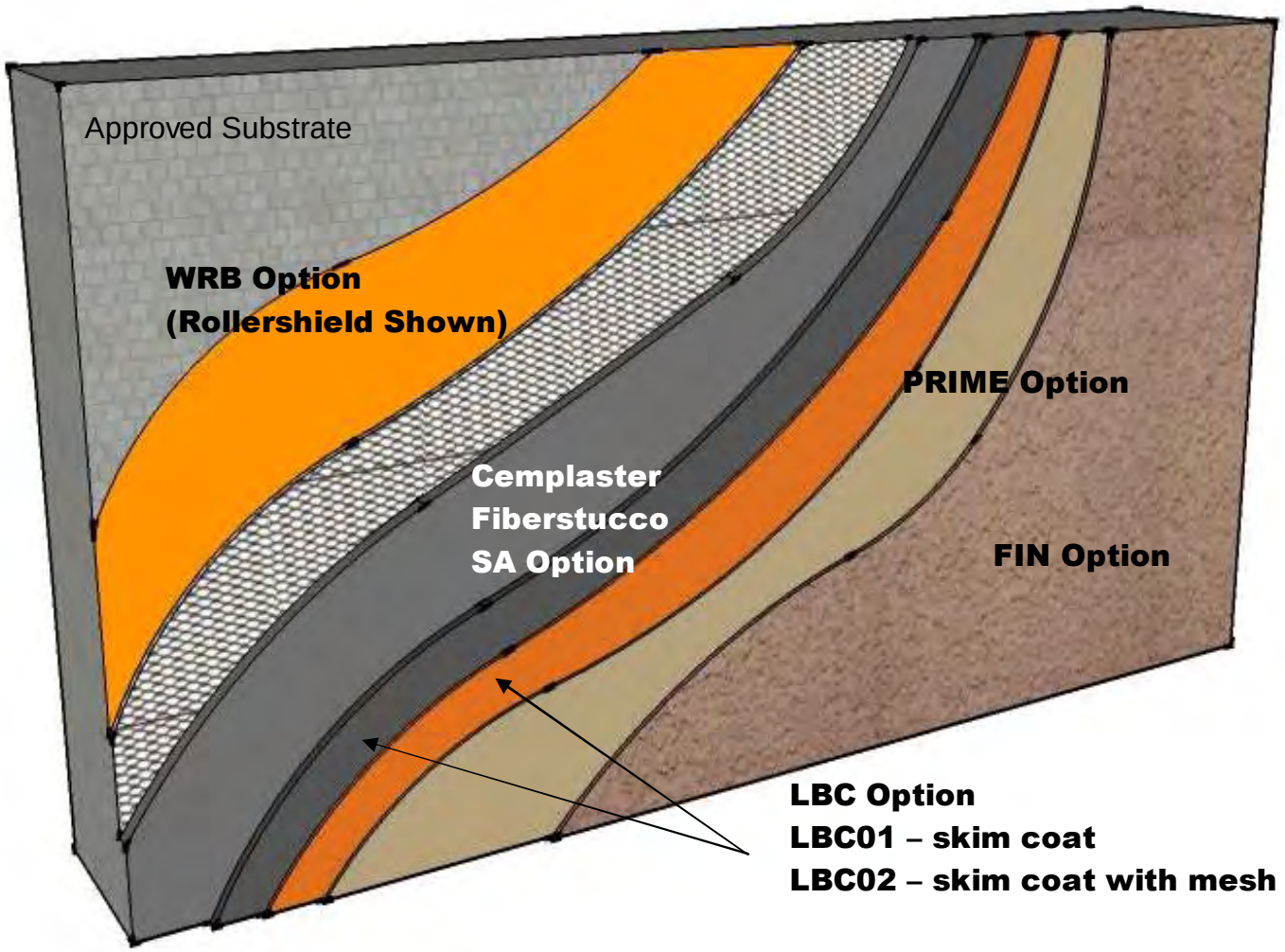

CFD-05

CFS01, 03, 04 and 05 Cross-Section with options

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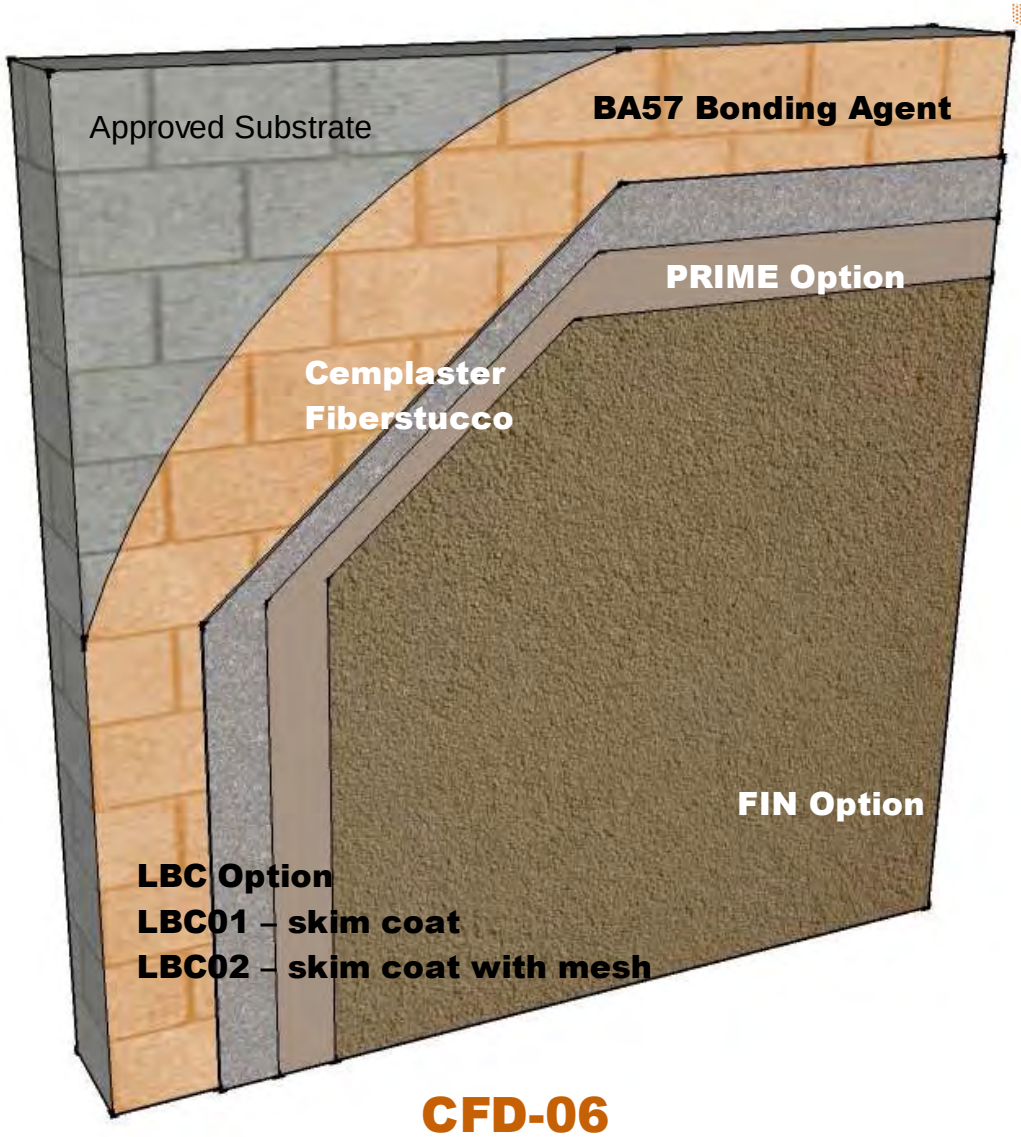

CFD-06

CFS02 Cross-Section with options

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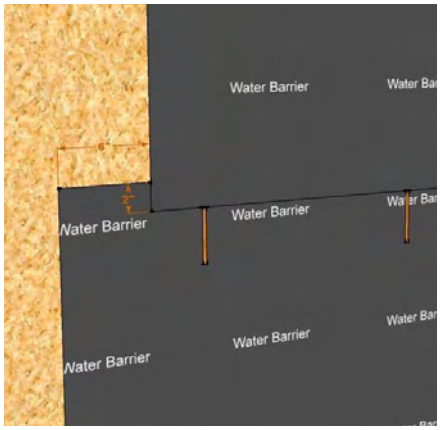
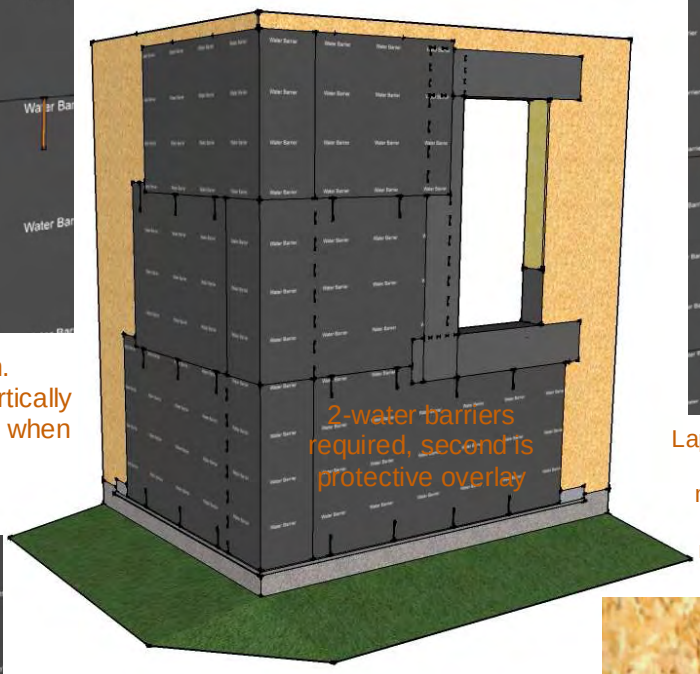
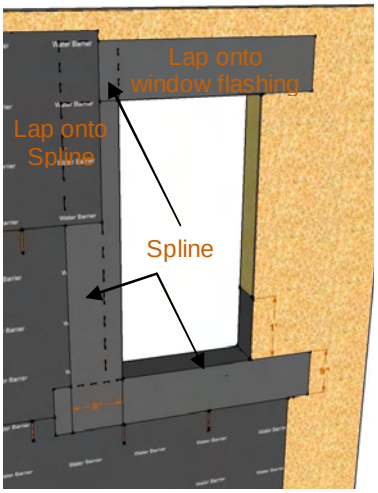
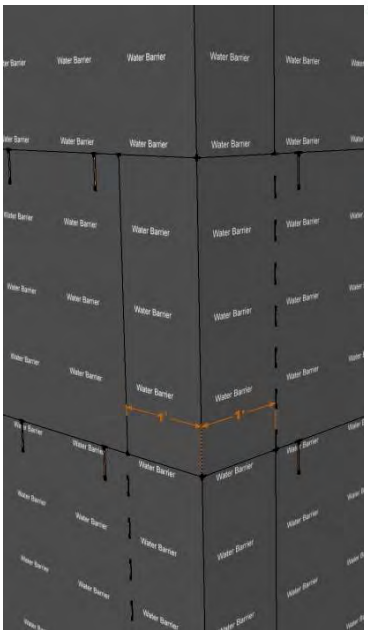


Lap felt 2” (50 mm) min. horizontally, 6” (152 mm) vertically
Hint: mark framing locations when installing felt





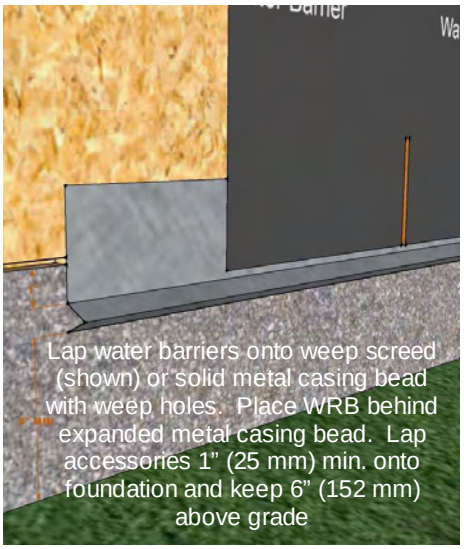
Lap felt spline as noted. If using peel and stick follow manufacturer’s instructions. Always follow window manufacturer’s instructions



Lap corners 12” (305 mm) each side

Verify detailing with asphalt felt manufacturer

Minimum requirements: Grade D or ASTM D226, Type I



CFD-07

WRB01 Design Notes

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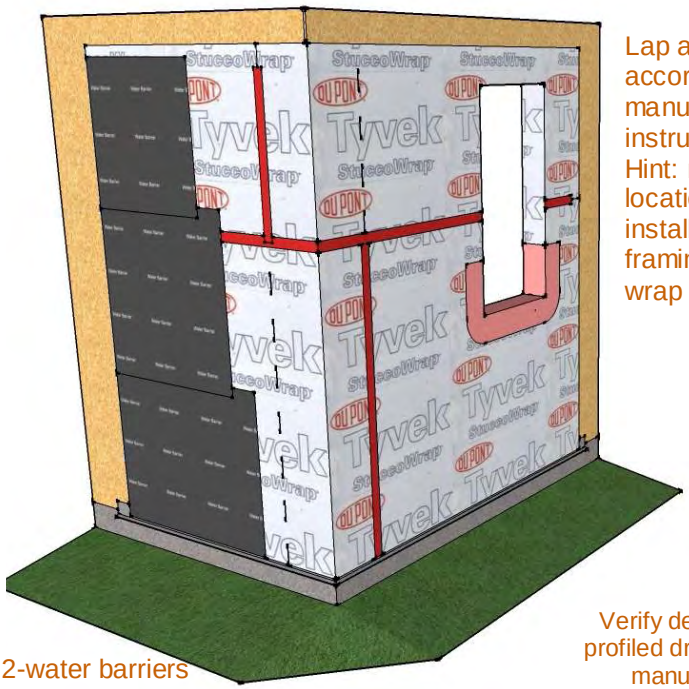
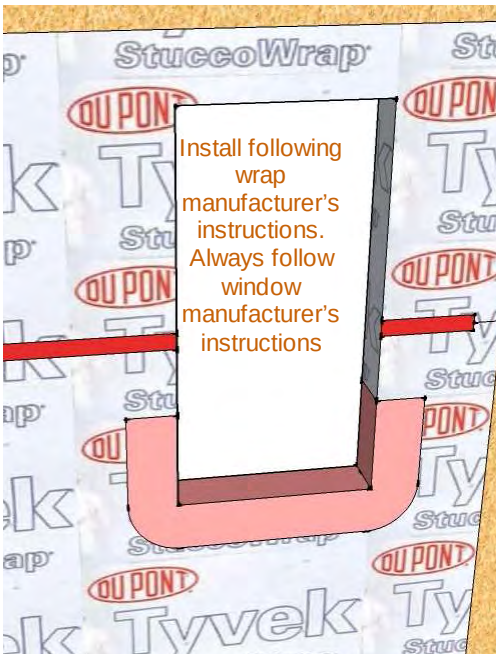
Lap corners per manufacturer's instructions



Lap and seal according to manufacturer's instructions
Hint: mark framing locations when installing or align framing marks on wrap

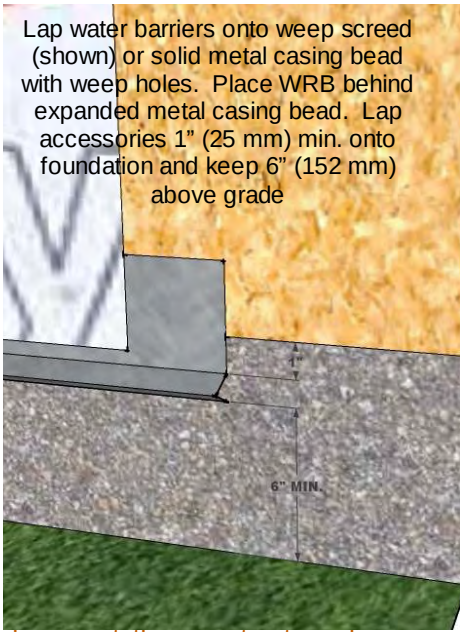


Install following wrap manufacturer's instructions. Always follow window manufacturer's instructions

2-water barriers required, second is protective overlay of asphalt felt

Verify detailing with profiled drainage wrap manufacturer

Minimum requirements: Code Recognized profiled wrap equivalent to Grade D or ASTM D226, Type I



