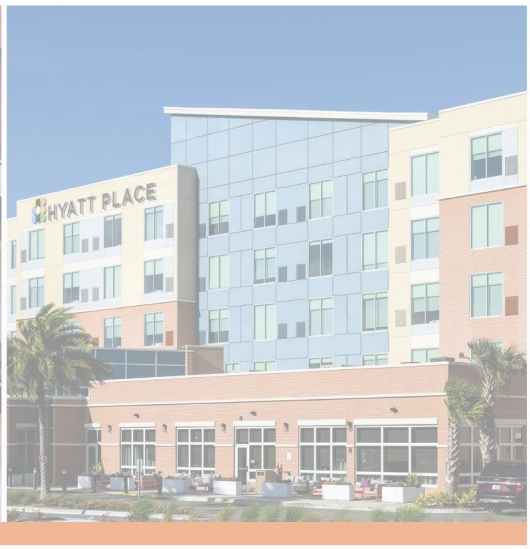


Project Submittal Package

Cemplaster Twin Trac

Fibered, Engineered Stucco System with Structa Wire Reinforcement

Project:

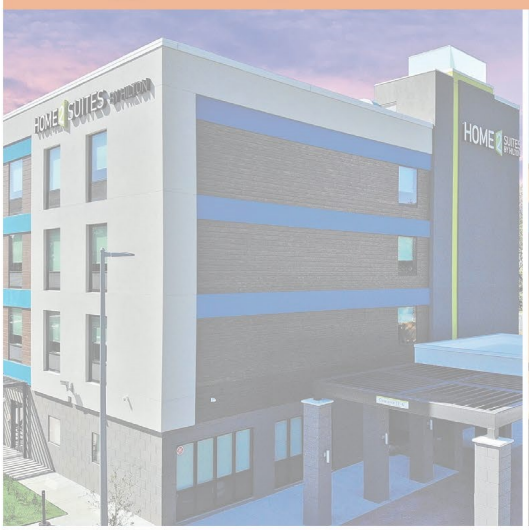
Location:

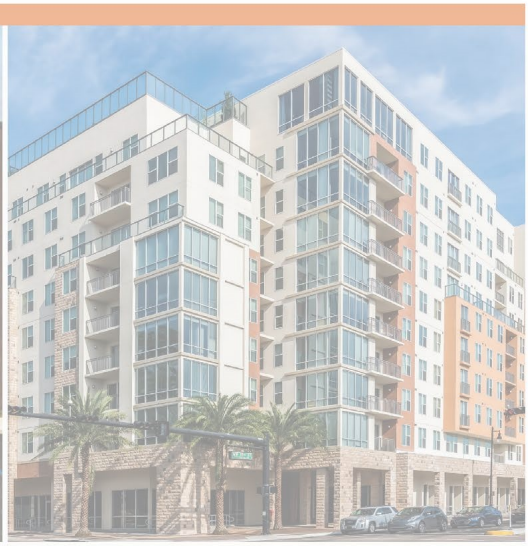
Architect:

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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Cemplaster Twin Trac

09 25 13 **Fibered Stucco with Structa Wire Twin Trac 316**

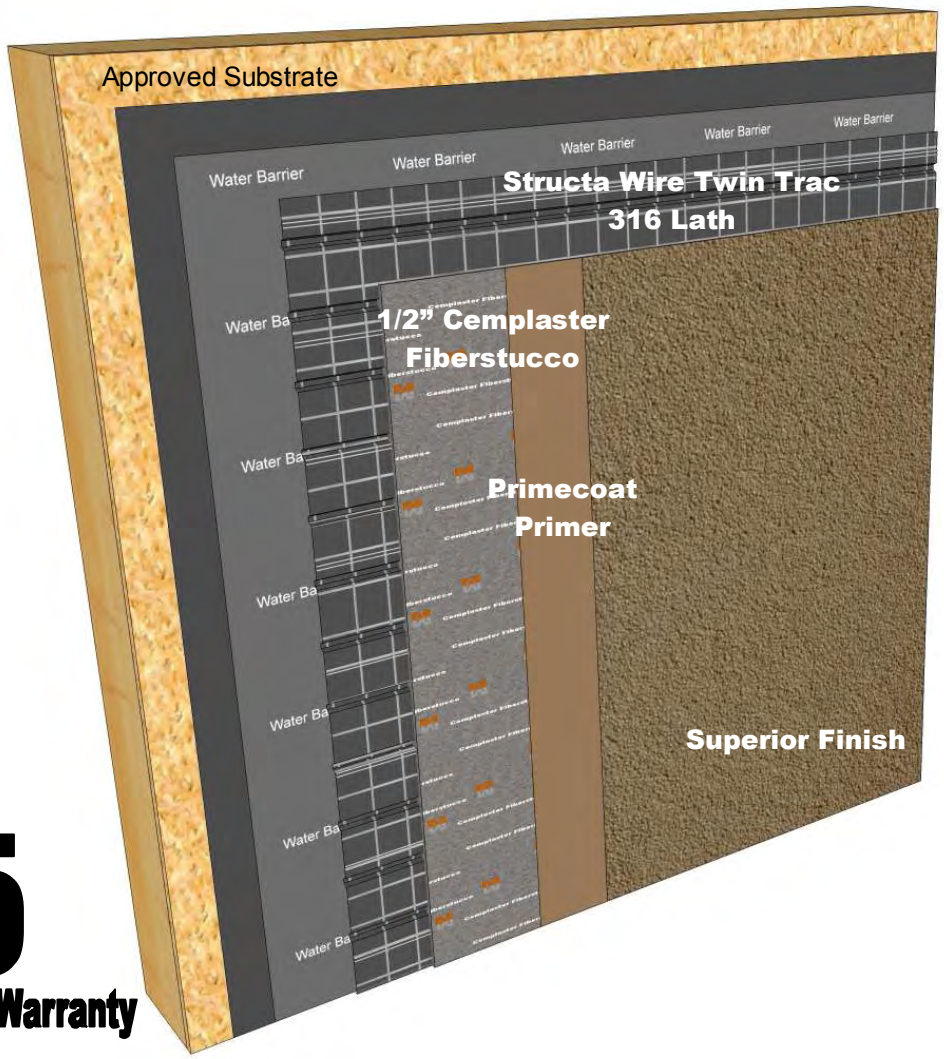
Features & Benefits

- Fibered, engineered stucco for better crack resistance
- Twin Trac lath installs quickly
- Provides superior reinforcement and crack resistance
- Galvanizing of the wire meets requirements in ASTM A641–03
- Hat channel furr allows superior stucco embedment
- Primecoat Primer for consistent color
- Superior Finish with Dirt Pickup Resistant polymers for longevity
- Manufacturer support for the lath and stucco
- *5-year labor/material limited warranty for all Master Wall® products and Structa Wire Twin Trac*

System Use

- Commercial
- Residential

When you're looking for a modern interpretation of stucco look no further than the Cemplaster Twin Trac System. The Structa Wire Corp. Twin Trac lath comes in rolls (not sheets) and installs quickly with significant savings in both material and labor. Teamed with Master Wall® Cemplaster Fiberstucco's options of a concentrated or ready-mixed version for consistent stucco quality and Superior Finish it helps bring projects in on time and under budget.



5
Year Limited Warranty

Member NOCSA

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Cemplaster Twin Trac

Short Form Specification

PART 1 GENERAL
Materials and installation of a Master Wall® Cemplaster Fiberstucco Twin Trac system.

PART 2 PRODUCTS
2.01 MANUFACTURERS
A. Master Wall Inc.® , Cemplaster Twin Trac System.

2.02 MOISTURE BARRIER (WRB) (supplied by various manufacturers) : WRB01 Minimum 2-layers of 15-lb/100 ft2 (0.683 kg/m2) vapor permeable asphalt saturated felt in compliance with ASTM D 226, Type I or similar in accordance with building code.

2.03 Cemplaster Fiberstucco (CFS): 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, Master Wall® Ready Cemplaster Fiberstucco factory proportioned, fiber reinforced Portland cement based stucco for trowel or pump application, field mixed with water. Installed thickness shall be: 1/2" (12.7 mm) CFS03.

2.04 PRIMER (PRIME): PRIME01 Master Wall® Primecoat or Sanded Primecoat: acrylic-based tinted primer.

2.05 FINISH COAT (FIN): FIN01 Superior Finish: Master Wall Inc.® Superior Finishes using Dirt Pickup Resistant (DPR) polymers. The following textures are available: Perfect, Spray, R-Coarse, Desert Sand.

2.06 LATH (supplied by Master Wall® authorized distributors) : Structalath Twin Trac 316: Welded wire lath reinforcement manufactured by Structa Wire Corp. and recognized in ICC-ES ESR-2017. Striplath Minimum 4” x 12” (102 mm x 305 mm), in types and weights noted above.

2.07 MECHANICAL FASTENING & ATTACHMENT (by others)
Appropriate non-corroding fasteners, depending on the type framing or substrate:
Wood Framing--minimum 11 gauge, 7/16 inch (11 mm) diameter head galvanized roofing nails with minimum ¾ inch (19mm) penetration into studs or minimum #8 Type S wafer head fully threaded corrosion resistant screws with minimum ¾ inch (19 mm) penetration into studs.
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.

2.08 ACCESSORIES (by others)
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: PVC plastic in compliance with ASTM D 1784, cell classification 13244C, Zinc in compliance with ASTM B 69, Galvanized metal in compliance with ASTM A 653 with G60 coating, 304 stainless steel trim manufactured in accordance with ASTM C841. All accessories shall have perforated or expanded flanges and shall be designed with grounds for the specified thickness of the Cemplaster Fiberstucco.

2.09 JOB MIXED INGREDIENTS
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. Sand: Clean, well graded sand free of deleterious materials in compliance with ASTM C 897. Cement: Type I or I-II Portland cement meeting ASTM C-150.

2.10 MIXING
Mix products in accordance with manufacturer’s recommendations.

PART 3 EXECUTION

3.01 INSTALLATION
Install products in strict accordance with manufacturer’s written installation instructions.

We finish strong.

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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: 65/80 lb. (29.5/36 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 IAPMO UES ER-0887

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-0887

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

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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

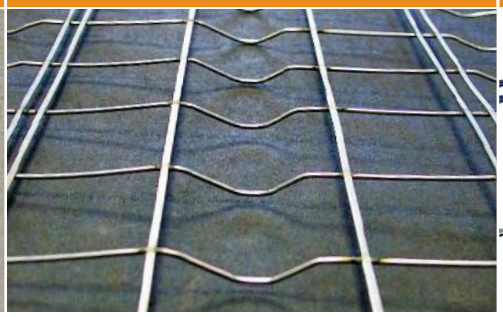
*Apply these stucco products in accordance with ASTM C926 and Master Wall® requirements.

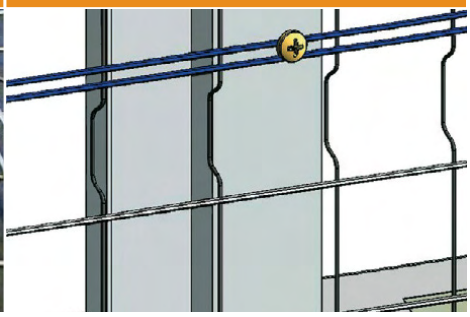
STRUCTA WIRE CORP

STRUCTALATH TWIN TRAC 316

SPECIFICATION SHEET

ICC #ESR 2017 US Patent #6,305,432 B1





Strutalath Twin Trac 316 is a self furring welded wire lath for use as an alternative to the 2.5 lb/yd² diamond mesh metal lath as specified in ASTM C 847 and for use as an alternative to the 1.14 lb/yd² welded wire lath specified in ASTM C 933. Structalath Twin Trac 316 is a version of Structalath Twin Trac that features reduced furr depth for use with 1/2" systems — with or without foam. The flat furr design ensures there will be no damage to the vapor barrier and promotes uniform thickness.

FEATURES

- 17 ga. galvanized steel wire is precision welded to form 1 ½" x 1 ½" openings
- Rolls are 38 3/8" wide by 150 ft. long (50 square yards). *Also available in 48" and 54" widths*
- Weight of roll is 1.0 lb/yd²
- Galvanizing of the wire meets requirements in ASTM A641–03
- Design promotes uniform plaster thickness
- Provides superior reinforcement and crack resistance
- Each and every cross wire is securely furred
- Hat channel furr provides for superior stucco embedment
- Longitudinal wires are cold rolled (flattened) to eliminate curvature memory
- Cold rolled (CR) process increases tensile and breaking load of wire
- Rolls out flat and stays flat
- Easy to fold around corners with clean bending lines
- Structalath can be attached with either nails or staples

DETAILS

A. Width of furring leg 3/8"

B. Furring height 3/16" to the underside of the cross wire

C. Furring rows every 3" on centre

D. Every cross wire is furred

E. Tabs are aligned with edge wire and extend 1/4" beyond edge wires

F. Overall width is 38 3/8".Designed for full coverage of 9' - 3" wall heights including code required overlaps

PACKAGING

- 32 rolls per pallet
- Each rolls is banded with poly strapping indicating manufacturer & ICC ESR 2017
- English/Spanish installation instructions available

GREEN ATTRIBUTES

- Made from 80% recycled steel — recycling conserves natural and energy resources
- Conservation of steel without reducing strength
- Less Metal with no loss of performance
- Compact packaging means further reduction in total carbon footprint

Fully conforms to the requirements for stucco reinforcing as defined in UBC, IBC and IRC building codes.

STRUCTA WIRE CORP. 1395 NORTH GRANDVIEW HWY, VANCOUVER, BC V5N 1N2 **T** 604-254-9868 **E** INFO@STRUCTAWIRE.COM

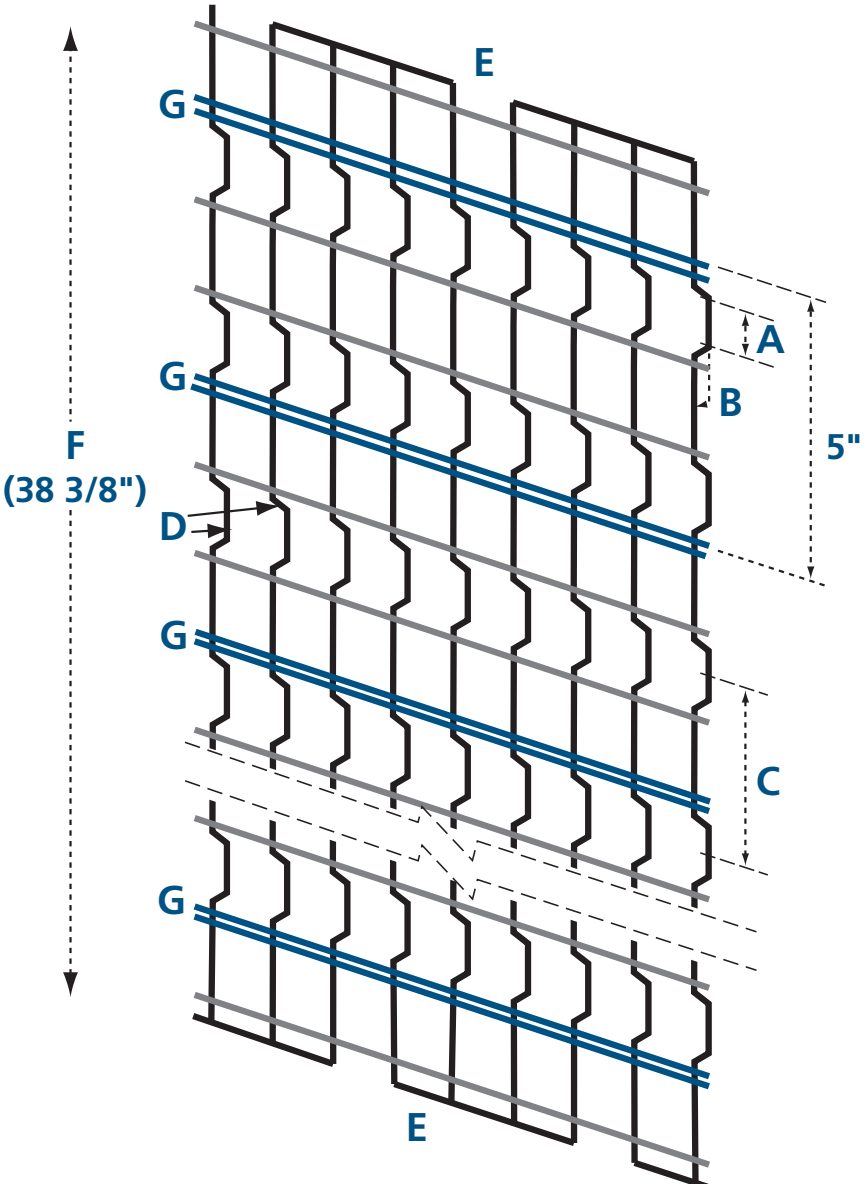
STRUCTA WIRE CORP

STRUCTALATH TWIN TRAC 316

SPECIFICATION SHEET

ICC # ESR 2017 ICC #ESR 2017 US Patent #6,305,432 B1

Dimensions – Length = 150' and width = 38 3/8"
53 sq yards/roll



DETAILS

A. Width of furring leg 3/8"

B. Furring height 3/16" to the underside of the cross wire

C. Furring rows every 3" on centre

D. Every cross wire is furred

E. Tabs are aligned with edge wire and extend 1/4" beyond edge wires

F. Designed for full coverage of common wall heights with 3 courses of lath including code required overlaps

G. Twin Trac for ease of attachment. Twin Tracs are at 5" 0C

This product conforms to requirements set out in Table 3 ASTM C1063–03, ASTM A641–03, ASTM C 933–05

Note: *Test results are available upon request*

Cold Rolled: All longitudinal wires are cold rolled to a structurally designed shape

Structalath products are for use as alternative laths used as reinforcement for exterior plaster complying with IBC Section 2507, IRC Section R703.6.1 or UBC Section 2508

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PRODUCT DATA

STUCCO ACCESSORIES

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

TYPICAL APPLICATION PROCEDURE

After satisfactory inspection of surfaces and correction of any deviations from specification requirements commence the Cemplaster Fiberstucco (CFS) 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 CFS 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 CFS 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" (152 mm) on center into concrete/masonry with appropriate fasteners.

