Master Wall Inc.
Building a Culture of Excellence

P. O. Box 397
Fortson, GA 31808
800-755-0825
Technical 800-760-2861
masterwall.com

Submittal Package

Aggre-flex EIFS

Long Form Submittal

Project:

Location:

Architect:

General Contractor:

Applicator:

Benefits of Master Wall®

- American owned and privately managed, our focus is the customer
- Serving customers since 1987
- Quality products featuring 100% pure acrylic polymers
- Dedicated to the EIFS & Stucco Markets, it's ***what*** we do, not part of what our company does
- Experienced Staff—100+ years of experience
- Service—we provide it!
    - Job site visits
    - Color matching
    - Architectural Support
    - Samples
    - Plan, detail and technical reviews
- Dedicated to a culture of excellence

excellence

Included in Submittal:

__ **System Data Sheets**

__ **Product Data Sheets**

__ **Specifications**

__ **Details**

__ **Sample Warranty**

Aggre-flex System

07 24 13

Class PB Exterior Insulation and Finish System

Features & Benefits
- High Insulating Value (R-4 per inch)
- Design Flexibility
- Medium Impact Resistance is standard

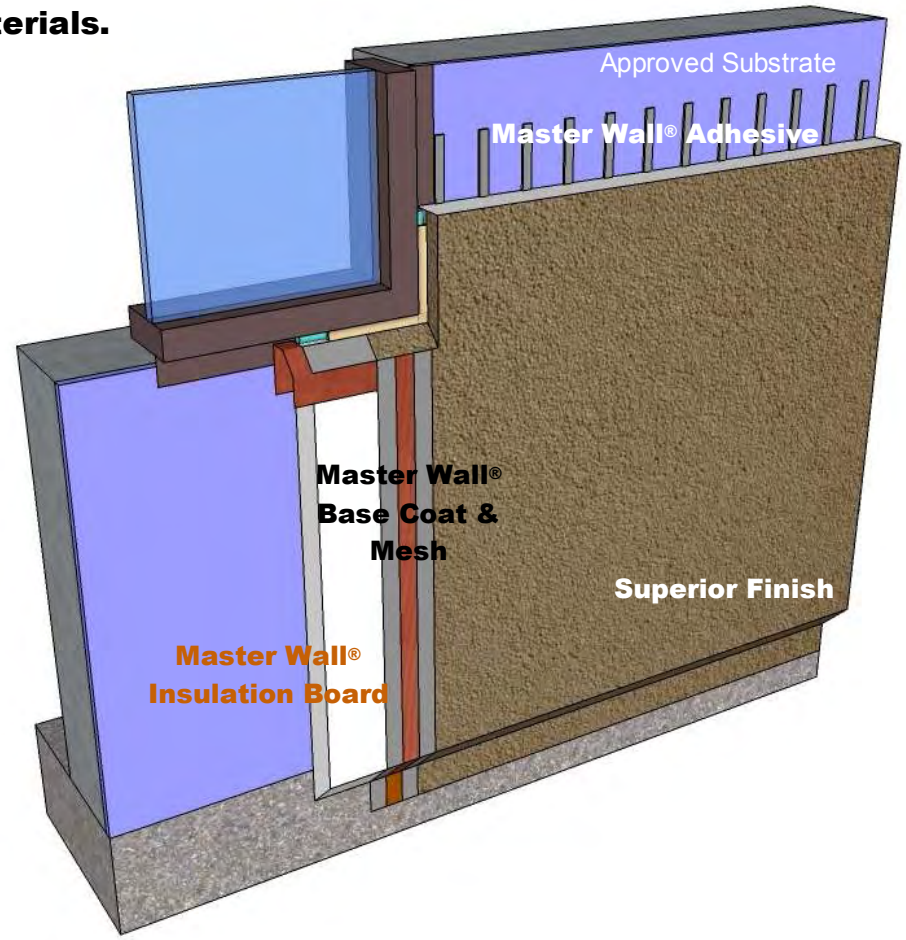
System Use
- Commercial

Attachment Method
- Mechanical
- Adhesive

Continuous Insulation

Master Wall Inc.® Aggre-flex System is a polymer-based (Class PB) Exterior Insulation and Finish System (EIFS) that blankets commercial projects in a layer of protective insulation reducing thermal losses at framing members and better insulating the entire building.

The Aggre-flex System offers many options from its weather-resistant monolithic exterior to design flexibility and ease of design. It has the visual appeal that architects and owners look for without the weight or expense of traditional materials.



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Aggre-flex System

Short Form Specification

1.0 General

This is a short form specification. Refer to Aggre-flex specifications and details for additional information.

1.1 System Description

The Master Wall Inc.® Aggre-flex Exterior Insulation and Finish System (EIFS) is a Class PB (Polymer Based) EIF System consisting of mechanical or adhesive attachment, insulation board, reinforcing mesh and a textured finish.

1.2 Design Requirements:

A. Reference Master Wall® suggested details and architectural drawings for specific detail requirements.
B. Slope all surfaces a minimum of 1:2 (6" in 12") to shed water, maximum 12" (305 mm) wide.
C. Maximum deflection of substrates shall not exceed L/240.
D. Typical acceptable substrates include unpainted brick, masonry, concrete, Portland cement plaster (stucco), exterior grade gypsum sheathing (ASTM C1396), Glass Fiber Sheathing (ASTM C1177), CDX exterior grade plywood, Exposure 1 Oriented Strand Board (OSB). Contact Master Wall® for other approved substrates.
E. Expansion joints are required at building expansion joints, panel joints, floor lines in wood framed construction, and other areas where significant movement occurs.

1.3 Quality Assurance

A. The Aggre-flex System shall be recognized by local building codes.
B. The system shall be meet or exceed ASTM C1397 and detailed in accordance with ASTM E2511.
C. The system shall have been tested for fire performance in accordance with ASTM E108, ASTM E-84, NFPA 265, and NFPA 268.
D. The system shall have been tested for water resistance in accordance with ASTM E331, IBC 12 (Section 1403.2).

1.4 Job Conditions

A. Store all materials protected from weather and direct sunlight at temperatures above 40°F (5°C).
B. The ambient and wall temperature shall be a minimum of 40°F (5°C) and shall remain so for at least 24 hours after installation.

2.0 Products

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

A. Master Wall® Adhesives & Fasteners:
   1. Foam & Mesh Adhesive (F&M), F&M Plus: A 100% pure acrylic-based adhesive that is field mixed with Portland cement.
   2. Master Wall® Bagged Base (MBB), MBB Plus: A ready to use dry base that is field mixed with water.
   3. Guardian: A waterproof 100% pure acrylic-based fiber reinforced adhesive that is field mixed with Portland cement.
   4. Fastener: Wind-Lock Wind Devil 2 washer and appropriate fastener or approved equal.
B. Master Wall® Insulation Board: Molded Expanded Polystyrene insulation board manufactured to Master Wall specifications.
C. Aggre-flex Mesh: Available in Standard, Detail, Hi-Tech, Medium, Strong and Ultra.
D. Master Wall® Base Coats:
   1. Foam & Mesh Adhesive (F&M), F&M Plus.
   2. Master Wall® Bagged Base (MBB), MBB Plus.
   3. Guardian.
E. Superior Finish: 100% pure acrylic formulation with integral color and texture. Perfect, Spray, Desert Sand, R-Coarse and Refinish textures.
F. Specialty Finishes: Specialty finish blends of natural and man-made decorative specialty finishes and accents.
G. Master Wall® Coatings:
   1. Primecoat: A water-based primer.
   2. Sanded Primecoat: Sanded water-based primer.
   3. Roller-flex: A water-based architectural finish coating.

3.0 Installation

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

We finish strong.

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Superior Finishes

Textured Acrylic Finish

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

VOC: <1% by Weight
VOC: 1.4 g/l
Manufacture Locations:
30058 • 77474 • 84651
Recycled Content: 0%

Packaging: 5 gallon (19L) pail

Pail Weight:
Perfect Swirl 2.0 Perfect*, *Medium Sand 1.5 Desert Sand
70 lbs (32 kg)

Fine Sand 1.0 Spray
67 lbs (30.3 kg)

Versatex 0.5 Refinish
65 lbs (29.5 kg)

Shelf Life: 2 years

Coverage (estimated)
Perfect Swirl 2.0 Perfect
120-150 sf/pail (11-14 sm)

Fine Sand 1.0 Spray
160-170 sf/pail (15-15.8 sm)

Medium Sand 1.5 Desert Sand
130-150 sf/pail (12-14 sm)

Versatex 0.5 Refinish
Varies with Texture

new product name/old product name

More Information

Superior Finishes

To finish strong you need a Superior Finish. Master Wall finishes have 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.

- **Dirt Pickup Resistant (DPR) Polymers**
- **Quartz or Marble aggregate available**
- **64 Standard Colors**
- **Custom color matching available**

Product Test Standards
ASTM B117, ASTM E84, ASTM E108, ASTM C67, ASTM D968, ASTM D2247/ E2570, ASTM D3273, ASTM D5420, ASTM E 96, ASTM E2485/2570 (formerly EIMA 101.01), ASTM G23/G154/G155, ASTM G53

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Superior Finishes

Textured Acrylic Finish

We finish strong.

new product name/old product name

Finish Options

Superior Elastomeric Plus

Bridges hairline cracks common in stucco

Silicone Coat Additive

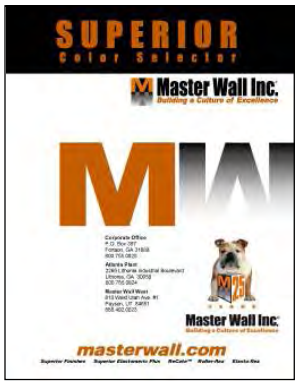
Keeps buildings cleaner

Excel Mildew Additive

Excels at Mildew Protection

Color Chart

64 Standard Colors



Custom Colors Available

new product name/old product name

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Superior Finishes

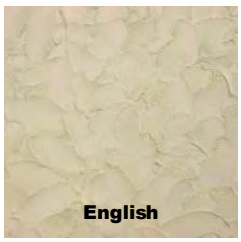
Textured Acrylic Finish

Match to SW7601 Dockside Blue

Medium Sand 1.5
Desert Sand

new product name/old product name

Versatex Texture Options



Match to SW7727 Koi Pond

Versatex 0.5 Refinish

new product name/old product name

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Superior Finishes

Textured Acrylic Finish

Temp: 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, humidity and high pigment levels

Application Procedure

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 materials within prescribed temperature limits and out of direct sunlight. 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 minimum of 28 days. Stucco should be cured until clean, dry and hard—typically 14 days with a pH of 10 or less.

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

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") 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 material. 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 for dark colored finishes 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).

Approved Substrates
Master Wall Base Coats
Stucco
Prepared & Base Coated Surfaces of:
Brick
Concrete
Masonry
Others approved in writing

Use of dark colors in high temperature climates can affect the performance of the system, especially EIFS and areas may need to be limited.

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.

Apply finish with a stainless steel trowel and draw down to the smallest aggregate

Float with a plastic float in a circular pattern

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F&M 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: <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)

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.

- **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 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 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 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 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

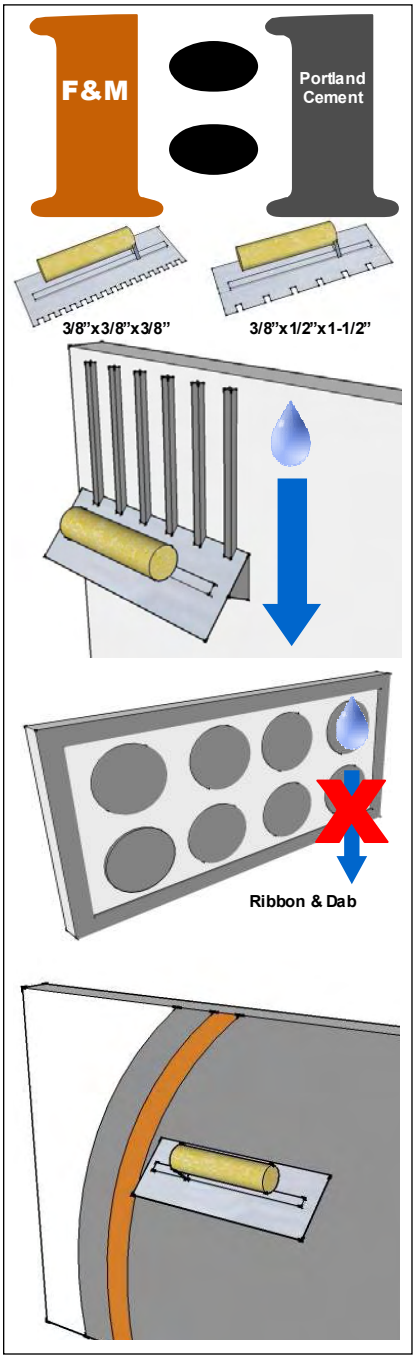
Adhesive application – Over gypsum substrates, apply the F&M mixture directly to the back of the insulation board using a 3/8"x3/8"x3/8" (9.5x9.5x9.5 mm) or a 3/8"x1/2"x1-1/2" (9.5x13x38 mm) stainless steel notched trowel. With the trowel at a 45° angle, cover the entire back of the insulation board 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 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.

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 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 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 is still wet.



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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MBB Adhesive & Base Coat

Systems
Aggre-flex EIFS
Aggre-flex 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® 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.

- **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 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 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 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 mixture.

Application

Adhesive application – Over gypsum substrates, apply the MBB 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 mixture around the entire perimeter of the insulation board. Place 8 dabs of the MBB mixture 3/8" (9.5 mm) thick by 4" (102 mm) in diameter approximately 8" (204 mm) on center inside the ribbon.

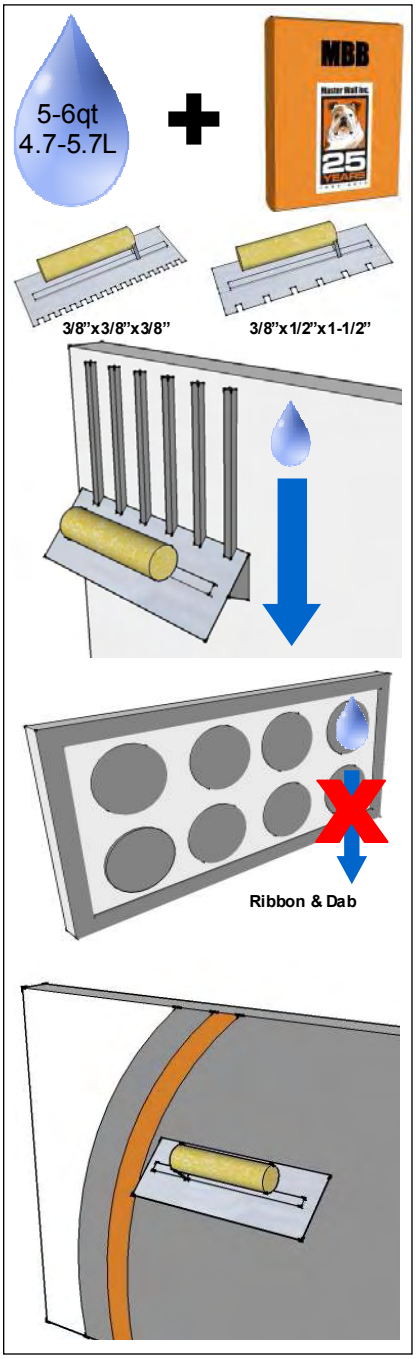
Approved Substrates

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
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 MBB 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.

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 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 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 MBB is still wet.



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Aggre-flex Mesh

Systems
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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

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.

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.

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.

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	4.5 oz/sy (113 g/sm)	38“ x 150’ (96.5cm x 45.7m)	475 sf (44.1 sm)
Hi-Tech	6.0 oz/sy (202 g/sm)	48” x 150’ (122cm x 45.7m)	600sf (55.7sm)
Medium	12.0 oz/sy (313 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 (675 g/sm)	38” x 75’ (96.5cm x 22.8m)	238 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, D578, D579, D3659, D4029, D5035, E2098, E2486 MIL-Y-1140
Weave: Leno

Impact ASTM E2486 (Formerly EIMA 101.86)			Tensile (warp/fill)
Standard Mesh	Medium Impact Resistance	50-89 in-lbs (5.7-10.1J)	140/150
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

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Aggre-flex 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.

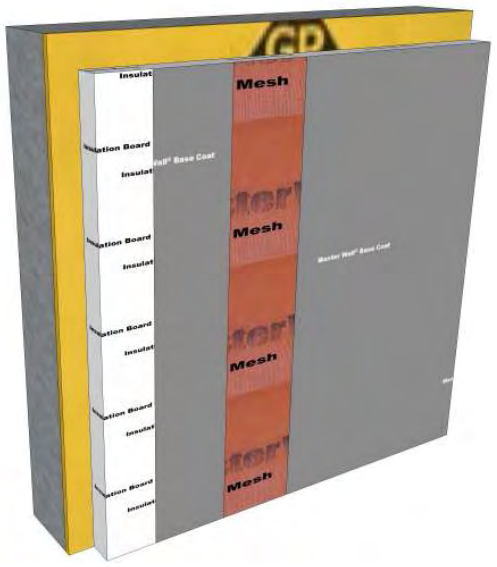
Application - All imperfections in the insulation board must be rasped flush and any gaps in the insulation board must be filled with slivers of insulation. Apply the base coat over the entire surface of the insulation board in a thickness greater than that of the Reinforcing Mesh being used, approximately 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.

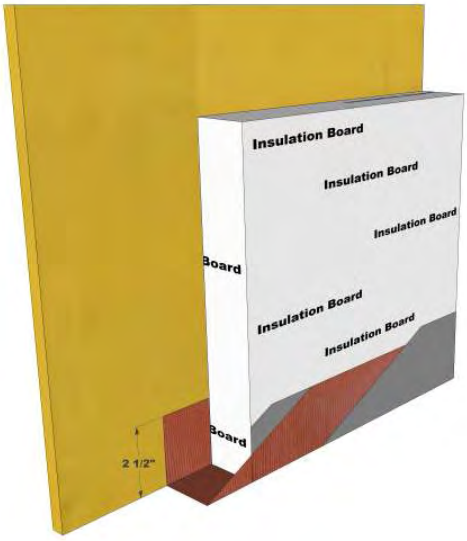
Special Conditions and Recommendations

Apply 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.



Typical Mesh Application



Typical Backwrap Condition

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Master Wall Insulation Board

Systems
Aggre-flex EIFS
Aggre-flex Drainage EIFS
Commercial Drainage EIFS
Cemplaster Stucco
OCS Fiberstucco
Rollershield Drainage EIFS
Stucco Cement Board Coatings
Trowelshield Drainage EIFS
Foam Trim

VOC: 0.06-1.05% by Weight
Manufacture Locations: varies

Packaging: 144 board foot bundles*

Coverage by Thickness:
3/4" (19.2 mm): 24 pcs, 192 sf (17.84 sm)

1" (25.2 mm): 18 pcs, 144 sf (13.38 sm)

1-1/2" (38.2 mm): 12 pcs, 96 sf (8.92 sm)

2" (50.8 mm): 9 pcs, 72 sf (6.69 sm)

3" (76.2 mm): 6 pcs, 4 8 sf (4.46 sm)

4" (101.6 mm): 5 pcs, 40 sf (3.72 sm)

*Varies by manufacturer facility

Board thickness:
Maximum 4" (102mm)
Minimum 3/4" (19.1mm)
Drainage Board 1.5" (38.2 mm)+

Board width, max.: 24" (610mm)
Board length, max.: 48" (1219mm)

Master Wall Insulation Board is a high performance insulation material that is used to wrap the entire building to keep interior temperatures more consistent. It helps to reduce thermal bridging at framing members and is easy to cut, rasp and place. It may be custom formed into various decorative shapes. Packaged in 144 board foot bundles, each bundle weights approximately 12 lbs (5.44 kg) and is available in flat or drainage configurations.

- **Reduces air movement in wall**
- **Reduces life cycle CO_2 emissions**
- **Controls dew point / moisture condensation in wall**
- **Long lasting, strong stable**
- **Contains no CFC, HCFC, HFC or formaldehyde**
- **Recyclable**
- **Cost effective**

Insulation Type	Density (pcf, minimum)	R-Value (U-Value) @75°F (9°C)	R-Value (U-Value) @40°F (4°C)
Standard Type I	0.90	3.6 (0.28)	4.0 (0.25)
Special Type II	1.35	4.0 (0.25)	4.6 (0.22)
Special Type VIII	1.15	3.8 (0.26)	4.2 (0.24)

Product Test Standards
ASTM C578, ASTM 273, ASTM E2340, ASTM E2566

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Master Wall Insulation Board

Application Procedure

Job Conditions - Follow directions on adhesive data sheets. Mechanical attachment of insulation boards may be performed at lower temperatures over a dry surface.

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. Rasping of the Insulation Board is completed with 12 grit sandpaper, manually or with air or electric rasping machines.

Follow data sheet recommendations for adhering insulation board to approved substrates. For mechanical attachment, fasten the Insulation Board to the approved substrate using Wind-Lock Wind-Devil 2 retainers. See Master Wall System Details for more information. Fastening patterns shall be determined by the requirements of the geographical conditions of the area, local code requirements, and the performance of the fasteners, retainers and their test results in conjunction with the specified substrate and the thickness of insulation board specified for use. Minimum 1" (25.2 mm) thickness for mechanically attached systems.

Install insulation board on the wall according to specification requirements. For further information and details, see the Master Wall System Application Instructions.

Limitations

The minimum required thickness for insulation board in the Master Wall Aggre-flex EIF System is ¾" (19.2 mm) at any location on the wall.