CFD-08

WRB02 Design Notes

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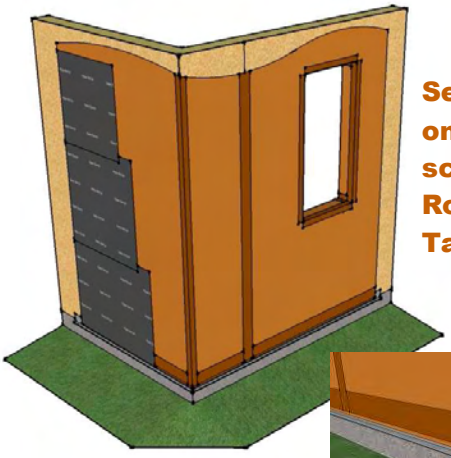
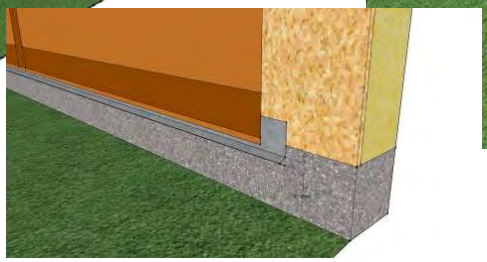
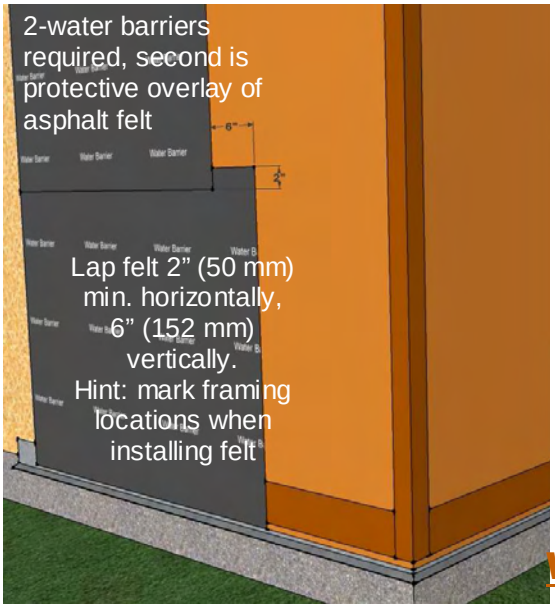
Follow Rollershield LAB Detail instructions



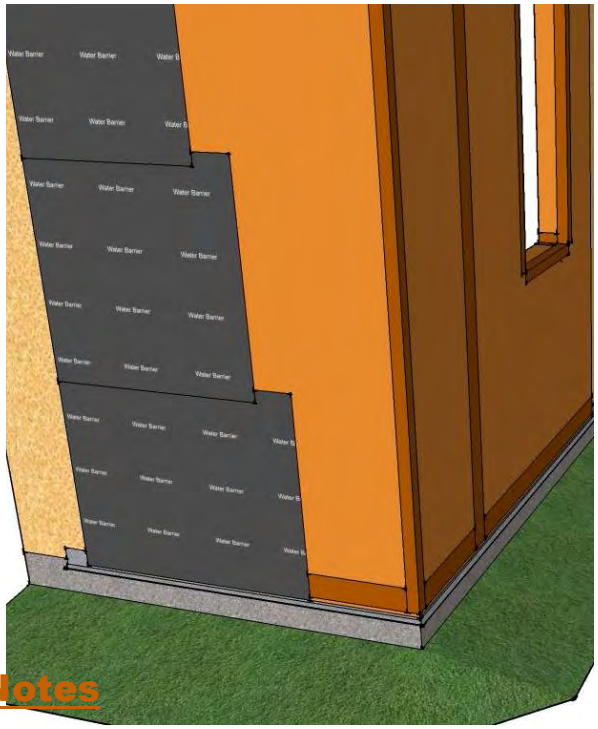
Seal seams and lap onto stucco weep screed or track with Rollershield Flashing Tape





Minimum requirements: ASTM D226, Type I

Lap water barriers onto weep screed (shown) or solid metal casing bead with weep holes. Place WRB behind expanded metal casing bead. Lap accessories 1" (25 mm) min. onto foundation and keep 6" (152 mm) above grade



CFD-09

WRB03 Design Notes

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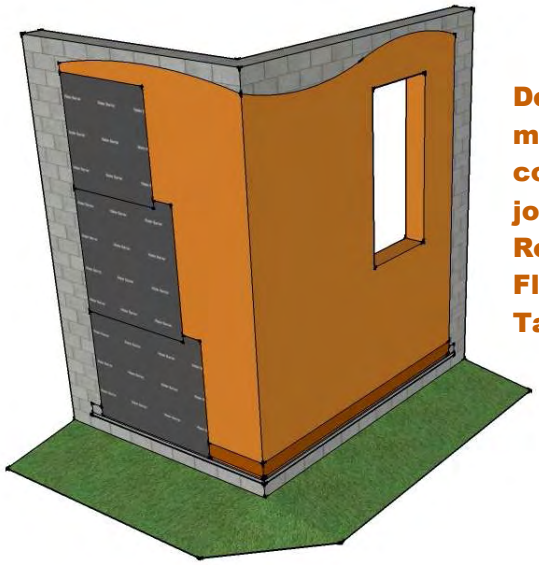
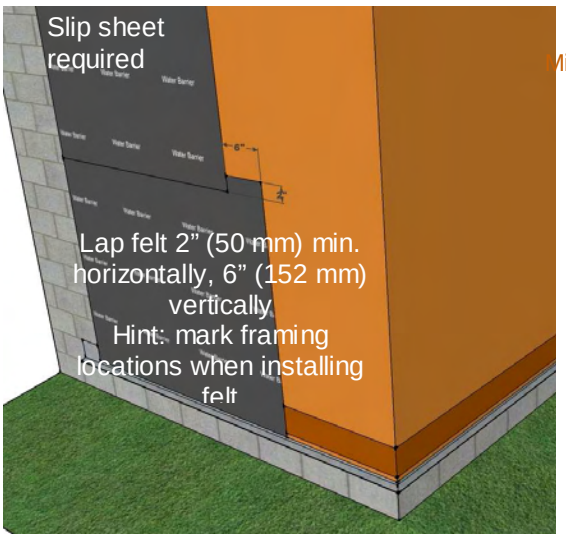
Follow Rollershield LAB Detail instructions

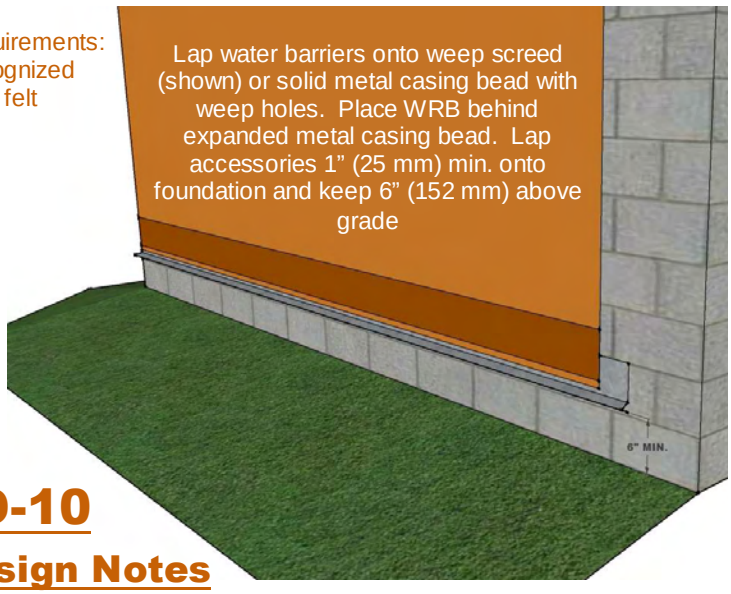


Detail masonry control joints with Rollershield Flashing Tape

Install following Rollershield LAB details. Always follow window manufacturer's instructions



Minimum requirements: Code Recognized asphalt felt



CFD-10

WRB04 Design Notes

Insulation Code-recognized as a water barrier

Insulation not recognized as a water barrier

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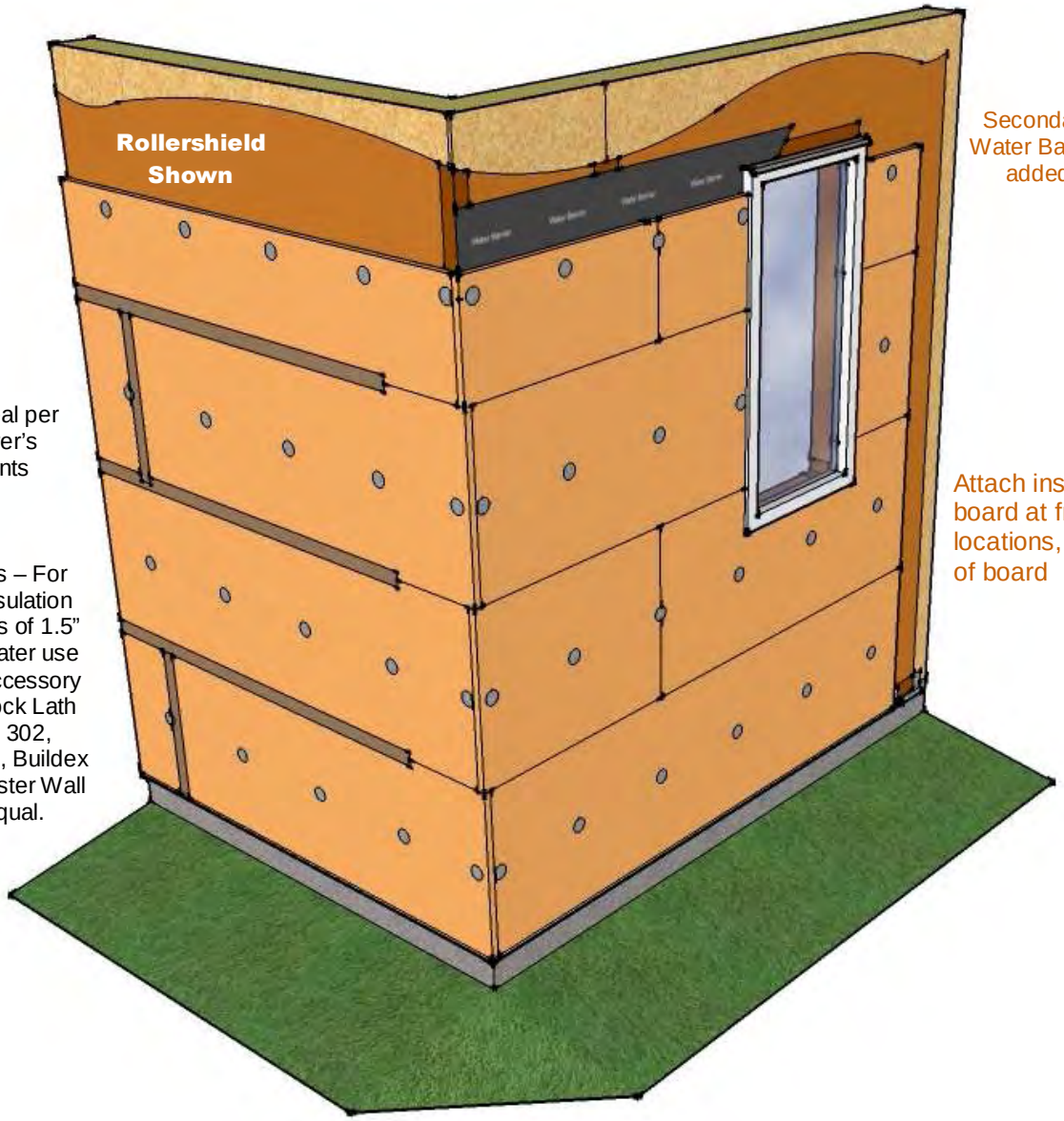

CFD-11

CI01 Design Notes

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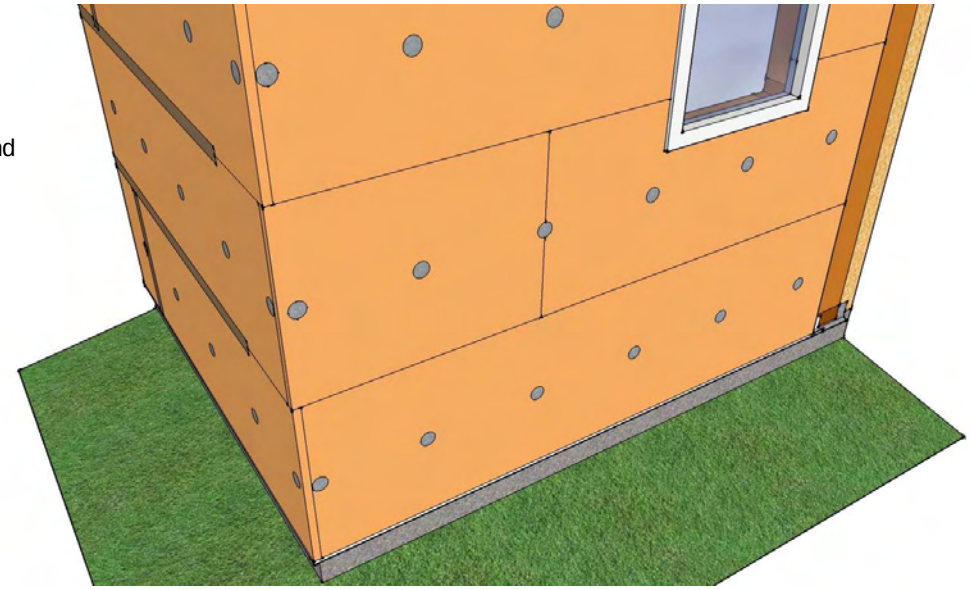
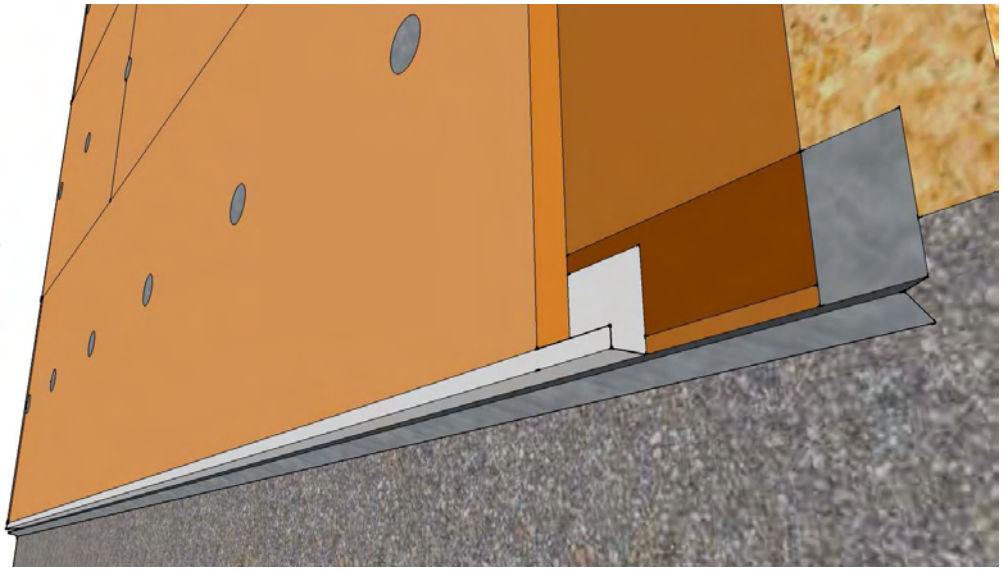
Interlock inside and outside corners



Provide a closure strip to protect insulation board from exterior exposure



CFD-12

CI01 Detail Notes

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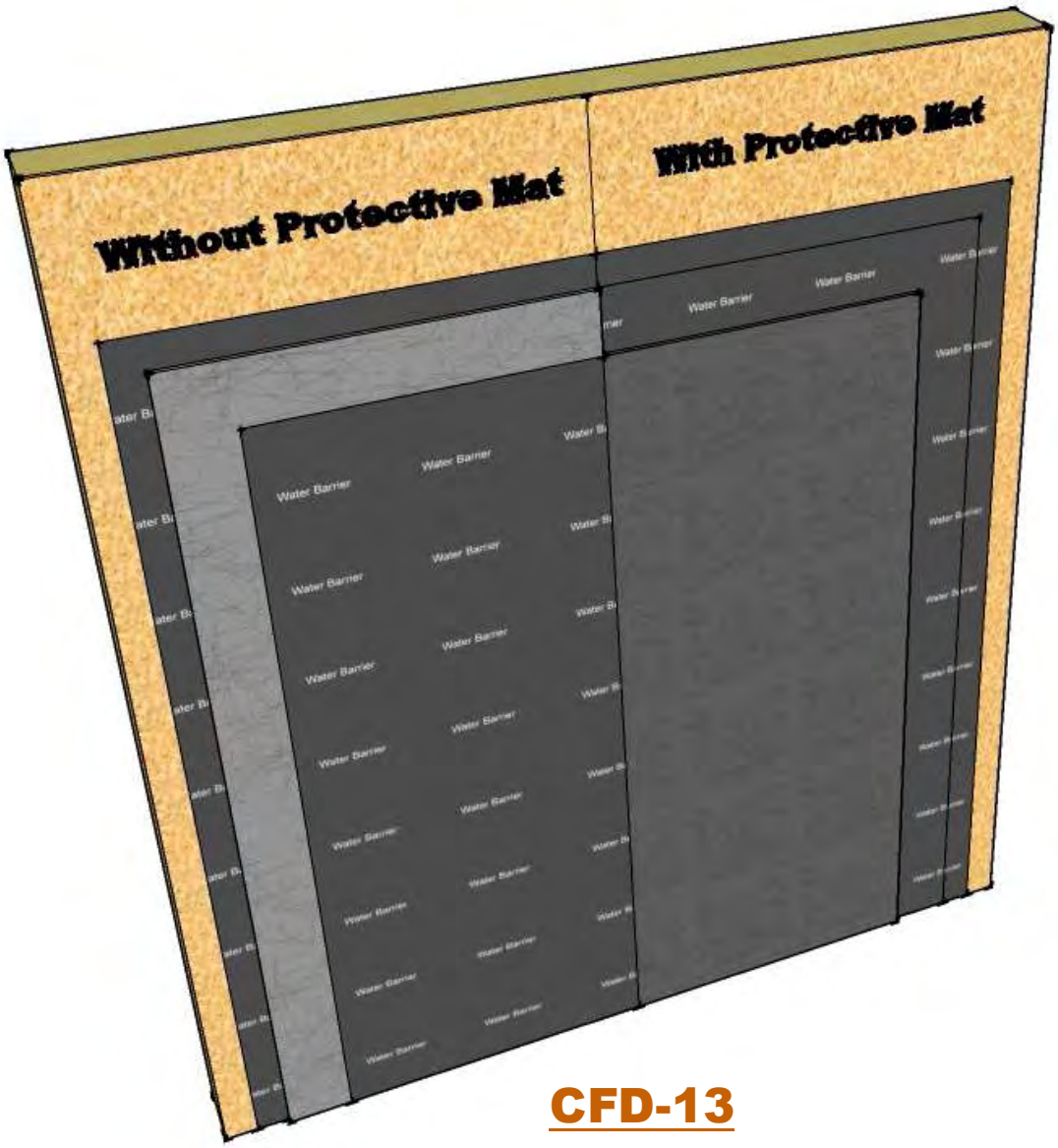

Reference product data sheet for approved drainage media.