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" (25 mm). Locate the foundation weep screed minimum 4 inches (101 mm) above earth grade, 2" (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 CFS terminations—doors, windows and other through wall penetrations. Install expansion joints (or back-to-back casing beads) at building expansion joints, where the CFS 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"(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" (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.

Accessory Materials

1. PVC, and CPVC D1784. or D4216
2. Galvanized Metal, A653/A653M with G60 or G90 coating.
3. Zinc, B69
4. Stainless Steel, A240/A240M Type 304 or 316
5. Anodized Aluminum Alloy, B221

Packaging

Typically 10' lengths

Typical Grounds

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

Typical Profiles*

Weep Screed*, Casing Bead*, Drainage Screed, Corner Reinforcement, Expansion Joint*, Control Joint

*Perforated or Non-Perforated

Manufacturers

Amico Building Products 800-366-2642
www.amico-lath.com

CEMCO 800-775-2362
www.cemcosteel.com

ClarkDietrich 800-543-7140
Www.clarkdietrich.com

Plastic Components 800-327-7077
www.plasticomponents.com

Stockton Products 714-998-1196
www.stocktonproducts.com

Wind-Lock 800-872-5625
www.wind-lock.com

Product Test Standards

ASTM A653, ASTM B69, ASTM C841, ASTM C847, ASTM C926, ASTM C1063, ASTM D1784, ASTM C1861

STUCCO REINFORCEMENT

Lath reinforcement is used to reinforce the stucco.

TYPICAL APPLICATION PROCEDURE

Sheet Reinforcement

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.
4. 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.

Roll Reinforcement

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

Additional Reinforcement

1. Apply Strip lath, 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.
2. 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.

Reinforcement Materials

1. PVC, D1784. or D4216
2. Galvanized Metal, A653/A653M with G60 or G90 coating.
3. Zinc, B69
4. Stainless Steel, A240/A240M Type 304 or 316

Common Reinforcement Types

No. 17 or 20 gauge galvanized steel woven wire fabric

2.5 lb./yd^2 (1.4 kg/m^2) self-furred diamond mesh metal lath

3.4 lb./yd^2 (1.8 kg/m^2) self-furred diamond mesh metal lath
ASTM C 847.

Adfors Fibalath

ClarkDietrich Twin Trac 2.5, Twin Trac 2.5/316, Structalath III, Structalath III/316

Manufacturers

Adfors 800-762-6694
adfors.com/fibalath

Amico Building Products 800-366-2642
amico-lath.com

CEMCO 800-775-2362
cemcosteel.com

ClarkDietrich 800-543-7140
clarkdietrich.com

K-Lath® 800-663-0955
treeisland.com

Plastic Components 800-327-7077
plasticomponents.com

Product Test Standards

ASTM C847, ASTM C1032 , ASTM C933, ASTM C1764

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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

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.

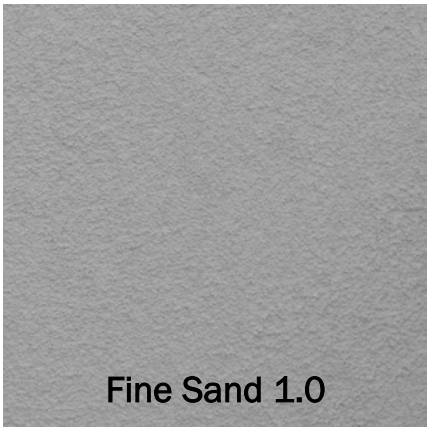
Hazard: This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

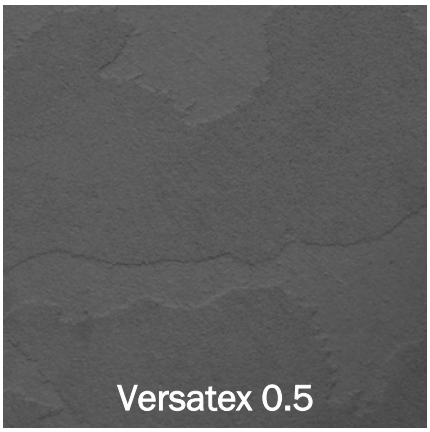
VOC: Less than 50 g/L.
See Superior Finishes for other technical properties

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.

220301

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Structalath Twin Trac 316 System

Section 09 24 23

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Technical • 800-760-2861

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Materials and installation of a Master Wall® Cemplaster Fiberstucco system.

B. System shall consist of the following components:

Item	Description
	Weather Resistive Barriers (WRB), Continuous Insulation (CI) and Drainage Spacers (DRS)
WRB01	2- ASTM D226 Asphalt Felt (minimum over sheathing)
	Cemplaster Fiberstucco (CFS)
CFS03	Master Wall® Cemplaster Fiberstucco with Structalath Twin Trac 316 reinforcement, 1/2" thick
	Primers (PRIME), Finish Additives (FA), Finish Options (FIN)
PRIME01	Primecoat or Sanded Primecoat tinted primer
FIN01	Superior Finish

1.02 RELATED SECTIONS

A. Provide all materials, labor, and equipment to install the Field Applied and/or Panelized Master Wall Inc.® Cemplaster Fiberstucco System.

B. Related Sections:
1. Concrete 03300
2. Unit Masonry 04200
3. Light Gauge Steel Framing 05400
4. Sheathing 06100
5. Sheet Metal Flashing and Trim 07620
6. Sealants 07900
7. Doors and Windows 08000

1.03 REFERENCED DOCUMENTS

A. ASTM Standards:
1. C 847 Standard Specification for Metal Lath
2. C 897 Aggregates for Job Mixed Portland Cement-Based Plaster
3. C 926 Standard Specification for Application of Portland cement-Based Plaster
4. C 1032 Standard Specification for Woven Wire Plaster Base
5. C 1063 Installation of Lathing and furring for Portland Cement-Based Plaster

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1.04 TERMS/DEFINITIONS

A. Accessories – The closure trims, control joints metal reinforcement and mechanical fasteners used in the installation of Cemplaster Fiberstucco.
B. Applicator – The contractor that applies the Cemplaster Fiberstucco.
C. Building Expansion Joint – A joint through the entire building structure designed to accommodate structural movement.
D. Control Joint – a joint in the Cemplaster Fiberstucco designed to reduce and control thermal and shrinkage cracking.
E. Designer – The person or firm that is responsible to create the plans and specifications for the entire project.
F. Finish Coat – An acrylic based, factory mixed decorative and protective coating that is applied to the Cemplaster Fiberstucco or Master Wall base coat.
G. Mechanical Fastener – Corrosion-resistant fastener intended for use with Cemplaster Fiberstucco.
H. Metal Reinforcement – Structa Wire Corp. metal welded wire lath.
I. Cemplaster Fiberstucco – A cementitious material consisting of Portland cement, fibers and proprietary components.
J. Sheathing – A substrate in a sheet form.
K. Substrate – The material to which the Cemplaster Fiberstucco is attached.
L. Trims – Specially manufactured products designed to terminate the Cemplaster Fiberstucco.

1.05 DESIGN REQUIREMENTS

A. Structural
1. Design for maximum allowable system deflection, normal to the plane of the wall, of L/360.
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. Weather Resistant Barrier – Provide a barrier over framed construction consisting of a minimum of two-layers asphalt felt meeting ASTM D-226, Type 1, Grade D or building code-approved alternate. Verify requirements with local building code authority.
   d. Protect sills of rough openings with water resistant barrier or “peel and stick” type membranes recognized by local codes. 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.

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D. Expansion Joints
1. Provide expansion joints where directed by the design professional 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 – ½" (13 mm), Floor Line (shrinkage) – ¾" (19 mm), masonry control joints (1/2" (13 mm) or use a control joint).

E. Control Joints
1. Provide control joints for stucco thermal movement when lath is used where directed by the design professional. Common locations include the following:
   A. To limit cracking in the system at a maximum area of 144 ft^2 (13.4 m^2).
   B. Length to width ratio should not be more than 2.5:1.
   C. Off the corners of window/door heads or jamb.
   D. At dissimilar substrates.
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.
4. 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. Provide appropriate sealant at stucco terminations using a sealant designed for concrete/stucco and accessory material type use (sealant trades, Section 07920).

G. Indicate location of joints, accessories and accessory type on architectural drawings.

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

I. Solid Substrates
1. Provide surface plane tolerance not to exceed ¼ inch in 10 feet (6.4 mm in 3.05 m).
2. Concrete—prevent the use of form oil, curing compounds or other bond breakers that inhibit bond to the surface or provide for their removal.
3. Concrete Masonry—provide open texture concrete masonry units with flush joints.
4. Brick – soft to medium fired, porous to provide acceptable bond for stucco.

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1.06 PERFORMANCE REQUIREMENTS

A. System Performance

The Cemplaster Fiberstucco shall conform to the following minimum standards:

ASTM Standard	Description	Results
C67	Freeze/Thaw	Pass ICBO ACII Criteria
C109	Compressive Strength	1900 psi
E84	Surface Burning	Flame Spread=0, Smoke Developed=0
E119	Fire Rating	One Hour
E330	Transverse Load	+/- 150 psf Ultimate. Allowable varies by Code
G26	Accelerated Weathering	Pass 2000 Hours

1.07 SUBMITTALS

A. The Applicator shall submit a list of completed projects of like size and complexity.
B. The Applicator shall submit a certificate of training indicating that they have been given instructions on the proper installation of the Cemplaster Fiberstucco.
C. The Applicator shall submit Manufacturer's current literature, brochures, specifications, and details if required.
D. The Applicator shall submit sufficient samples of each finish texture and color selected. The samples shall be prepared with the same tools and techniques required for the actual project. Color and texture should be approved based on the job site mock-up samples.
E. The Applicator shall provide any shop drawings that may be applicable to the project for approval by the project architect.

1.08 DELIVERY, STORAGE AND HANDLING

A. Deliver all materials in original unopened packages with labels intact. Verify all quantities, colors, and textures against bill of lading.
B. Store all materials protected from direct exposure to weather conditions and at temperatures not less than 40° F (5° C) or greater than 110° F (43° C).
C. Material safety data sheets (MSDS) shall be supplied for the components of the Cemplaster Fiberstucco and be available at the job site.

1.09 JOB CONDITIONS

A. Ambient air temperatures shall be 40° F (5° C) or greater and rising at the time of installation of the Master Wall Inc.® products and shall remain at 40° F (5° 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 affect on the curing or drying time of Master Wall Inc.® materials.
D. Adjacent materials and the Cemplaster Fiberstucco shall be protected during installation and while curing from weather and shall be protected from site damage.

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E. Coordinate installation of the Cemplaster Fiberstucco 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 sealants shall be installed in a timely manner. Protect open joints from water intrusion during construction with backer rod, or temporary covering, until permanently sealed.
G. Sufficient manpower and equipment shall be employed to ensure a continuous operation, free of cold joints, scaffolding lines, and texture variations, etc.
H. Solid substrates shall be allowed to cure long enough to support the stucco work. Minimum 28 days for concrete and masonry units.

1.10 REPAIR AND MAINTENANCE

A. Refer to Master Wall Inc.® specific repair and maintenance procedures.

1.11 LIMITED MATERIALS WARRANTY

A. A 5-year Limited Materials Warranty shall be issued upon the receipt of a properly completed warranty request form. Warranty shall include both the Structa Wire Corp. Twin Trac lath and the Cemplaster Fiberstucco.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. ***Master Wall Inc.®***
B. Provide Cemplaster Fiberstucco system from single source manufacturer.

2.02 MOISTURE BARRIER (WRB) *(supplied by various manufacturers)*

A. WRB01 Minimum 2-layers of 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.
B. Peel & Stick Tape: Compatible with moisture barrier, optional behind control joints. <edit>
C. Other weather barrier meeting the local building code criteria and accepted by Master Wall Inc.®

2.03 Cemplaster Fiberstucco (CFS) *(select one)*

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. Approved Quikrete® stucco supplied by an authorized Master Wall® distributor and approved in Master Wall Inc.® warranty program.
D. Installed thickness shall be: 1/2" (12.7 mm) CFS03.

2.04 FOAM TRIM <edit>

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

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2.05 PRIMER (PRIME)

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

2.06 FINISH COAT (FIN)

A. FIN01 ***Superior Finish***: 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 - riled texture
   2. Spray – sand type texture
   3. R-Coarse – coarse riled texture
   4. Desert Sand – coarse sand texture
   5. Refinish – Fine texture used to create numerous finishes

2.07 LATH (*supplied by Master Wall® authorized distributors*)

A. Structalath Twin Trac 316: Welded wire lath reinforcement manufactured by Structa Wire Corp. and recognized in ICC-ES ESR-2017.

B. Striplath Minimum 4" x 12" (102 mm x 305 mm), in types and weights noted above.

2.08 MECHANICAL FASTENING & ATTACHMENT *(by others)* <edit>

A. Appropriate non-corroding fasteners, depending on the type framing or substrate:
   1. Wood Framing--minimum 11 gauge, 7/16 inch (11 mm) diameter head galvanized roofing nails with minimum ¾ inch (19mm) penetration into studs or minimum #8 Type S wafer head fully threaded corrosion resistant screws with minimum ¾ 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.

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.

2.09 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. Zinc in compliance with ASTM B 69.
   3. Galvanized metal in compliance with ASTM A 653 with G60 coating.
   4. 304 stainless steel trim manufactured in accordance with ASTM C841

B. All accessories shall have perforated or expanded flanges and shall be designed with grounds for the specified thickness of the Cemplaster Fiberstucco.

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2.10 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 C 897.
C. Cement: Type I or I-II Portland cement meeting ASTM C-150.

2.11 MIXING

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

PART 3 EXECUTION

3.01 EXAMINATION

A. Prior to installation of the Cemplaster Fiberstucco, the contractor shall verify that the substrate and water barrier:

1. Is of a type listed in this specification.
2. Is installed to shed water in accordance with this specification.
3. Is flat within 6.4 mm (1/4 in) in a 3 m (10 ft) radius.
4. Is sound, dry, connections are tight, has no surface voids, projections or other conditions that may interfere with the Cemplaster Fiberstucco installation or performance.

B. Prior to the installation of the Cemplaster Fiberstucco, the architect or general contractor shall insure that all needed flashings and other waterproofing details have been completed, if such completion is required prior to the coatings application. Additionally, the Contractor shall ensure that:

1. Metal roof flashing has been installed in accordance with Asphalt Roofing Manufacturers Association (ARMA) Standards.
2. Openings are flashed in accordance with window manufacturer requirements, Cemplaster Fiberstucco Installation Details or as otherwise necessary to prevent water penetration.
3. Chimneys, Balconies, and Decks have been properly flashed.
4. Windows, Doors, etc. are installed and flashed per manufacturer's requirements and the Cemplaster Fiberstucco Installation Details.

C. Prior to the installation of the Cemplaster Fiberstucco, the contractor shall notify the general contractor, and/or architect, and/or owner of all discrepancies.

3.02 PREPARATION

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

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3.03 INSTALLATION

A. The system shall be installed in accordance with the current Structa Wire Corp. and Master Wall Inc.® Cemplaster Fiberstucco Application Instructions.
B. The overall minimum Cemplaster Fiberstucco scratch and brown coat thickness shall be sufficient to fully embed the reinforcing mesh/lath.
C. Sealant shall not be applied directly to textured finishes.

3.04 FIELD QUALITY CONTROL

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

3.05 CLEANING

A. All excess Cemplaster Fiberstucco materials shall be removed from the job site by the contractor in accordance with contract provisions and as required by applicable law.
B. All surrounding areas, where the Cemplaster Fiberstucco has been installed, shall be left free of debris and foreign substances resulting from the contractor's work.