MEPS shall not be used in interior applications.

Residential applications require a secondary water barrier with the option of flat insulation board with profiled water barriers or drainage insulation board. See Aggre-flex Drainage Details for insulation board construction.

Classification: Type I

Density, lb/ft3 (kg/m^3):
0.90 (14.4) min., 1.25 (20.0) max.

Thermal Resistance per inch (25.4mm) thickness, min. Fft^2.h/Btu (K*m^2/W):

@75ºF (23.9ºC) 3.60 (0.63) U=.28

Compressive strength, min., PSI (kPa): 10.0 (69)

Flexural Strength, min., PSI (kPa) : 25.0 (172)

Water Vapor Permeance of 1.00 in (25.2 mm) thickness, max., perm (ng/Pa.s.m^2): 5.0 (2.87)

Water absorption by total immersion, max., volume, % : 4

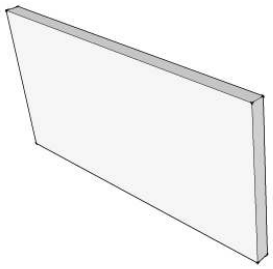
Dimensional stability (change in dimensions), max., %: 2.0

Oxygen index, min., volume, %: 24.0

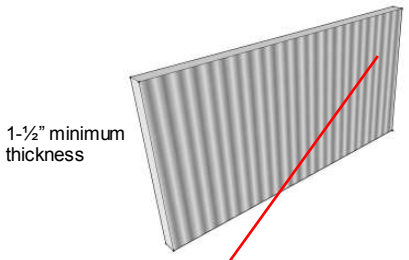
Flame spread, max.: 25.0

Smoke development, max. 450

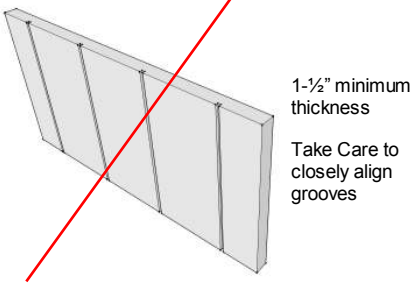
Flat Insulation Board



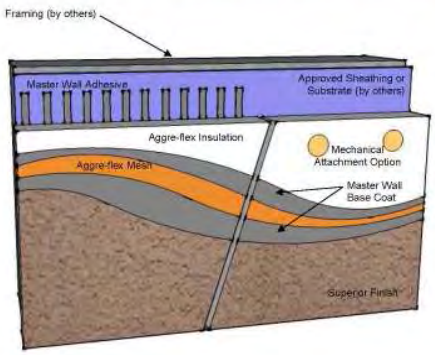
Wavy Insulation Board



Grooved Insulation Board



Attachment Methods



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Fasteners & Plates

Master Wall Systems

There are a variety of fastening products available today. In fact, there are so many it's difficult to tell what fastener and plate to use with what system. Below is a listing of approved plates for Master Wall EIF Systems along with a screw length calculator.

All fastening systems must be applied according to Master Wall instructions. Please reference the system detail drawings and specifications for approved fastening methods and call Master Wall for any special conditions or questions.

Approved Plates

Manufacturer	Aggre-flex EIFS Aggre-flex Drainage EIFS	QRW1 Drainage EIFS	Master Wall OCS Fiberstucco (One Coat Stucco) and Cemplaster Stucco*
Buildex www.itwbuildex.com	Gridmate PB	Gridmate	Gridmate
Demand Products www.demandproducts.com	PB Washer PBH Washer Gridmaster Washer	DP300 DP400	DP300 Tab Washer
Wind-Lock www.wind-lock.com	Wind Devil 2	ULP302 ULP402	ULP302 Lath Lock Bugle Head Screw

*Plates are optional for standard applications, recommended over continuous insulation.

Wind Devil 2 Plates

ULP 302 & 402 Plates

Lath Lock Plates

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Fasteners & Plates

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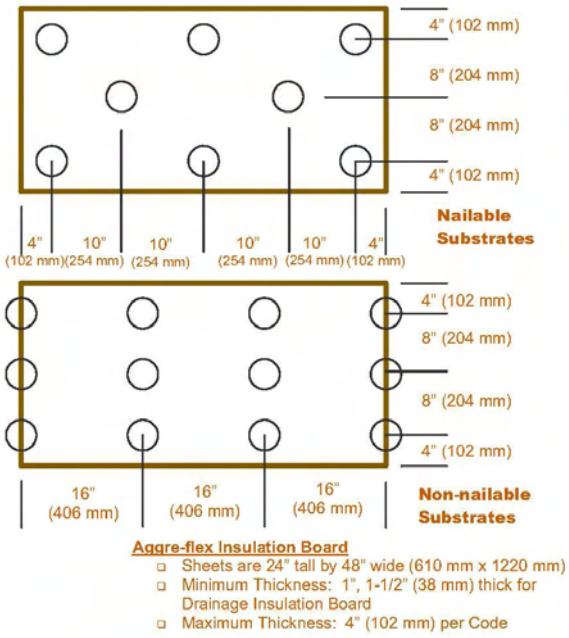
Fastener Length Calculator for EIFS

Calculate the fastener size for your project

Fastener Type	Insulation Thickness (1" to 4" - Aggre-flex, 5/8" to 2" QRW1)	+ Sheathing Thickness	+ Minimum Penetration	= Total Length	Available Sizes (Courtesy Wind-Lock)
Wood		Gypsum ½" to 5/8"	¾"		1-5/8", 2", 2-1/2", 3", 3-3/4", 4-1/2"
Wood		Plywood ½" to ¾"	¼"		1-5/8", 2", 2-1/2", 3", 3-3/4", 4-1/2"
Light Metal			¼"		1-5/8", 2-1/4", 2-5/8", 3", 4", 4-1/2"
Steel		Gypsum ½" to 5/8"	¼"		1-5/8", 2", 2-5/8", 3", 3-3/4", 4-3/8"5", 6", 7", 8"
Masonry			1" to 1-3/4" (Pre-drill hole ½" deeper than fastener penetration)		1-3/4", 2-1/4", 2-3/4", 3-1/4", 4"

For Master Wall Stuccos metal lath fasteners must penetrate a minimum of 3/4" into wood framing members, 3/8" into metal framing and 3/4" into brick, masonry and concrete. Fasten 6" vertically and 16" horizontally.

Aggre-flex Drainage™ EIFS

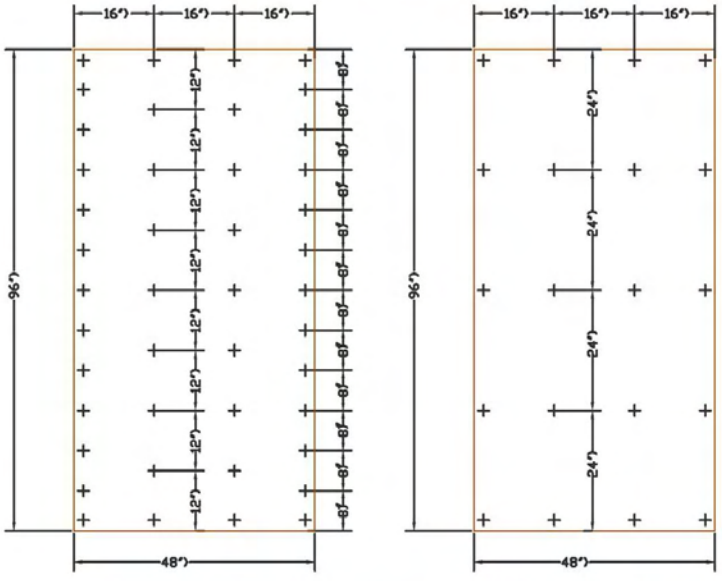


Aggre-flex Insulation Board

- Sheets are 24" tall by 48" wide (610 mm x 1220 mm)
- Minimum Thickness: 1", 1-1/2" (38 mm) thick for Drainage Insulation Board
- Maximum Thickness: 4" (102 mm) per Code

AFD-1D Fastening Patterns

QRW1 Drainage EIFS



Wood Substrates

Masonry Substrates

QR-04 Insulation Board Fastening

Master Wall, Inc
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Aggre-flex EIFS

5 Year Labor & Material Limited Warranty

Master Wall Inc. warrants the properly designed and installed Aggre-flex 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. 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.

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Master Wall Guide Specification AF
Aggre-flex EIFS

PART I – GENERAL

1.01 SUMMARY

A. This document is to be used in preparing specifications for projects utilizing the Master Wall Inc.® Aggre-flex Class PB (polymer-based) Exterior Insulation and Finish System (EIFS) designed to provide continuous insulation for the wall assembly. Related Master Wall Inc.® documents:

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

B. Related Sections

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

1.02 SUBMITTALS

A. Manufacturer's specifications, details, installation instructions and product data
B. Manufacturer’s code compliance report
C. Manufacturer's standard warranty
D. Applicator's industry training credentials
E. Samples for approval as directed by architect or owner
F. Sealant manufacturer's certificate of compliance with ASTM C 1382
G. Prepare and submit project-specific details (when required by contract documents)

1.03 REFERENCES

A. ASTM Standards:

ASTM B117 (Federal Test Standard 141A Method 6061) Standard Practice for Operating Salt Spray (Fog) Apparatus
ASTM C150 Standard Specification for Portland Cement
ASTM C297 Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions
ASTM C578 Specification for Preformed Cellular Polystyrene Thermal Insulation
ASTM C1177 Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing
ASTM C1396 (formerly C 79) Standard Specification for Gypsum Board
ASTM D968 (Federal Test Standard 141A Method 6191) Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive

ASTM D1784 Specification for Rigid Poly (Vinyl Chloride) (PVC) and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds
ASTM D2247 (Federal Test Standard 141A Method 6201) Standard Practice for Testing Water Resistance of Coatings in 100% Relative Humidity
ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
ASTM E96 Test Methods for Water Vapor Transmission of Materials
ASTM E330 Test Method for Structural Performance of Exterior Windows, Doors and Curtain Walls by Uniform Static Air Pressure Difference
ASTM E331 Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference.
ASTM E2098 Test Method for Determining Tensile Breaking Strength of Glass Fiber Reinforcing Mesh for Use in Class PB Exterior Insulation and Finish System after exposure to Sodium-Hydroxide Solution
ASTM E2134 Test Method for Evaluating the Tensile-Adhesion Performance of an Exterior Insulation and Finish System (EIFS)
ASTM E2178 Test Method for Air Permeance of Building Materials
ASTM E2357 Standard Test Method for Determining Air Leakage of Air Barrier Assemblies
ASTM E2485 (formerly EIMA Std. 101.01) Standard Test Method for Freeze-Thaw Resistance of Exterior Insulation and Finish Systems (EIFS) and Water-Resistive Barrier Coatings
ASTM E2486 (formerly EIMA Std. 101.86) Standard Test Method for Impact Resistance of Class PB and PI Exterior Insulation and Finish Systems (EIFS)
ASTM E2568 Standard Specification for Class PB Exterior Insulation and Finish Systems
ASTM G23 Standard Practice for Operating Light-Exposure Apparatus (Carbon-Arc Type) with and without Water for Exposure of Nonmetallic Materials
ASTM G53 Practice for Operating Light- and Water-Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials

B. Building Code Standards
Acceptance Criteria for EIFS Clad Wall Assemblies

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

D. Other Referenced Documents
American Association of Textile Chemists and Colorists AATCC-127 Water Resistance: Hydrostatic Pressure Test
APA Engineered Wood Association E30, Engineered Wood Construction Guide
UES Evaluation Report 433, Master Wall EIF Systems

1.04 SYSTEM DESCRIPTION

A. General: The Master Wall Inc.® Aggre-flex System is a continuously insulated (CI) Exterior Insulation and Finish System, Class PB (polymer-based), consisting of adhesive or mechanical fasteners, expanded polystyrene insulation board, base coat, reinforcing mesh(es) and finish. The System shall be attached over an approved substrate and air/water barrier in accordance with the Aggre-flex application Details.

B. Methods of Installation

1. Field Applied: The Aggre-flex System is applied to the substrate system in place.
2. Panelized: The Aggre-flex System is shop-applied to the prefabricated wall panels.

C. Design Requirements

1. Acceptable substrates for the Aggre-flex System shall be:
   a. Exterior sheathing having a water-resistant core with fiberglass mat facers meeting ASTM C 1177.
   b. Exterior fiber reinforced cement or calcium silicate boards.
   c. APA Exterior or Exposure 1 Rated Plywood, Grade C-D or better, nominal 12.7 mm (1/2 in), minimum 4-ply.
   d. Unglazed, unpainted brick, cement plaster, concrete, or masonry.
   e. APA Exposure 1 rated Oriented Strand Board (OSB) or plywood, nominal 12.7 mm (1/2 in).
   f. Other substrates approved in writing from the manufacturer.
2. Deflection of substrate systems shall not exceed 1/240 times the span.
3. The substrate shall be flat within 6.4 mm (1/4 in) in a 3.05 m (10 ft) radius.
4. The slope of inclined surfaces shall not be less than 6:12, and the length shall not exceed 305 mm (12 in).
5. All areas requiring an impact resistance classification higher than “medium”, as defined by ASTM E 2486 (formerly EIMA Std. 101.86), shall be as detailed in the drawings and described in the contract documents.
6. Expansion Joints
   a. Design and location of expansion joints in the Aggre-flex System is the responsibility of the project designer and shall be noted on the project drawings. As a minimum, expansion joints shall be placed at the following locations:
      1) Where expansion joints occur in the substrate system.
      2) Where building expansion joints occur.
      3) At floor lines in wood frame construction (Reference Technical Bulletin #140).
      4) At floor lines of non-wood framed buildings where significant movement is expected.
      5) Where the Aggre-flex System abuts dissimilar materials.
      6) Where the substrate type changes
      7) Where prefabricated panels abut one another
      8) Where significant structural movement occurs such as changes in roofline, building shape or structural system.
7. Terminations
   a. Interior foam expanding foam sealant may be required behind penetration openings.
   b. The Aggre-flex System shall be held back from adjoining materials around openings and penetrations such as windows, doors and mechanical equipment a minimum of 12.7 mm (1/2 in) for sealant application. Sealant joints shall be properly sized and designed for their anticipated movement (Reference Master Wall Inc.® Technical Bulletins #148 & 149).
   c. The system shall be terminated a minimum of 152 mm (6 in) above finished grade.
   d. Sealants
      1) Shall be manufactured and supplied by others.
      2) Shall be compatible with Aggre-flex System materials. Refer to current Master Wall Inc.® Technical Bulletin #131 for listing of sealants approved by sealant manufacturer for use with EIFS.
      3) The sealant backer rod shall be of closed cell.
8. 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.

9. Dark Colors - The use of dark colors must be considered in relation to wall surface temperature as a function of local climatic conditions. Use of dark colors in high temperature climates can affect the performance of the system.
10. 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 Aggre-flex System and wall system.

1.05 PERFORMANCE REQUIREMENTS

A. Aggre-flex System shall have been tested as follows:

EIFS Weather Resistance and Durability Performance*

TEST	METHOD	CRITERIA	RESULTS
1. Accelerated Weathering	ASTM G153 (Formerly ASTM G23)	No deleterious effects at 2000 hours when viewed under 5x magnification	Pass
2. Accelerated Weathering	ASTM G154 (Formerly ASTM G53)	No deleterious effects at 2000 hours	Pass
3. Freeze/Thaw Resistance	ASTM E2485	No deleterious effects at 10 cycles when viewed under 5x magnification	Pass
4. Water Penetration	ASTM E331 (modified per ICC-ES AC 235)	No water penetration beyond the plane of the base coat/insulation board interface after 15 minutes at 6.24 psf (299 Pa) or 20% of design wind pressure, whichever is greater	Pass at 2.86 psf (137 Pa), 6.24 psf (299 Pa), and 12.0 psf (575 Pa) consecutively
5. Water Resistance	ASTM D2247	No deleterious effects at 14 day exposure	Pass @ 28 days
6. Salt Spray	ASTM B117	No deleterious effects* at 300 hours	Pass @ 300 hrs
7. Abrasion Resistance	ASTM D968	No cracking or loss of film integrity at 528 quarts (500 L) of sand	Pass
8. Mildew Resistance	ASTM D3273	No growth supported during 28 day exposure period	Pass
9. Impact Resistance	ASTM E2486	Level 1: 25-49 in-lbs (2.83-5.54J) Level 2: 50-89 in-lbs (5.65-10.1J) Level 3: 90-150 in-lbs (10.2-17J) Level 4: >150 in-lbs (>17J)	Pass with one layer Standard Mesh Pass with one layer Standard Mesh Pass with Medium & Standard Mesh Pass with Strong & Standard Mesh
10. Transverse Wind Load	ASTM E330	Withstand positive and negative wind loads as specified by the building code.	Pass. Assemblies vary from 68-287 psf*

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

EIFS Fire Performance

TEST	METHOD	CRITERIA	RESULT
1. Fire Endurance	ASTM E119	Maintain fire resistance of existing rated assembly	See Technical Bulletin MW#168-030111 for assemblies
2. Radiant Heat Ignition	NFPA 268	No ignition @ 20 minutes	Pass
3. 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

EIFS Component Performance

TEST	METHOD	CRITERIA	RESULT
1. Alkali Resistance of Reinforcing Mesh	ASTM E2098 (formerly EIMA 105.01)	Greater than 120 pli (21 dN/cm) retained tensile strength	Pass
2. Requirements for Rigid PVC Accessories	ASTM D1784	Meets cell classification 13244C	Pass
EPS (Physical Properties)	ASTM C303, D1622		Pass
Thermal Resistance	ASTM C272	4.0 @ 4.4 ℃ (40 ℉) 3.6 @ 23.9 ℃ (75 ℉)	Pass
Flame Spread Smoke Developed	ASTM E84	25 max. 450 max.	Pass

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.® Aggre-flex System and shall be experienced and competent in the installation of Exterior Insulation and Finish Systems. Additionally, the contractor shall possess a current Master Wall Inc.® applicator certificate issued by Master Wall Inc.®
3. Insulation Board Manufacturer: Shall be approved by Master Wall Inc.®, shall be capable of producing the Expanded Polystyrene (EPS) in accordance with current Master Wall Inc.® specification and code requirements and have a third party quality assurance program in place.

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

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

D. Mock-Up
1. The contractor shall, before the project commences, provide the owner/architect with a mock-up for approval.

2. The mock-up shall be of suitable size as required to accurately represent the products being installed, as well as each color and texture to be utilized on the project.
3. The mock-up shall be prepared with the same products, tools, equipment and techniques required for the actual application. The finish used shall be from the same batch that is being used on the project.
4. The approved mock-up shall be available and maintained at the job site.
5. For panelized construction, the mock-up shall be available and maintained at the panel fabrication location.

1.07 DELIVERY, STORAGE AND HANDLING

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

1.08 PROJECT CONDITIONS

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

1.09 SEQUENCING AND SCHEDULING

A. Installation of the Aggre-flex System shall be coordinated with other construction trades.
B. Sufficient manpower 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 Aggre-flex System shall be supplied or obtained from Master Wall Inc.® or its authorized distributors. Substitutions or additions of materials other than specified will void the warranty.

2.02 MATERIALS

A. Portland Cement: Shall be Type I or II, meeting ASTM C 150, white or gray in color, fresh and free of lumps.
B. Water: Shall be potable, clean and free of foreign matter.
C. Metal Flashing Components: Complying with SMACNA Recommendations. Reference Section 07620.
D. Sealant Systems: Reference Sealant Specification, Section 07900.
E. Window & Door Systems: Detailed by the designer and suitable for EIFS. Reference Section 08000.

2.03 COMPONENTS

(Typical Application/Optional Component)

A. Starter Tracks/Casing
   1. Vinyl Corp. foundation sill screed product #WS50-250U, Plastic Components Product # 632-50, Amico Foundation Weep Screed AMFWS425-500, Amico Foundation Weep Screed (NO. 7) or approved equal.
   2. Vinyl Corp. PB Starter Strip/Casing Bead product # CBS 150-16W or Plastic Components Starter Trac product # STWP-15 shall be used in accordance with Master Wall Inc.® details.
   3. Alternate termination methods may be used in accordance with Master Wall Inc.® details and recommendations.

B. Mechanical Fasteners and Plastic Washers
   1. The Wind-Devil 2 plate or approved equal shall be used with the appropriate corrosion-resistant fastener shall be used to meet the requirements of the specific project, local building code and the anticipated wind loads.

C. Adhesives
   1. Master Wall Inc. Foam & Mesh (F&M) Adhesive: An acrylic-based product mixed one-to-one by weight with Portland cement designed for use with reinforcing mesh as the base coating over the insulation board.
   2. Master Wall Bagged Base Coat (MBB): A polymer based cementitious product mixed with 5 to 6 quarts of water for use as an adhesive and base coating over the insulation board.
   3. F&M Plus: An acrylic-based high build product mixed one-to-one by weight with Portland cement designed for use with reinforcing mesh as the base coating over the insulation board. (This product shall be used where indicated on the construction drawings when a leveling base coat is required.)
   4. Expanded PolyStyrene Adhesive (EPSA): a water-based acrylic copolymer adhesive formulated to bond MEPS insulation board to plywood and other approved substrates.

D. Insulation Board
   1. Insulation Board shall meet or exceed ASTM C-578.
   2. Nominal 1.0 pcf, aged expanded polystyrene.
   3. Flamespread and smoke development shall be 25 and 450 or less respectively per ASTM E-84.
   4. Maximum size 2'x4'x4" (.61 m x 1.22 m x 102 mm). Refer to actual contract documents to determine actual insulation board thickness.