If a mortar-screened mat is used place mat in front of water barriers, if not place between them.

CFD-13

DRS01 Detail Notes

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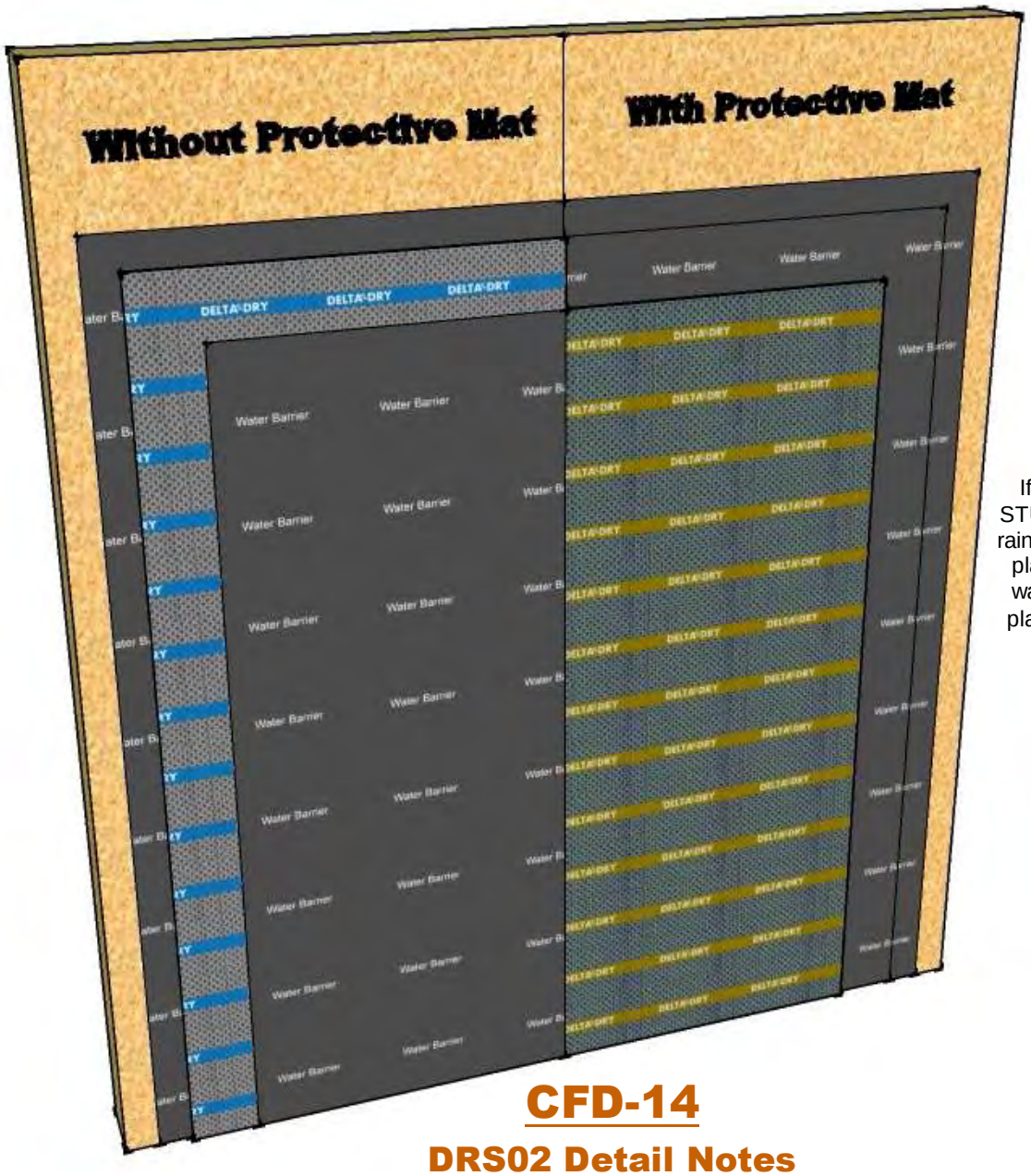

If a DELTA® DRY STUCCO and STONE rainscreen mat is used place mat in front of water barriers, if not place between them.

CFD-14

DRS02 Detail Notes

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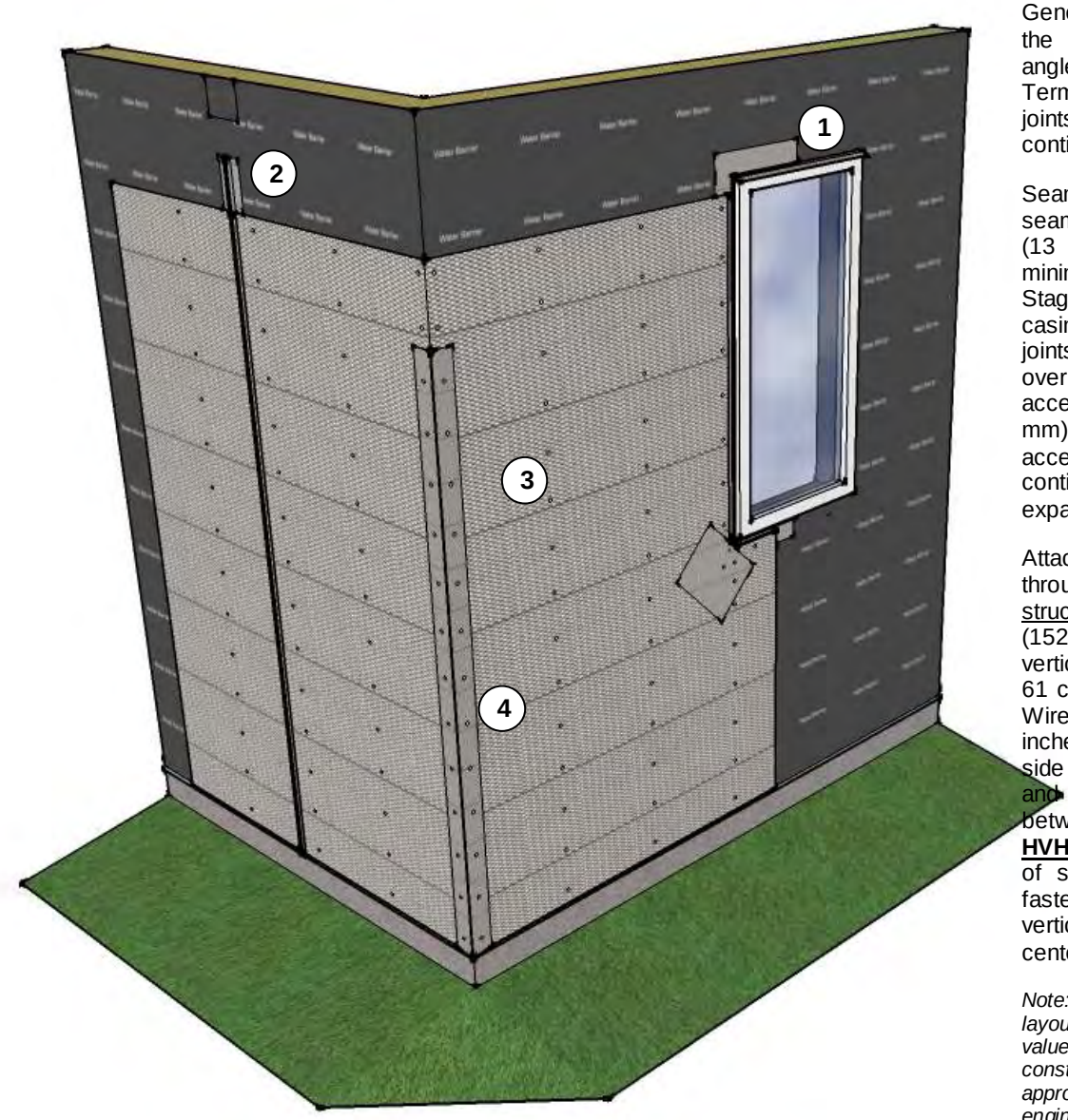

With water barrier installed over weep screed:
1. Attach casing Beads
2. Tack Control Joints
3. Install Lath
4. Set Corner Beads

Tie lap joints in lath, casing beads and control joints as needed.

CFD-15

Lath Notes

General--install metal lath with the long dimension at right angles to structural framing. Terminate lath at expansion joints. Do no install continuously beneath joints.

Seams/overlaps – overlap side seams a minimum of ½ inch (13 mm) and end seams a minimum 1-inch (25 mm). Stagger end seams. Overlap casing beads and expansion joints minimum 1 inch (25 mm) over the narrow wing accessories and 2 inches (50 mm) over expanded flange accessories. Do not install lath continuously beneath expansion joints.

Attachment--fasten securely through sheathing into structural framing at 6 inches (152 mm) on center maximum vertically and 16-24 inches (41-61 cm) on center horizontally*. Wire tie horizontal laps at 8 inches (204 mm) on center at: side laps, accessory overlaps, and where end laps occur between supports. **Florida HVHZ**: 7/8" minimum thickness of stucco, 3.4#/sy metal lath fastened 4" (102 mm) on center vertically and 16" (41 cm) on center horizontally.

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

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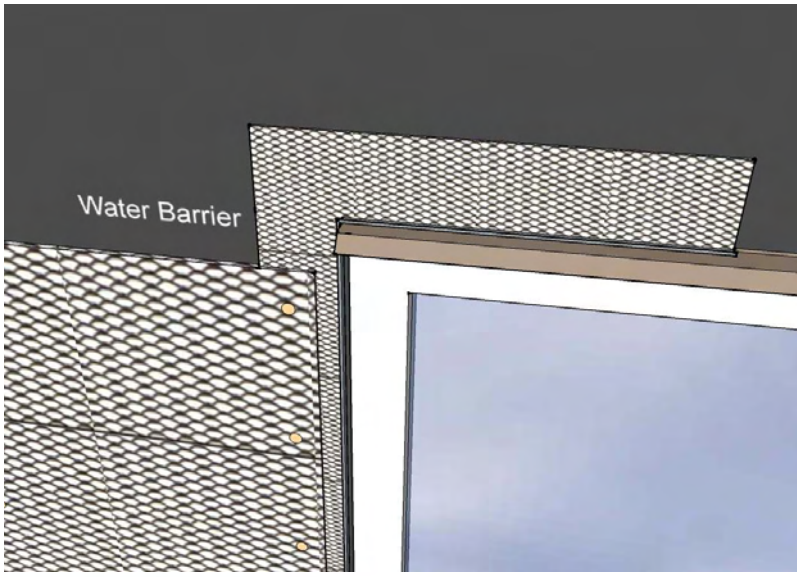
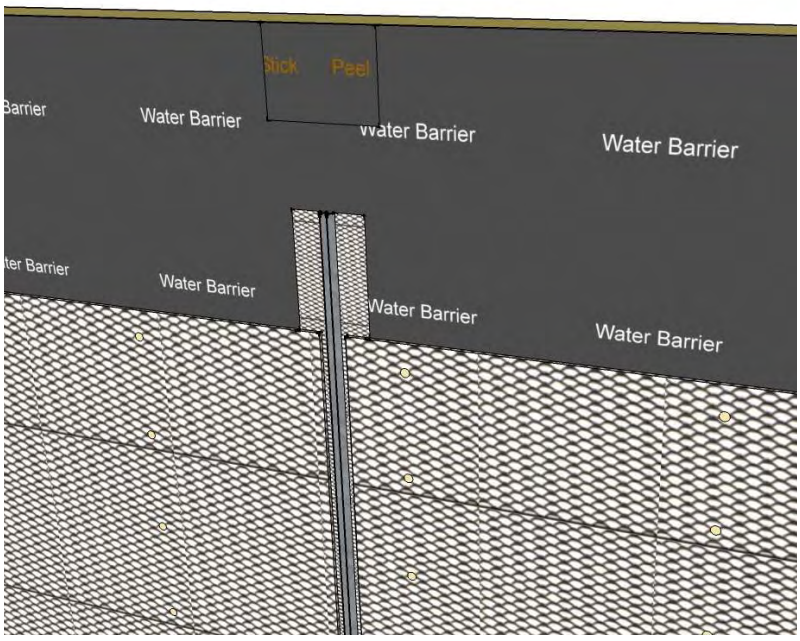


Casing Bead and Expansion Joint Installation

Install casing beads at stucco terminations—doors, windows and other through wall penetrations. Install expansion joints (or back-to-back casing beads) at building expansion joints, where the stucco is to be installed over dissimilar construction or substrates, at changes in building height, at floor lines, columns, and cantilevered areas. Install full accessory pieces where possible and avoid small pieces. Seal adjoining pieces by embedding ends in sealant. Abut horizontal into vertical joint accessories. Attach at 6-inch (152 mm) centers into framing with appropriate fasteners.



Control Joint Installation

Install control joints every 144 ft2 (13.4 m2) for walls and 100 ft2 (9.3 m2) maximum (as indicated on the construction documents). Tack in place as insure proper alignment during the application of the lath. Wire tie control joints to lath at 6 inches (152 mm) on center if framing members aren't present under the accessory.

Seal any exposed ends and edges preferably by setting them in sealant during installation to prevent water entry.

Install peel and stick flashing tape under wall control joint locations if specified. <not a requirement, edit>

CFD-16

Accessory Installation Notes

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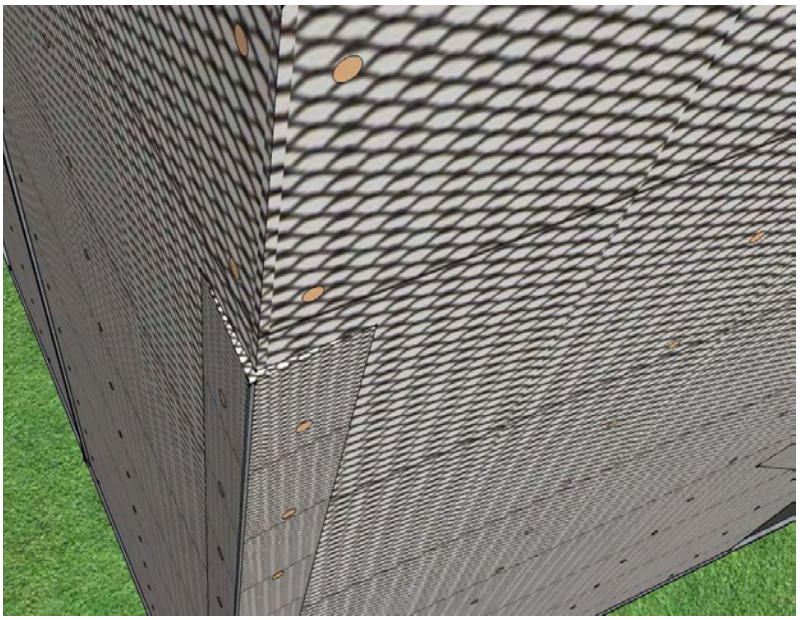
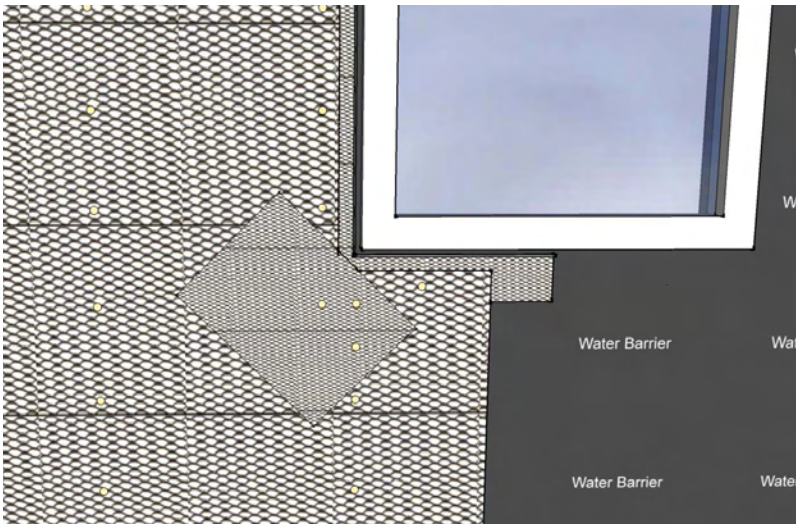


Inside and Outside Corners
Install corner lath at inside corners and corner bead at outside corners over lath. Attach through lath into framing at 6 inches (152 mm) on center with appropriate fasteners.



Diagonal Reinforcement
Apply Striplath, minimum 4” x 12” (102 mm x 305 mm), in type and weights of selected lath at casing bead corners.