3.06 PROTECTION

A. The Cemplaster Fiberstucco 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.

End of Specification

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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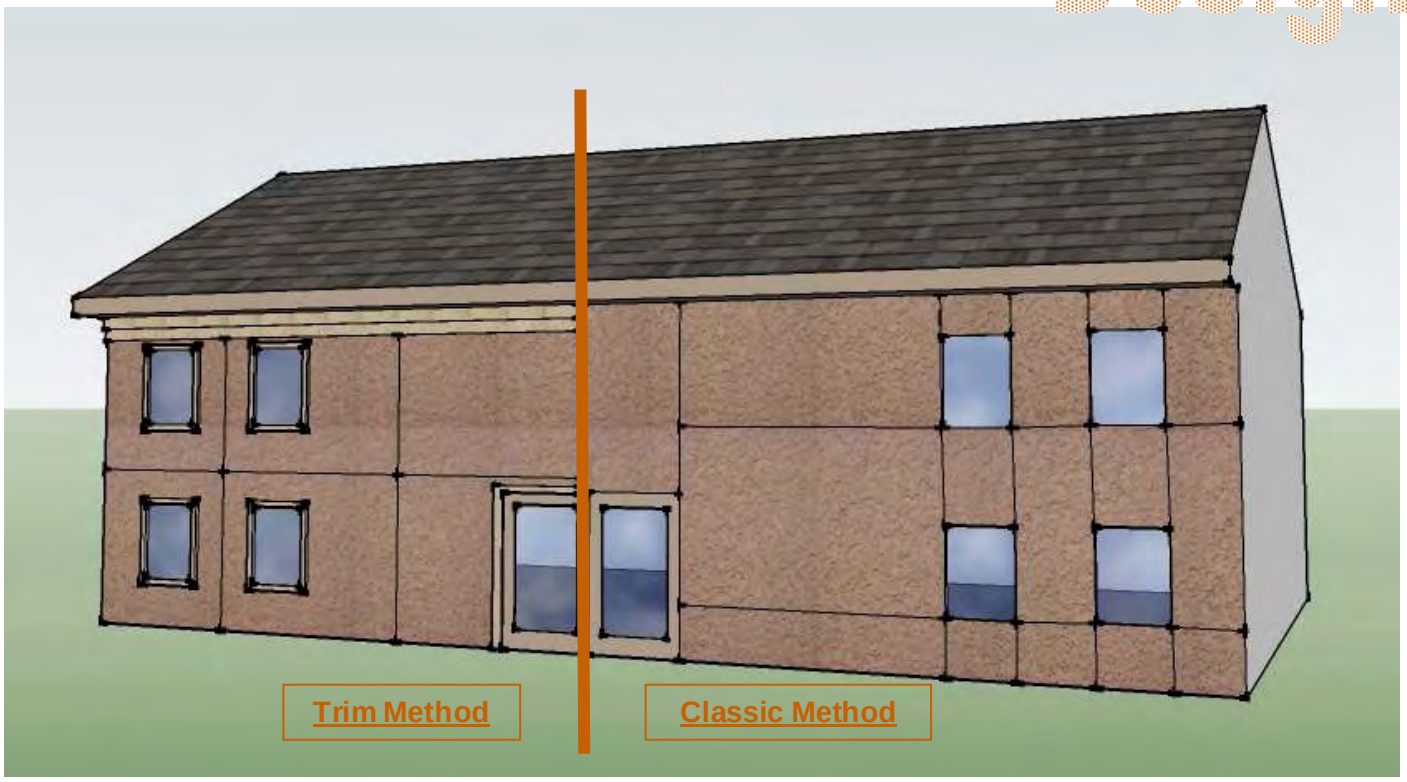
Design



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.

CFDTT-01

Control Joint Study (General)

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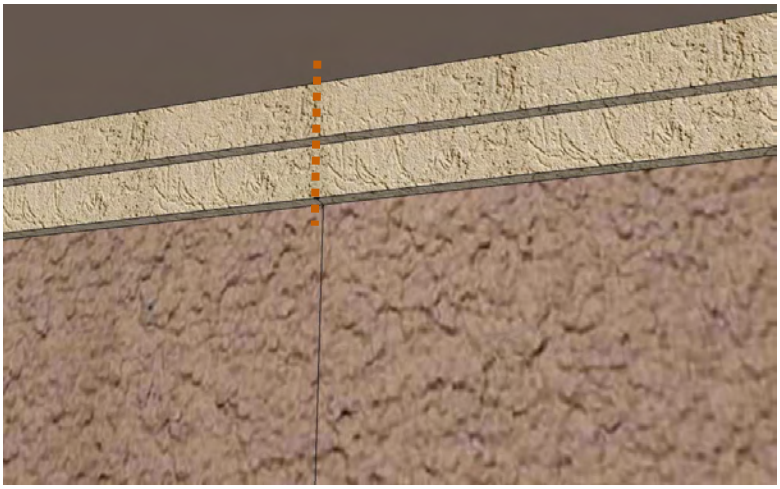

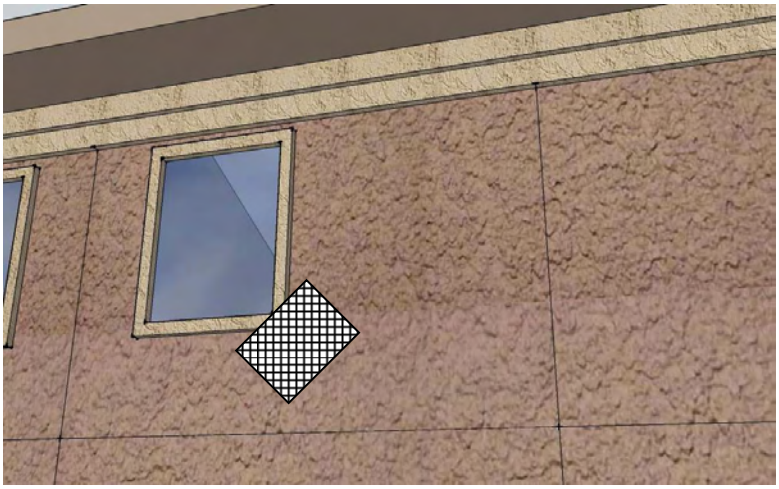

Trim Method Notes

- 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.

CFDTT-02

Control Joint Study (Trim Method)

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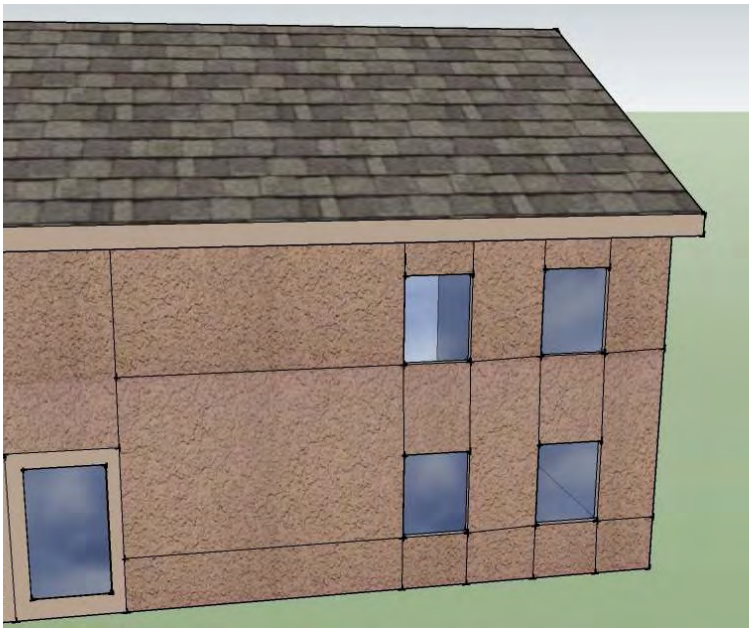

Design

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.

CFDTT-03

Control Joint Study (Classic Method)

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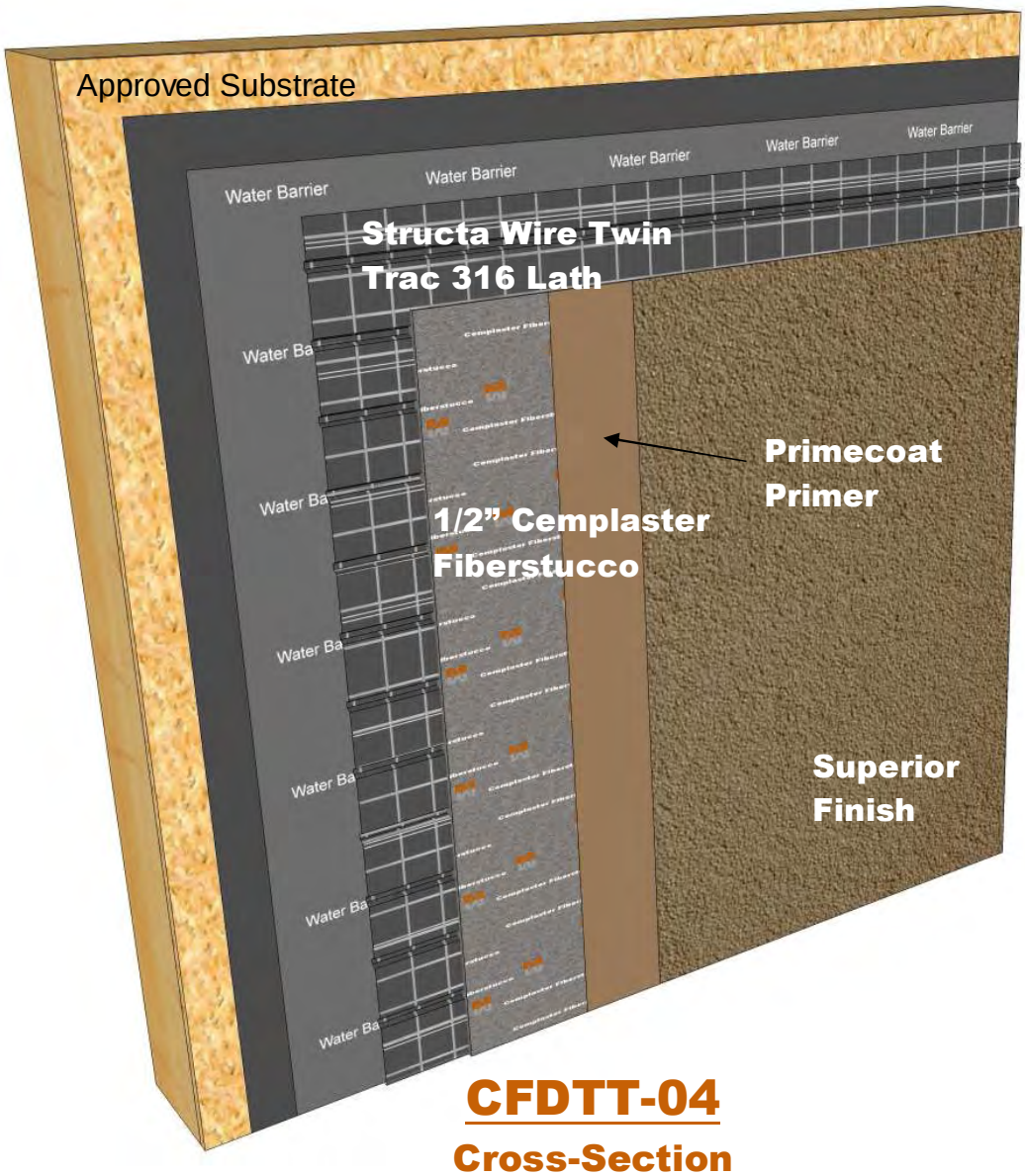
Layout



CFDTT-04
Cross-Section

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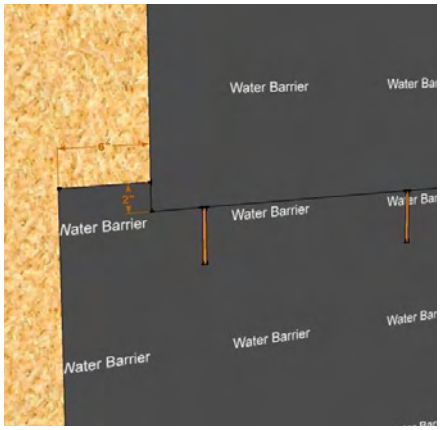
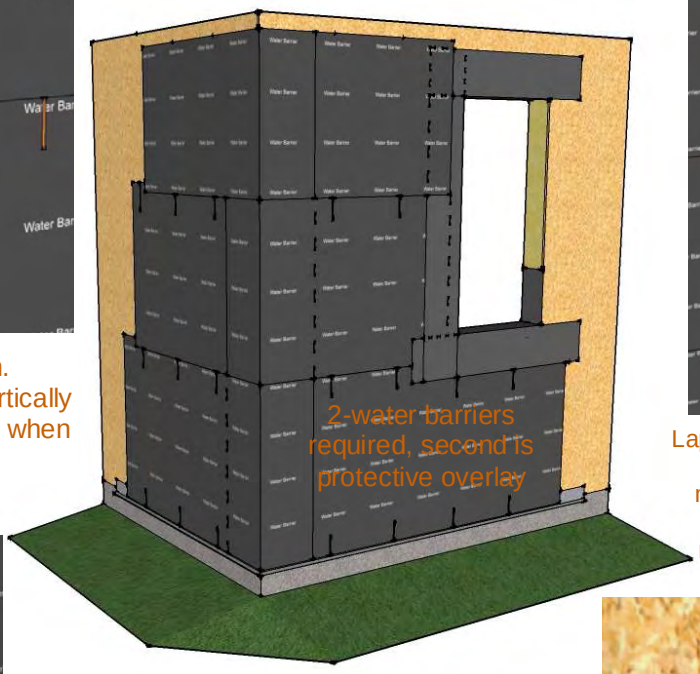
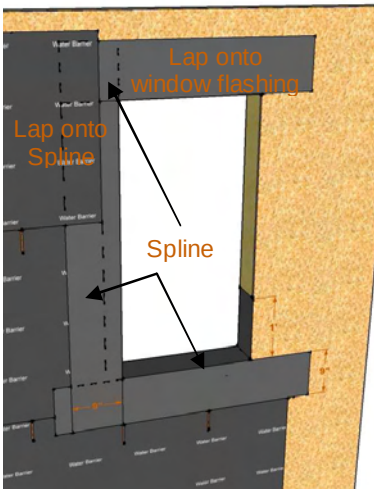
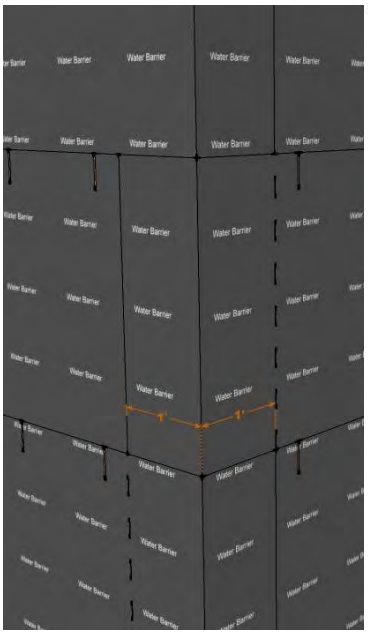


Lap felt 2” (50 mm) min. horizontally, 6” (152 mm) vertically
Hint: mark framing locations when installing felt





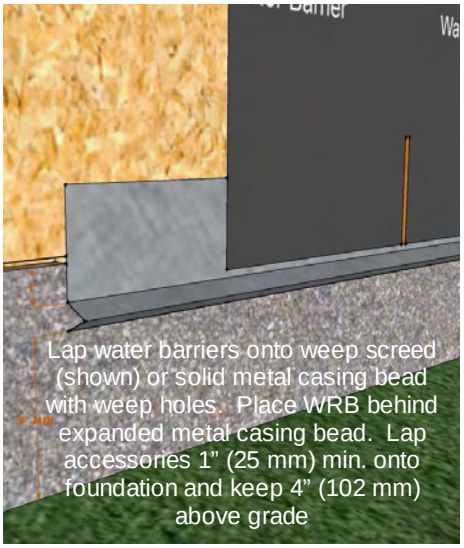
Lap felt spline as noted. If using peel and stick follow manufacturer’s instructions. Always follow window manufacturer’s instructions