E. Reinforcing Mesh

   Open weave glass fiber fabric, treated for alkaline resistance and compatibility with Master Wall Base Coats, and conforming ASTM D-76, D-579, D-5035, MIL-Y-1140 and meeting a minimum Medium Impact Resistance (50-89 in-lbs) when tested to EIMA 101.86 Impact Resistance Standards.
      1. Detail Mesh
      2. Standard Mesh
      3. Hi-Tech Mesh
      4. Medium Mesh
      5. Strong Mesh
      6. Ultra Mesh

F. Base Coats
1. Master Wall Inc.® Foam & Mesh (F&M) Adhesive: An acrylic-based product mixed one-to-one by weight with Portland cement for use with reinforcing mesh as the base coating over the insulation board.
2. Master Wall Bagged Base Coat (MBB): A polymer based cementitious product mixed with 5 to 6 quarts of water for use with reinforcing mesh as the base coating over the insulation board.
3. F&M Plus: An acrylic-based high build product mixed one-to-one by weight with Portland cement designed for use with reinforcing mesh as the base coating over the insulation board. (This product shall be used where indicated on the construction drawings when a leveling base coat is required.)
4. Expanded Polystyrene Base (EPSB): a 100% pure acrylic polymer based noncementitious base coat.

G. Water Resistant Adhesive & Base Coat
1. Guardian – An acrylic-based product mixed one-to-one by weight with Portland cement for use as the adhesive to bond insulation board to an approved substrate and/or as a base coat with reinforcing mesh over insulation board. (This product should be used as designated on the construction drawings where additional resistance to moisture is needed.)

H. Primer – Especially useful under dark colors
1. Primecoat Primer - Acrylic-based tintable primer
2. Sanded Primecoat Primer - Acrylic-based tintable primer with sand

I. 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. Perfect2.0 (Perfect) - riled texture
2. Fine Sand 1.0 (Spray) – sand type texture
3. Medium Sand 1.5 (Desert Sand) – coarse sand texture
5. Versatex 0.5 (Refinish) – Fine texture used to create numerous finishes

J. Finish Enhancements
1. Silicone Coat - Factory added silicone enhancement for better water resistance and to keep buildings cleaner.
2. Excel Mildew Enhancement - Factory added mildew booster exceeding ASTM D3273 requirements.
3. Elastomeric Plus - Increases flexibility and bridges minor hairline cracks.

K. Specialty Finishes
1. Superior Stone
2. Aggrestone
3. Lumia
4. Plaster Flex
5. Metallic Cote
6. Savannah
7. Marbleflex
8. Travertine
9. Eco Glass
10 Aggrelime
11. Brick Finish System

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

PART III – EXECUTION

3.01 EXAMINATION

A. Prior to installation of the Aggre-flex System, the contractor shall verify that the substrate:
   1. Is of a type listed in Section 1.04.C.1.
   2. Is flat within 6.4 mm (1/4 in) in a 3 m (10 ft) radius.
   3. Is sound, dry, connections are tight, has no surface voids, projections or other conditions that may interfere with the Aggre-flex System installation or performance.

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

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

3.02 PREPARATION

A. Aggre-flex 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 Aggre-flex installation.

C. The substrate shall be prepared as to be free of foreign materials, such as, oil, dust, dirt, form release agents, efflorescence, paint, wax, water repellents, moisture, frost and any other condition that inhibit adhesion.

3.03 GENERAL GUIDELINES

A. The system shall be installed in accordance with the current Master Wall Inc.® Aggre-flex System Application Instructions.

B. The overall minimum base coat thickness shall be sufficient to fully embed the mesh.

C. Sealant shall not be applied directly to textured finishes.

D. When installing the Aggre-flex System, adhere according to Master Wall Inc.® and local requirements.

3.04 AGGRE-FLEX EIFS INSTALLATION

A. Design Considerations
   1. The minimum slope of inclined surfaces shall not be less than 6” (152 mm) in 12” with a maximum length of 12” unless approved in writing by Master Wall Inc.®. Inclined surfaces which are or could be defined as roofs by the building codes or application are not approved by Master Wall Inc.®
   2. The use of dark colors must be considered in relation to wall surface temperature as a function of local climatic conditions.
   3. The Insulation Board shall be separated from the interior of the building by a 15-minute thermal barrier.
   4. The use and maximum thickness of insulation board shall be in accordance with the applicable building codes, typically ¾” (19 mm) minimum and 4” (102 mm) maximum.
   5. The EIF System shall be recognized by a current code report.
   6. It is the responsibility of the architect and the purchaser to determine if a product is suitable for their intended use. The architect or designer of the project shall be responsible for all decisions pertaining to the design, details, structural capability, attachment details, shop drawings and the like. Master Wall Inc.® has prepared specifications, details and data sheets to assist as guidelines for the use and installation of the products. Master Wall Inc.® is not responsible for the design, details, structural capability, attachment details and shop drawings whether it is based on Master Wall Inc.® information or not.

7. Expansion joints in the system are required at building expansion joints, at prefabricated panel joints, where substrates change, at floor lines in wood framed construction, and where structural movement is anticipated. Reference construction documents for exact locations.
8. Aesthetic Joints may be installed to provide sufficient break points in the EIF System to prevent cold joints from occurring in the finish coat. Aesthetic joints shall not be used in lieu of an expansion joint

B. Mixing
1. Mix the products following the instructions on the product data sheets.
2. Additives shall not be added to Master Wall Inc.® materials unless written approval has been received from Master Wall Inc.®

C. Preparation
1. Protect contiguous work from damage during application of the Aggre-flex EIF System. Temporary covering may be required to prevent over spray or splattering of exterior finish coatings on other work.
2. Protect substrate from inclement weather during installation. Prevent infiltration of moisture behind the system that may affect the substrate or the attachment of the insulation board to the substrate.
3. Adhesive, Base Coats and Finishes shall not be installed when ambient air temperature is below 40ºF (4ºC). The temperature shall remain at or above 40ºF (4ºC) during mixing, application and until materials have cured.
4. Sufficient scaffolding, manpower and tools shall be provided to prevent cold joints.
5. 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 insulation board and wall system. All flashing materials should direct the water to the exterior face of the finished system.

D. Installation, General
1. Reference architectural details for full wall system requirements.
2. Comply with the manufacturers' current published instructions, (specifications, details, data sheets and technical bulletins) for the installation of the Aggre-flex EIF System.
3. Comply with local building codes.
4. Verify that all flashings and other items are in place.

E. Starter Track or Casing Option
1. Install the starter track, casing or alternate termination method where the system ends at the foundation. Install track at least 6" (152 mm) above grade, at least ¾" (19 mm) above structurally supported paving/patios, or at least 2" (51 mm) above unsupported patios
2. Backwrap details are used in accordance with Master Wall Inc.® details.
3. Alternatively, casing beads can be installed at other areas such as around window and door openings.

F. Backwrapping
1. Adhesively or mechanically secure reinforcing detail or standard mesh to the substrate positioned so that a minimum of 2 ½" (63.5 mm) of the mesh is onto the substrate. (The reinforcing mesh shall be wide enough to encapsulate the edge of the insulation board and cover both the substrate and the face of the insulation board a minimum of 2 ½".)
2. After the insulation board is applied, complete the backwrapping procedure by applying the base coat, embedding the remaining mesh and returning it onto the face of the insulation board.
3. Where sealants are applied the reinforcing mesh color shall not be visible and the texture of the base coat shall be smooth so that the pattern of the mesh is covered.
4. Apply finish in accordance with manufacturer's details. (Finish shall not be applied to areas where the design professional has anticipated dynamic movement or at an EIFS to EIFS joint.).

3.05 FIELD QUALITY CONTROL

A. The contractor shall be responsible for the proper application of the Aggre-flex 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 EPS supplier shall certify in writing that the EPS meets Master Wall Inc.® specifications.
E. If required, the sealant contractor shall certify in writing that the sealant application is in accordance with the sealant manufacturer's and Master Wall Inc.® recommendations.
F. Master Wall Inc.'s current published details, specifications, data sheets, technical bulletins and other literature/information are minimum standards and guidelines that shall be followed when designing and detailing a project with the Aggre-flex EIF System.
G. Details shall conform to Master Wall Inc.'s details and shall be consistent with the project requirements.
H. Master Wall Inc. must approve deviations from the standard published details in writing.
I. The architect, engineer or the designer of the project should determine where the dew point would occur in relationship to the wall assembly and the project location during summer and winter conditions.
J. Drip details shall be specified in accordance with Master Wall Inc.'s published details.
K. At all locations the reinforced base coat, trim accessories or the substrate shall encapsulate the approved insulation board.

3.06 INSULATION APPLICATION

A. Insulation Application - Adhered
1. Notched Trowel Method - Foam & Mesh (F& M) Adhesive, Master Wall Bagged Base Coat (MBB), F&M Plus shall be applied to the entire surface of one face of the approved insulation board.
2. Apply the adhesive mixture directly to the back of the insulation board using approved 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.
3. Do not adhere the edges of the insulation board to each other.
4. Apply the approved insulation board over a dry substrate with the long edge oriented horizontally.
5. The application of the insulation board shall commence at the base of the wall from a level line of support.
6. After the adhesive has been applied to insulation board it shall be installed by sliding it into place until it abuts adjoining insulation board.
7. Uniform pressure shall be applied over the entire surface of the insulation board to achieve contact with the substrate. Periodically check the contact of the adhesive to the substrate by removing a piece of insulation board. Proper adhesive contact should be demonstrated by the evidence of similar amounts of adhesive adhered to both the insulation board and the substrate. The cohesive break should occur when the board is removed. If the cohesive break had occurred prior to the adhesive set the substrate is more than likely out of plane and should be corrected to meet minimum standards of this specification. If a cohesive failure does not occur contact a Master Wall representative.
8. The insulation board shall be installed in a running bond pattern with staggered vertical joints.
9. Insulation boards shall be interlocked at the inside and outside corners.
10. Insulation board joints shall be offset from the sheathing joints a minimum of 6" (152 mm).
11. Insulation board joints shall be offset from the corners of openings.
12. Allow for proper spacing at windows, doors, penetrations and other openings so that sealant systems can be installed in accordance with Master Wall Inc.® specification, details and the construction documents.
13. Provide a proper joint through insulation board where expansion joints occur in substrates and where required in the system.
14. Wrap mesh in or around details in accordance with Master Wall Inc.® instructions.
15. The insulation board shall be butted tightly. Any gaps greater than 1/16" (1.6 mm) between insulation boards shall be filled with slivers of insulation board. Adhesive shall not be used to adhere foam when filling gaps.
16. Gaps between insulation boards shall not be filled with adhesive or base coat materials.
17. Allow adhered insulation to remain undisturbed for a period of 12 hours prior to rasping the foam.

B. Insulation Application - Mechanically Attached

1. Fasten the insulation board using Wind-lock Wind-Devil 2 or approved washer and appropriate corrosion-resistant fastener. Master Wall Inc. must approve other mechanical fastening systems in writing prior to use with the Aggre-flex System.
2. Fastening patterns shall be determined by the requirements of the geographical conditions of the area, local code requirements and the performance of the fasteners, washers and their test results in conjunction with the specified substrate and the thickness of foam specified for use.

C. Apply the approved insulation board over a dry substrate with the long edge oriented horizontally.
D. The application of the insulation board shall commence at the base of the wall from a level line of support at the casing bead or termination.
E. The insulation board shall be installed in a running bond pattern with staggered vertical joints.
F. Insulation boards shall be interlocked at the inside and outside corners.
G. Insulation board joints shall be offset from the sheathing joints a minimum of 6” (152 mm).
H. Insulation board joints shall be offset from the corners of openings.
I. Allow for proper spacing at windows, doors, penetrations and other openings so that sealant systems can be installed in accordance with Master Wall Inc.’s specification, details and the construction documents.
J. Provide a proper joint through insulation board where expansion joints occur in substrates and where required in the system.
K. Wrap mesh in or around details in accordance with Master Wall Inc. instructions.
L. The insulation board shall be butted tightly. Any gaps greater than 1/16” (1.6 mm) between insulation boards shall be filled with slivers of insulation board. Adhesive shall not be used to adhere foam when filling gaps.
M. Gaps between insulation boards shall not be filled with adhesive or base coat materials.
N. Rasp the entire surface of the insulation board to level any irregularities. All irregularities greater than 1/16” (1.6 mm) shall be sanded flat.
O. Cut aesthetic joints as indicated on construction drawings. Always maintain a minimum ¾” (19 mm) of insulation board under aesthetic joints.
P. Spot fasteners with base coat and allow to dry.
Q. Clean rasped insulation board in preparation for base coat application.

3.07 BASE COAT APPLICATION

A. Base Coat Preparation
1. Inspect adhered insulation board to ensure the installation meets the requirements set forth in Master Wall Inc.® specification, details, data sheets, technical bulletins and the construction documents. Make necessary repairs to ensure the installation meets the requirements prior to commencement of the base coat application.
2. Fill any gaps in the insulation board with slivers of insulation.
3. Rasp the insulation board to provide a true surface within specifications. If the foam is yellowed or has developed a powdery film due to sun exposure the foam must be rasped and cleaned prior to the base coat application.
4. Complete the backwrapping at all system terminations by embedding the reinforcing mesh as described in Section 3.06 of this specification.
5. Install minimum 9 ½” x 12” (229x309 mm) diagonal reinforcement at all windows, doors, louvers, or other penetration corners. Apply field mesh as soon as possible after diagonal mesh application.
6. Reference architectural documents for locations of designed impact classifications.

B. Base Coat Application
1. Apply the base coat to the entire surface of the insulation board to the thickness required for the specified reinforcing mesh to be applied in a given area.
   a. Standard, Detail and Hi-Tech Mesh require a nominal 1/16” (1.6 mm).
   b. Medium, Strong and Ultra Mesh requires a nominal 3/32” (2.4 mm).
2. 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.
3. Lap mesh 2 ½” (64 mm) minimum on all sides. (Do not lap Strong or Ultra mesh.)

4. Reinforcing Mesh shall be continuous through all interior and exterior corners extending beyond the corner a minimum of 12” from both directions creating a minimum of two layers of standard reinforcing mesh on all interior and exterior corners.
5. Standard and Hi-Tech reinforcing mesh can be applied in a single layer.
6. Medium Mesh can be applied in one layer yet it may require an additional coat of base coat mixture to properly embed the mesh after the first coat has dried.
7. Strong and Ultra Mesh require a second layer of base coat reinforced with Standard or Hi-Tech Mesh.
8. EPS shapes shall have reinforcing mesh embedded into the base coat.
9. Allow the base coat to cure a minimum of 12 hours prior to additional base coat or finish coat applications.

3.08 FINISH COAT APPLICATION

A. Superior Finish Coat Application
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 manpower 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. (Versatex 0.5 cannot be floated easily. A second application of the Versatex 0.5 may be applied to create the desired texture.)
4. 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 90º 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.
5. Specialty Finishes: Follow individual product data sheet application instructions.

3.09 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).

3.10 PROTECTION

A. Aggre-flex 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.

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Aggre-flex™ EIFS

Conceptual Details

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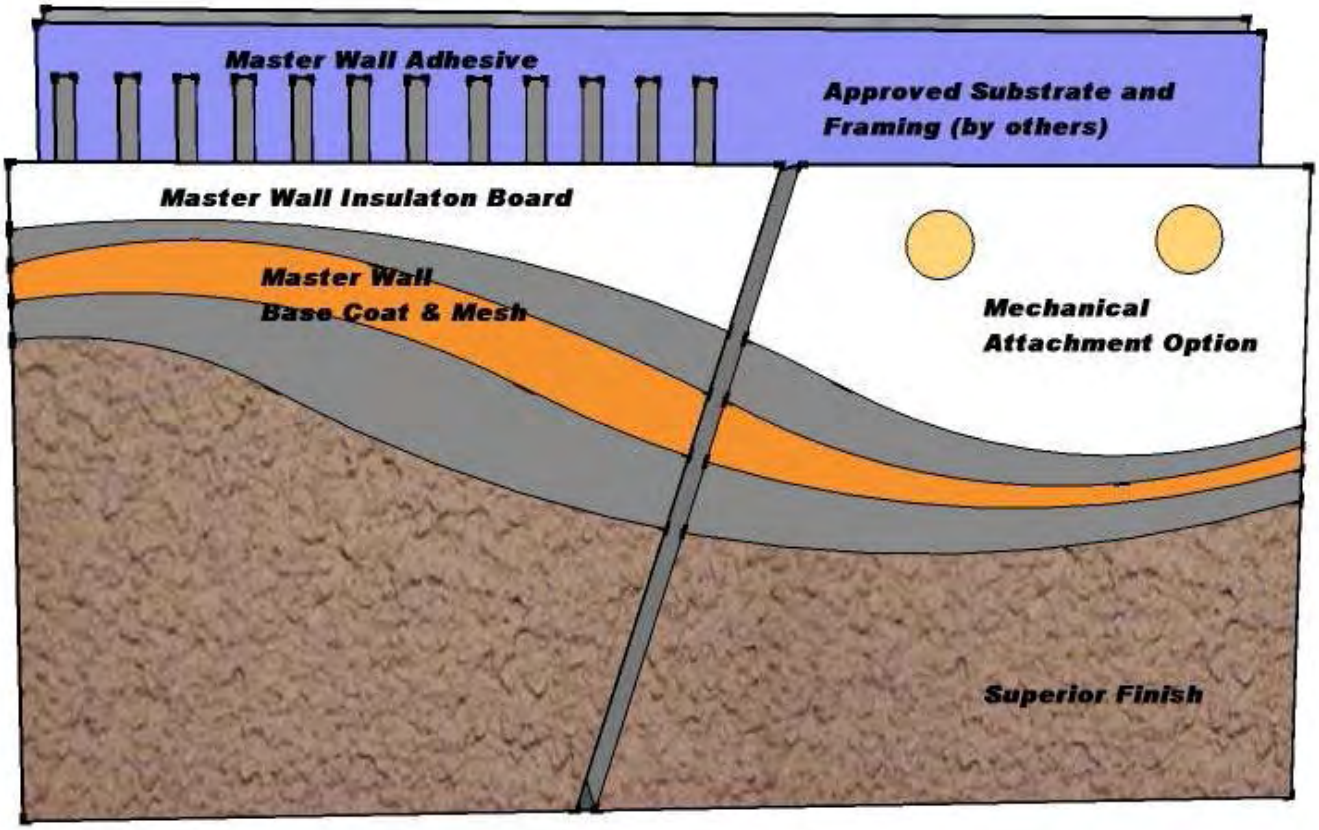

MWAF-01 CROSS-SECTION

These drawings relay the conceptual conditions of the Aggre-flex EIFS and are not the construction drawings. Ultimately the design and detailing of an entire wall system is the responsibility of a professional. These details will guide the design professional in the use of Master Wall Products. Master Wall disclaims design, warranty or construction intent or responsibility.