CFD-17

Accessory Installation Notes

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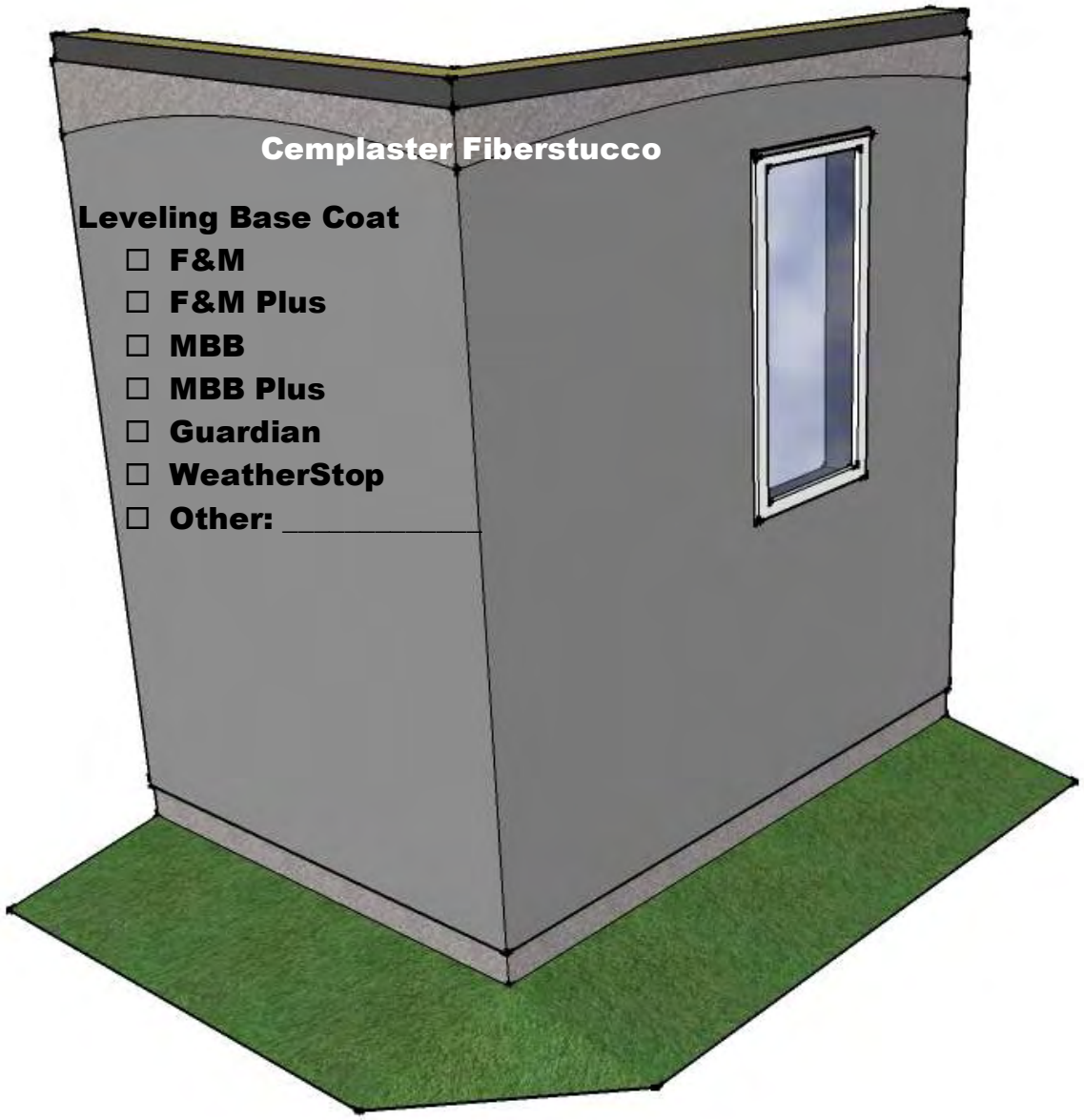

CFD-18

LBC01 Leveling Base Coat

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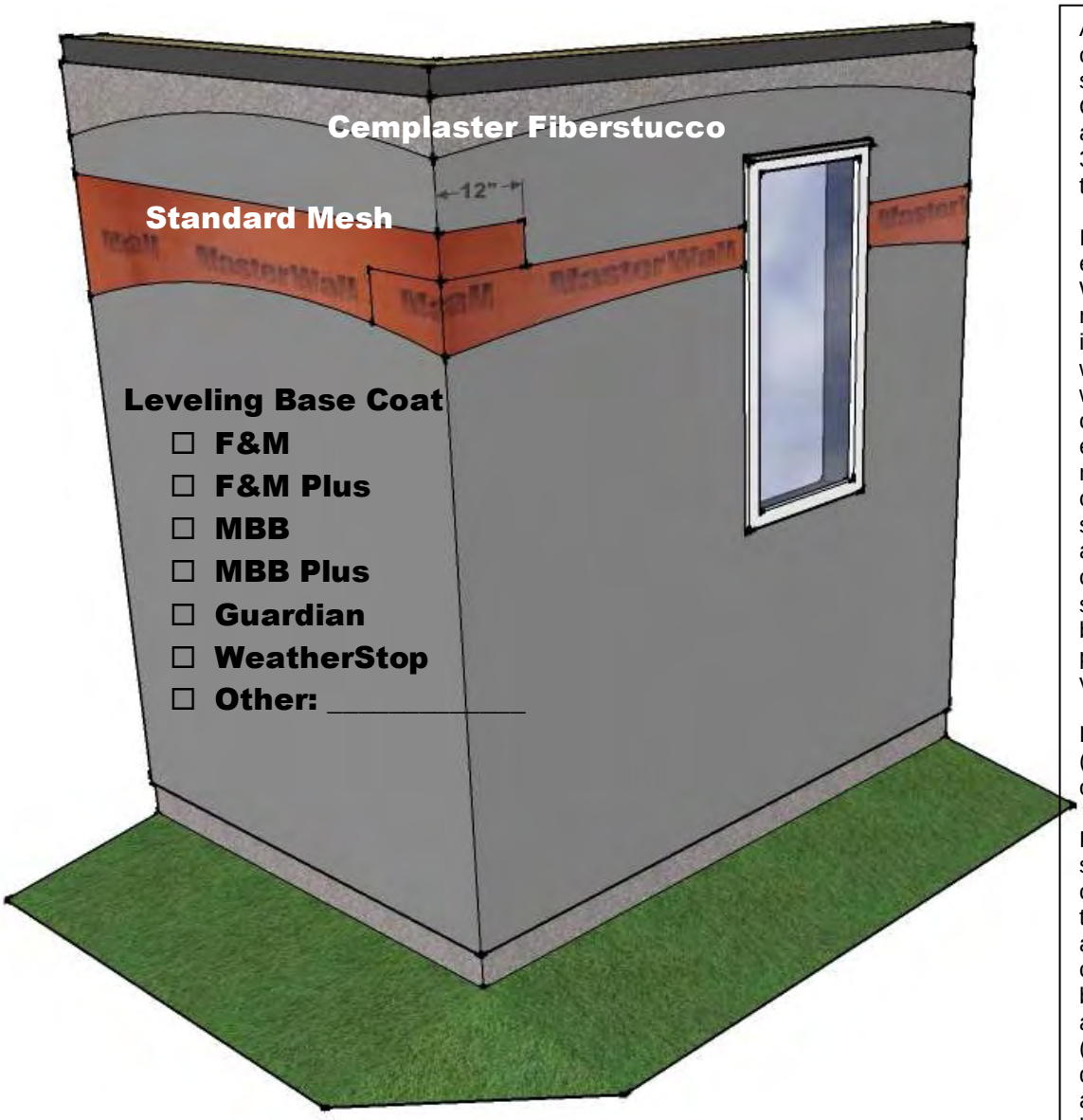

CFD-19

LBC02 Leveling Base Coat

Apply the base coat to the entire surface of the OCS approximately 3/32" (2.4 mm) thick.

Immediately embed Master Wall Inc. reinforcing mesh into wet base coat with a trowel, working from the center toward the edges, until the mesh is fully covered and a smooth surface is achieved. The color of the mesh shall not be visible but a slight mesh pattern may be visible.

Lap mesh 2 ½" (64 mm) minimum on all sides.

Reinforcing Mesh shall be continuous through all interior and exterior corners extending beyond the corner a minimum of 12" (30 cm) from both directions creating a minimum of two layers of standard reinforcing mesh on all interior and exterior corners.

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CFD-20

Prime01 Primecoat

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CFD-21

FIN – Finish Options

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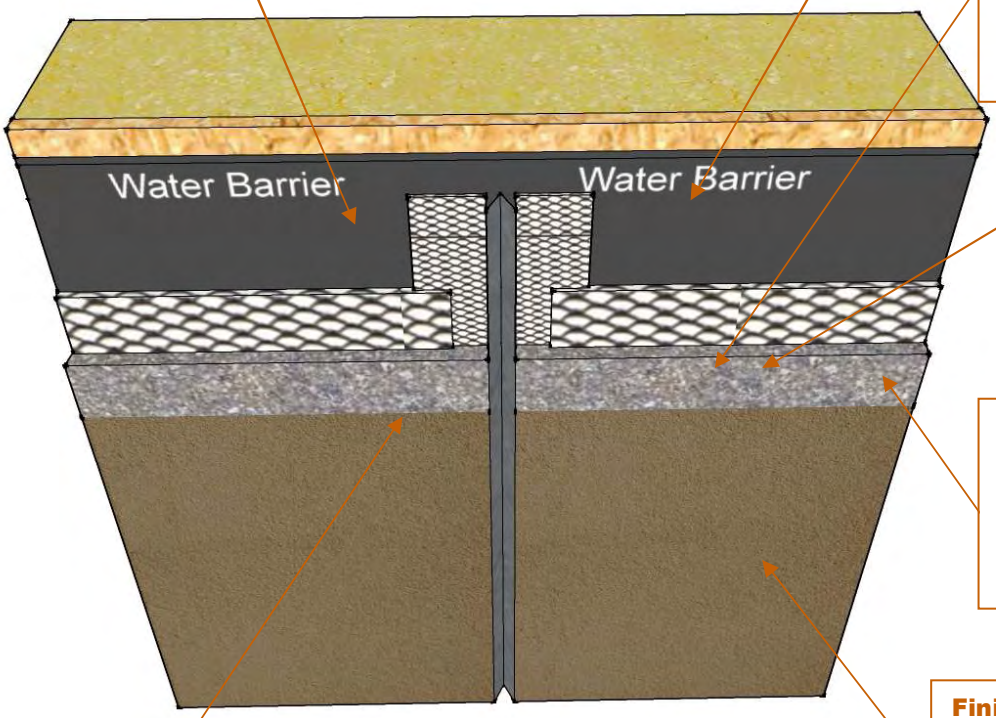
Drainage Spacers (DRS)
- ❑ DRS00 (none, shown)
- ❑ DRS01 - Mat
- ❑ DRS02 - Rainscreen

Weather Resistive Barriers (WRB)
- ❑ WRB01 (minimum)
- ❑ WRB02 - Tyvek® + Felt
- ❑ WRB03 – **Rollershield** + Felt

Leveling Base Coats (LBC)
- ❑ **LBC00 (none, shown)**
- ❑ **LBC01**
- ❑ **LBC02**



Stucco Additives (SA)
- ❑ **SA00 (none, shown)**
- ❑ **SA01 – Stucco Ad-Liquid**
- ❑ **SA02 – Stucco Ad-Liquid**
- ❑ **SA03 – Stucco Ad-Liquid**

Cemplaster Fiberstucco
- ❑ **CFS01– 17 ga, 3/8" thick**
- ❑ **CFS03 – 2.5 lath, 1/2" thick**
- ❑ **CFS04 – 3.4 lath, 3/4" thick**
- ❑ **CFS05 – 3.4 lath, 7/8" thick**

Control Joint Accessory. See notes for placement recommendations

Finishes & Additives (FIN, FA)
- ❑ **FIN01 (minimum, shown)**
- ❑ **FIN02 – Elastomeric Plus**
  - ❑ **FA01 Excel Option**
  - ❑ **FA02 Silicone Option**

Primers (PRIME)
- ❑ **PRIME00 (none, shown)**
- ❑ **PRIME01**

CFD-22

Typical Cross Section

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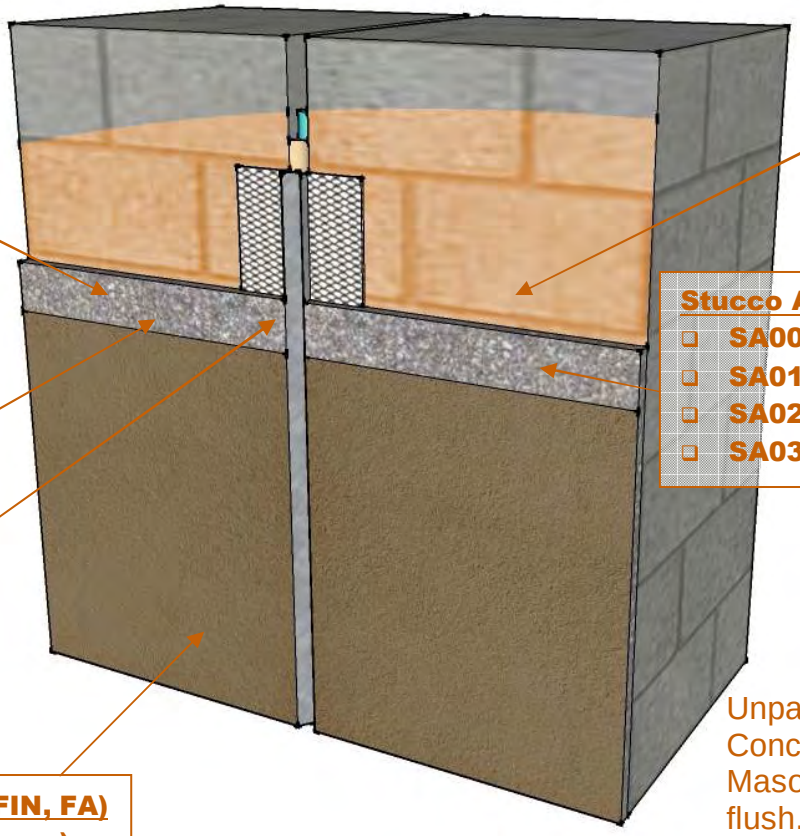
- ❑ **CFS02 – Direct, 3/8" or 1/2" thick,**

Leveling Base Coats (LBC)
- ❑ **LBC00 (none, shown)**
- ❑ **LBC01**
- ❑ **LBC02**

Primers (PRIME)
- ❑ **PRIME00 (none, shown)**
- ❑ **PRIME01**

Finishes & Additives (FIN, FA)
- ❑ **FIN01 (minimum, shown)**
- ❑ **FIN02 – Elastomeric Plus**
  - ❑ **FA01 Excel Option**
  - ❑ **FA02 Silicone Option**



Bonding Agent
- ❑ **BA57**

Stucco Additives (SA)
- ❑ **SA00 (none, shown)**
- ❑ **SA01 – Stucco Ad-Liquid**
- ❑ **SA02 – Stucco Ad-Liquid**
- ❑ **SA03 – Stucco Ad-Liquid**

Unpainted Masonry or Concrete. Specify Masonry joints struck flush.

Notes:

Control joints are required and should be located by the designer in the Cemplaster Fiberstucco at the following locations on the construction documents:

- At masonry control joints
- In accordance with masonry guidelines
- Provide additional control joints where special conditions exist.