Lap corners 12” (305 mm) each side

Verify detailing with asphalt felt manufacturer

Minimum requirements: Grade D or ASTM D226, Type I



CFDTT-05

Water Barrier Design Notes

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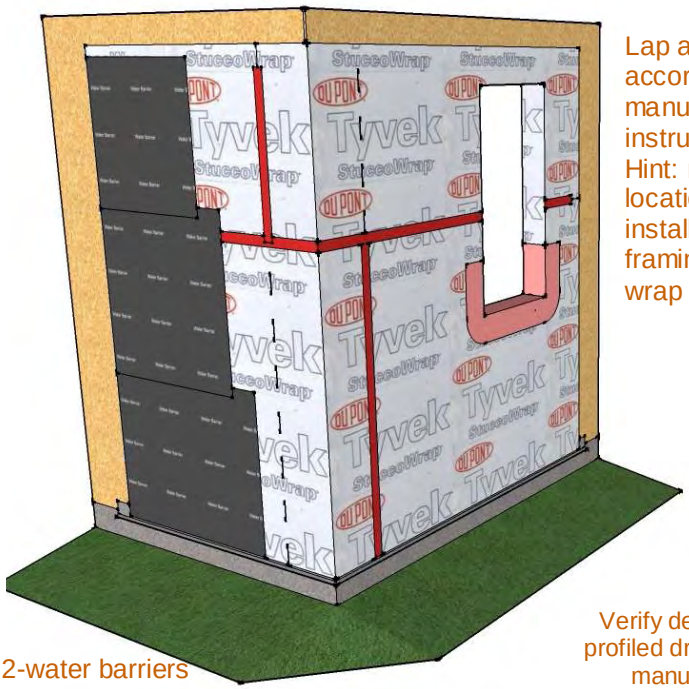
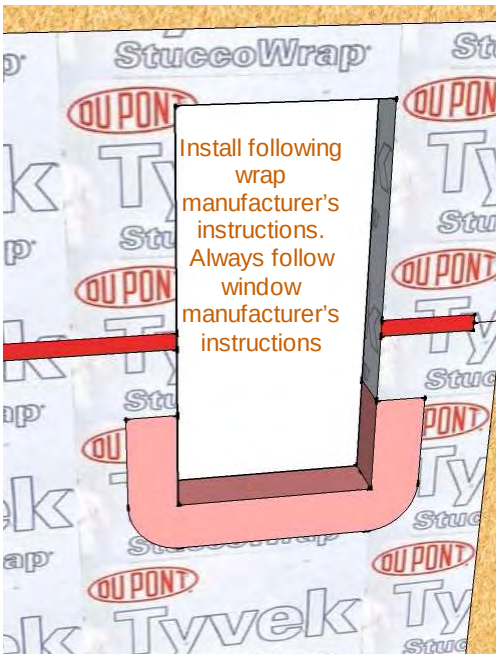
Lap corners per manufacturer's instructions



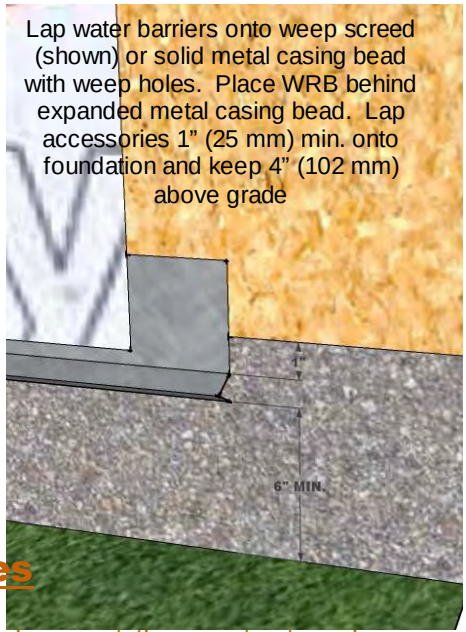
Lap and seal according to manufacturer's instructions
Hint: mark framing locations when installing or align framing marks on wrap



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



CFDTT-06

Water Barrier Design Notes

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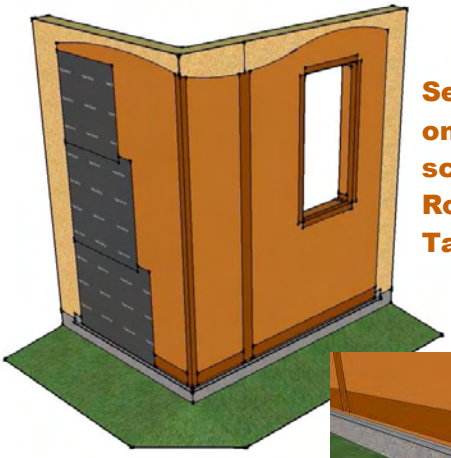
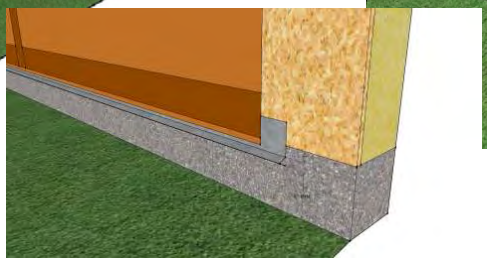
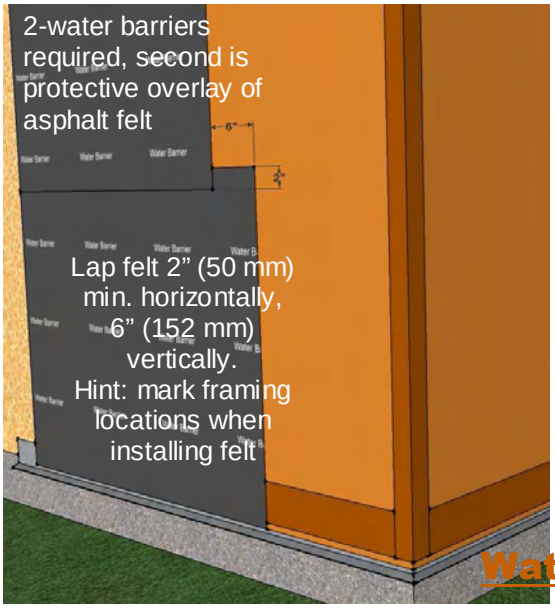
Follow Rollershield LAB Detail instructions



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 4" (102 mm) above grade

CFDTT-07

Water Barrier Design Notes

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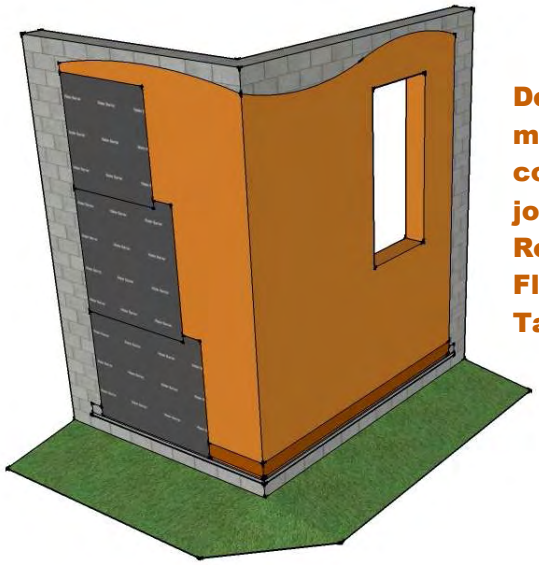
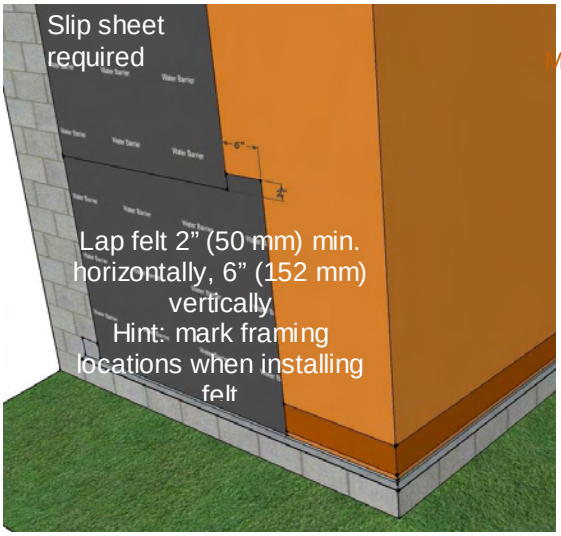
Follow Rollershield LAB Detail instructions



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

CFDTT-08

Water Barrier Design Notes

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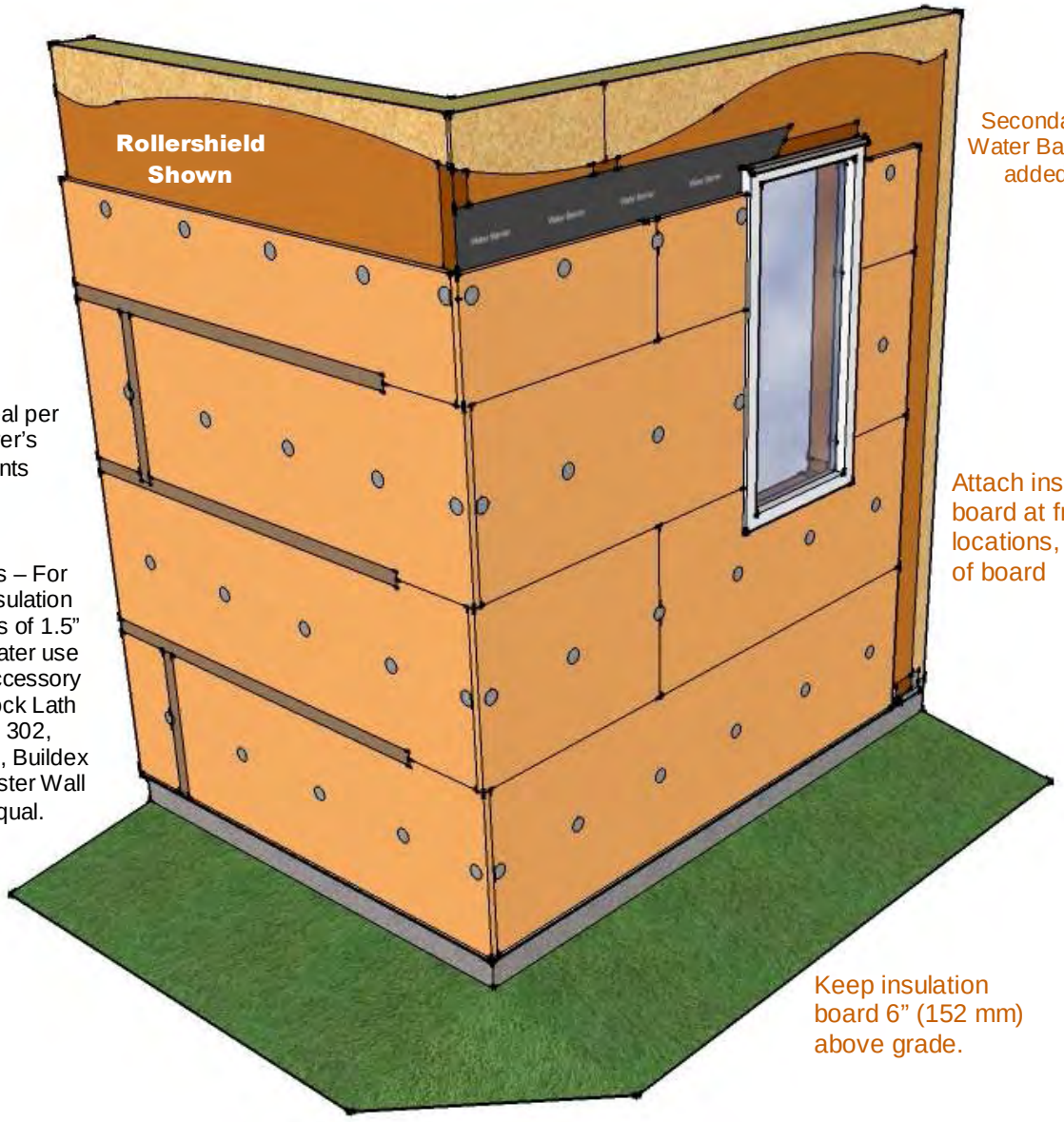
Insulation Code-recognized as a water barrier

Insulation not recognized as a water barrier



CFDTT-09

Optional Continuous Insulation Design Notes

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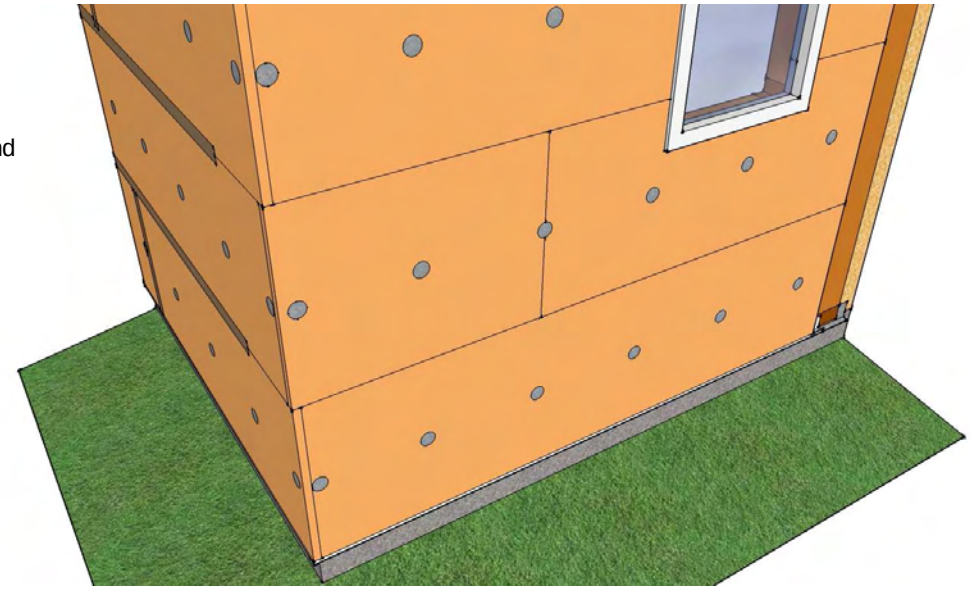
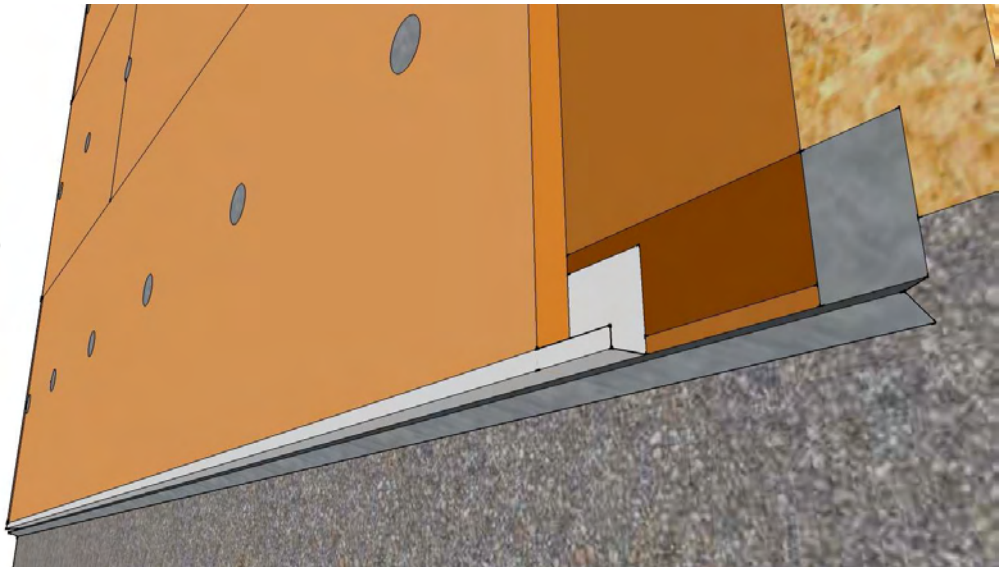
Interlock inside and outside corners