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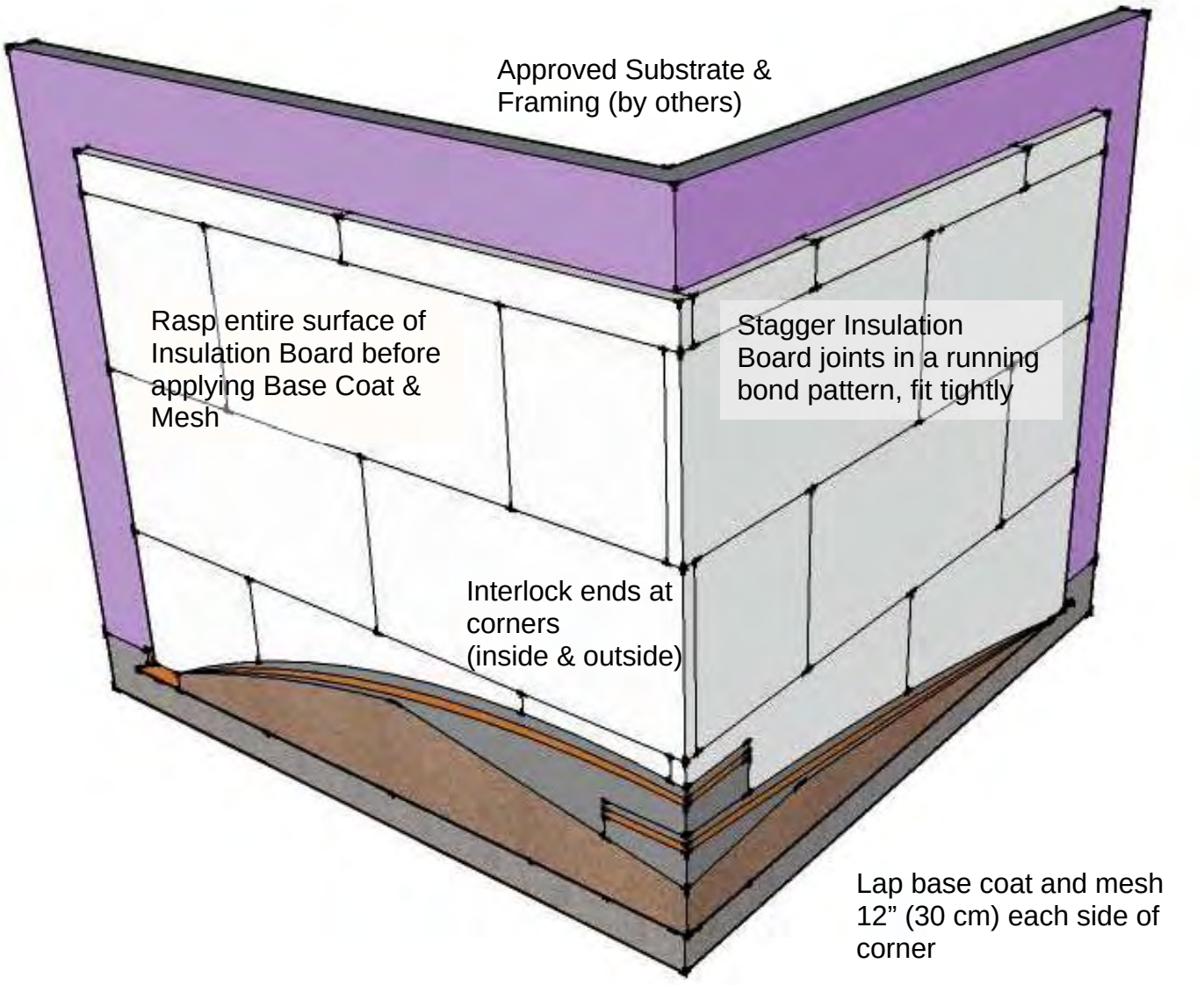

MWAF-02 INSULATION PATTERN

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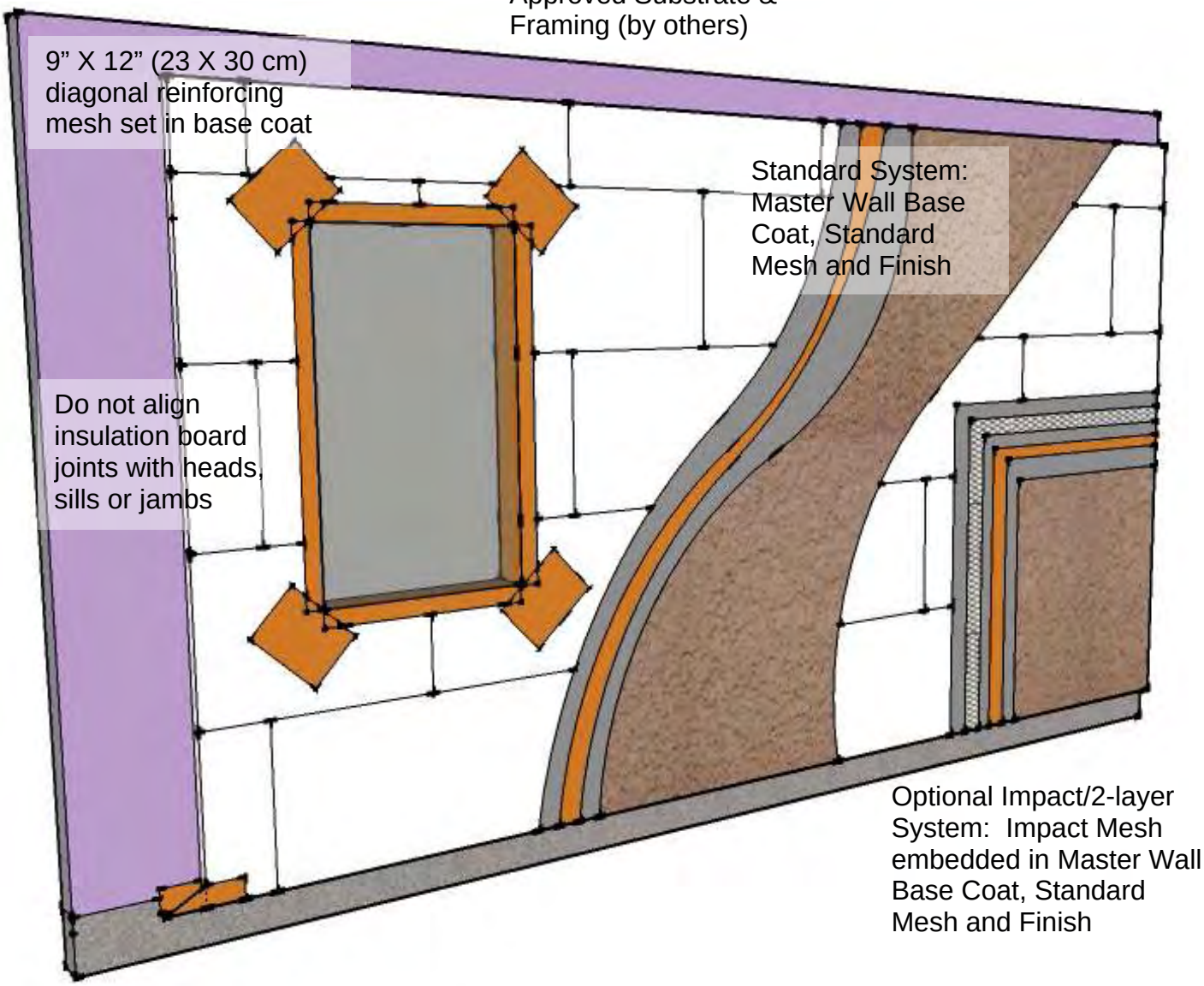

MWAF-03 MESH APPLICATION

Note: Lap all mesh 2-1/2” (63 mm) minimum except Strong and Ultra Mesh, which are butted

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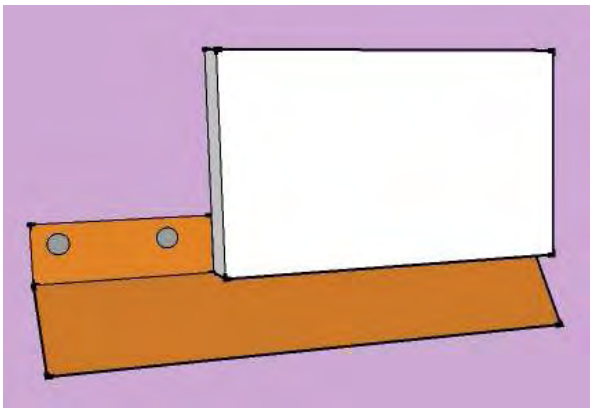
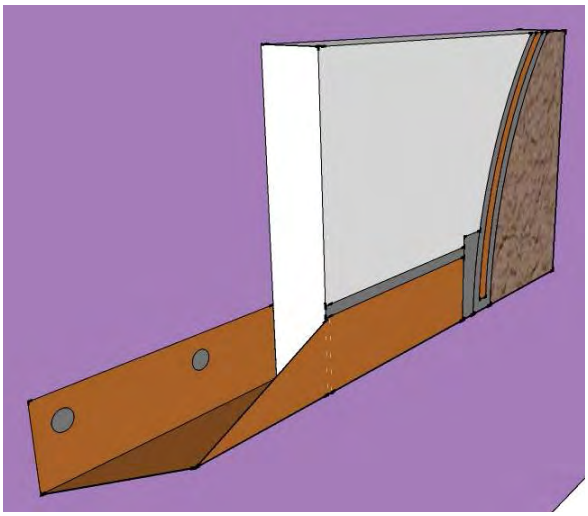
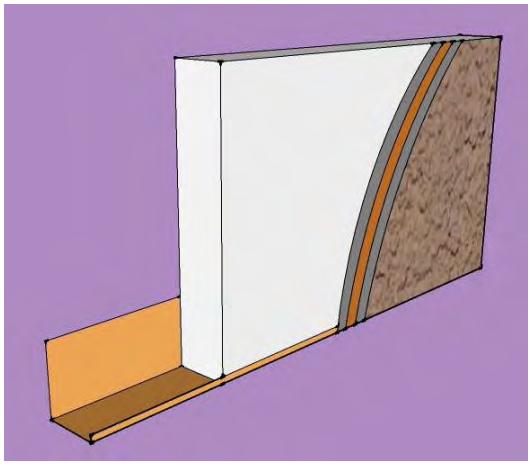
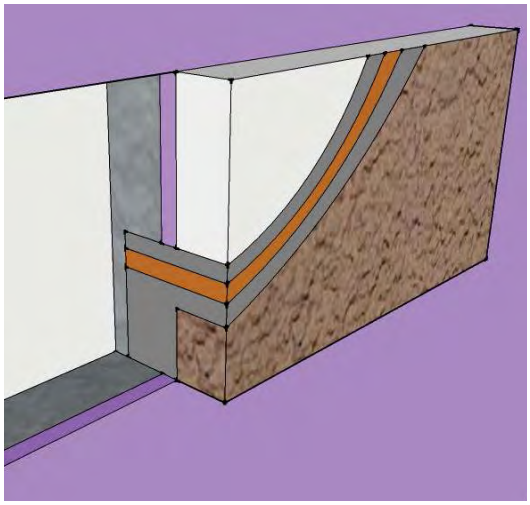




Backwrap Option: Tack Detail Mesh 2-1/2" (63 mm) minimum onto substrate using staples, nails or base coat. After insulation board is adhered embed remaining mesh in base coat and turn onto the surface of the insulation board.



Casing Option: Fasten casing bead onto wall surface at 8" centers, slip insulation board into casing bead. Note: casing beads may cause cracking and an irregular planar condition. May not be approved for fire-rated systems.



Wrap Option: Wrap mesh and base coat 2-1/2" (63 mm) onto the framing or non-moisture sensitive substrate.

MWAF-04 CLOSURE OPTIONS

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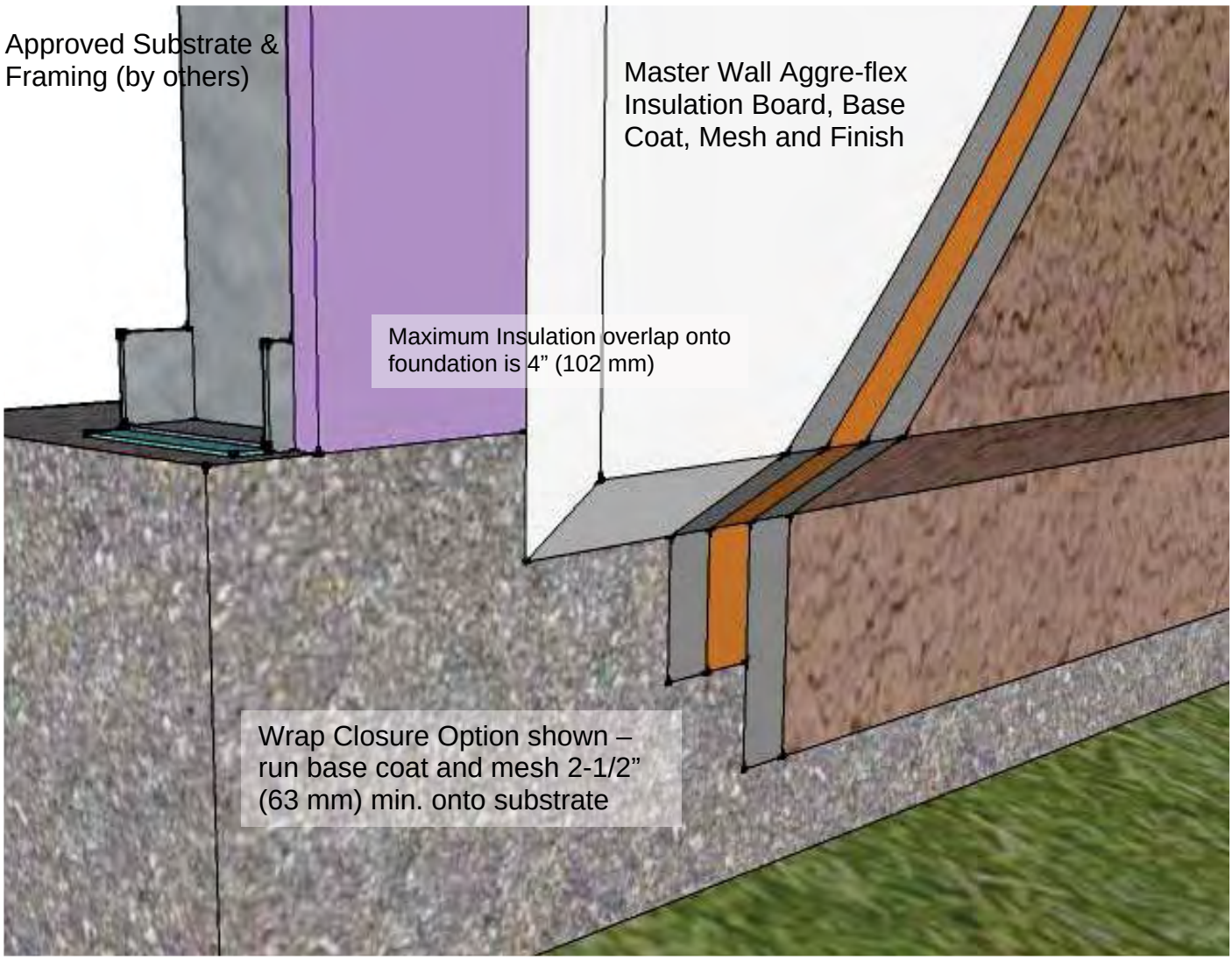

MWAF-05 FOUNDATION DETAIL

Note: Keep EIFS a minimum of 6" (152 mm) above grade, slope grade away from building, keep landscaping 3' min. away from building and direct sprinklers away from building.

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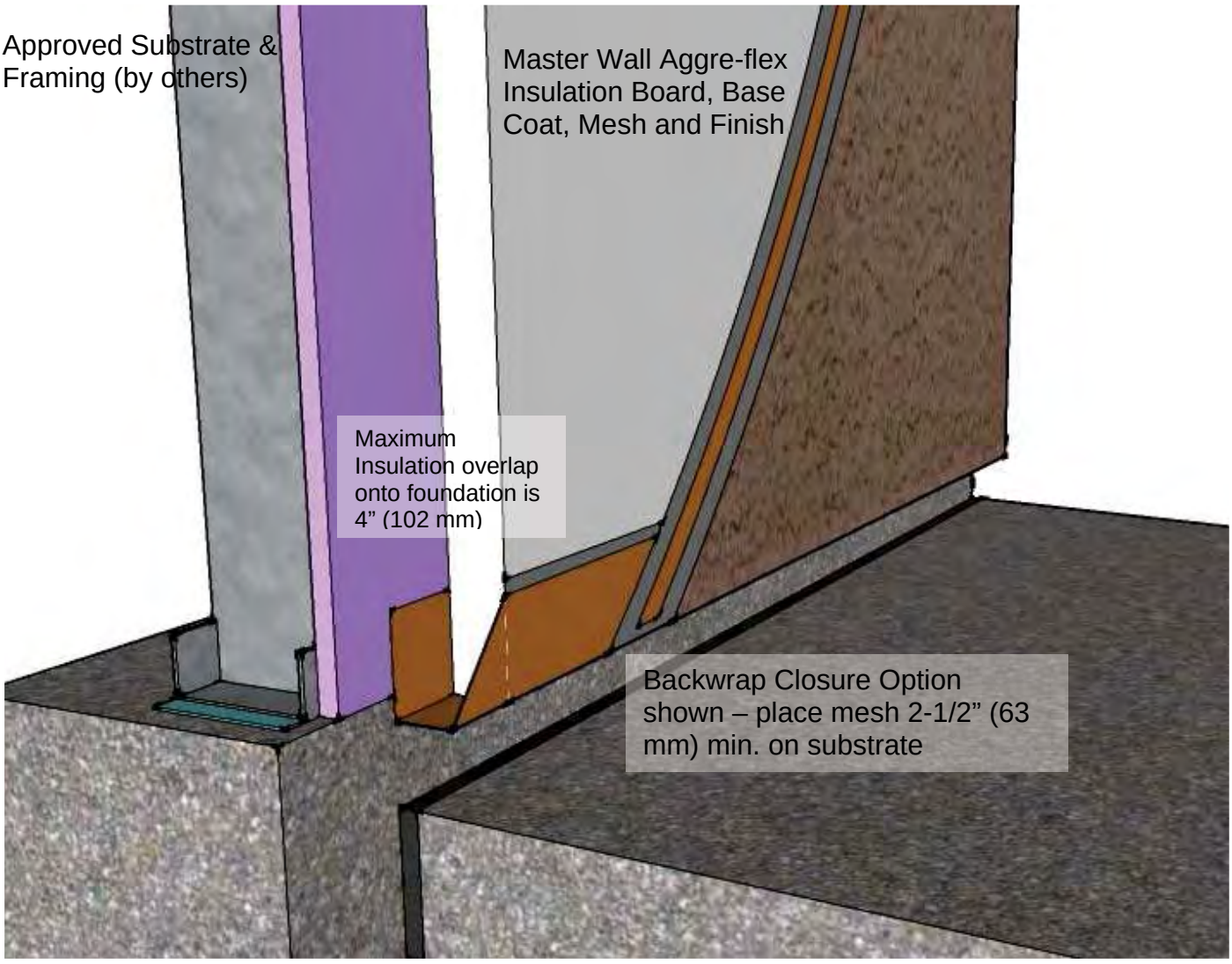

MWAF-06 PAVEMENT/WALKWAY DETAIL

Note: Keep EIFS a minimum of 2” (50 mm) above pavement, slope pavement away from building.

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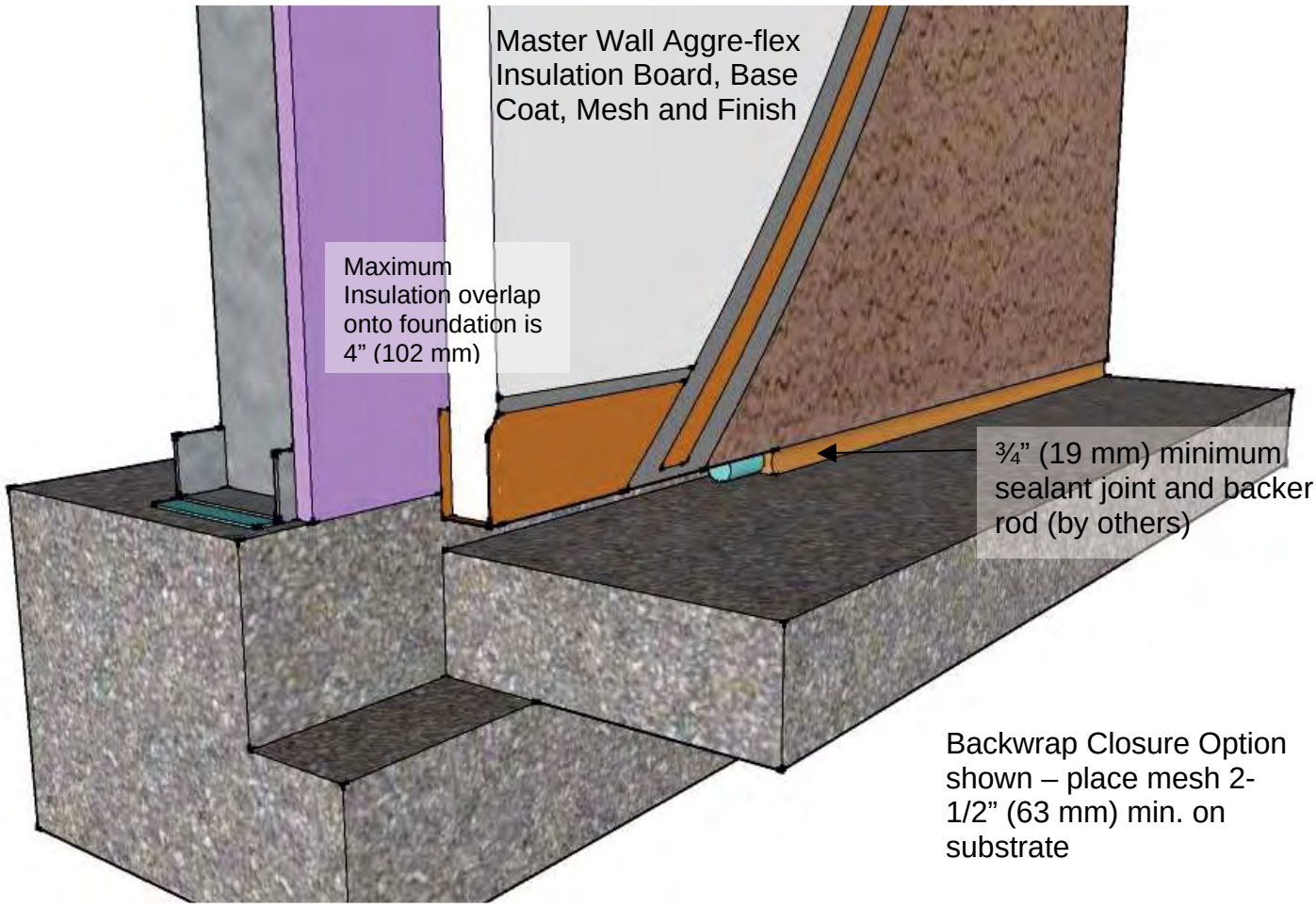
Approved Substrate & Framing (by others)



MWAF-07 SUPPORTED PORCH DETAIL

Note: Keep EIFS a minimum of 3/4” (19 mm) above supported porch, slope away from building.