CFD-23

Typical Cross Section

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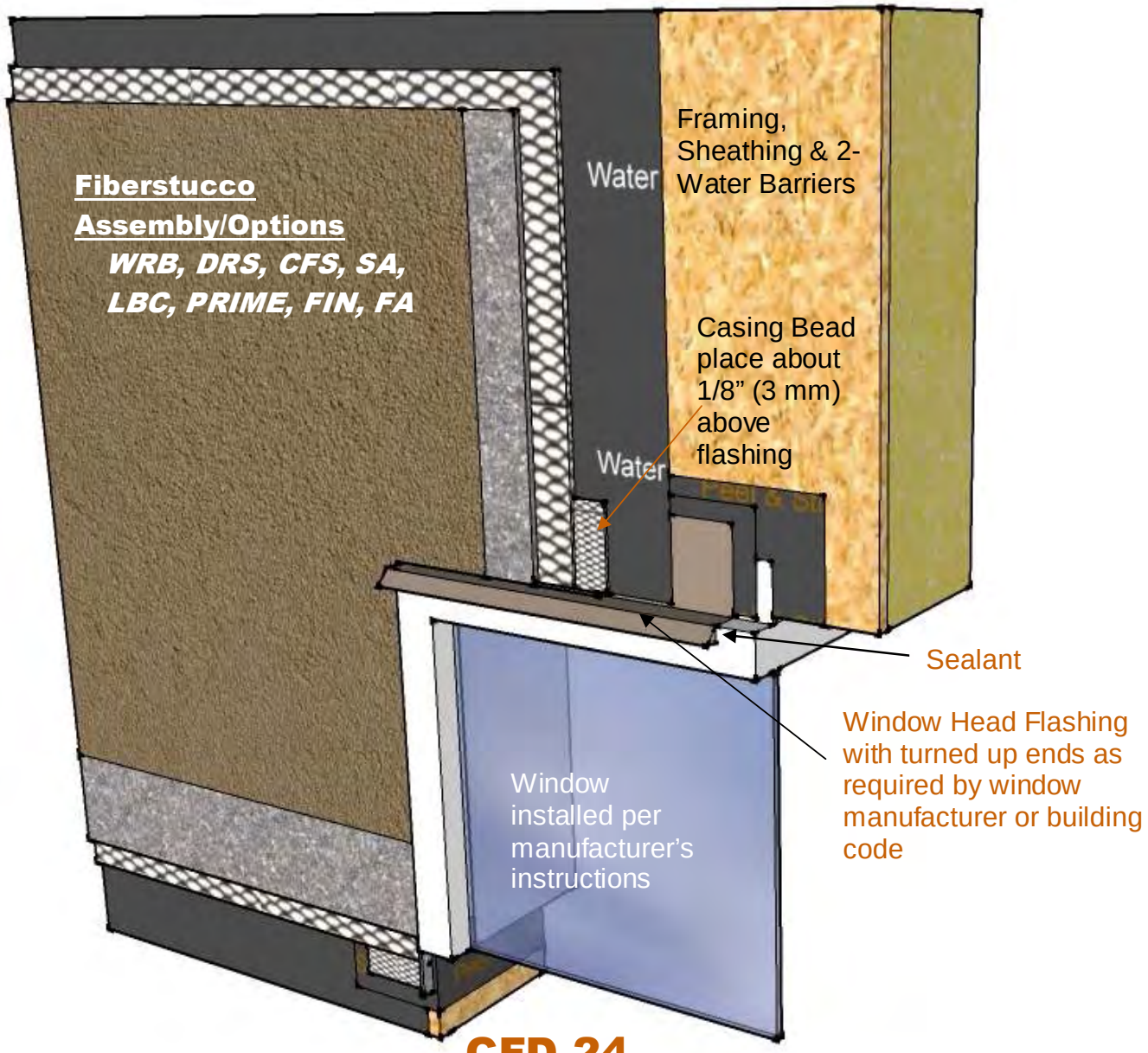

CFD-24

Window Head with Nailing Fin

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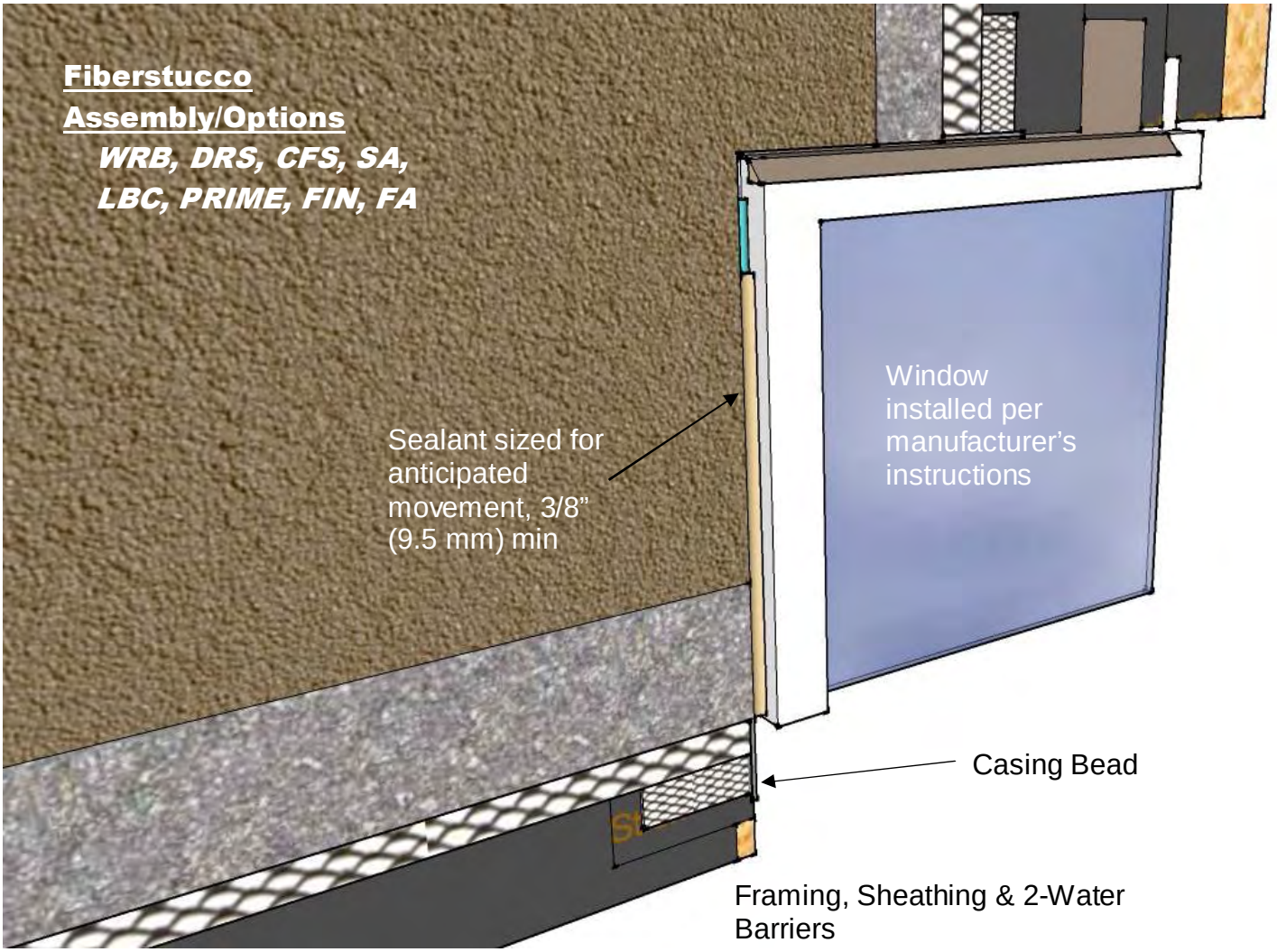

CFD-25

Window Jamb with Nailing Fin

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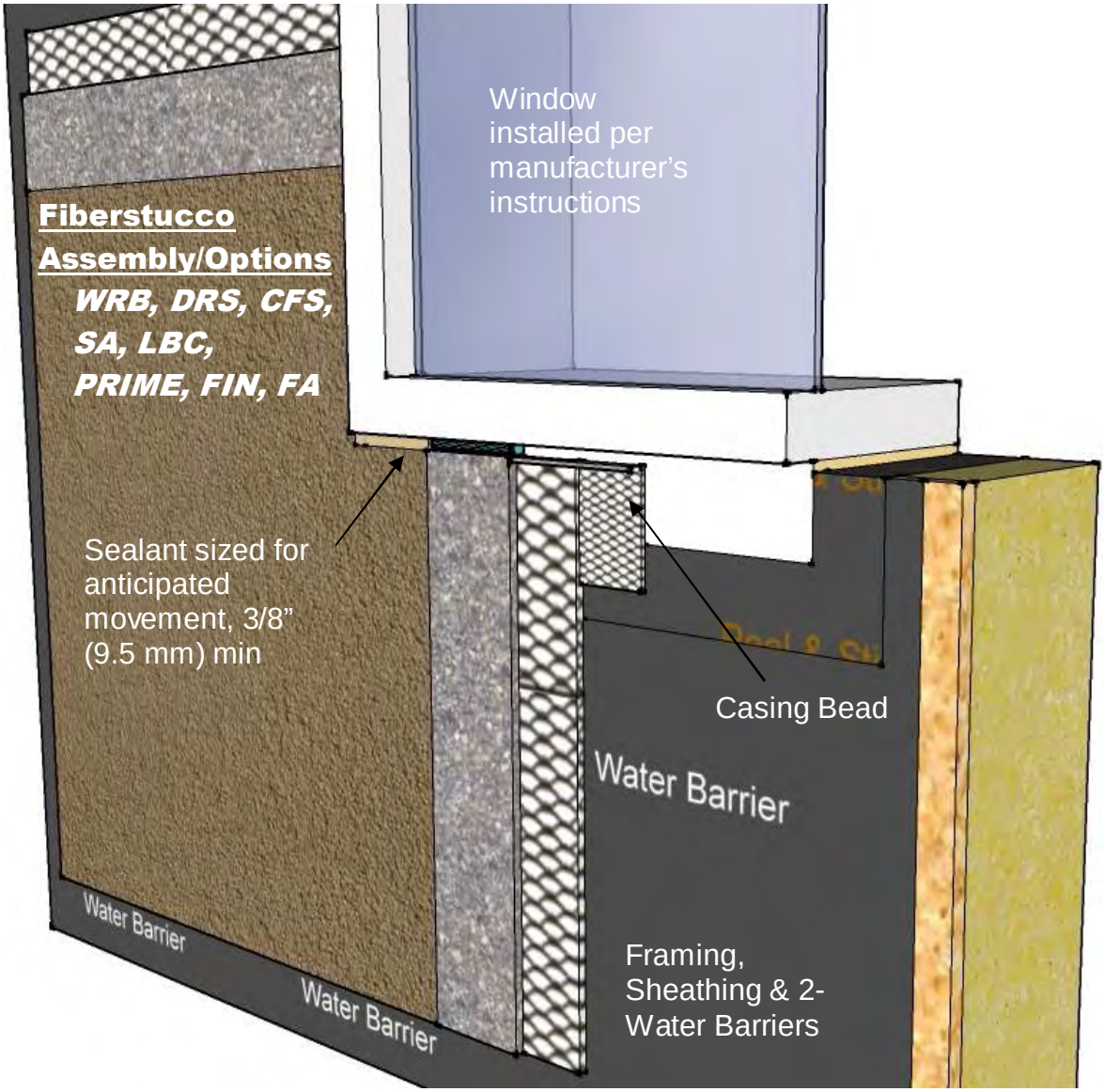

CFD-26

Window Sill with Nailing Fin

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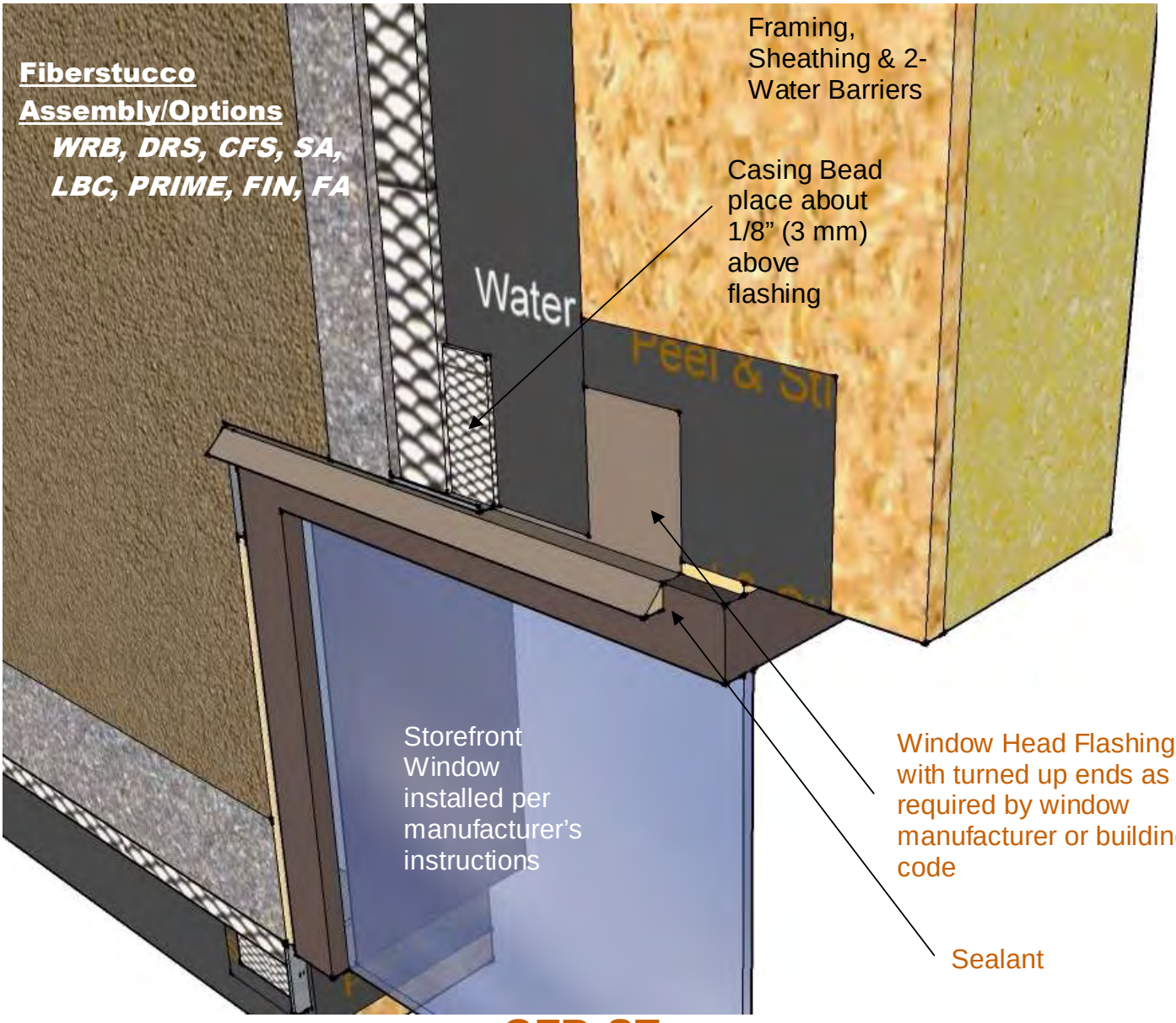

CFD-27

Storefront Window Head

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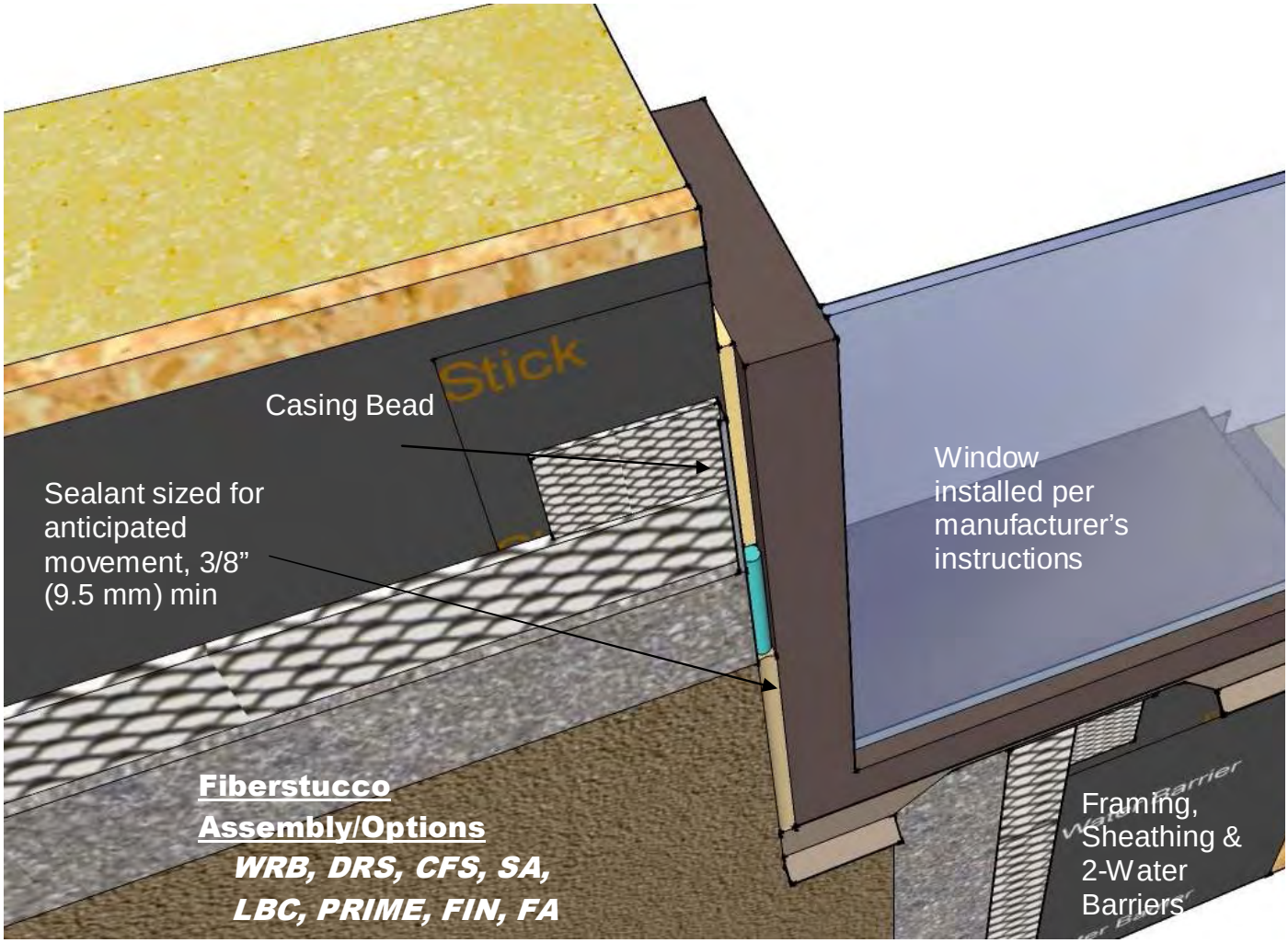