Provide a closure strip to protect insulation board from exterior exposure



CFDTT-09

Optional Continuous Insulation Detail Notes

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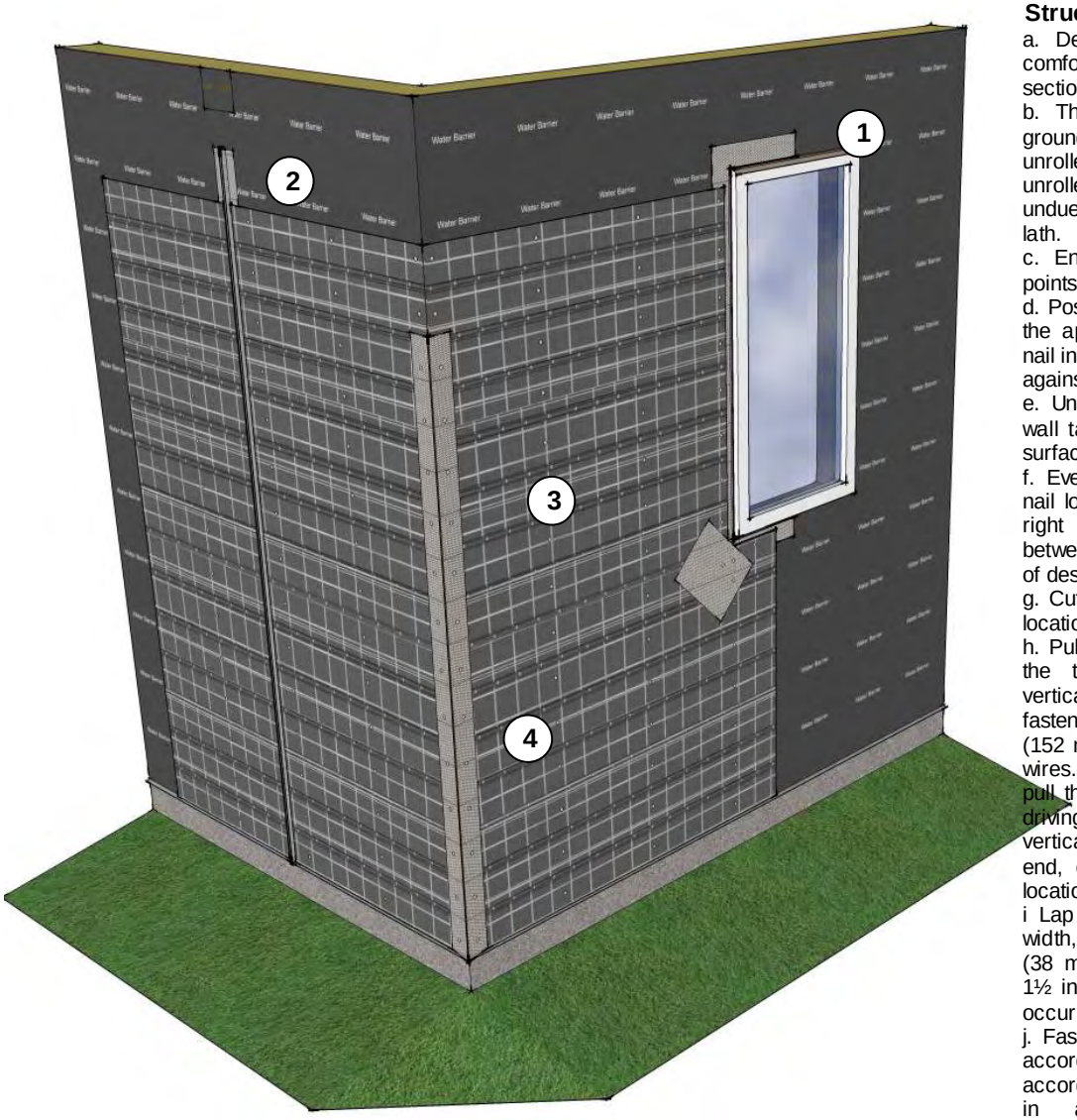

With water barrier installed over weep screed:
1. Attach casing Beads
2. Tack Control Joints
3. Install Structa Lath Twin Trac
4. Set Corner Beads

Structalath Twin Trac Installation

a. Determine starting point and plan comfortable working length for each lath section.
b. The lath can be unrolled on the ground and pre-cut, or the lath can be unrolled against the wall and then cut. If unrolled on the ground, minimize any undue distortions or stepping on the lath.
c. Ensure when installing that furring points are oriented against the wall.
d. Position the starting end of the lath at the appropriate height. Drive a roofing nail into one of the starting ears, against a vertical wire.
e. Unroll the lath or place lath on the wall taking care it lays flat on the wall surface.
f. Every 6-8 feet drive another roofing nail loosely to position the mesh at the right height. This nail should be between vertical wires. Continue to end of desired lath section.
g. Cut the lath as needed at accessory locations.
h. Pull any slack from the lath and nail the top loosely. Fasten the lath vertically at mid point of the section and fasten the lath vertically every 6 inches (152 mm) or at every pair of Twin Trac wires. At either end of the lath section, pull the lath tight either by hand, or by driving nails at an angle and nail off vertically. Once lath is tightened at each end, complete fastening at each stud location.
i Lap Structalath Twin Trac one mesh width, this is approximately 1½ inches (38 mm). Lap End laps approximately 1½ inches (38 mm). Vertical laps must occur over a framing member.
j. Fastener types and sizes must be in accordance with ASTM 1063 or in accordance with local building codes or in accordance with engineering drawings and specifications for the project. If staples are being utilized, they should be oriented parallel to the framing member to minimize risk of missing the framing, and puncturing the WRB.

CFDTT-10

Lath Notes

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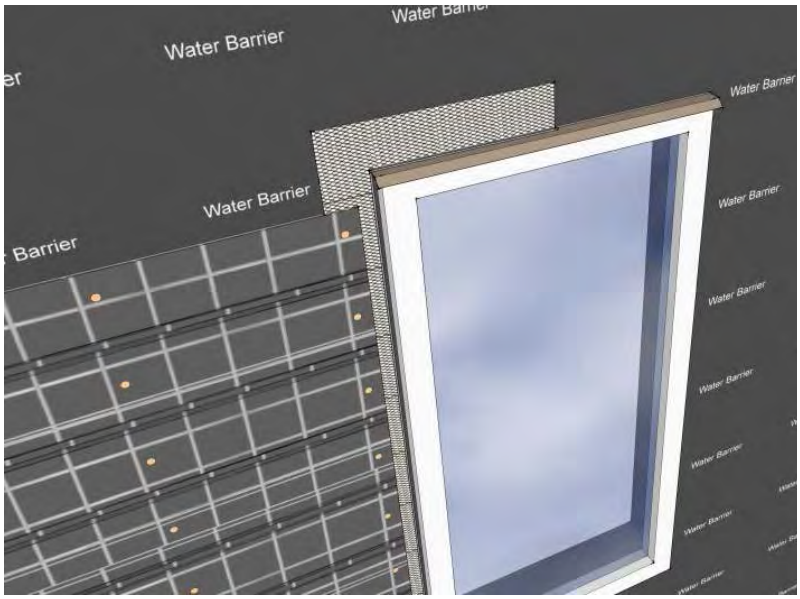
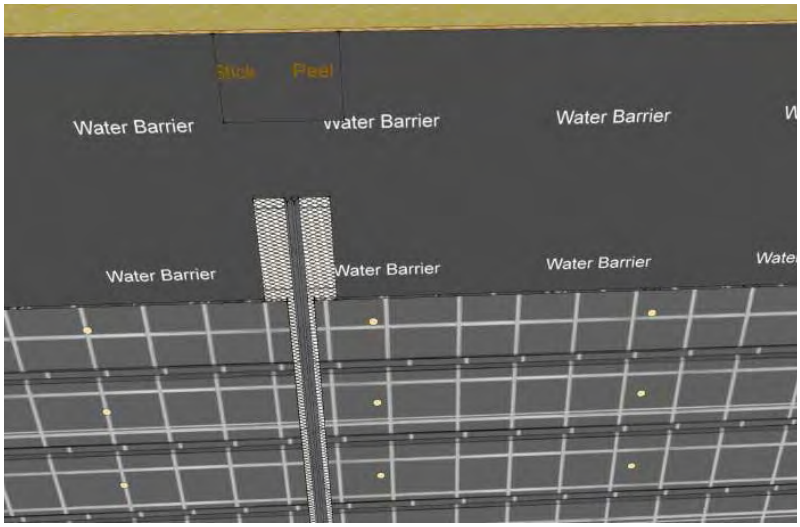


Casing Bead and Expansion Joint Installation

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 Twin Trac. Wire tie control joints to Twin Trac 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>

CFDTT-11

Accessory Installation Notes

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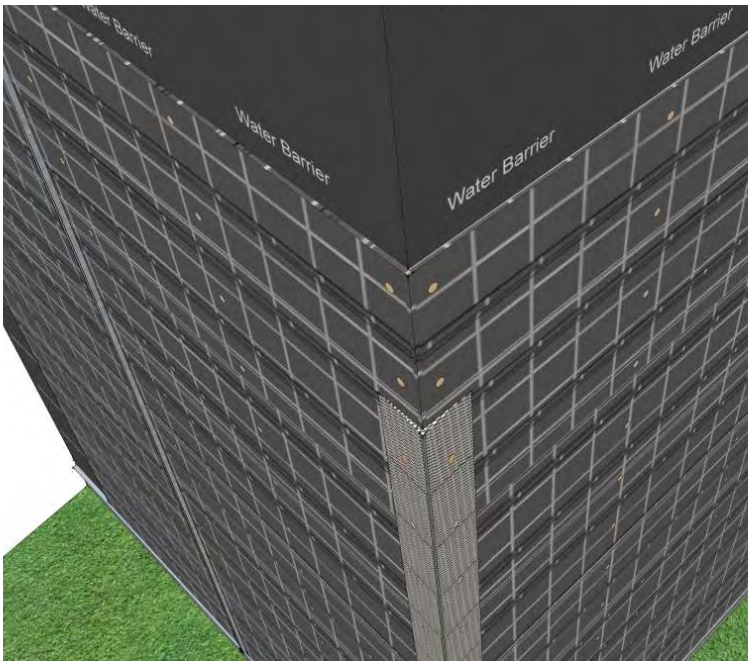
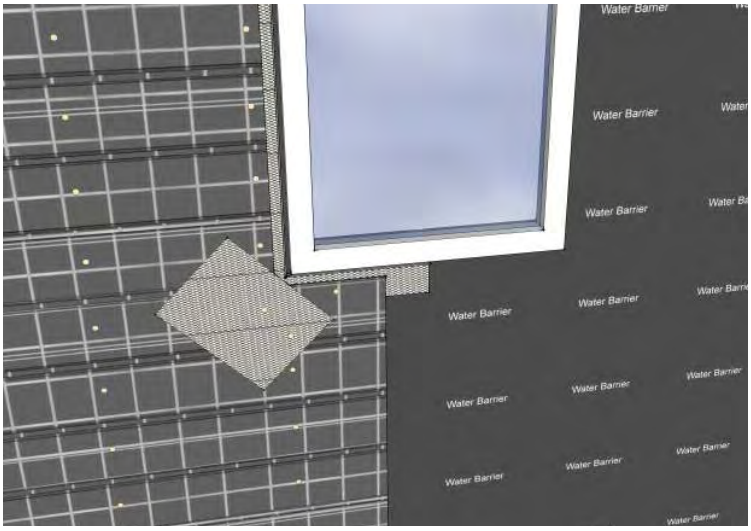


Inside and Outside Corners
Install corner lath at inside corners and corner bead at outside corners over lath. Attach through lath into framing at 6 inches (152 mm) on center with appropriate fasteners.



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

CFDTT-12

Accessory Installation Notes

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CFDTT-13

Prime01 Primecoat Primer

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CFDTT-14

Finish Application

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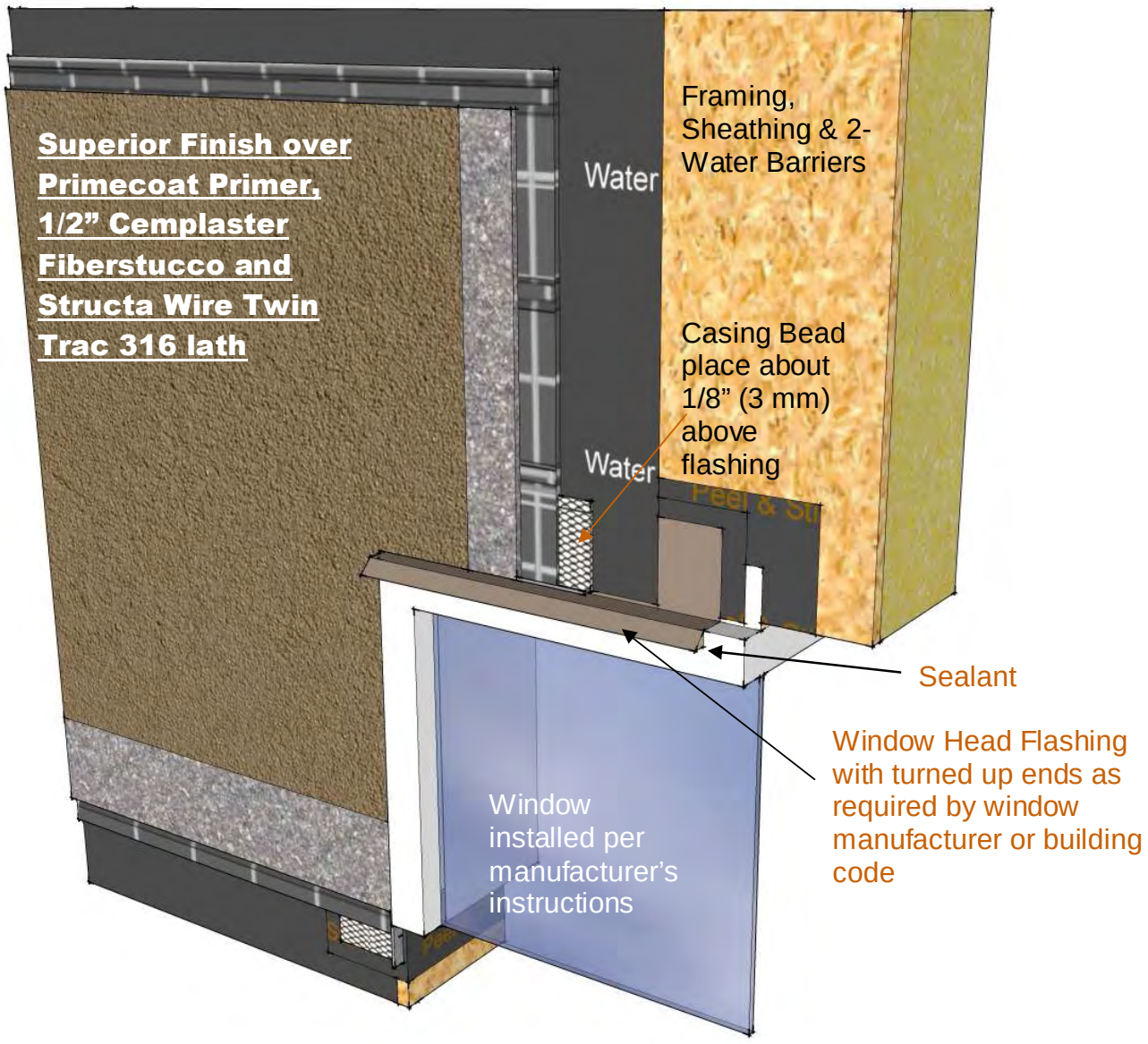

CFDTT-15

Window Head with Nailing Fin

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CFDTT-16

Window Jamb with Nailing Fin

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Superior Finish over Primecoat Primer, 1/2" Cemplaster Fiberstucco and Structa Wire Twin Trac 316 lath

CFDTT-17

Window Sill with Nailing Fin

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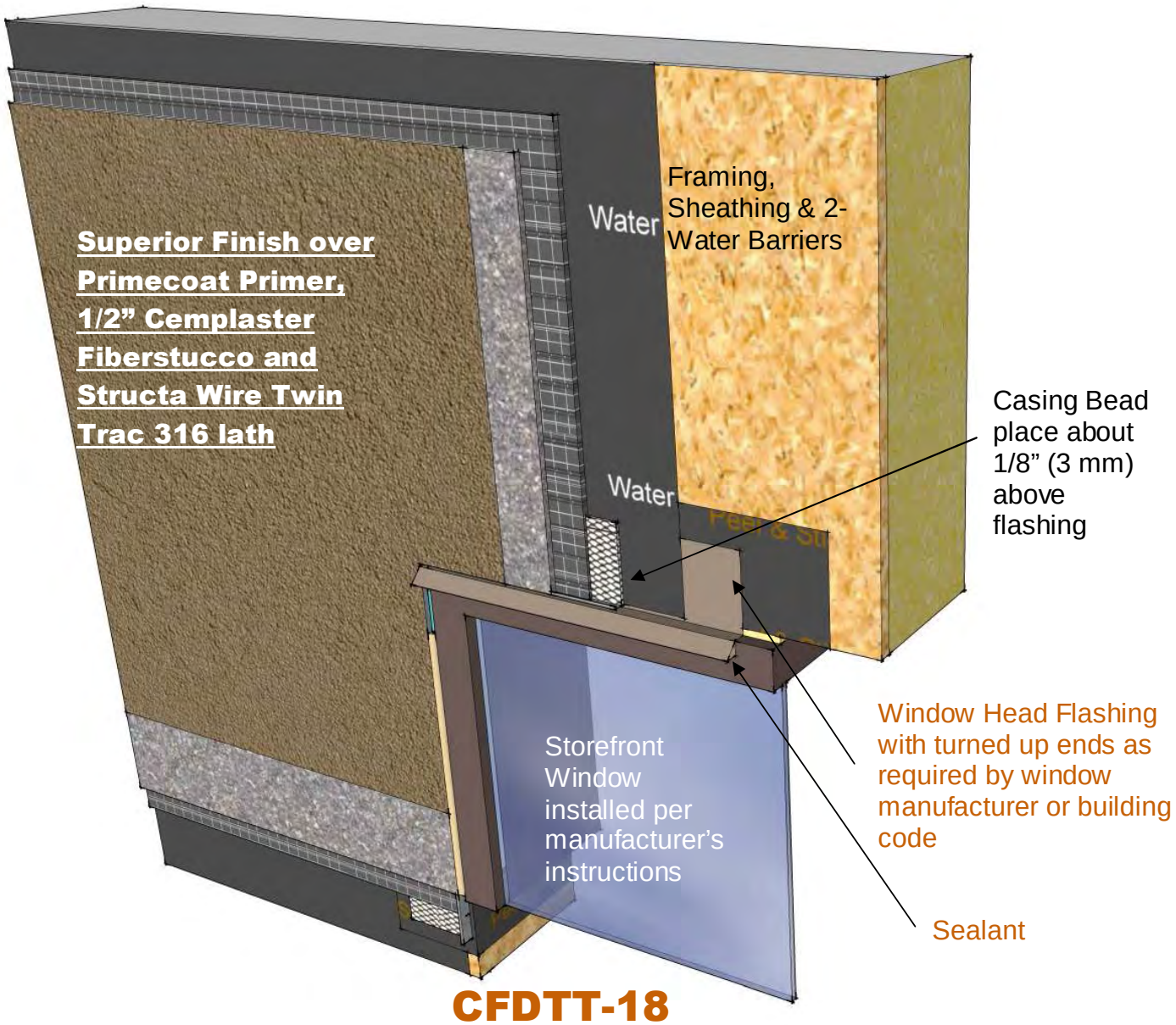