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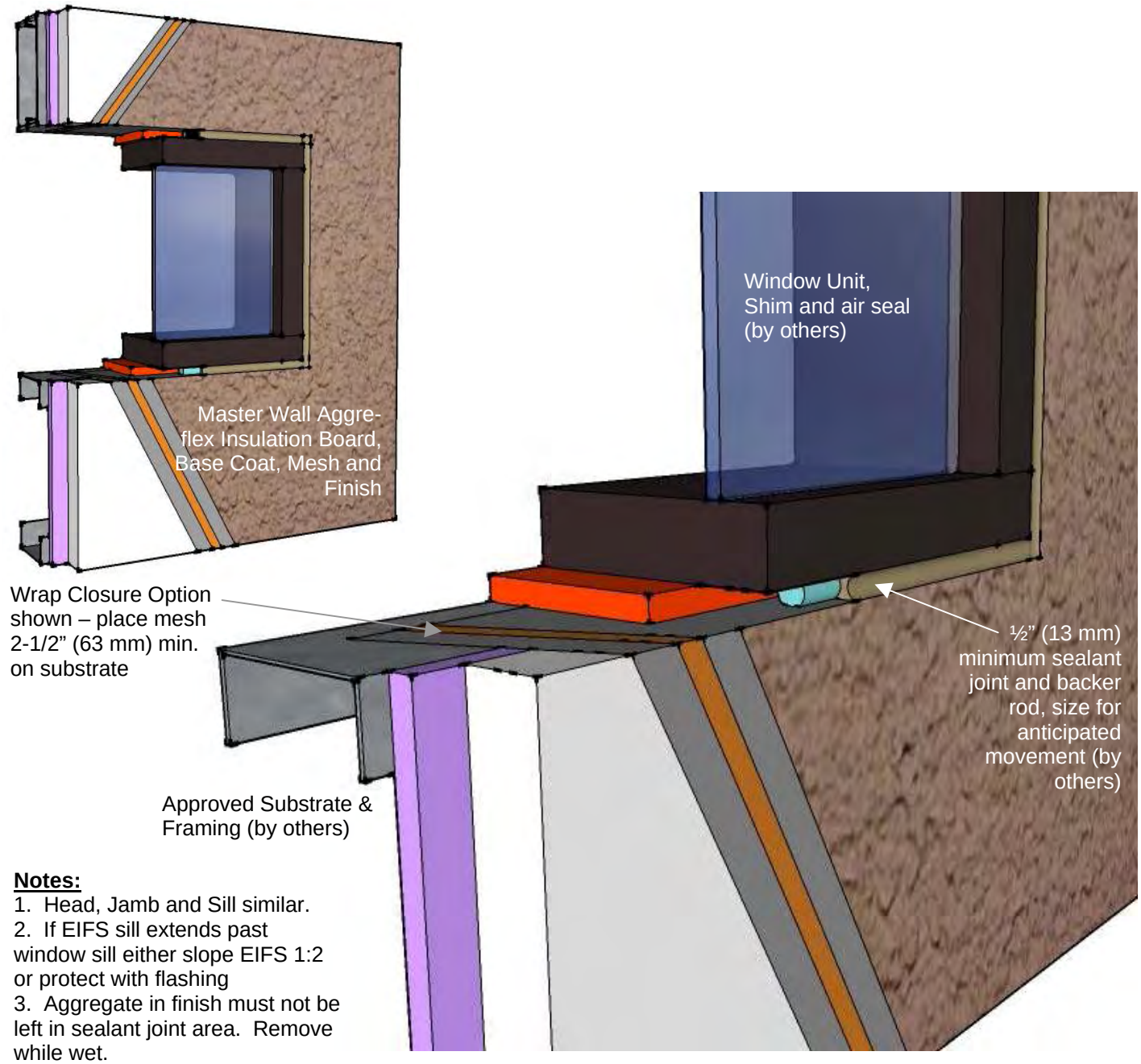

Notes:

1. Head, Jamb and Sill similar.
2. If EIFS sill extends past window sill either slope EIFS 1:2 or protect with flashing
3. Aggregate in finish must not be left in sealant joint area. Remove while wet.

MWAF-08 STOREFRONT WINDOW DETAIL

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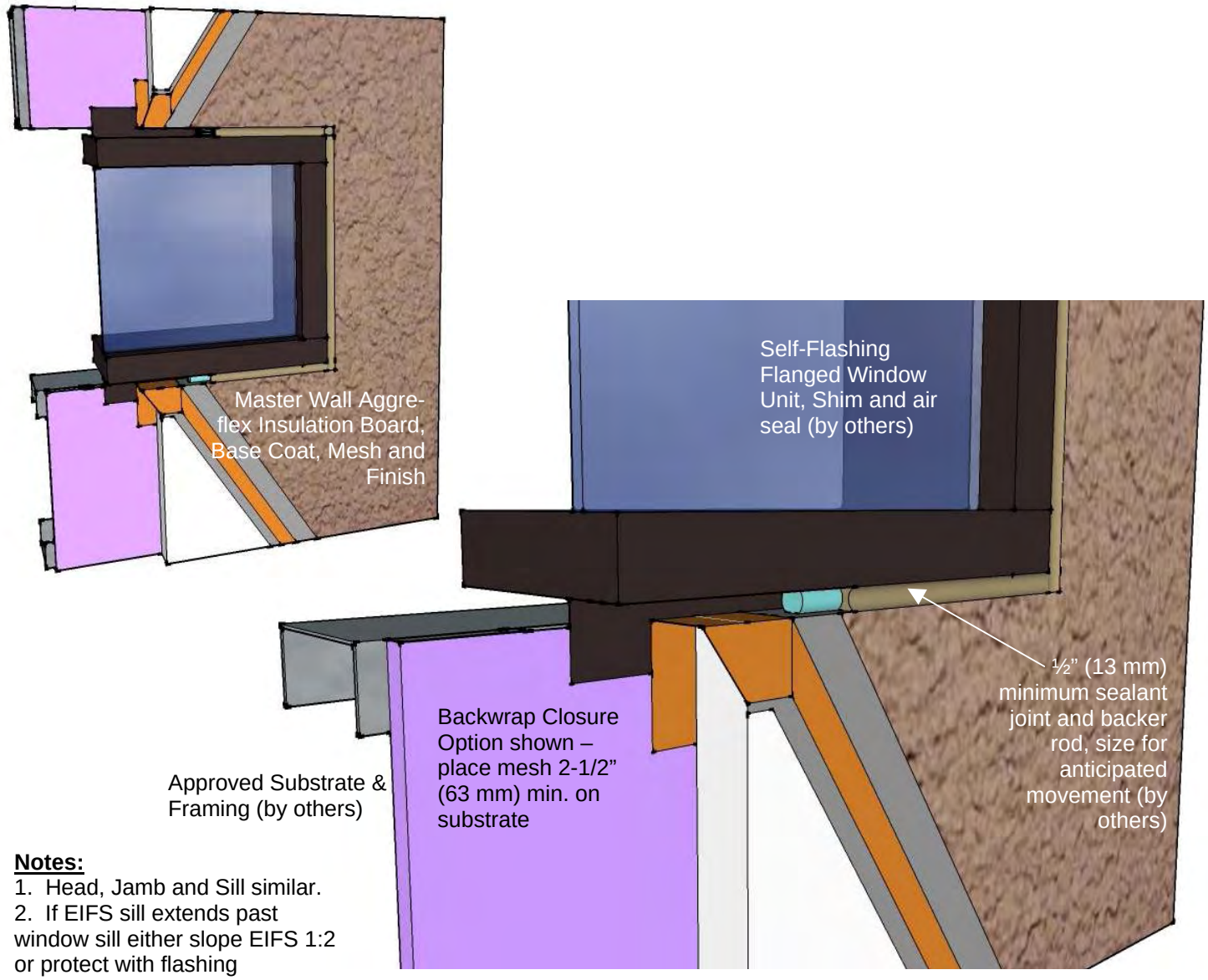

Notes:

1. Head, Jamb and Sill similar.
2. If EIFS sill extends past window sill either slope EIFS 1:2 or protect with flashing
3. Aggregate in finish must not be left in sealant joint area. Remove while wet.

MWAF-09 FLANGED WINDOW DETAIL

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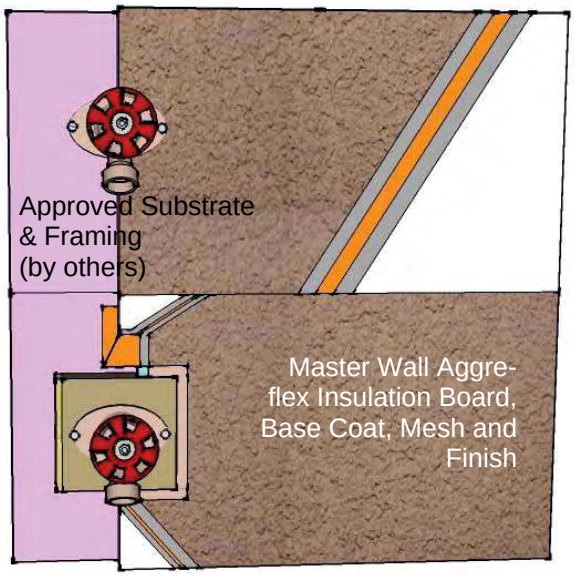

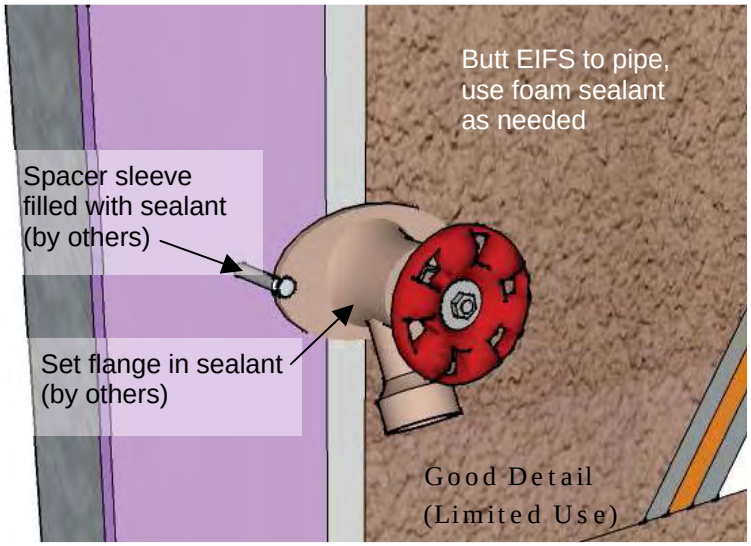

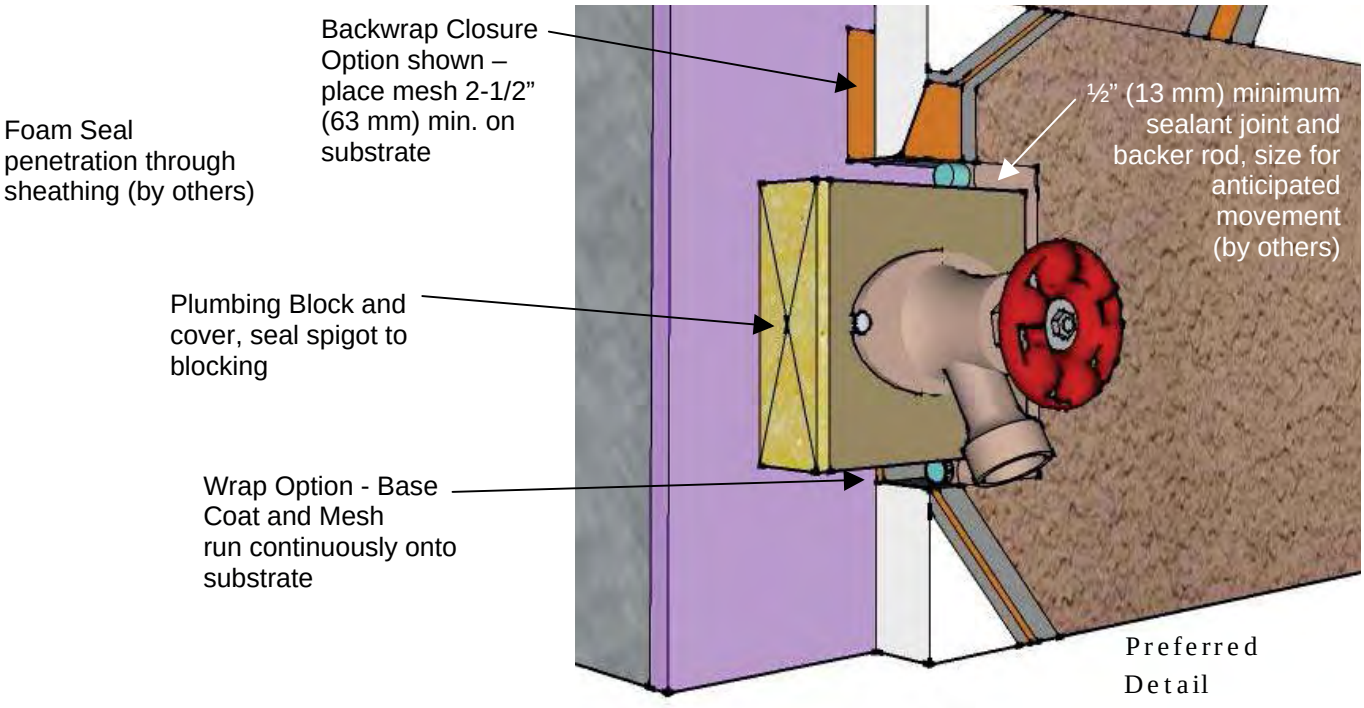

MWAF-10 PLUMBING SPIGOT DETAIL

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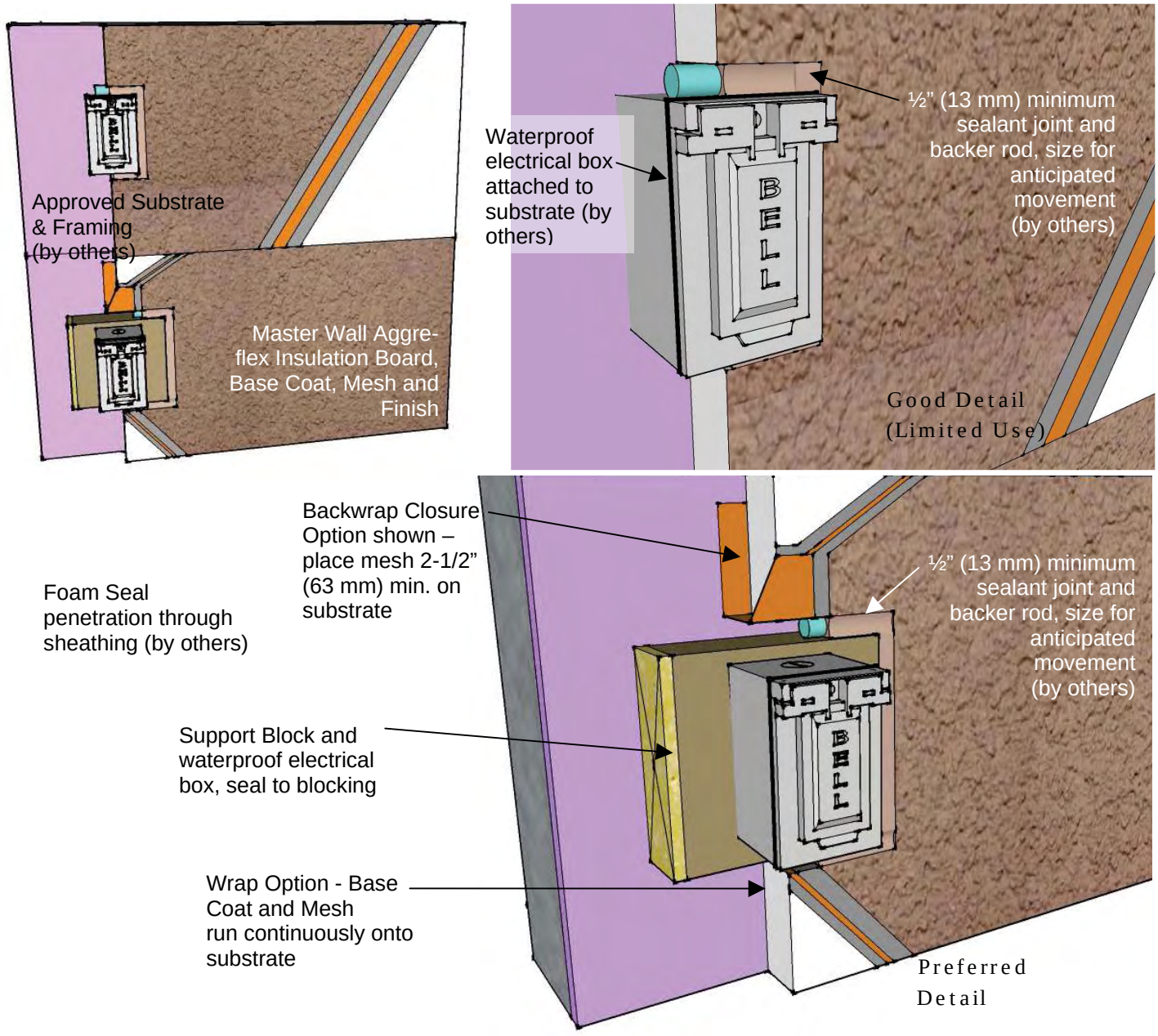

MWAF-11 ELECTRICAL OUTLET DETAIL

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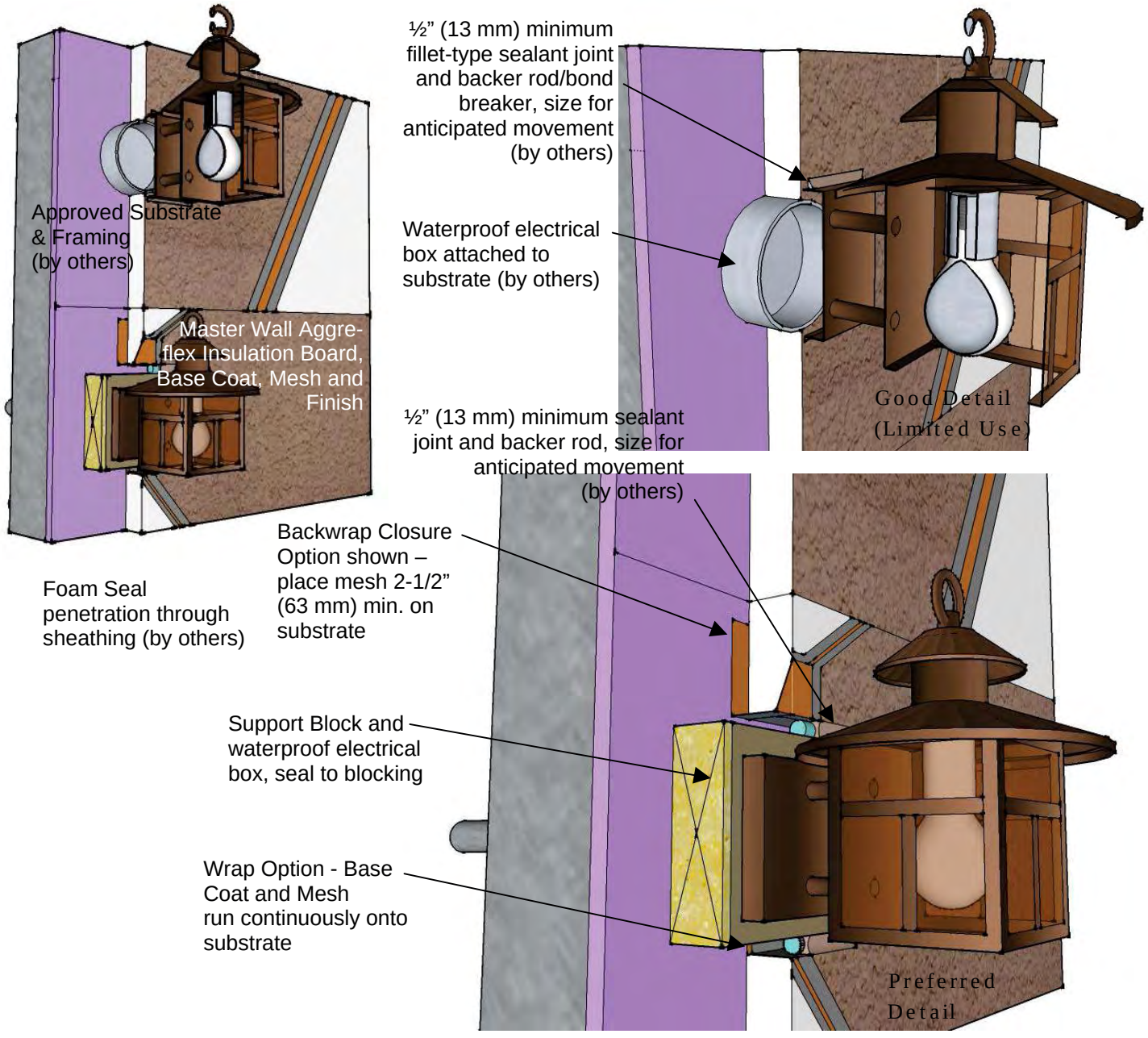