CFD-28

Storefront Window Jamb

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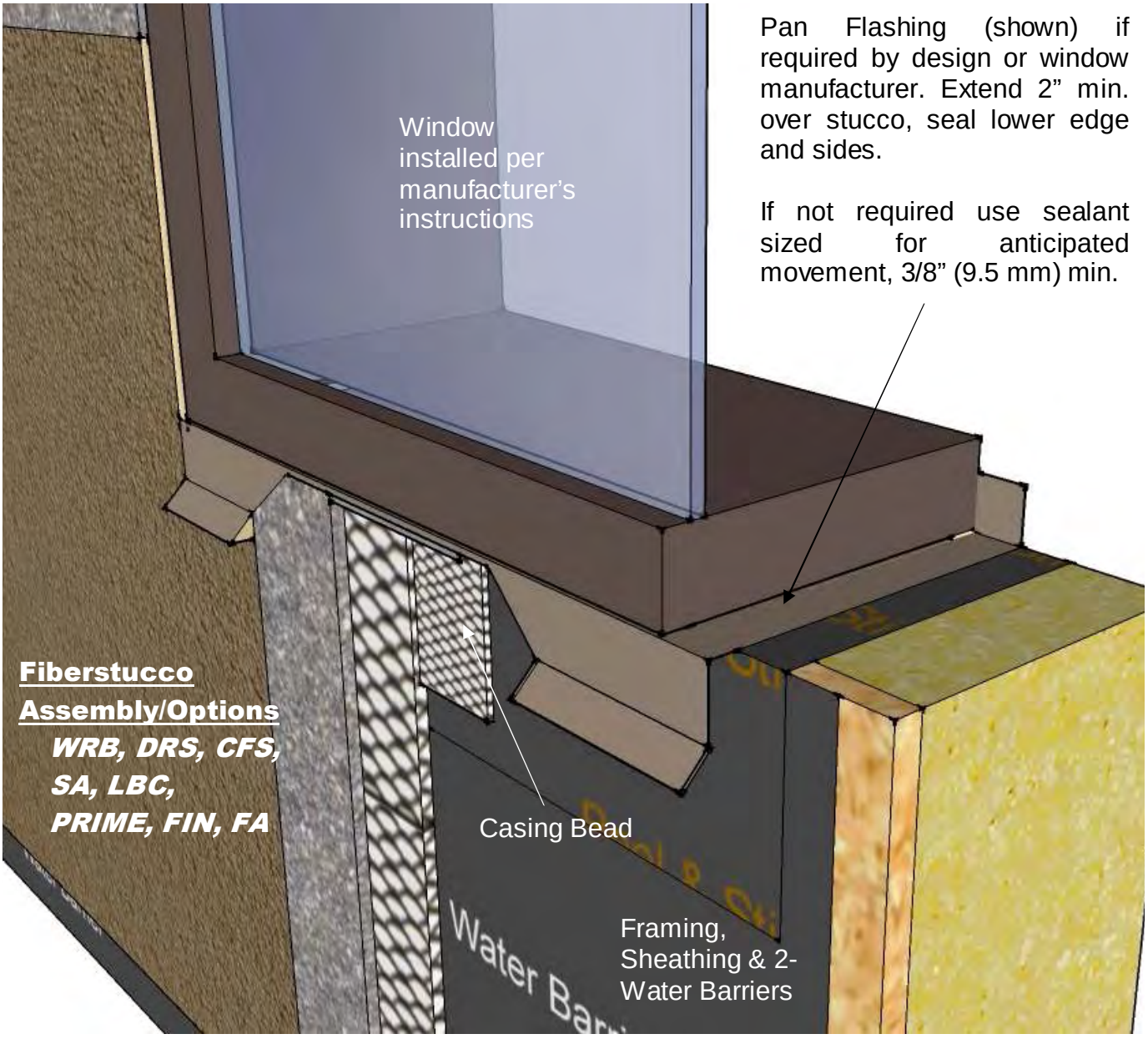

CFD-29

Storefront Window Sill

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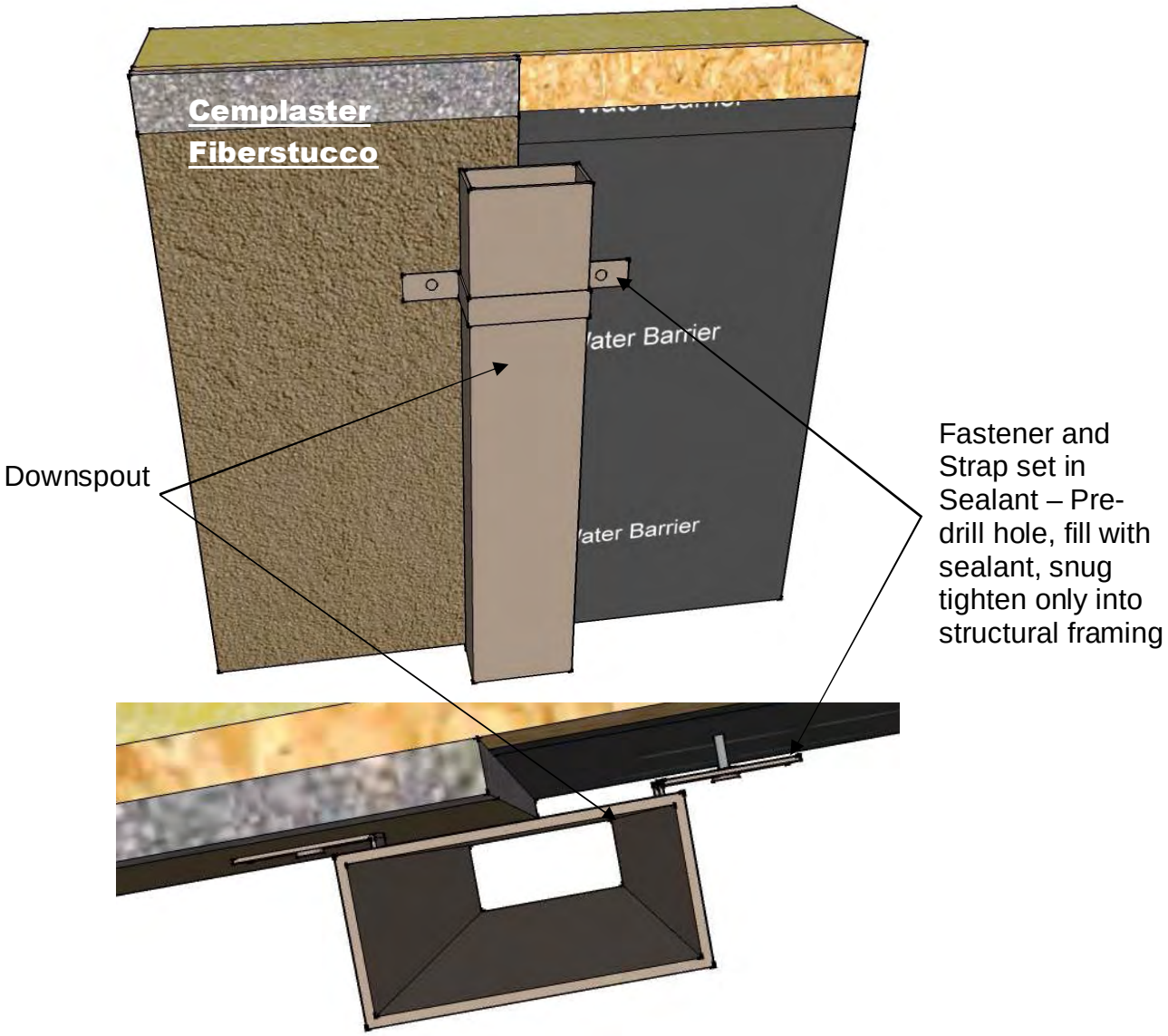

CFD-30

Downspout Attachment Notes

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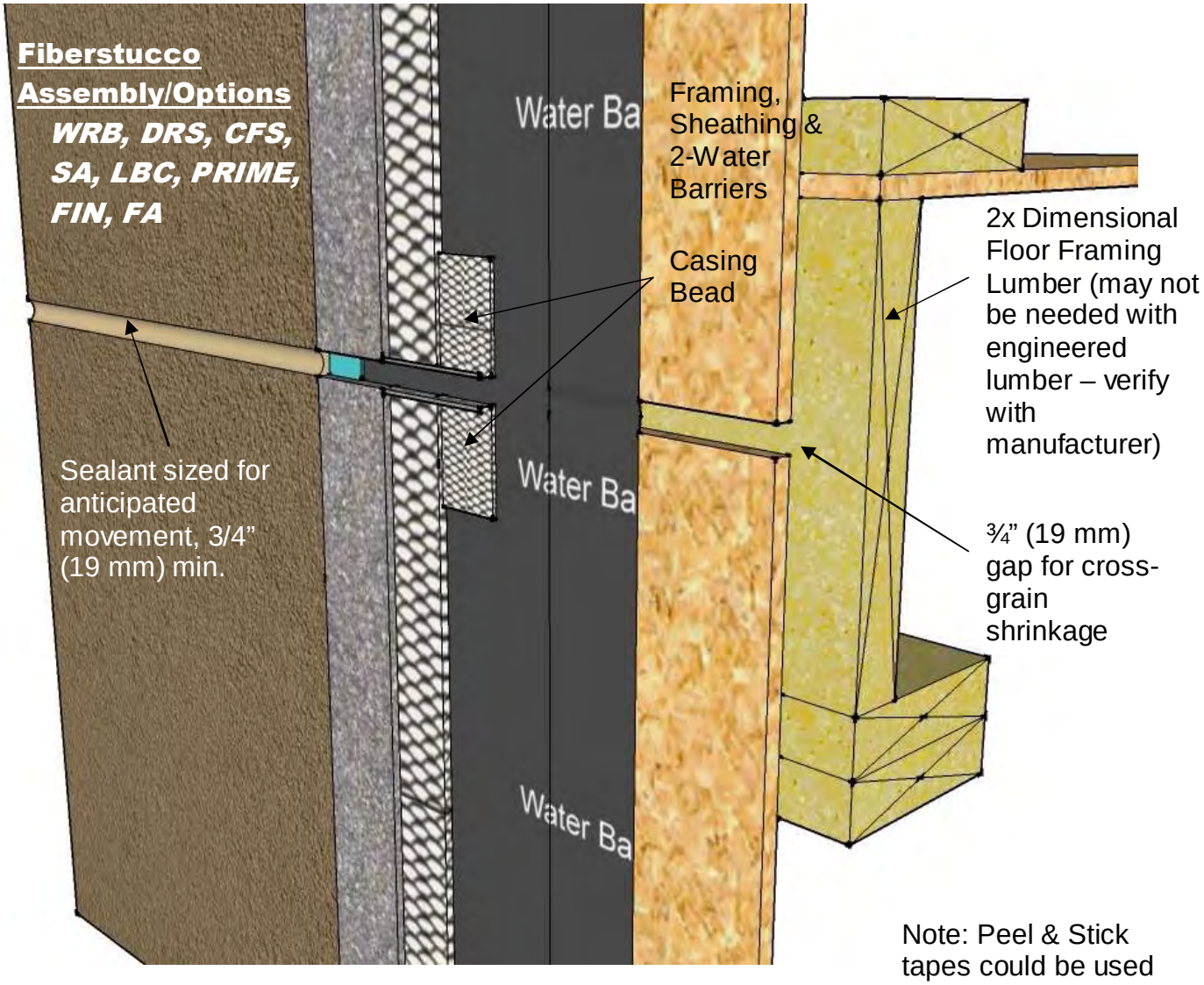

Note: Peel & Stick tapes could be used at floor lines for additional protection

CFD-31

Floor Line Expansion Joint

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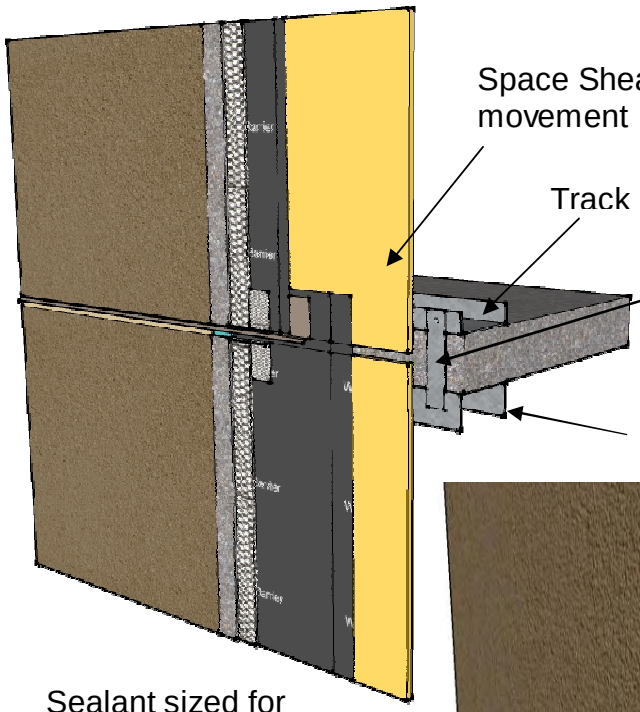
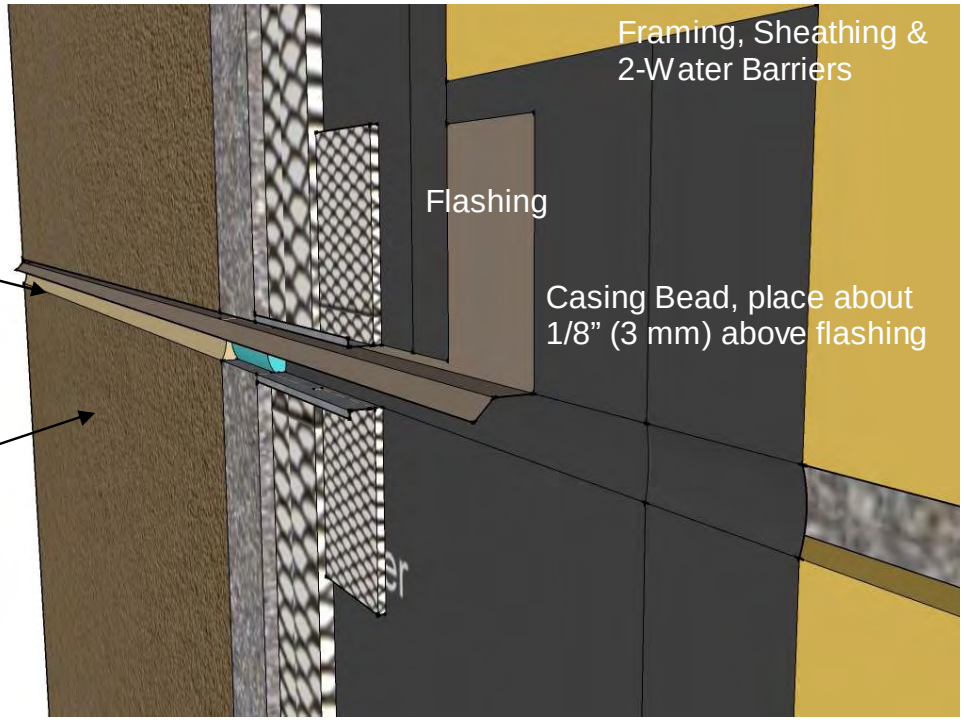


Space Sheathing for anticipated movement

Track

Provide support strapping spaced on 8" centers, fastened top only if slab is offset from framing

Slip Track, anticipated movement occurs here



Sealant sized for anticipated movement, 3/8" (9.5 mm) min.