CFDTT-18

Storefront Window Head

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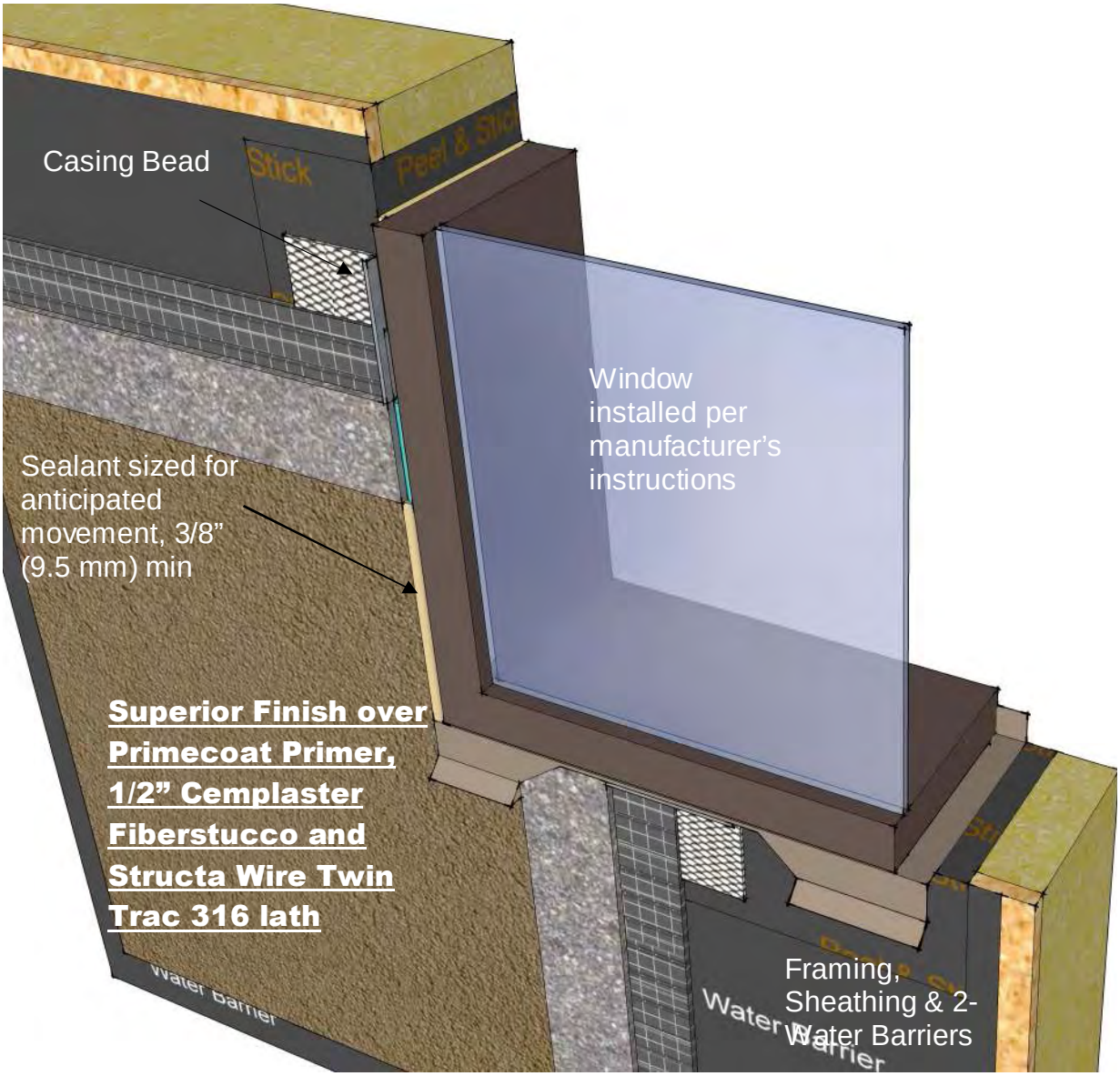

CFDTT-19

Storefront Window Jamb

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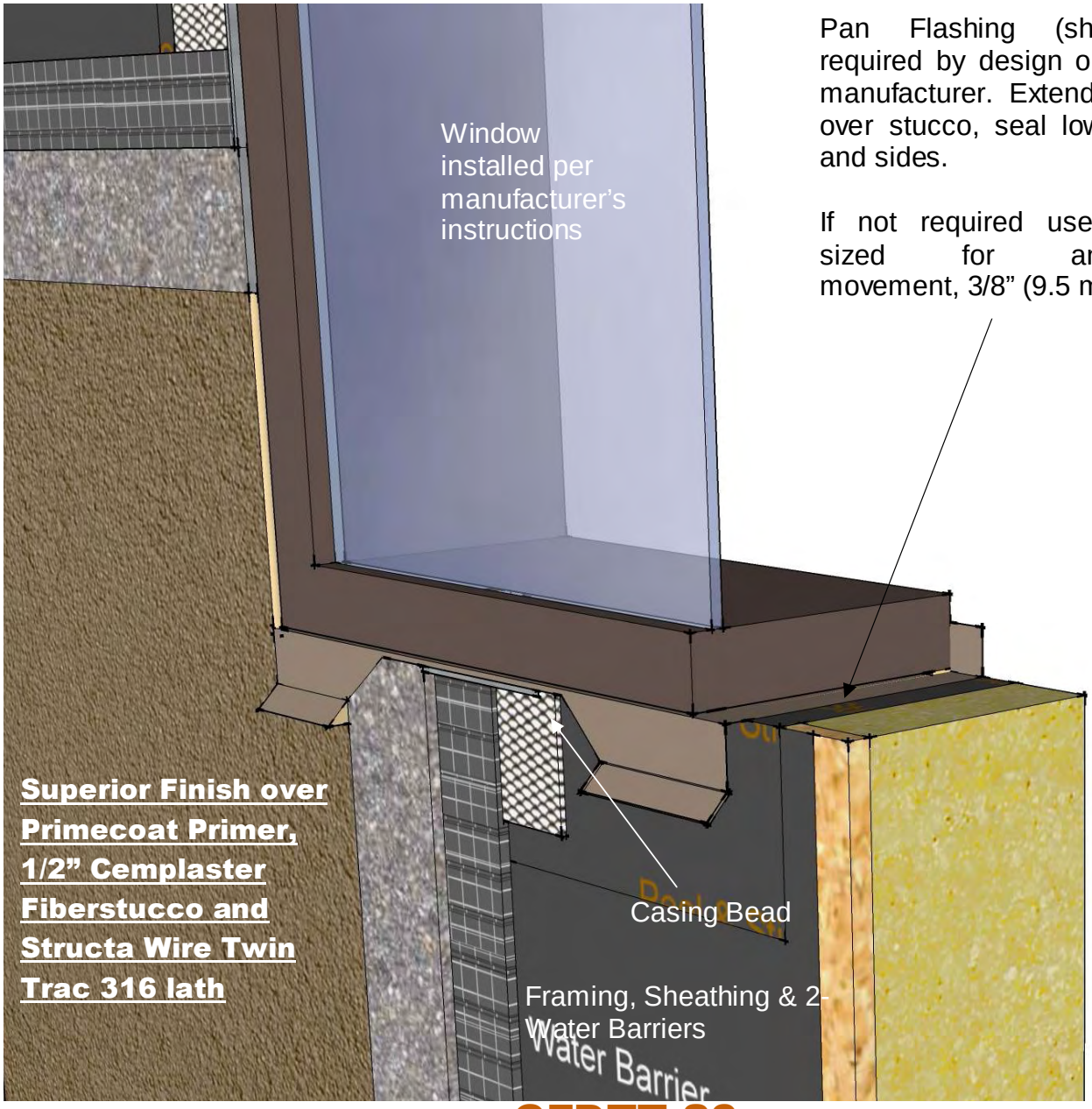

CFDTT-20

Storefront Window Sill

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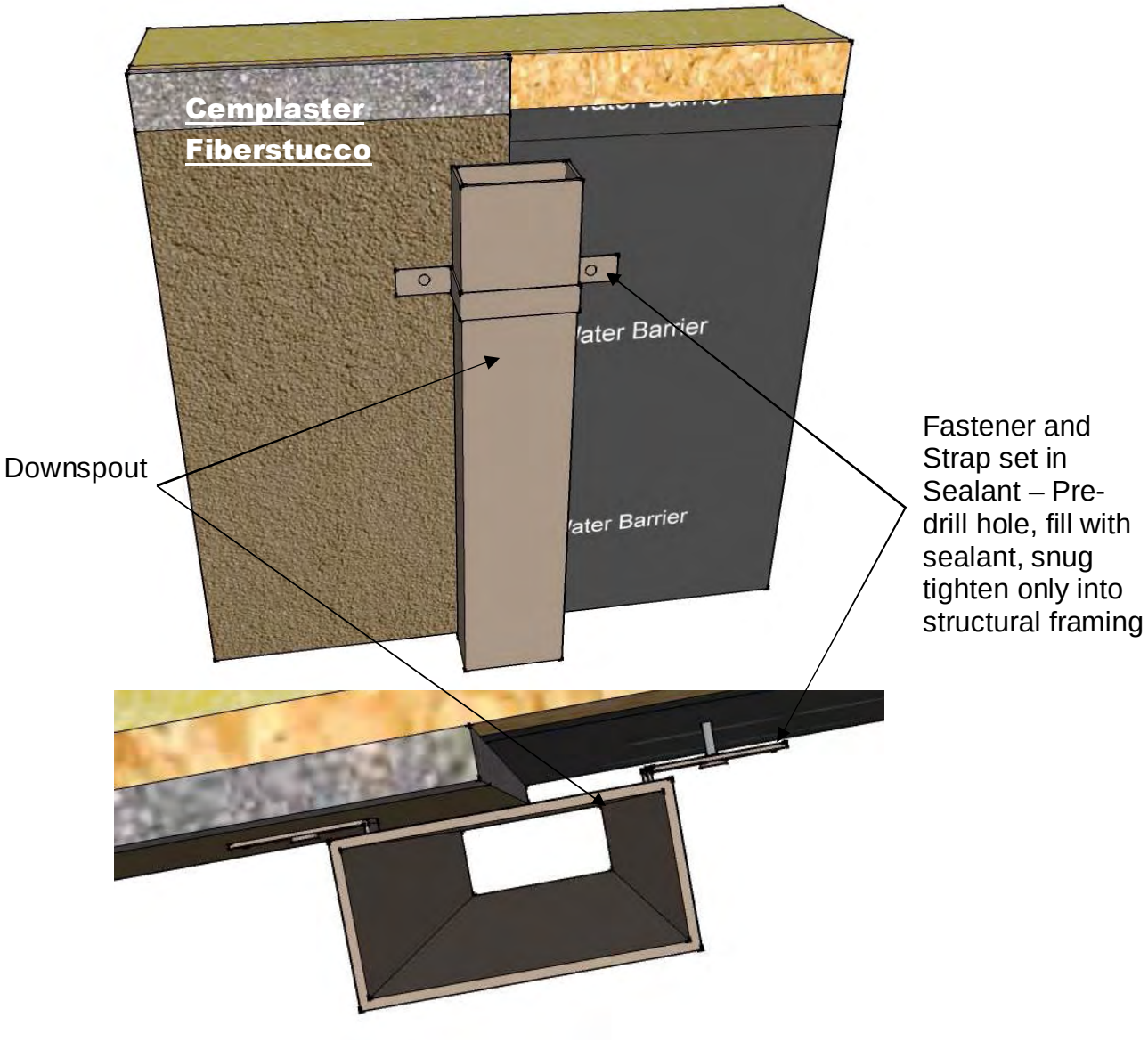

CFDTT-21

Downspout Attachment Notes

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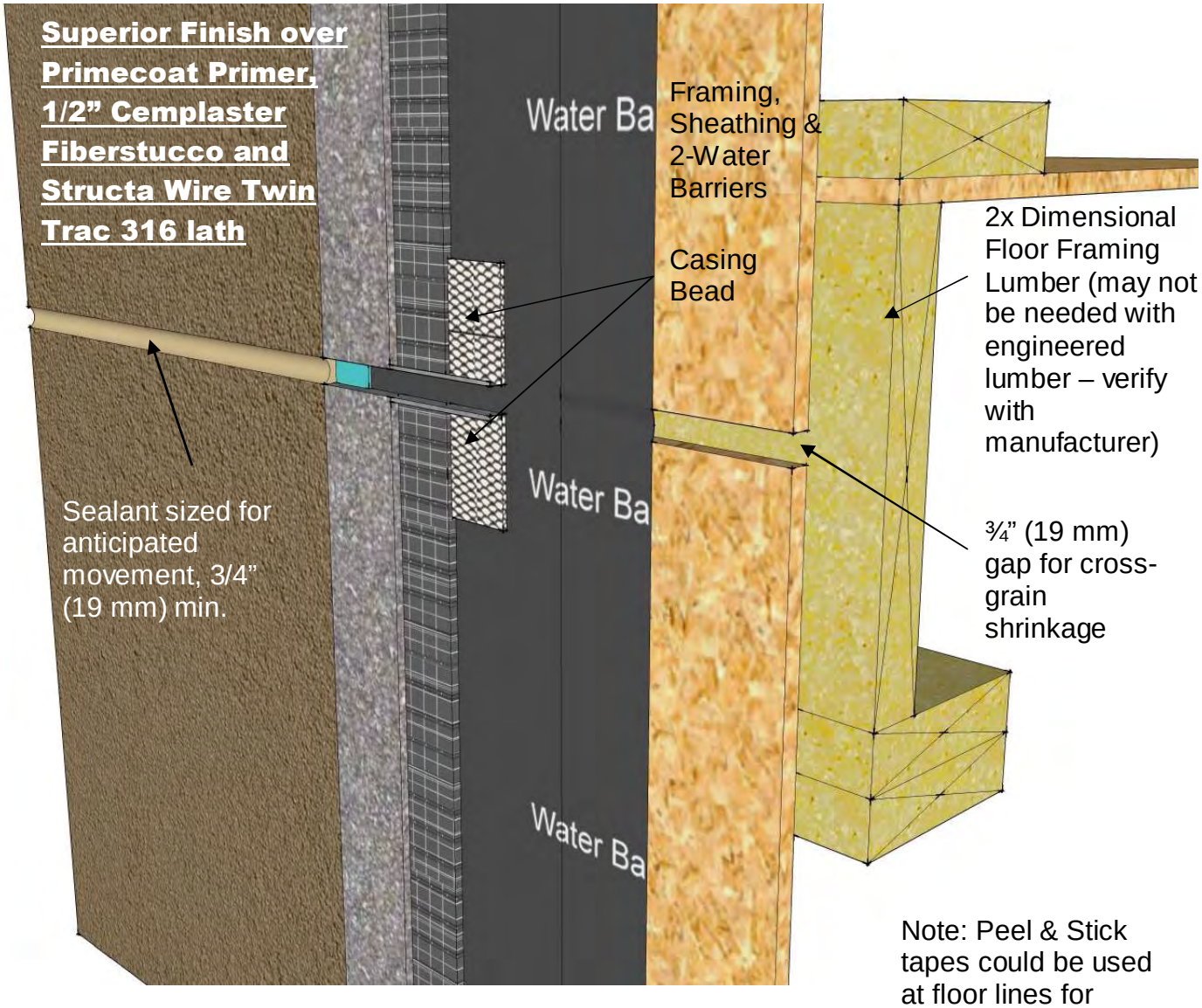