MWAF-12 LIGHT FIXTURE DETAIL

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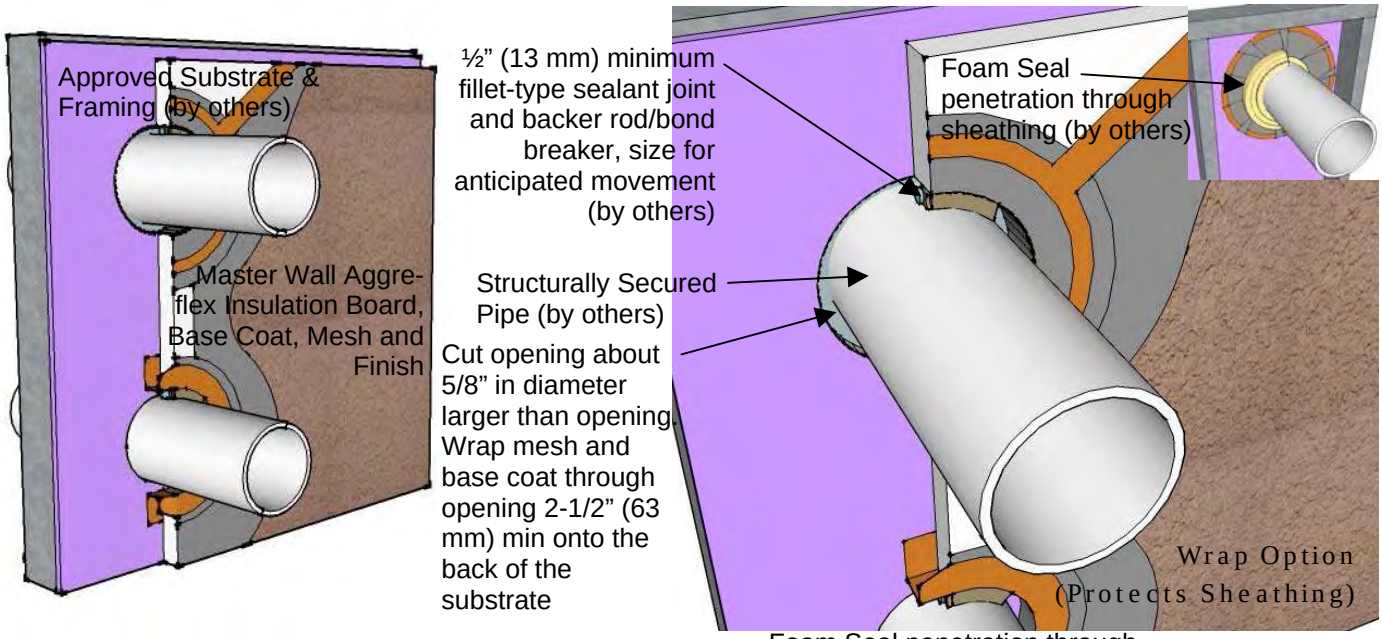

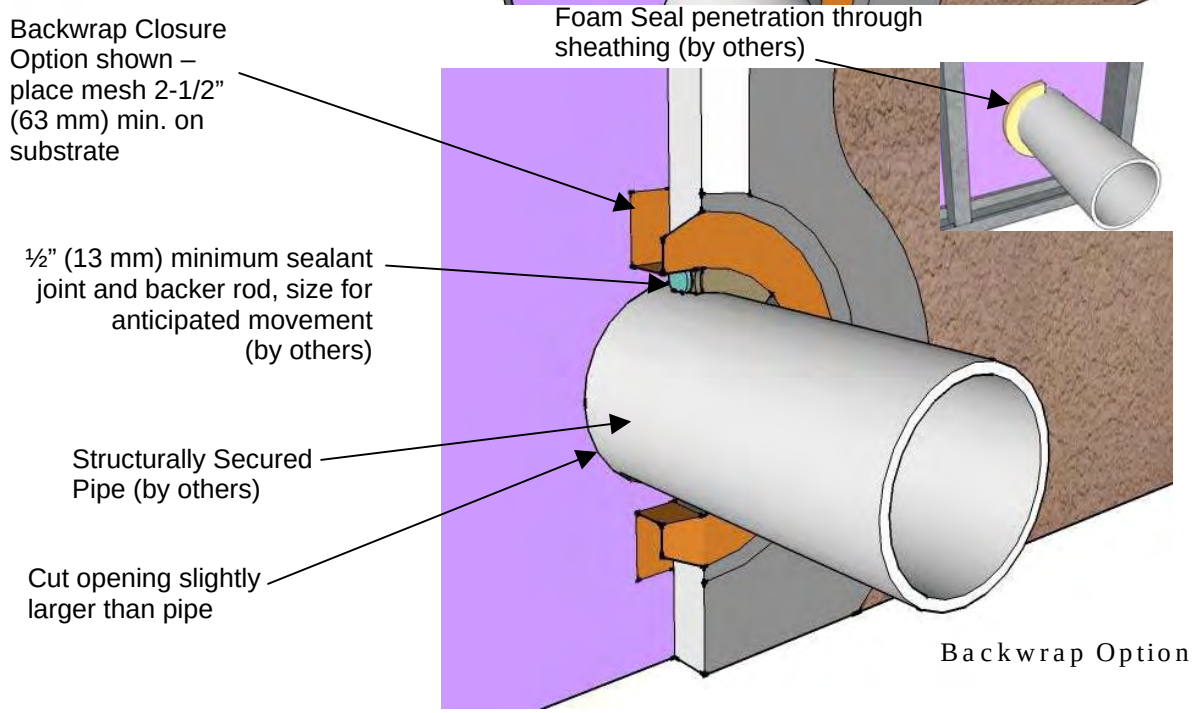

MWAF-13 PIPE PENETRATION DETAIL

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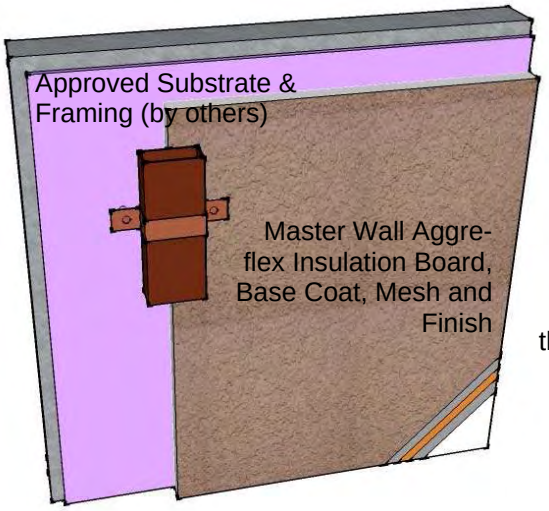
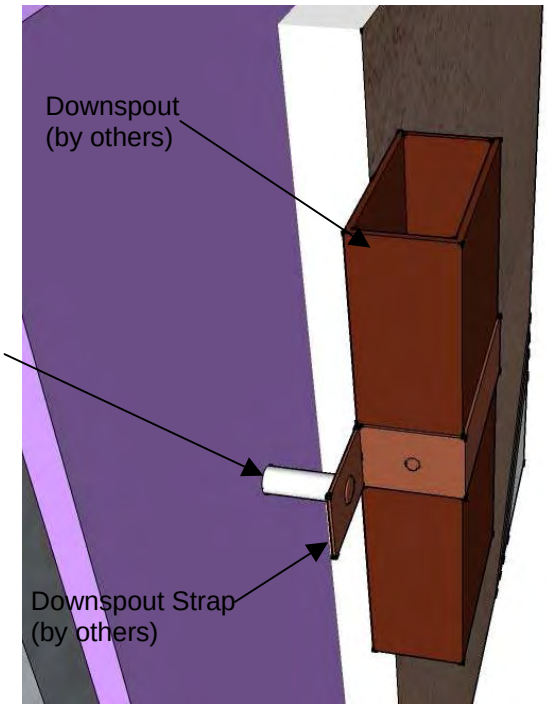
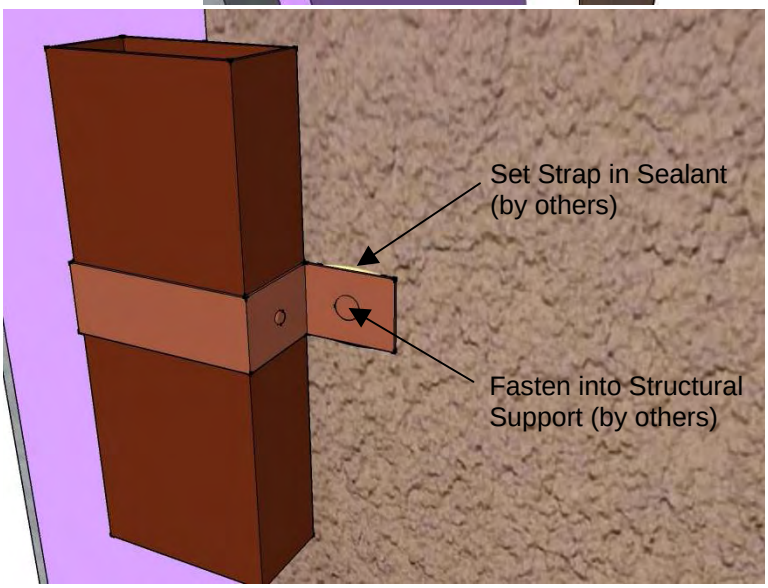


Carefully drill a hole in the EIFS the diameter of a PVC or metal structural support sleeve sized for EIFS thickness. Fill sleeve with sealant (by others)





MWAF-14 DOWNSPOUT ATTACHMENT DETAIL

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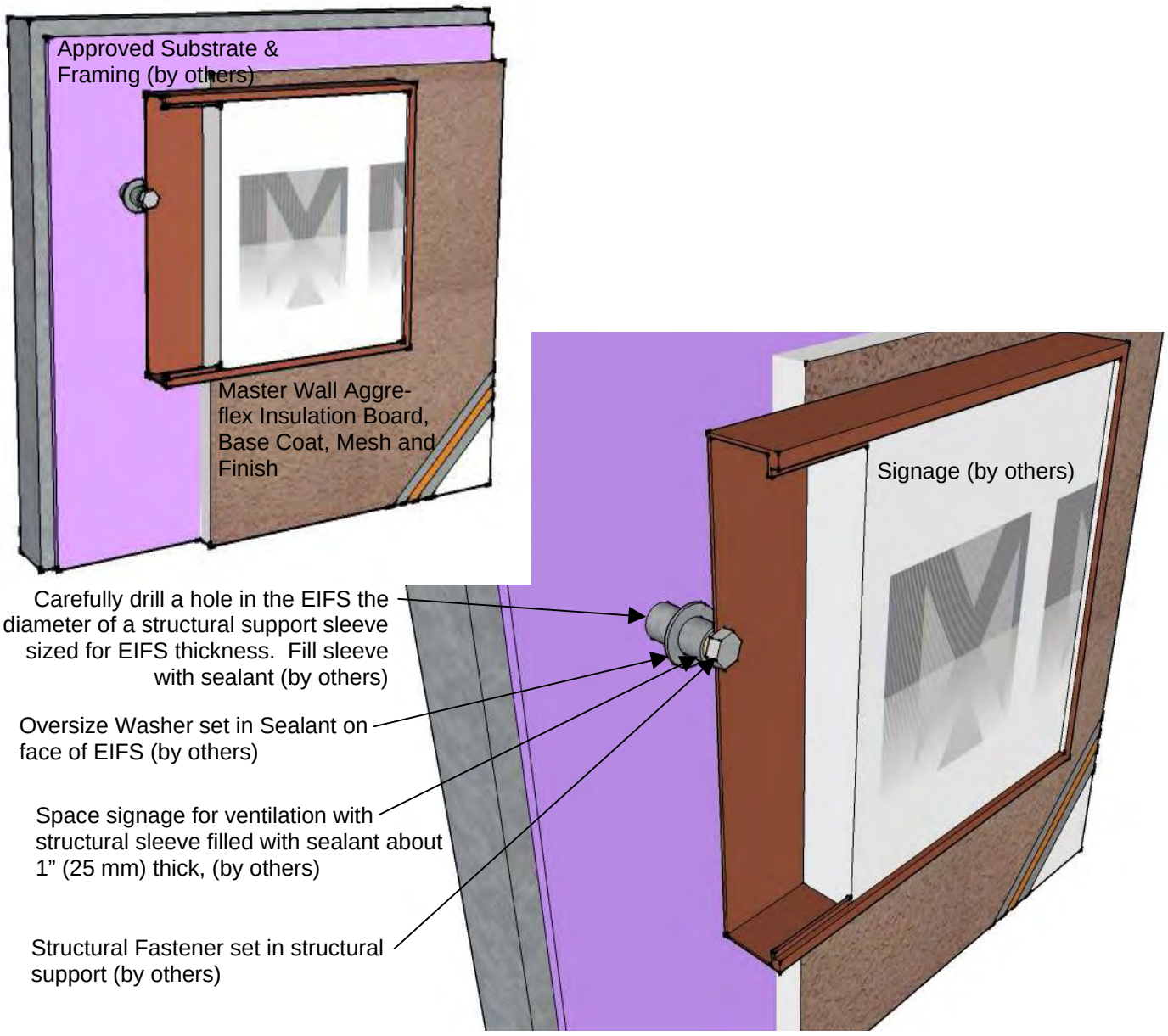

MWAF-15 SIGNAGE ATTACHMENT DETAIL

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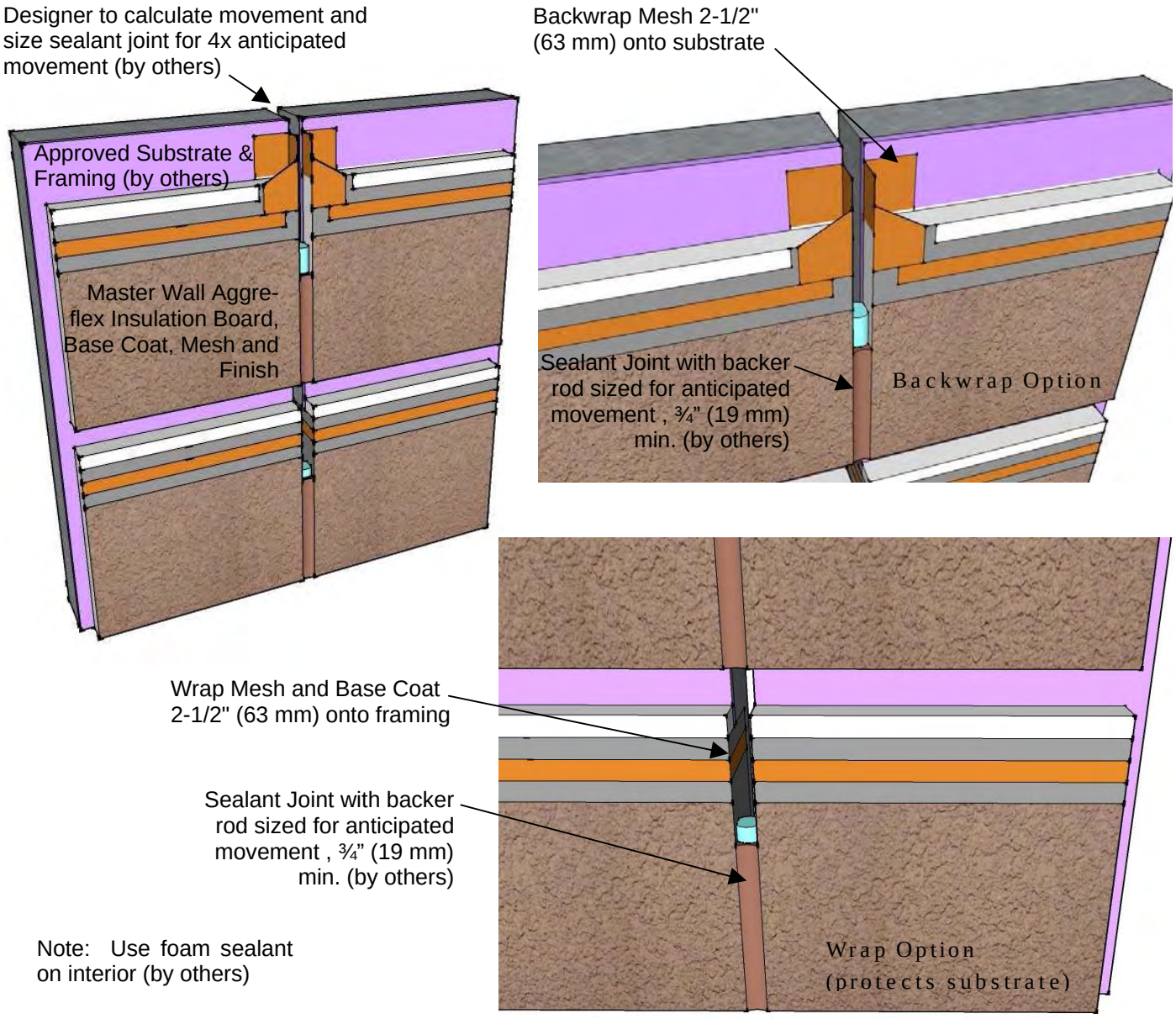

MWAF-16 VERTICAL EXPANSION JOINT DETAIL

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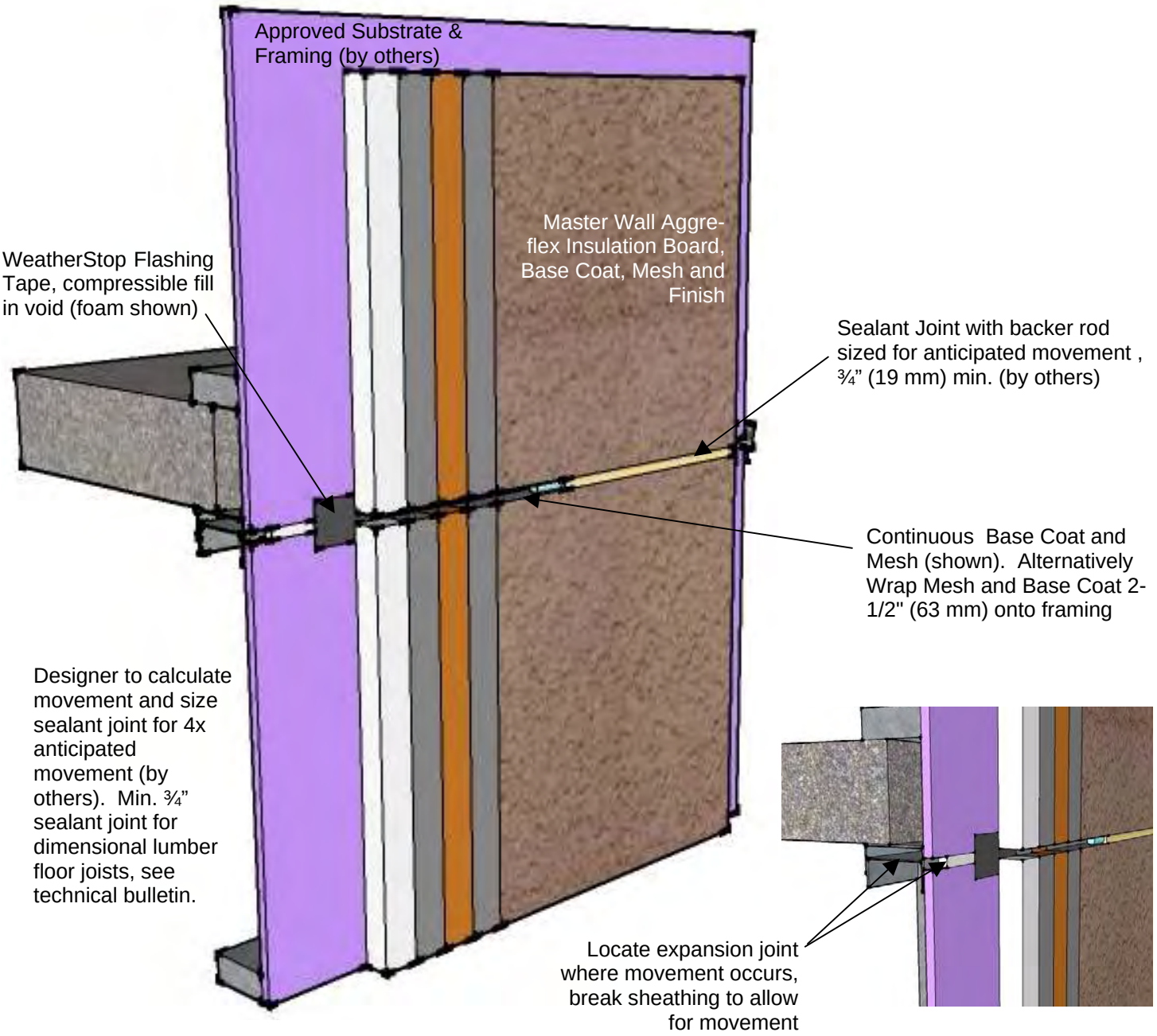