Fiberstucco Assembly/Options

WRB, DRS, CFS, SA, LBC, PRIME, FIN, FA

Note: Peel & Stick tapes could be used at floor lines for additional protection

CFD-32

Floor Line Expansion Joint with Drainage Provision

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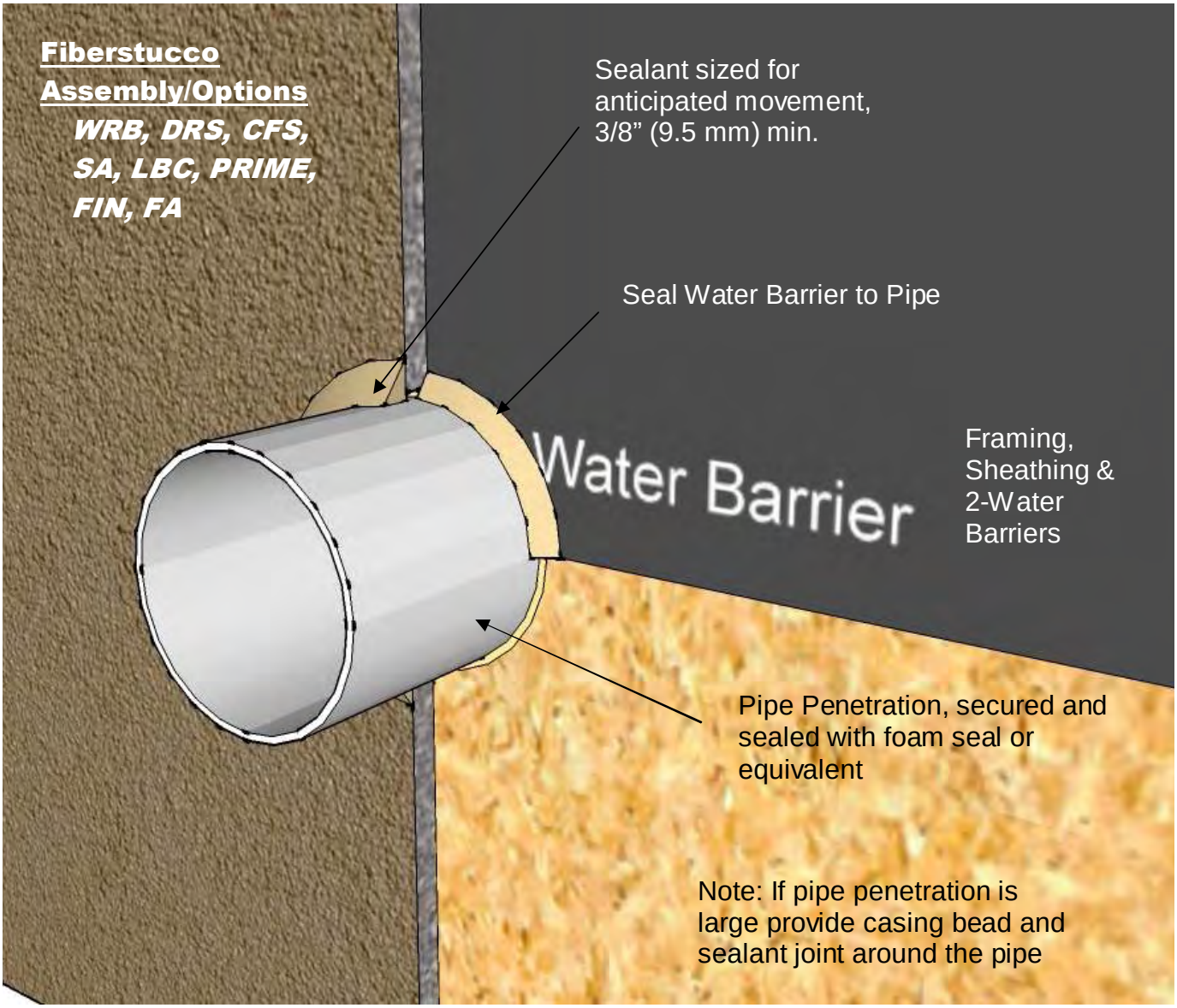

CFD-33

Pipe Penetration

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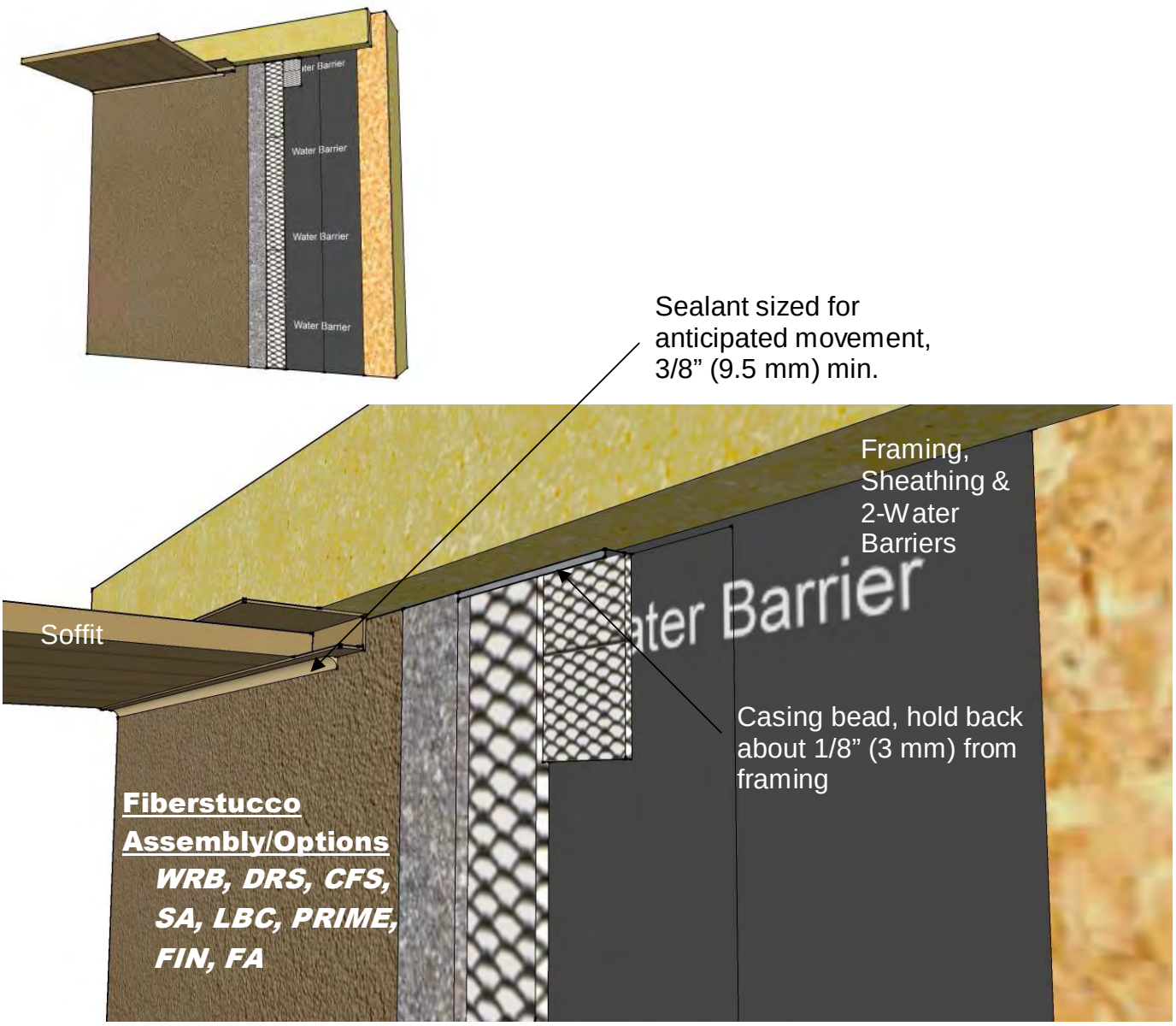

CFD-34

Soffit Detail

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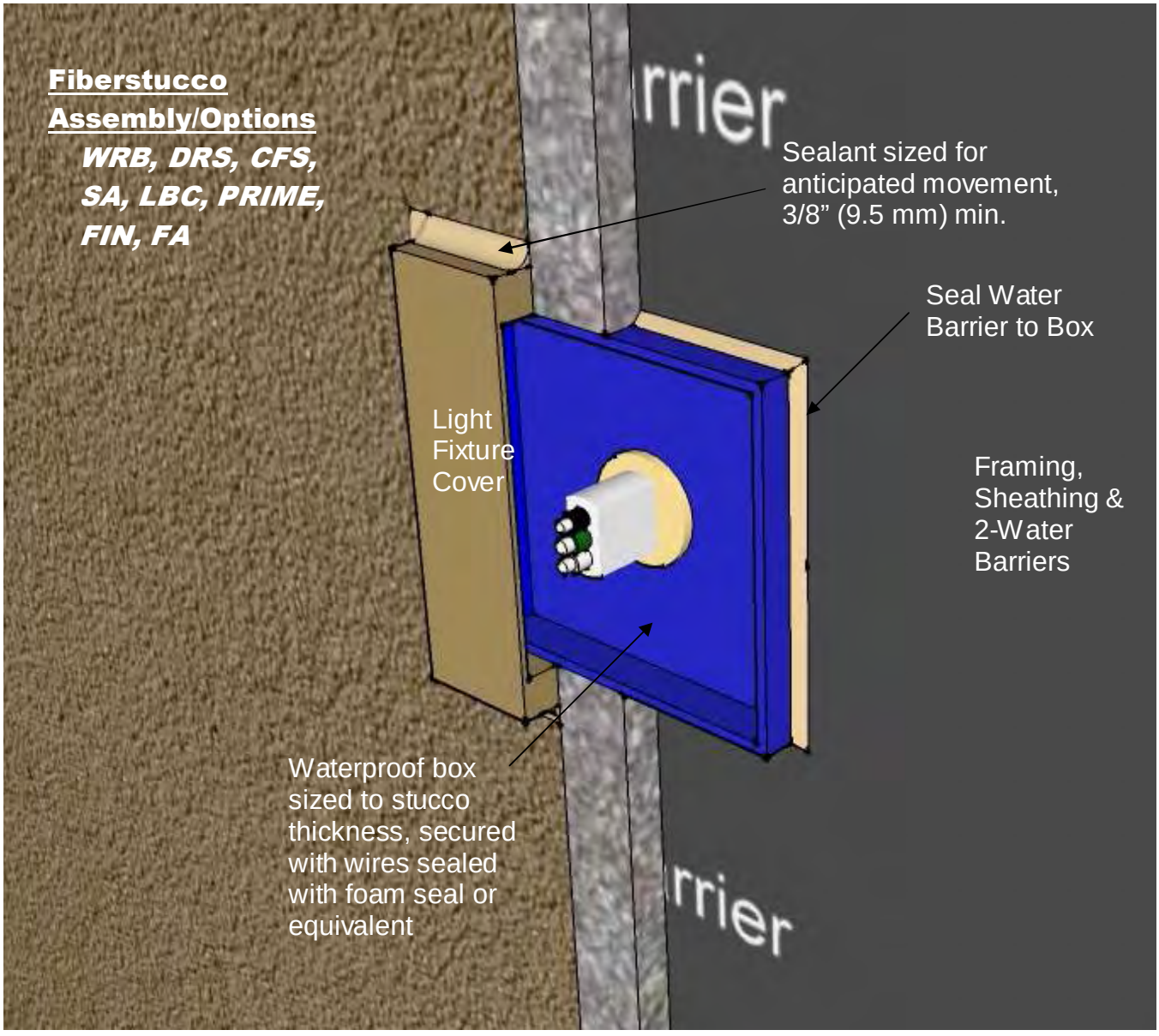

CFD-35

Light Fixture Detail

Note: If light fixture penetration is large provide casing bead and sealant joint around the box

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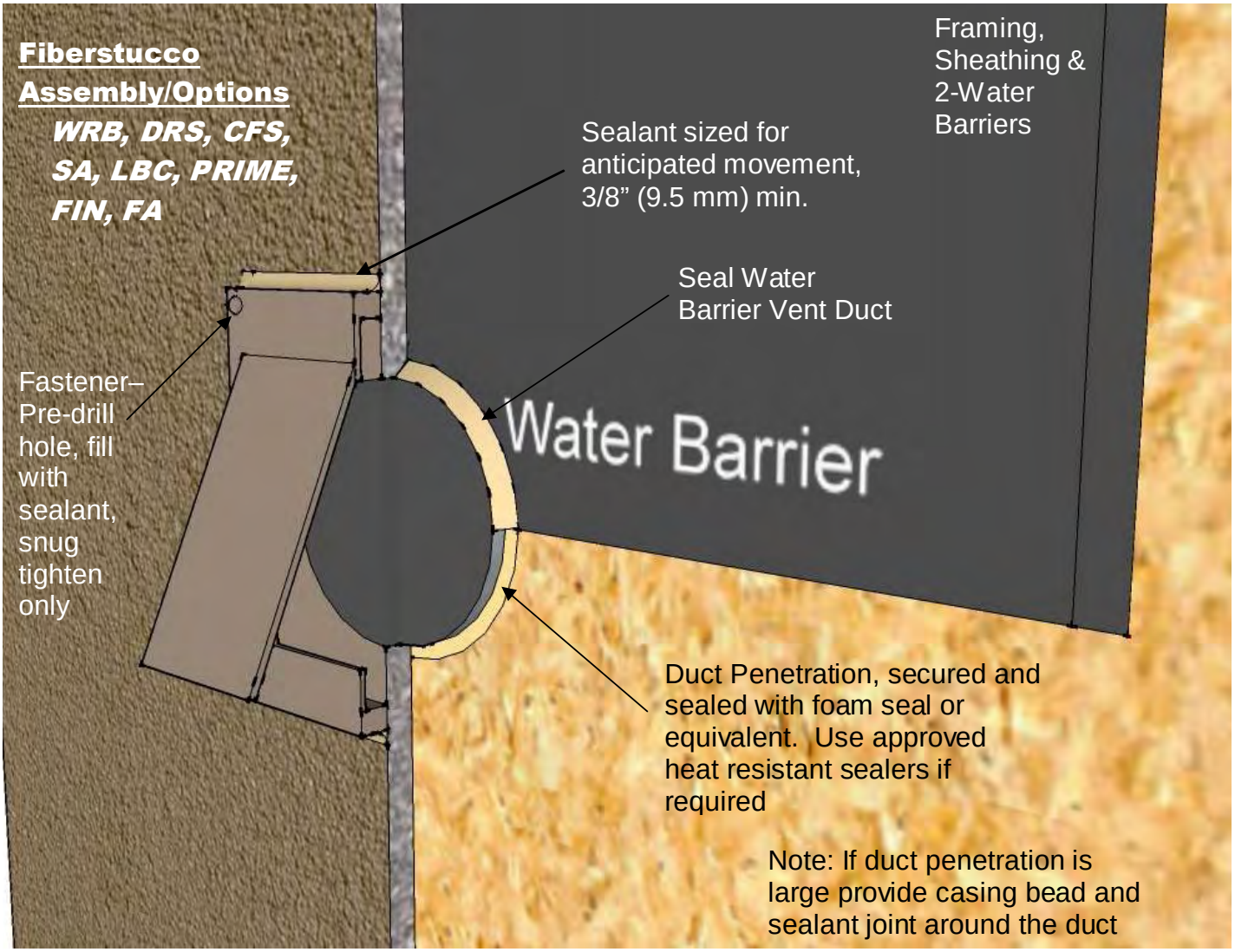

CFD-36

Vent Detail

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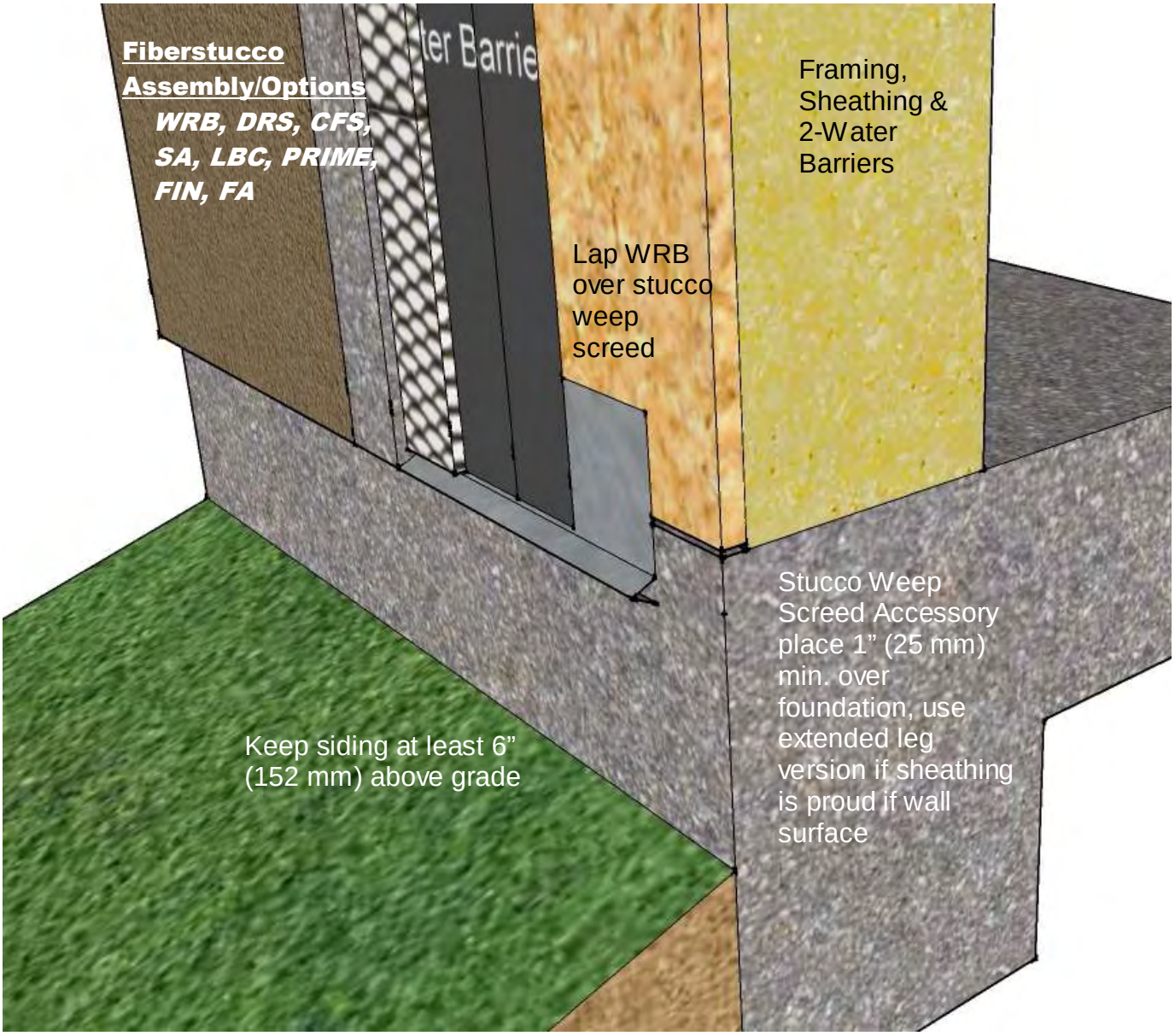