CFDTT-22

Floor Line Expansion Joint

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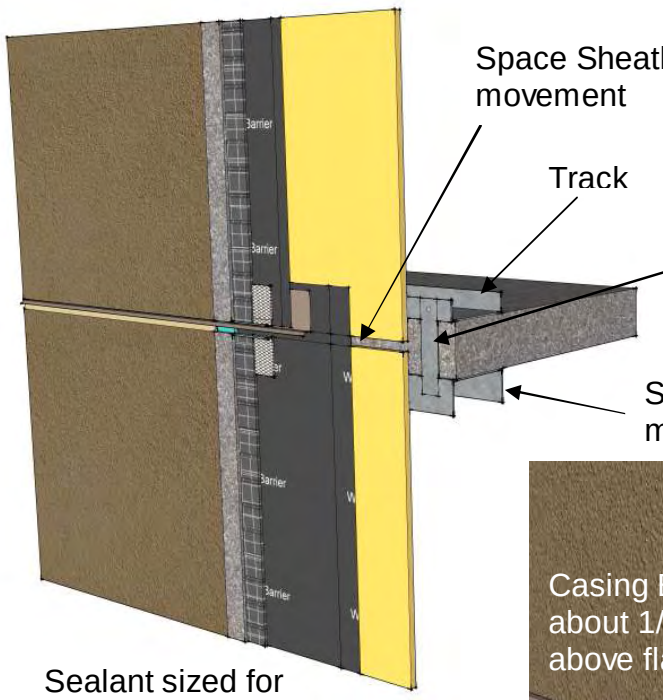
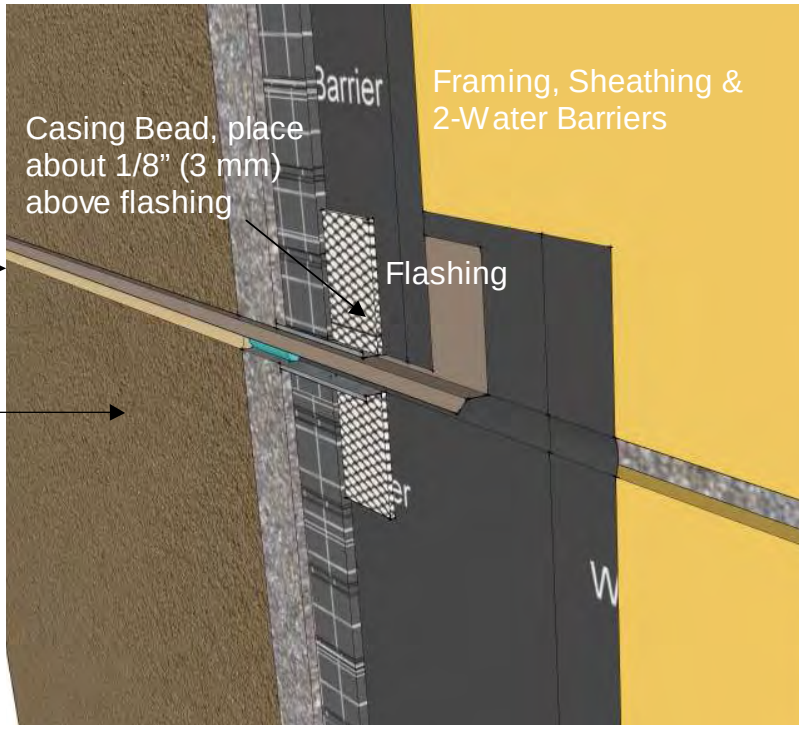


Space Sheathing for anticipated movement

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.

Superior Finish over Primecoat Primer, 1/2" Cemplaster Fiberstucco and Structa Wire Twin Trac 316 lath

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

CFDTT-23

Floor Line Expansion Joint with Drainage Provision

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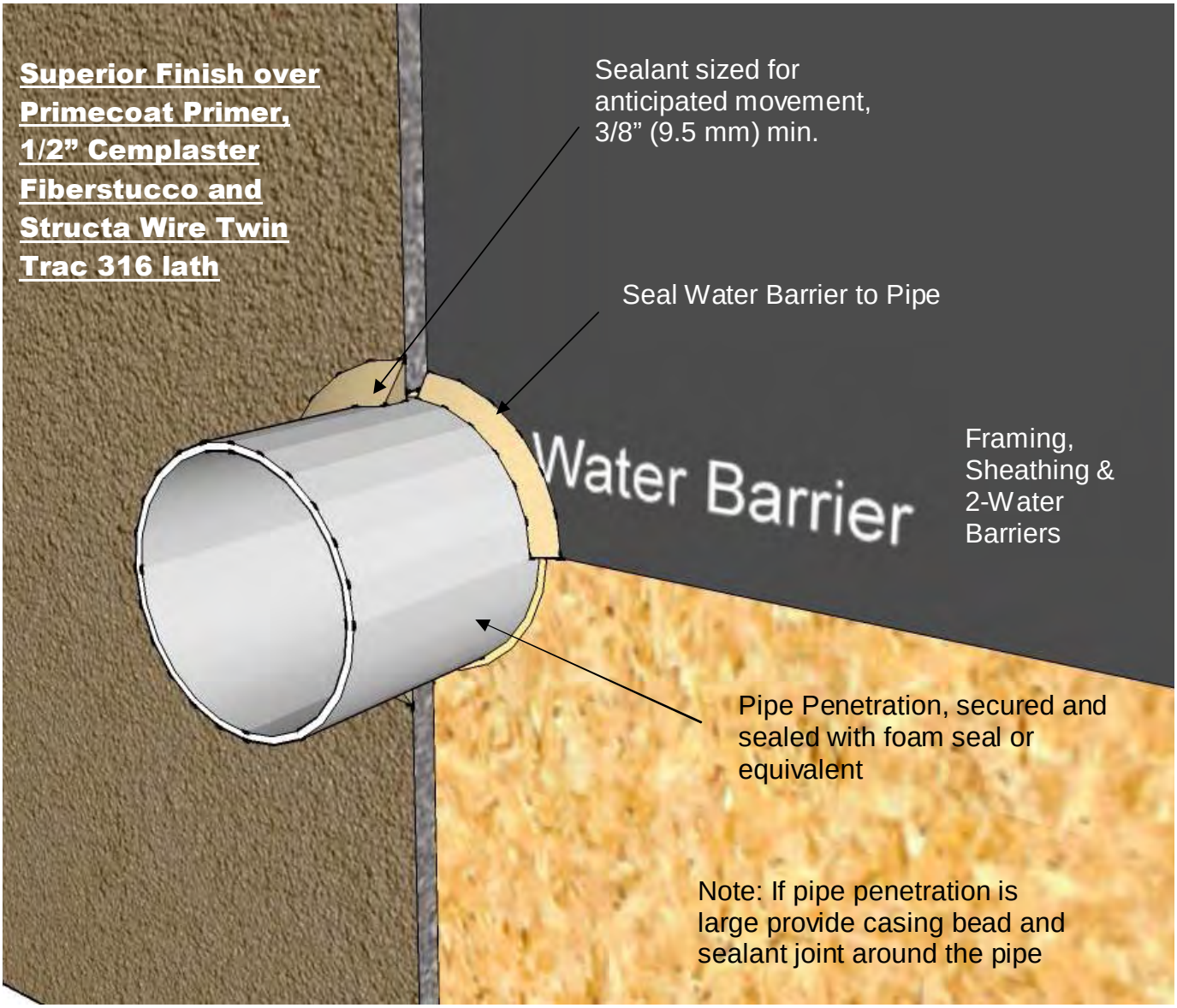

CFDTT-24

Pipe Penetration

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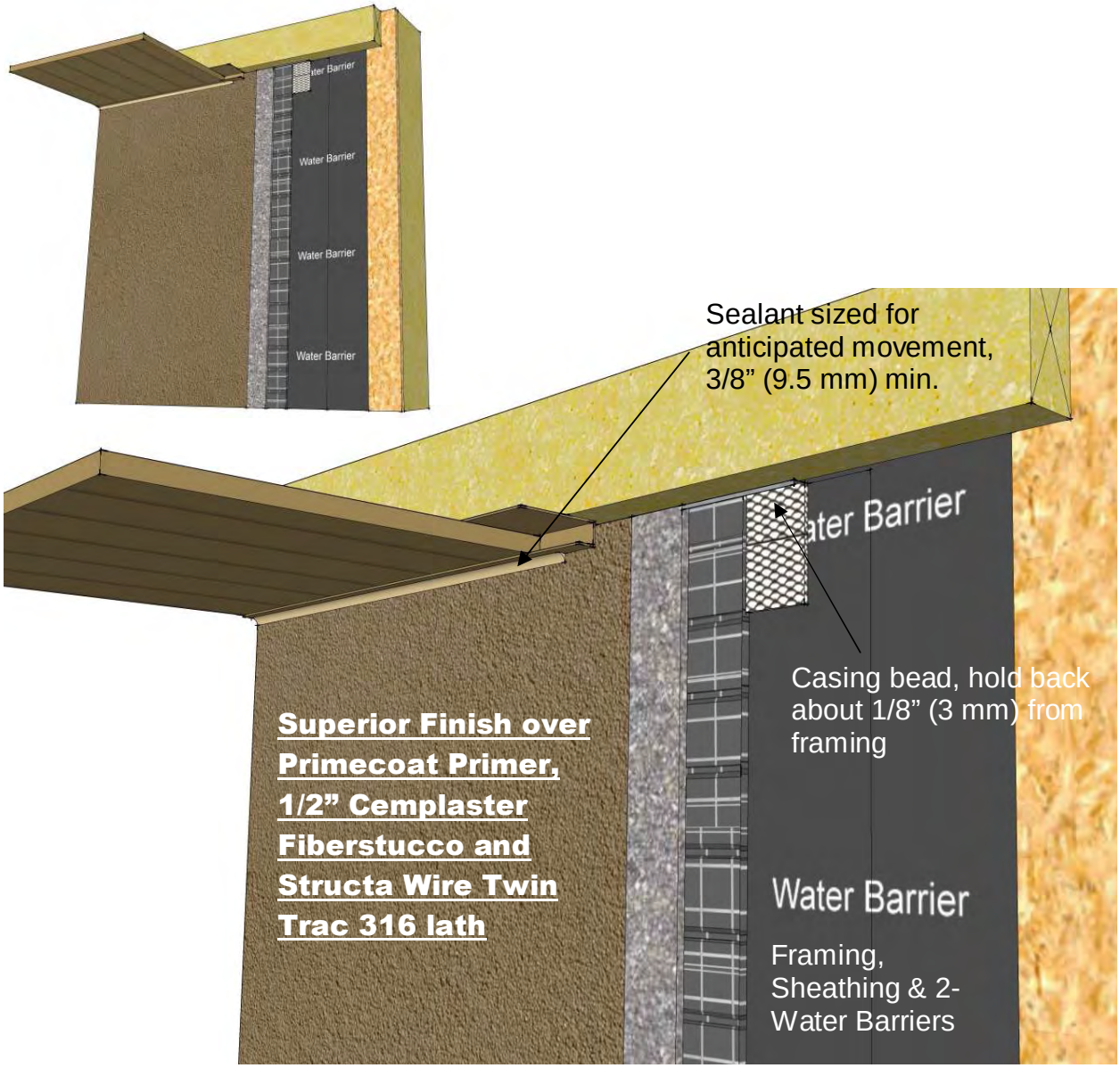

CFDTT-25

Soffit Detail

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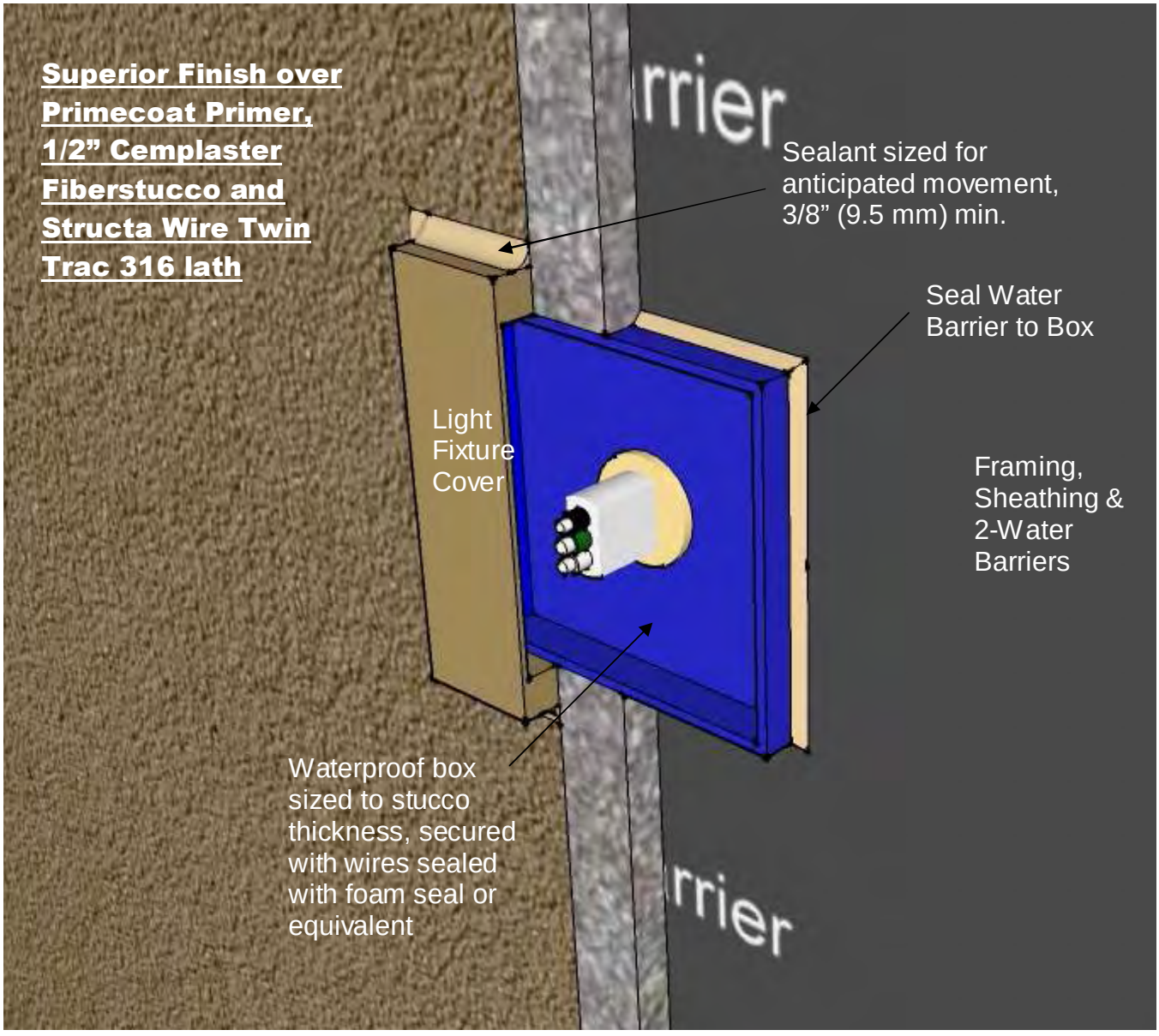