MWAF-17 HORIZONTAL EXPANSION JOINT DETAIL

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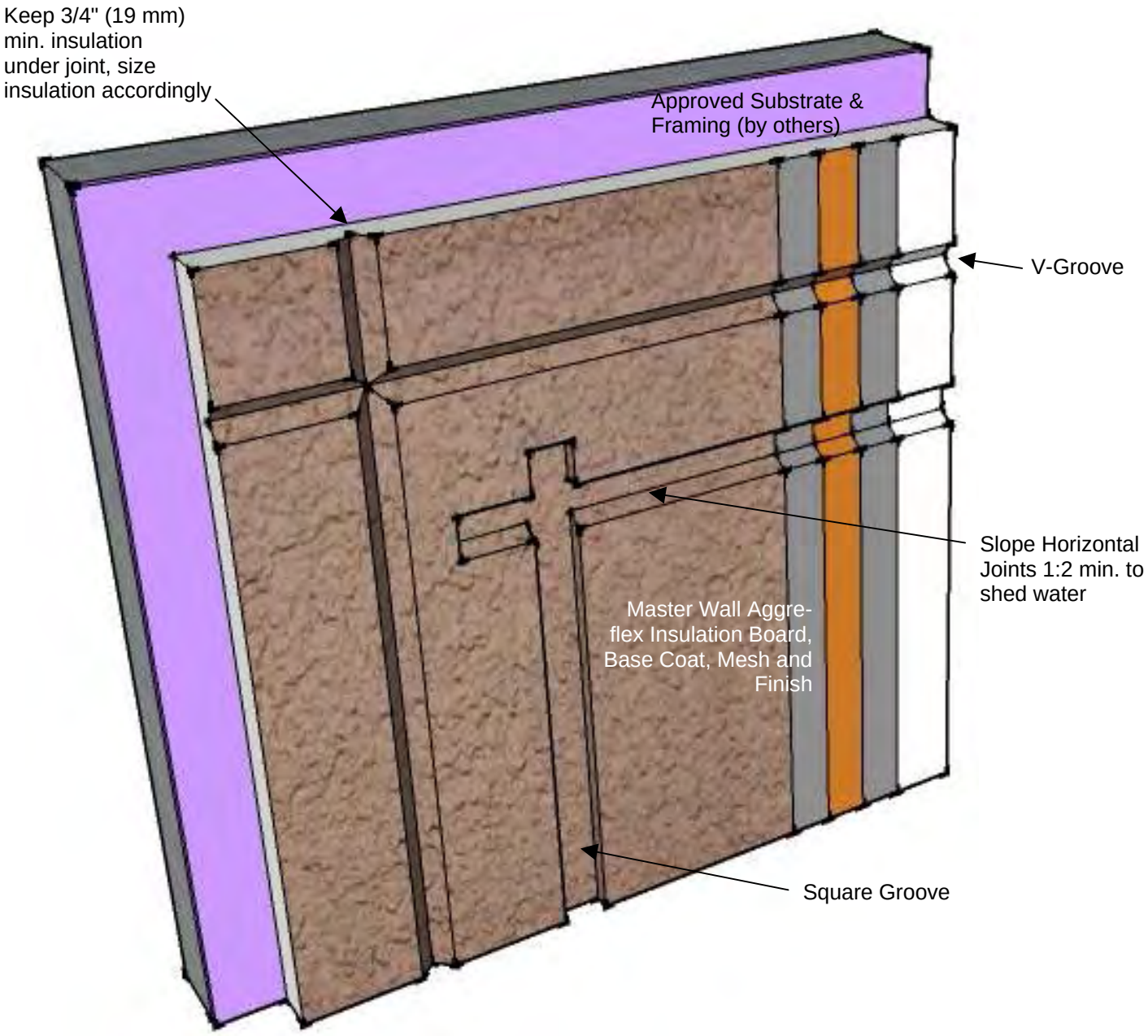

MWAF-18 AESTHETIC JOINT DETAIL

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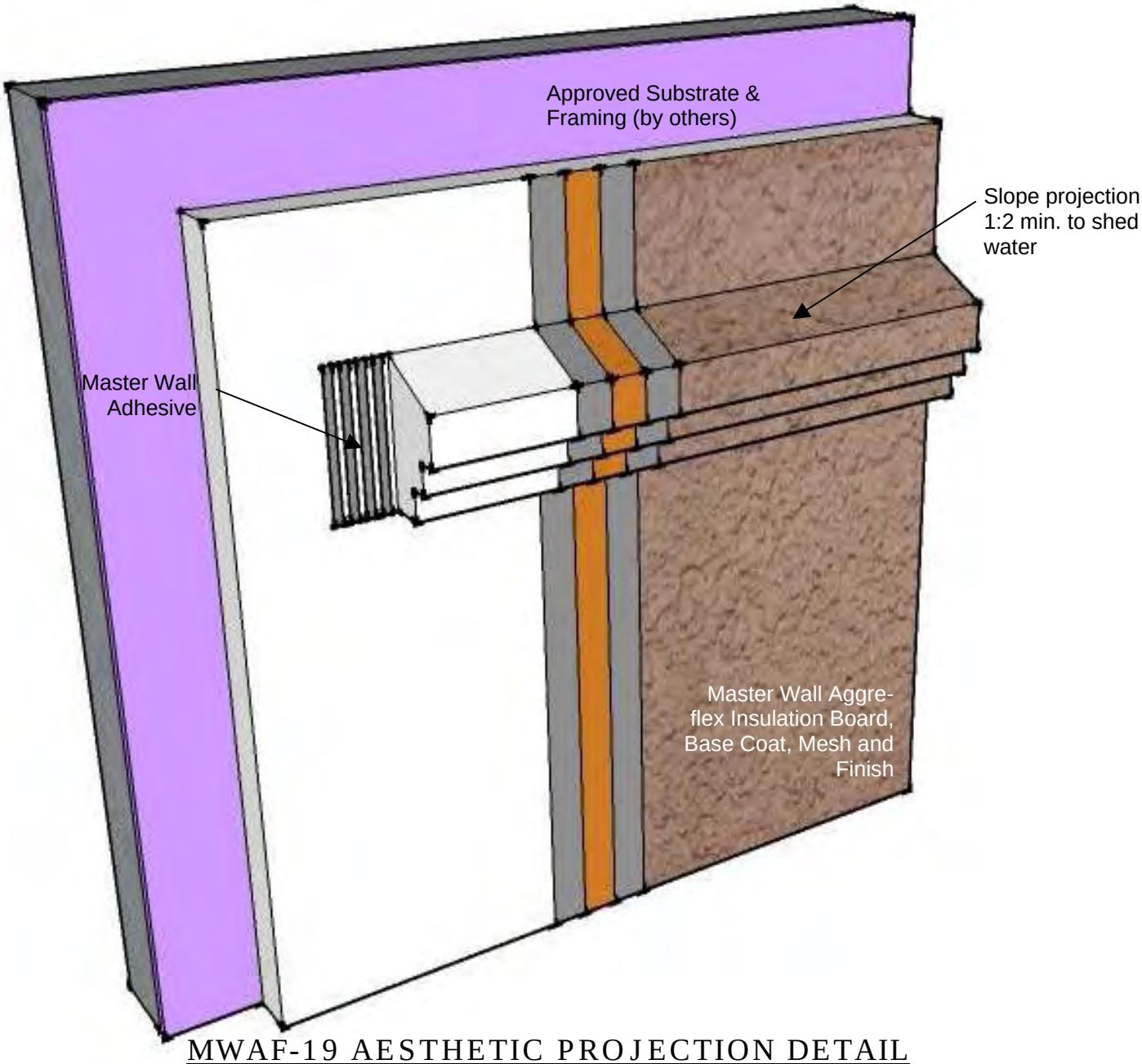

MWAF-19 AESTHETIC PROJECTION DETAIL

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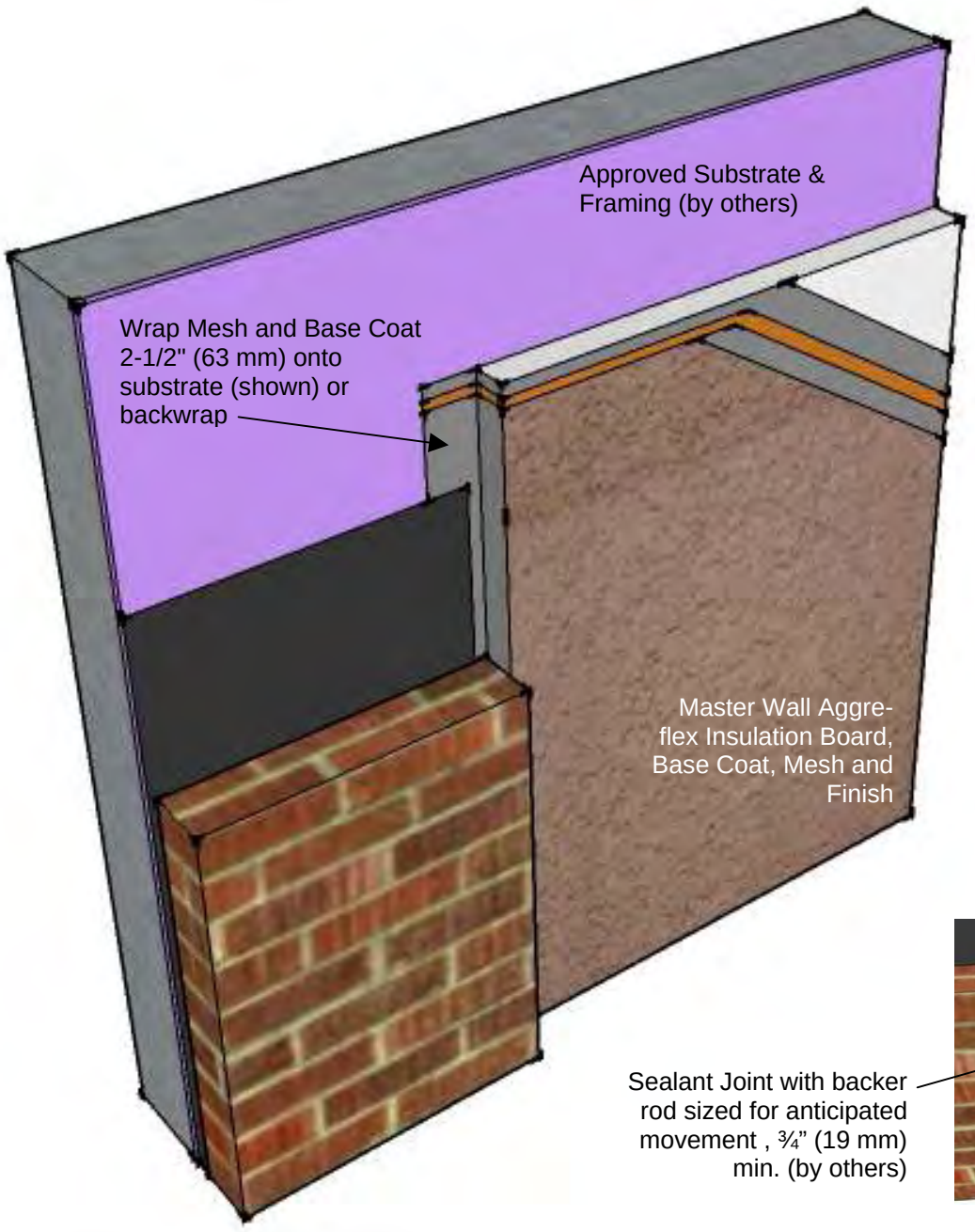

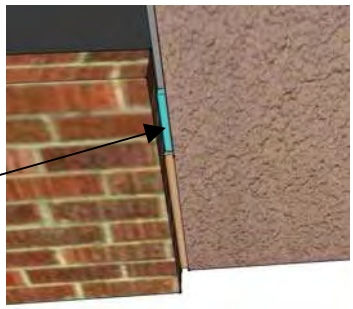

MWAF-20 DISSIMILAR MATERIALS DETAIL

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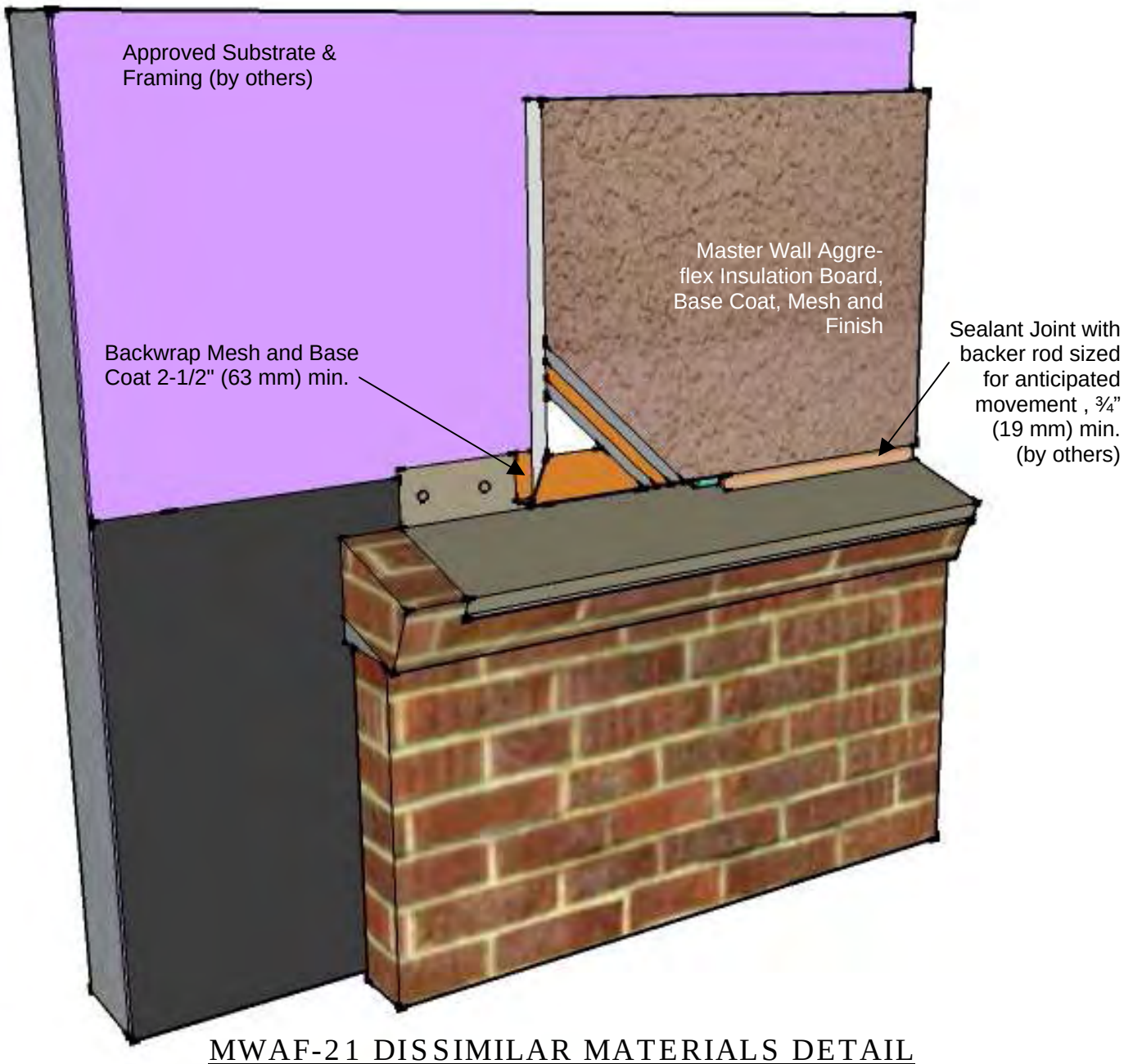

MWAF-21 DISSIMILAR MATERIALS DETAIL

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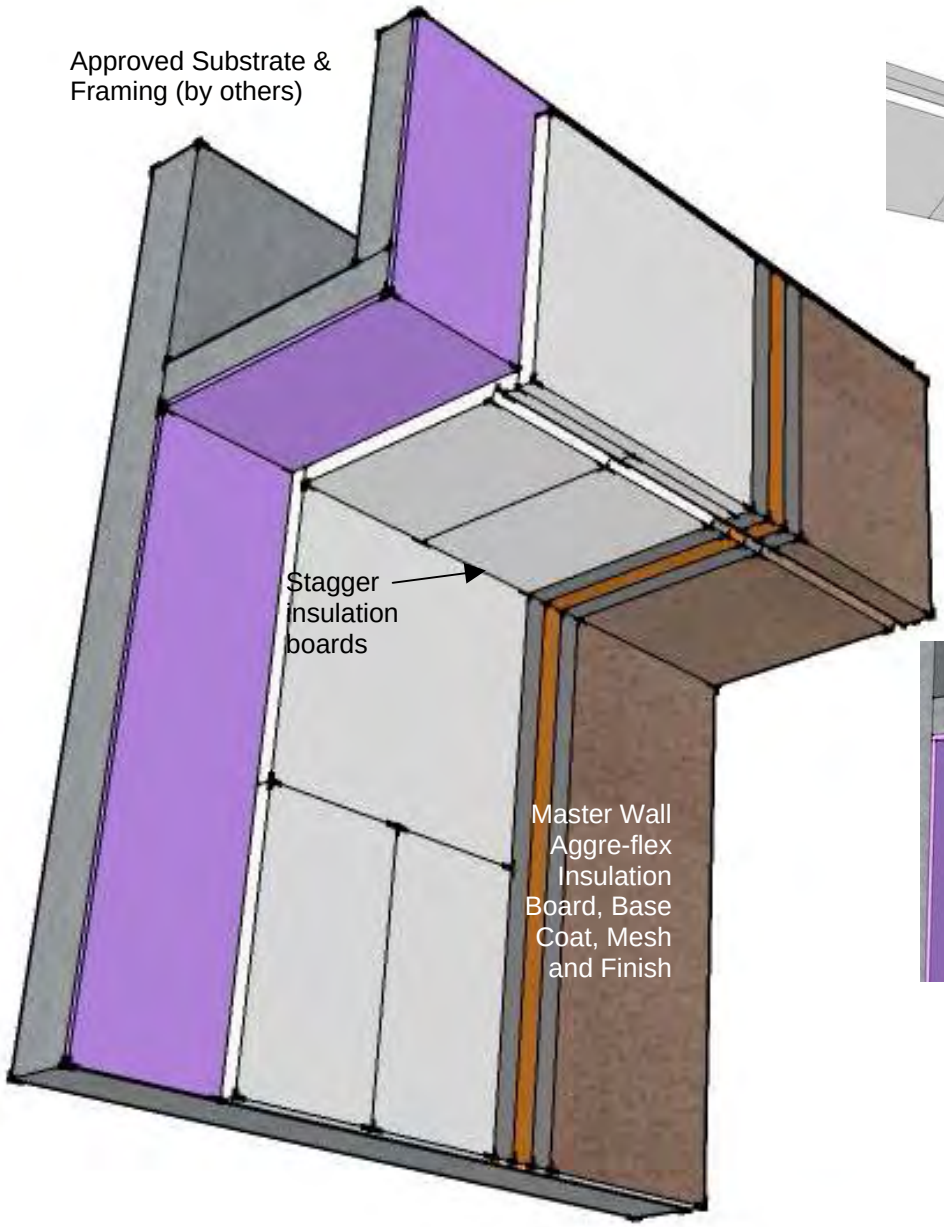
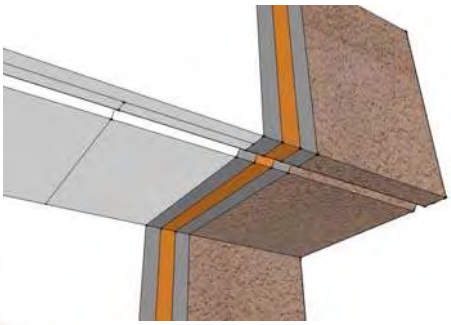
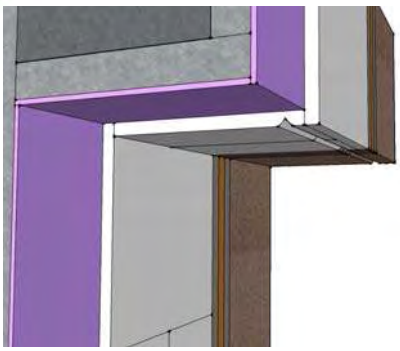




V-groove drip shown (if desired). Keep ¾" (19 mm) min. Insulation Board thickness under drip. Alternative designs could include a beveled fascia drip



MWAF-22 SOFFIT DETAIL

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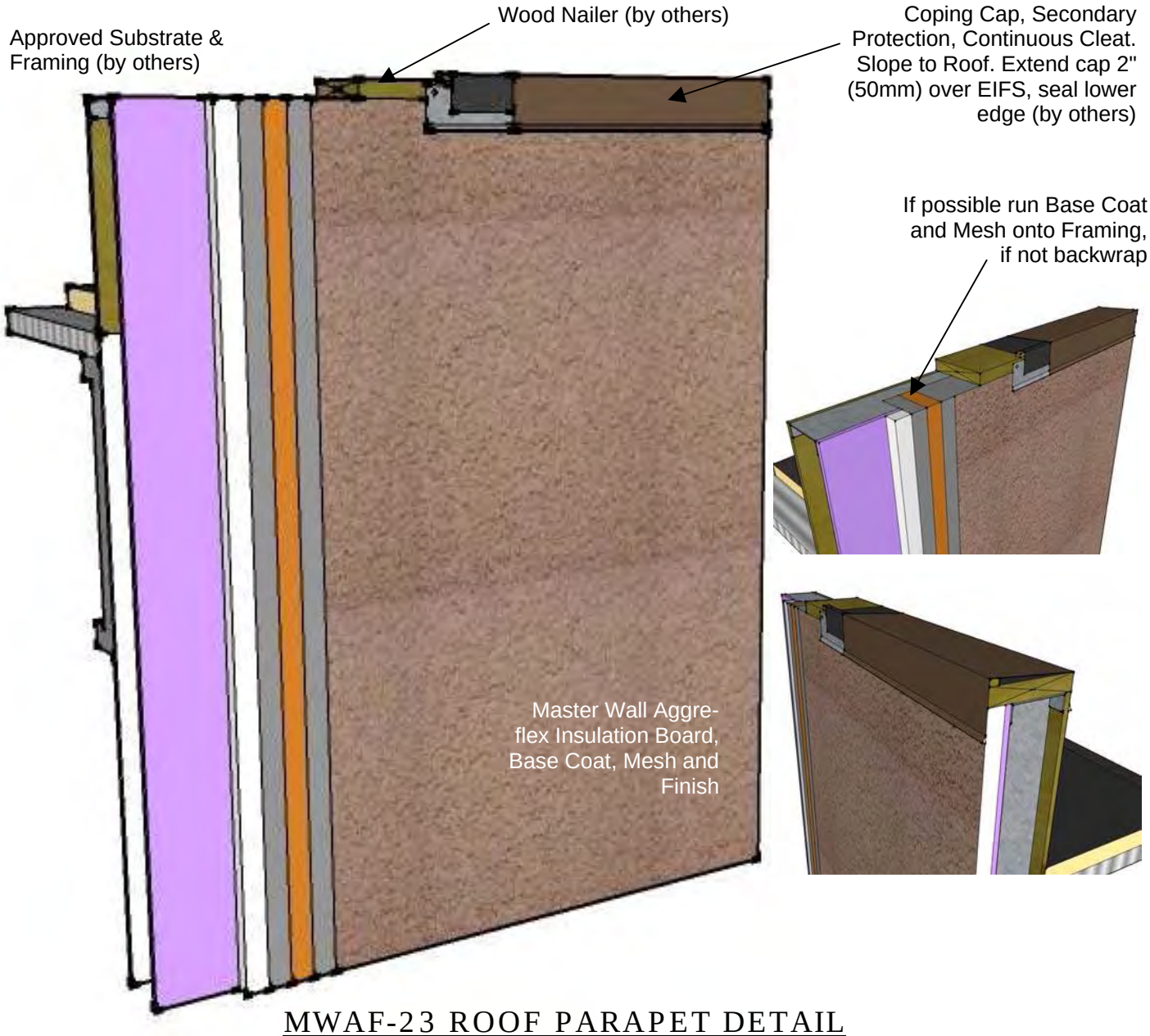