CFD-37

Detail at Grade

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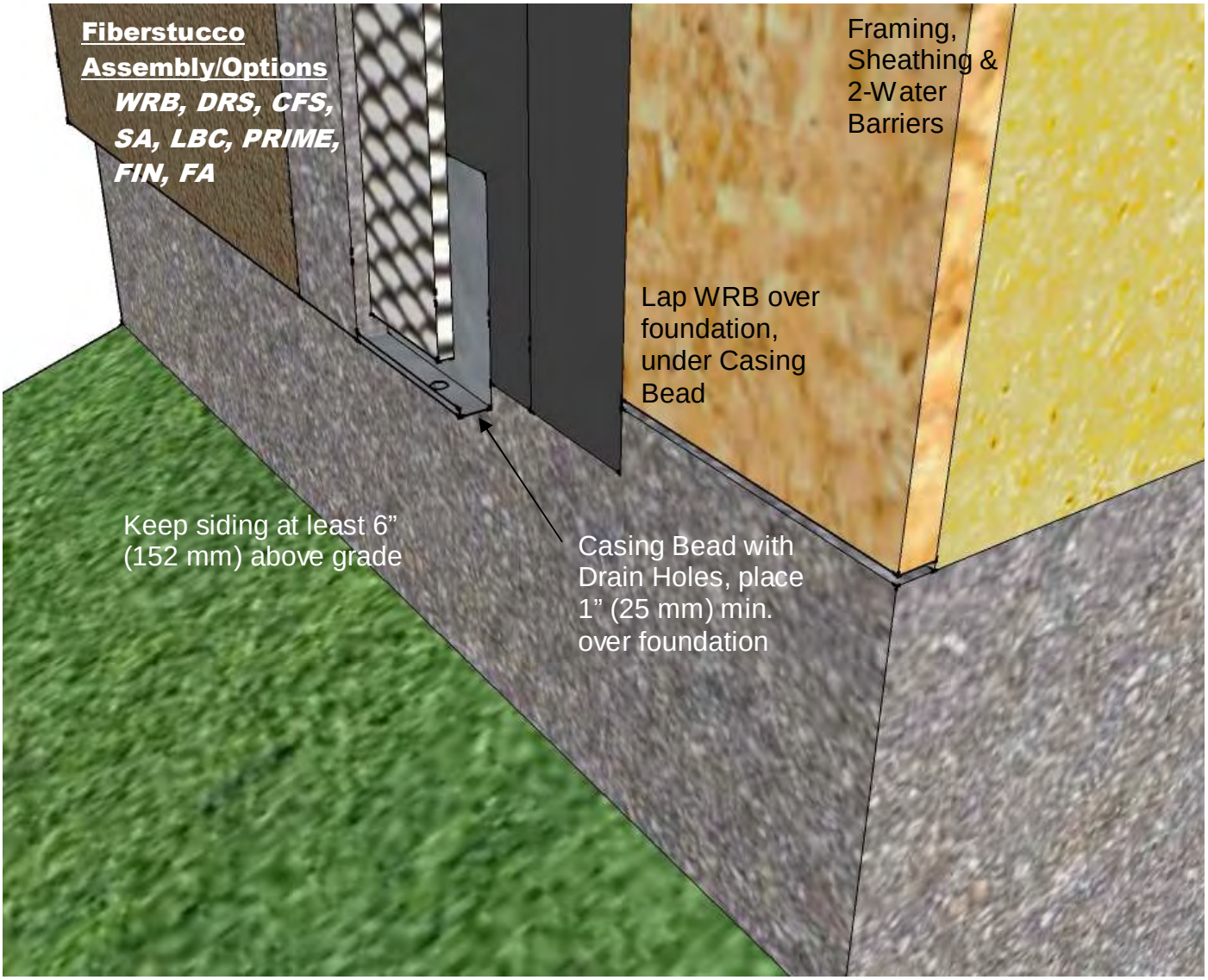

CFD-38

Detail at Grade

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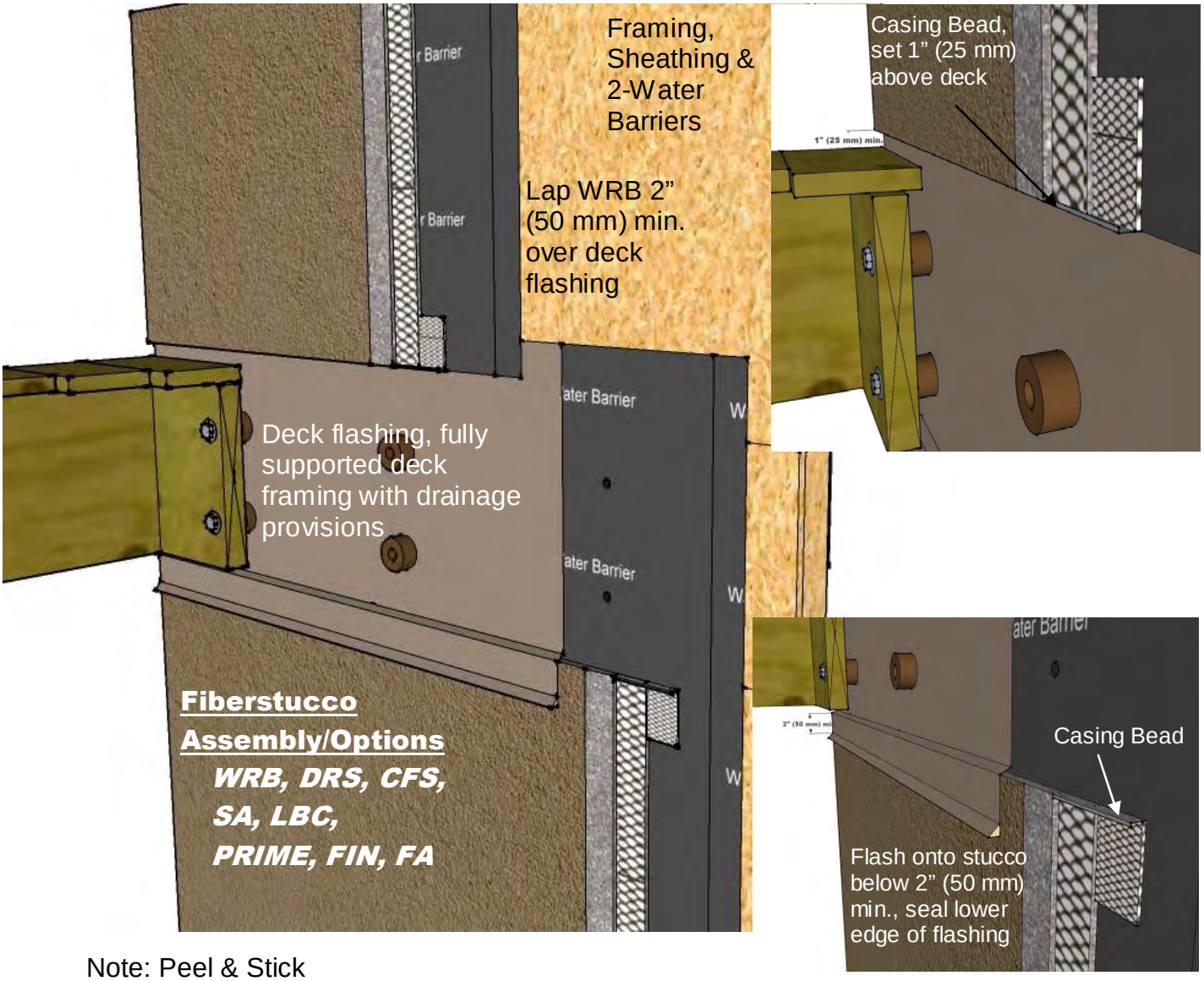

Note: Peel & Stick tapes could be used behind flashing for additional protection

CFD-39

Detail at Deck

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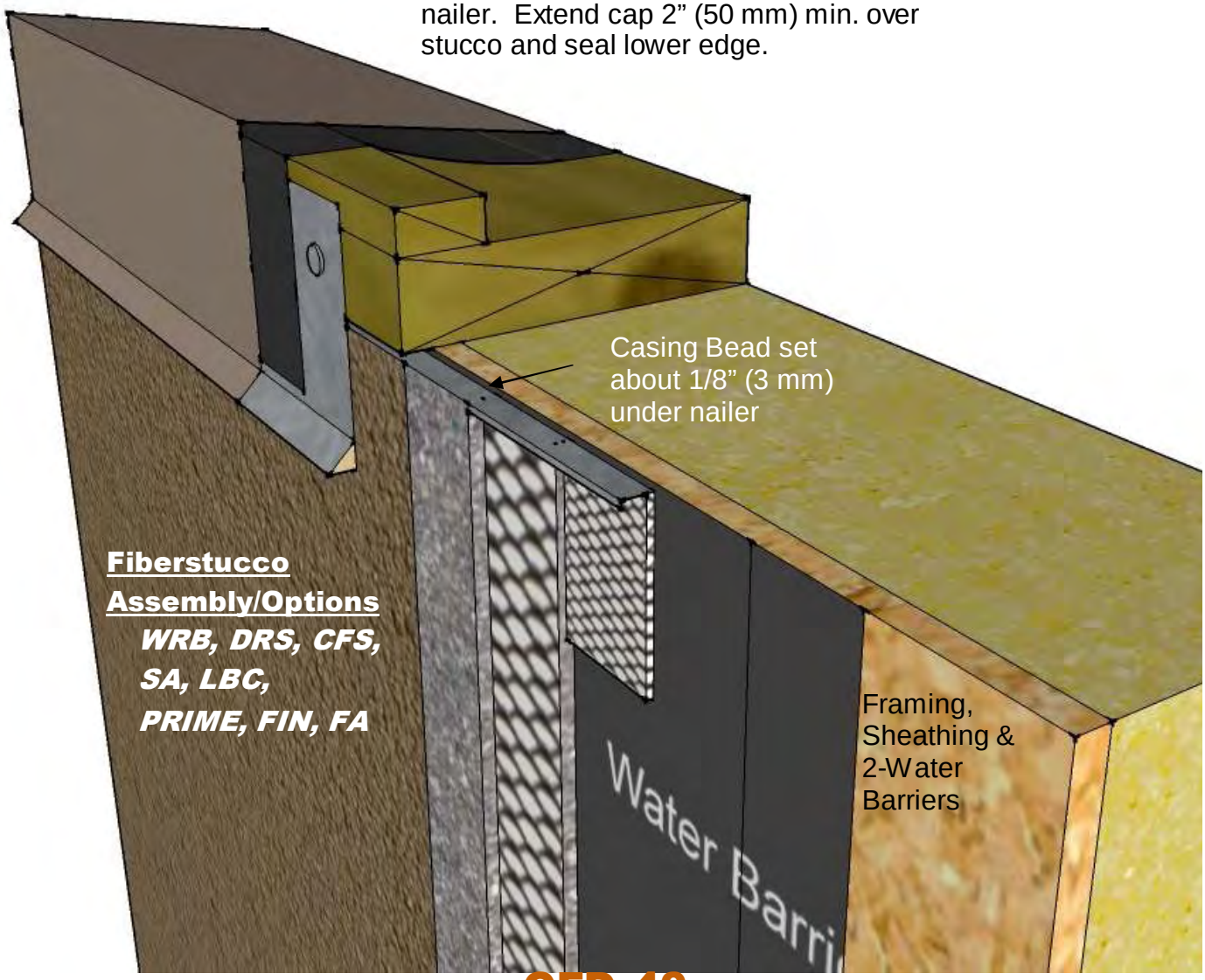
Roof Coping Cap with secondary weather protection and continuous cleat over treated nailer. Extend cap 2" (50 mm) min. over stucco and seal lower edge.



CFD-40

Detail at Roof Cap

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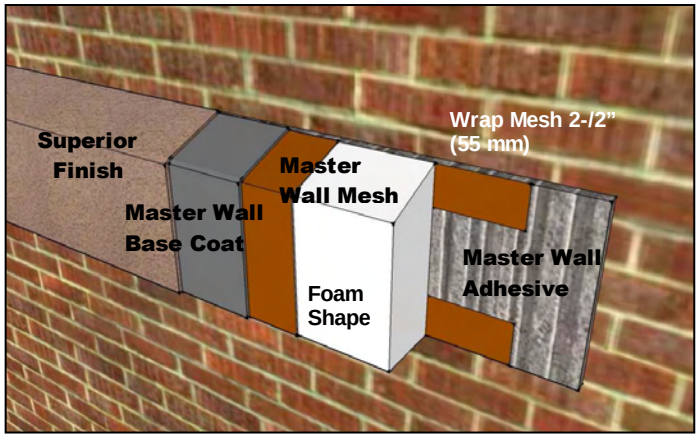
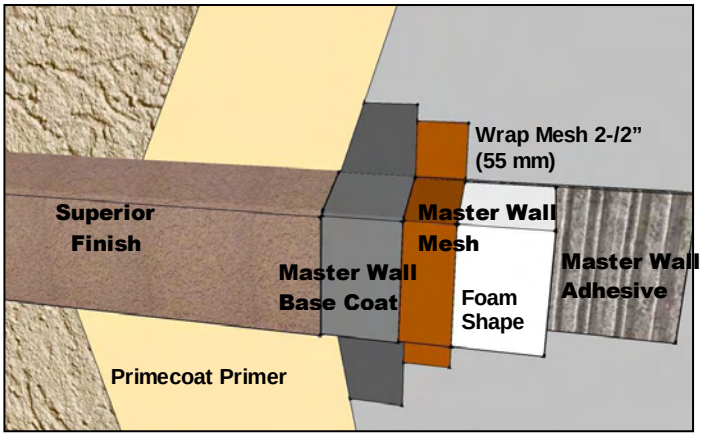
See Foam Shape Data Sheet for Specifics

Backwrap Method



The foam shape is adhered to the wall surface using either a full layer of Master Wall adhesive (preferred) or notched trowel adhesive. Shape is backwrapped or pre-wrapped with mesh embedded in Master Wall base coat. Once cured, a Superior Finish is applied to the shape.

Mesh Transition Method



The foam shape is adhered to the wall surface using either a full layer of Master Wall adhesive (preferred) or notched trowel adhesive. Mesh is embedded in Master Wall base coat and run onto the wall surface. Once cured, Superior Finish is applied to the shape. Prime the stucco wall with Primecoat Primer before finishing with Superior Finishes to minimize finish absorption variations.

CFD-41

Foam Shape Detail

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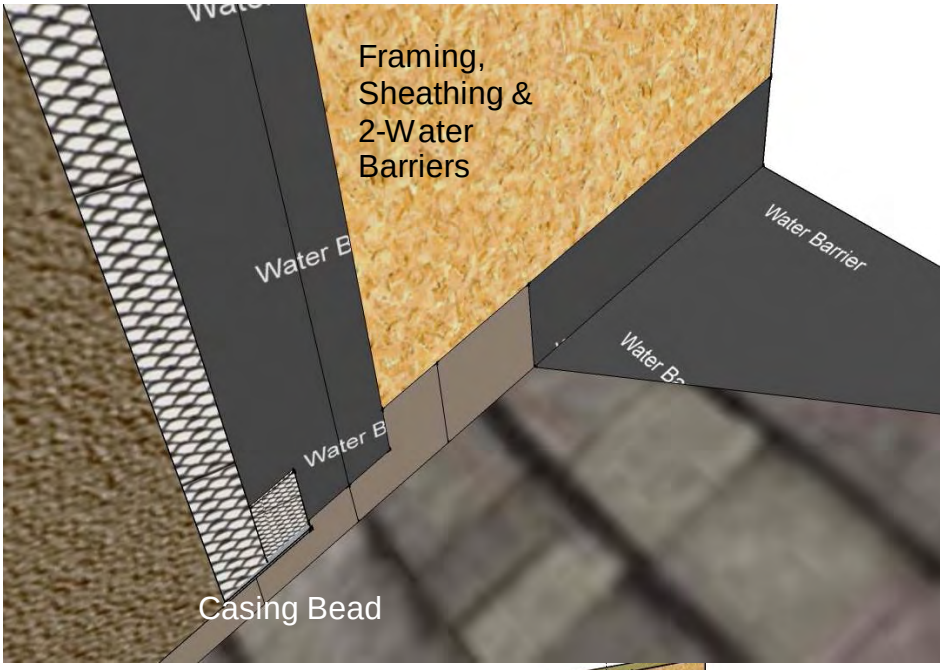
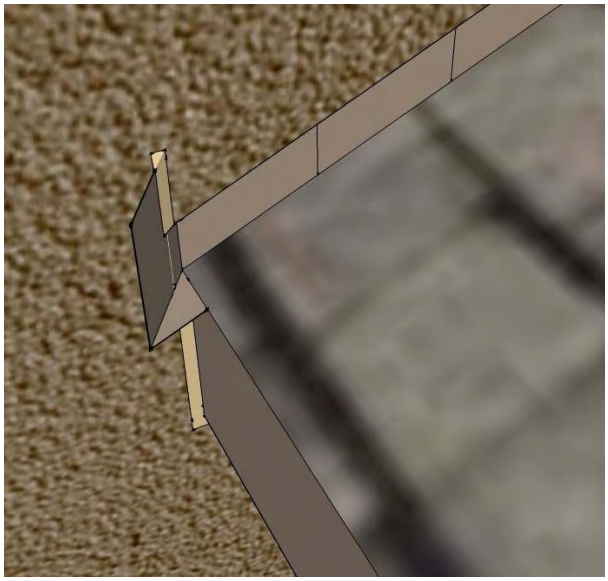
Install roofing felt 4” (10 cm) up roof, set roof step flashing and roofing.

Set casing bead or weep screed 1-2” (25-50 cm) above roof line.

Set Kick Out flashing before roofing and set in sealant. Seal where stucco meets flashing.





CFD-42

Roof Flashing Detail

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