CFDTT-26

Light Fixture Detail

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

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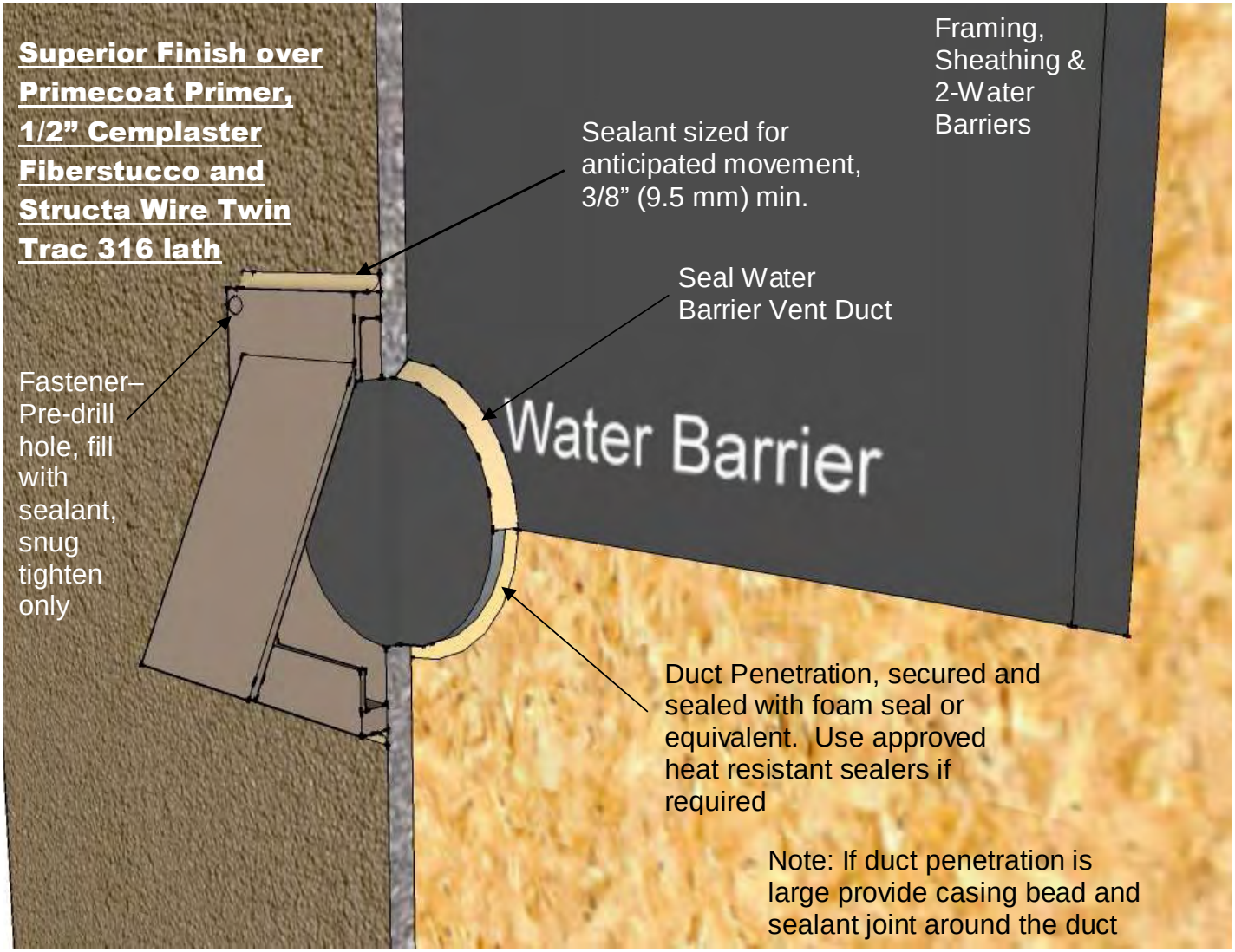

CFDTT-27

Vent Detail

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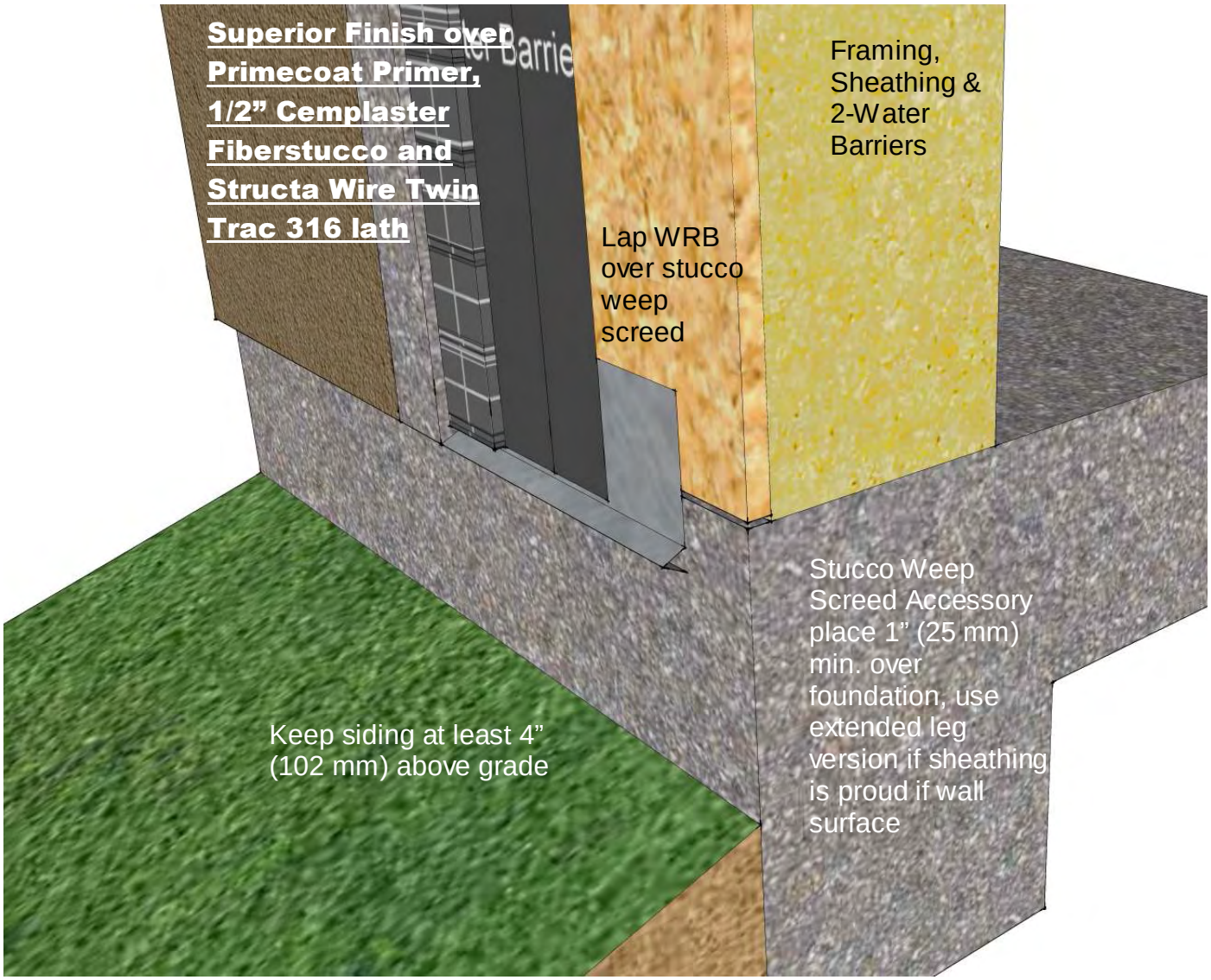

CFDTT-28

Detail at Grade

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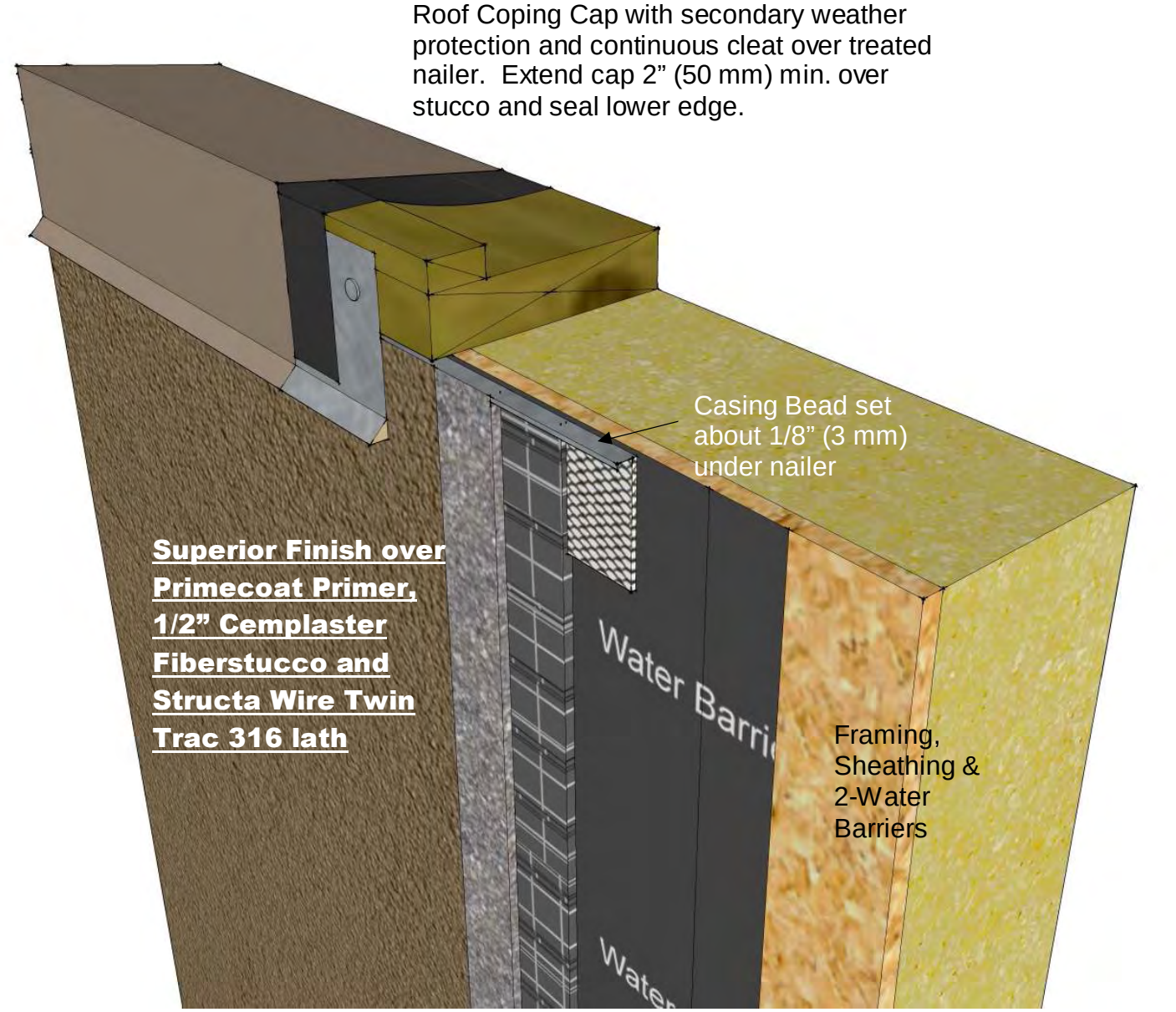

CFDTT-29

Detail at Roof Cap

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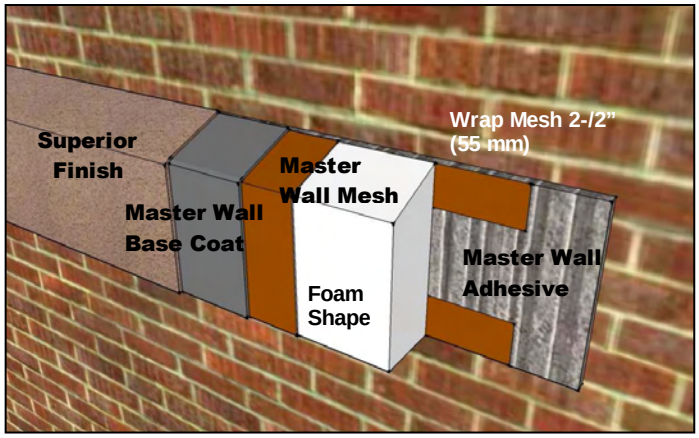
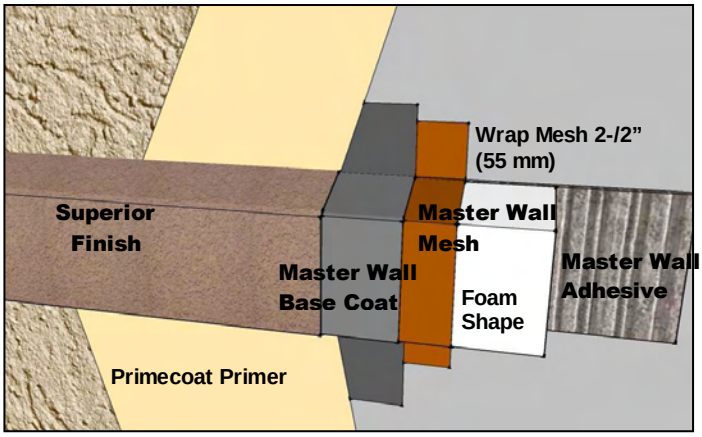
See Foam Shape Data Sheet for Specifics

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.

CFDTT-30

Foam Shape Detail

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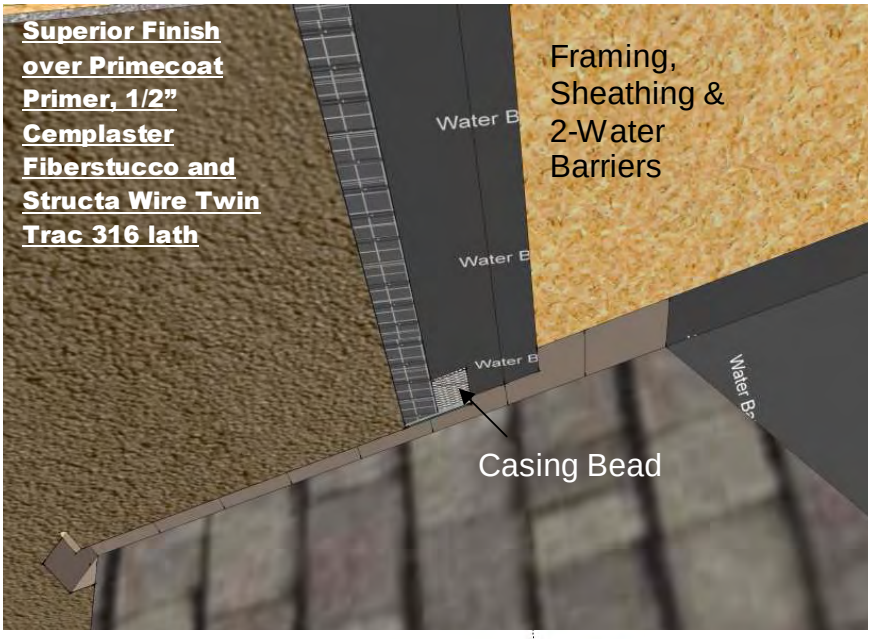
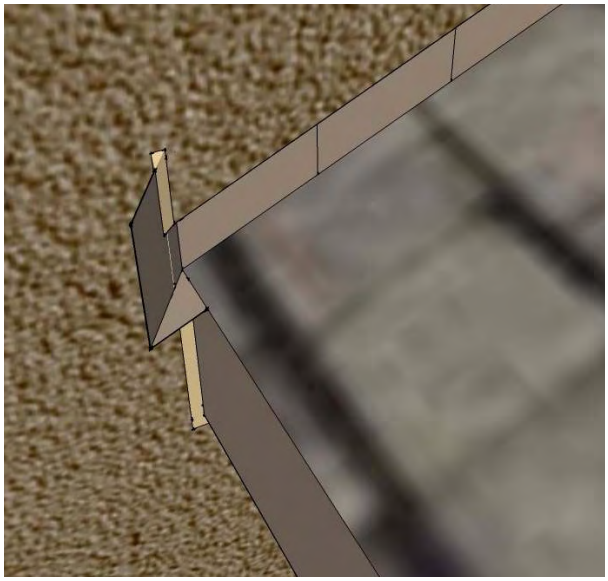
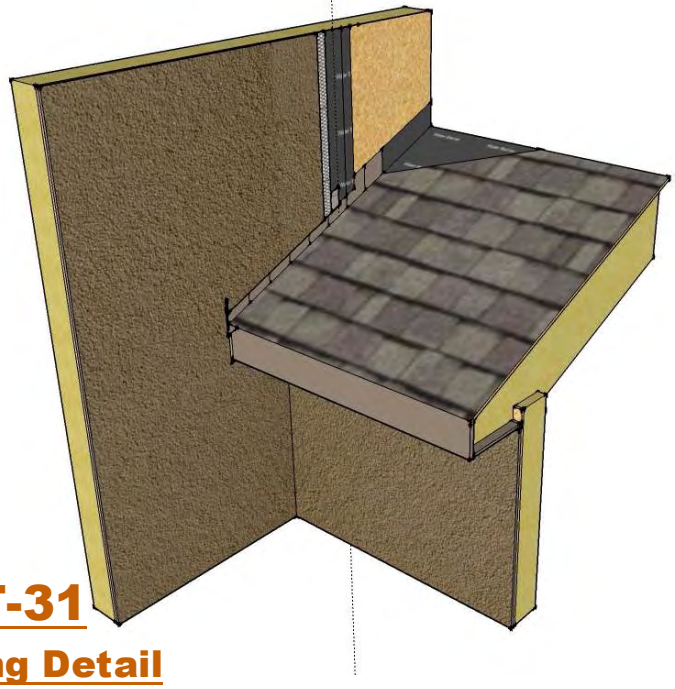
Install roofing felt 4” (10 cm) up roof, set roof step flashing and roofing.

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.





CFDTT-31

Roof Flashing Detail

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Cemplaster Stucco

5 Year Labor & Material Limited Warranty

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

Master Wall Inc., is not responsible for structural conditions, design conditions beyond those noted in our literature, architecture, engineering or workmanship of any project. 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.

Project:

Applicator:

Warranty Date:

This is not the final warranty. For a valid warranty click on the support tab at masterwall.com and request a warranty. Warranties are not valid until issued.