MWAF-23 ROOF PARAPET DETAIL

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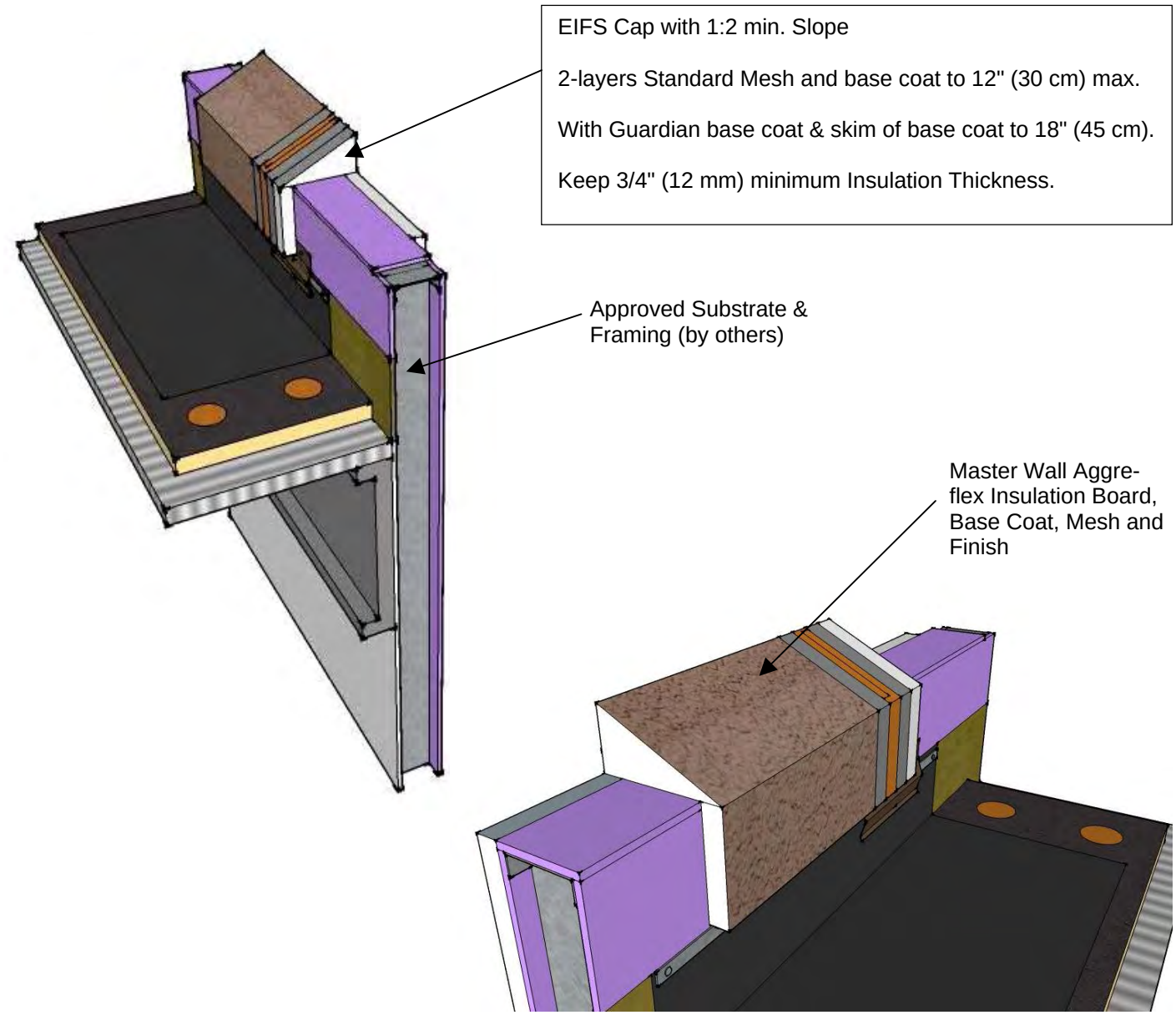

MWAF-24 EIFS PARAPET DETAIL

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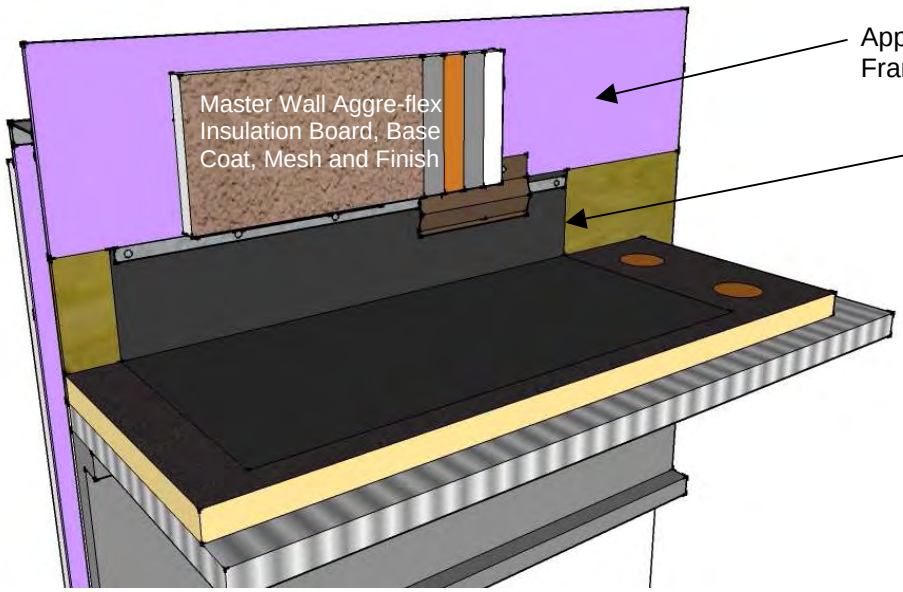
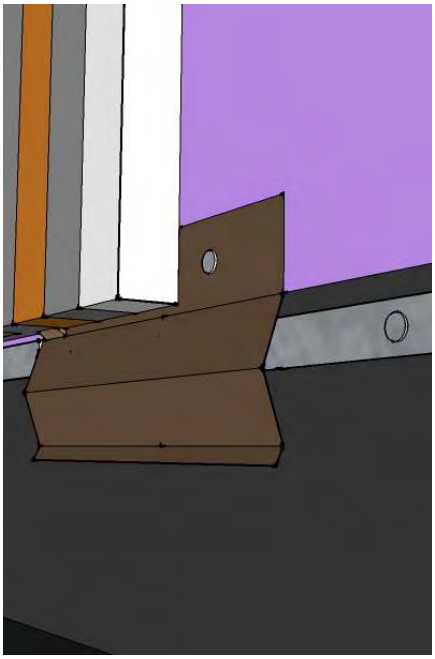
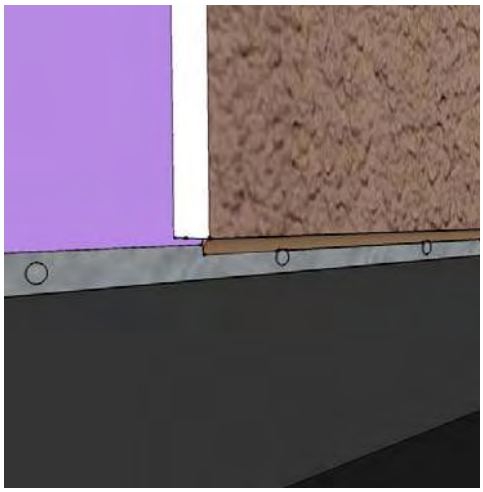


Counterflashing Option
1 pc or 2 pc Counterflashing, Roofing Termination Bar with Sealant (by others)



Termination Bar Option
Roofing Termination Bar with Sealant (by others)



MWAF-25 ROOF TERMINATION DETAIL

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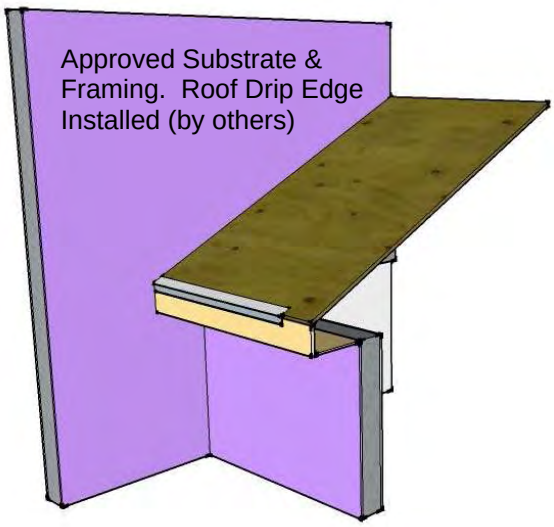

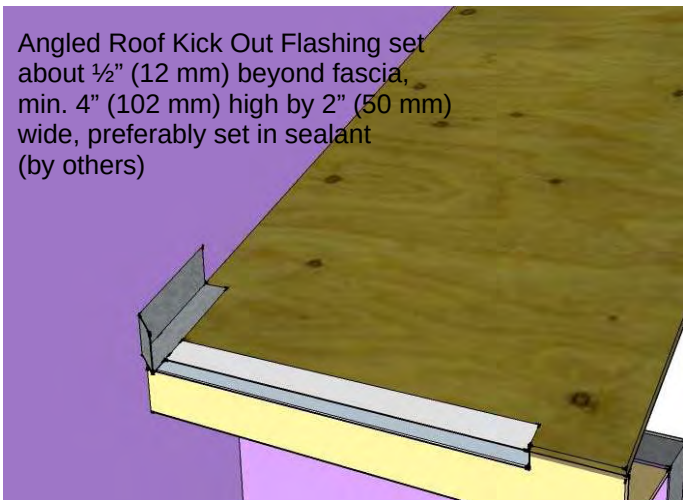

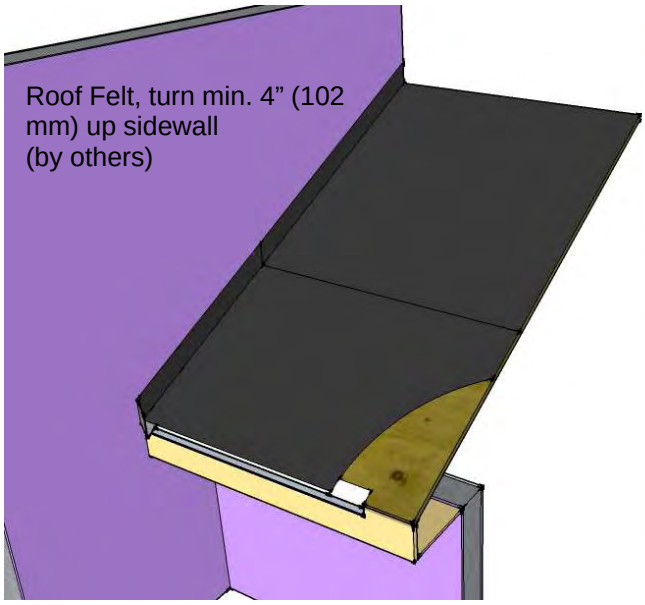

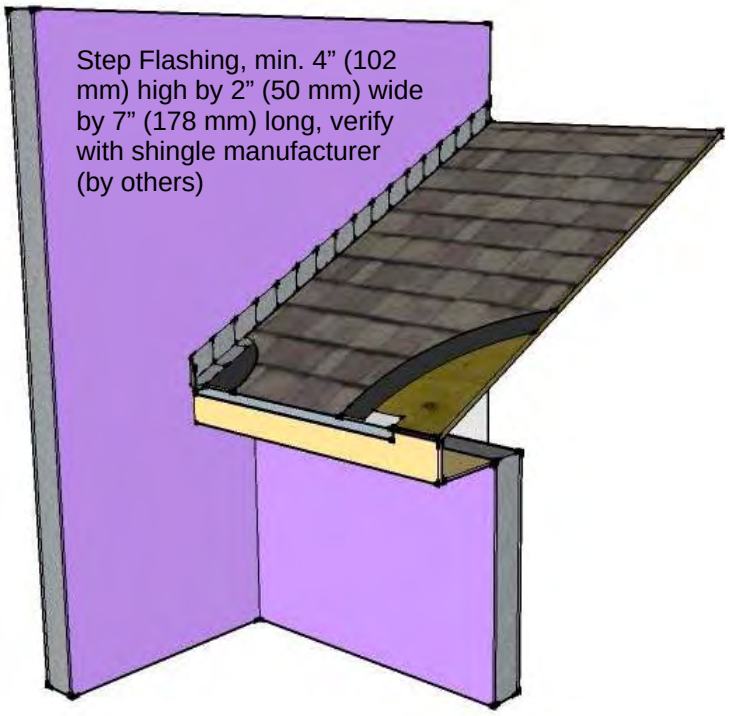

MWAF-26 ROOF/WALL TERMINATION DETAIL (Framing & Roofing)

These drawings relay the conceptual conditions of the Aggre-flex EIFS and are not the construction drawings. Ultimately the design and detailing of an entire wall system is the responsibility of a professional. These details will guide the design professional in the use of Master Wall Products. Master Wall disclaims design, warranty or construction intent or responsibility.

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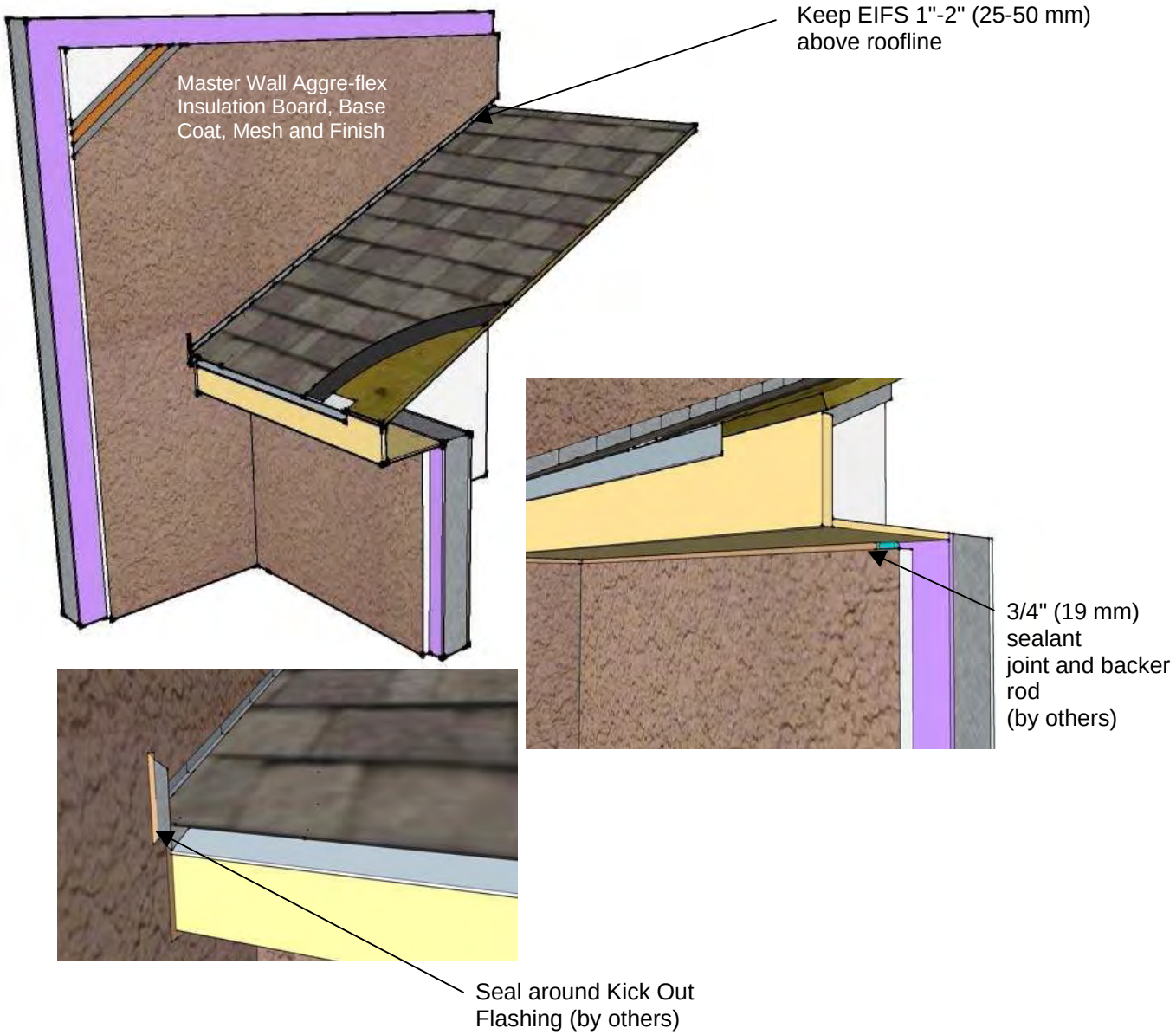

MWAF-27 ROOF/WALL TERMINATION DETAIL (EIFS & Sealant)

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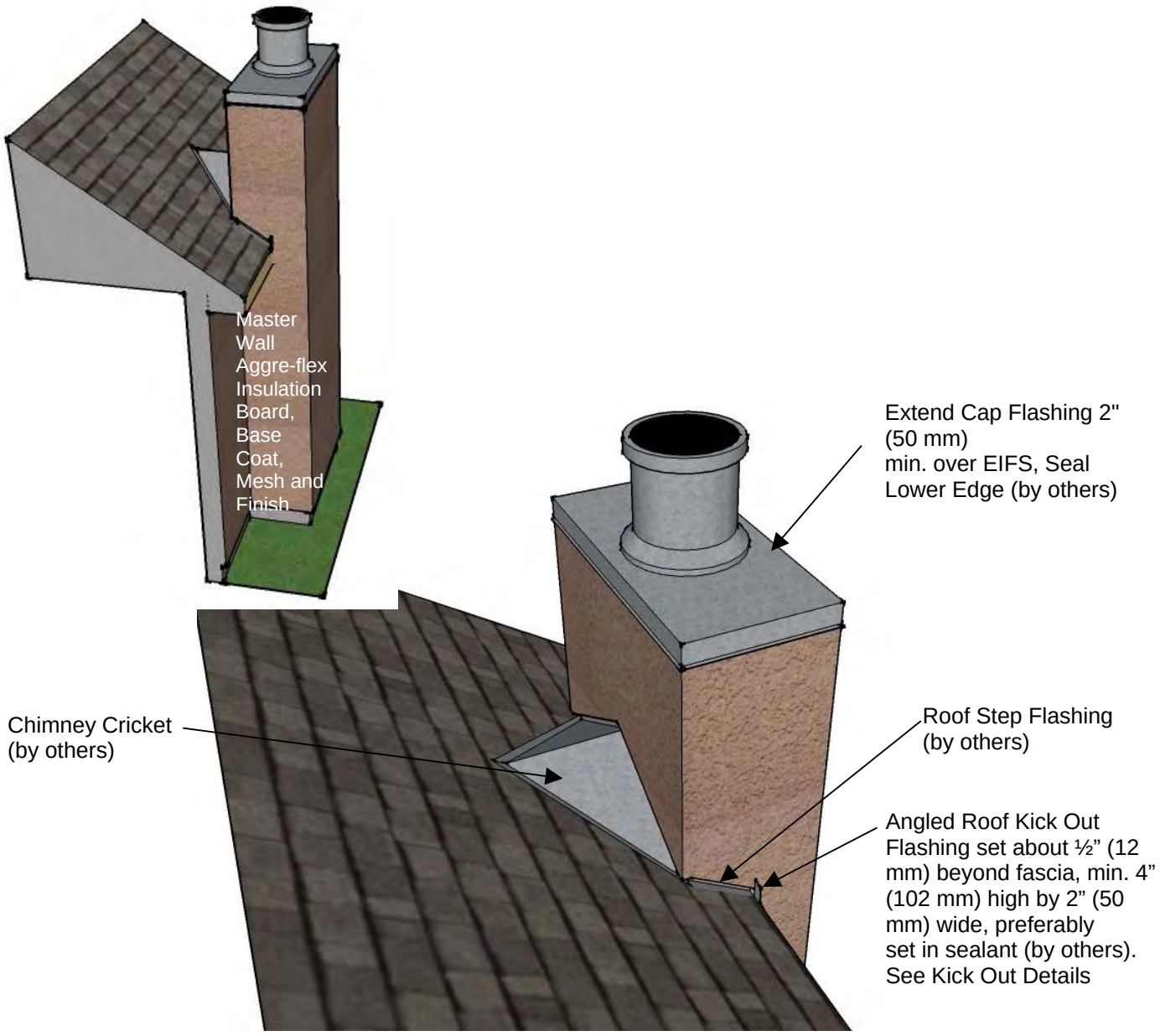

MWAF-28 CHIMNEY FLASHING DETAIL

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