



General Applicator Training

Systems & Products Overview



About Master Wall

- Founded in 1987 – focused on EIFS
- Grew rapidly during the early years, mainly through customer satisfaction and professional staff
- Developed quality materials based upon 100% pure acrylic formulations
- Expanded national distribution – about 80 locations with outstanding local service
- Full service Technical and Sales assistance



Original Mixer

Our original mixer 20 years ago was a 2-speed, stationary mixer with props placed on top of a 30 gallon stainless steel pot. The mixing process was extremely slow and could only yield 3 pails per batch. Originally, the mixing took place at night after the building occupant's staff had left. It was several months before we purchased our first ribbon blender.



Current Mixers

The process of mixing today has grown in size and volume. With three mixers, we can produce thousands of pails in a single shift. As growth continues, planning for new blenders is ongoing. A fourth and fifth blender will be added in the coming months.

Our Payson, Utah, plant also has a capacity for several hundred pails per shift.



Mission Statement

- To manufacture the highest quality EIFS and related products (coatings, adhesives, etc.) available in the market.
- To be the service leader of our industry in the region and areas that we market our products
- To be respected in our industry because of honesty and integrity within our ranks
- To encourage our employees to set the highest standards possible for their careers and their personal lives by supporting them through education, training and sharing any God given wisdom we may obtain. To compensate all employees in such a way that they can support themselves and their families in a comfortable manner.
- To seek God's guidance in all decisions, and to give Him glory for any results.



General Information

- Please reference the specific product data sheets or contact Master Wall for project-specific recommendations
- This program is published for general informational purposes only and is not intended to imply that these are the only materials, procedures, or methods, which are available or suitable. Materials, procedures, or methods may vary according to the particular circumstances, local building code requirements, design conditions, or statutory and regulatory requirements. While the information in this specification is believed to be accurate and reliable, it is presented without guarantee or responsibility on the part of Master Wall Inc.
- Photographs may or may not depict the specific system but demonstrate the techniques used in the proper application of the products



Learning Objectives

- General Installation Steps for EIFS and Stucco
- General Systems Overview with Critical Details
- Installing a Sheet Water Barrier
- Products



Basic Commercial Stucco Cladding Types

- Aggre-flex EIFS
- Aggre-flex Drainage EIFS
- Aggre-flex Commercial Drainage EIFS
- Rollershield Drainage EIFS
- One Coat Stucco
- Cemplaster Stucco
- Drainage DEFS
- Stucco Cement Board Coatings
- Insulated Concrete Forms
- Uninsulated Finishes
- Soffit Systems



Basic Residential Stucco Cladding Types

- Aggre-flex Drainage EIFS
- QRW1 EIFS
- One Coat Stucco
- Cemplaster Stucco
- Drainage DEFS
- Stucco Cement Board Coatings
- Insulated Concrete Forms
- Uninsulated Finishes



General EIFS Installation Steps

Common steps in the installation
process



EIFS Design Basics

- A secondary water barrier is required for residential construction, optional for light commercial (depends on codes)
- System breaks at penetrations
 - $\frac{1}{2}$ " to $\frac{3}{4}$ " wide sealant joints are the norm, fillet-type sealant joints are allowed in residential construction
- Sealant bridges between the EIFS and wall penetrations
- Plastic trims or backwrapping may be used where the system ends
- Insulation thickness varies from $\frac{3}{4}$ " to 1" minimum to a maximum 4" as allowed by code ($\frac{5}{8}$ " to 2" for Class PI Systems)
- Insulation Board keeps inside wall temperatures more consistent.



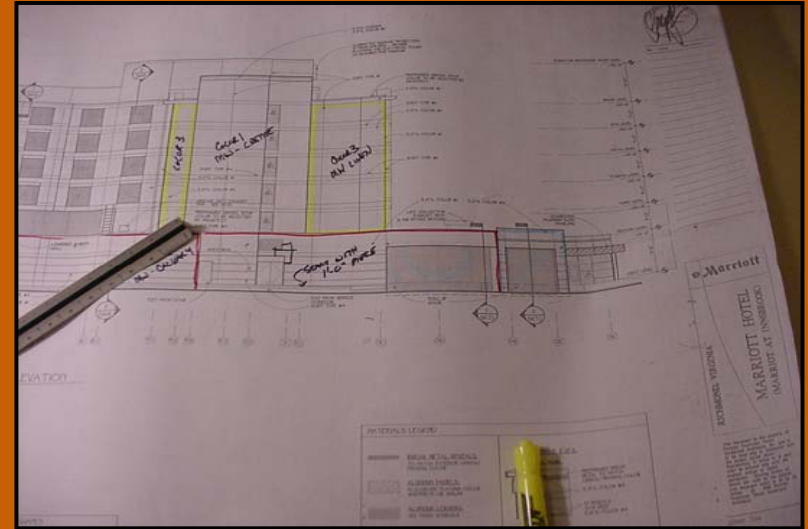
Submitting

- Review any special colors – get with your distributor
- Submit your bid with a Master Wall Specification Package available from your distributor or our web site.
- Submit slim texture panels or foam texture samples if necessary
- Call Tech Services if you have any questions



Planning the Job

- Are the materials delivered on site and protected from the environment?
- View the wall, plan the insulation board layout, approved colors and textures
- Do you have enough manpower?
- Do they have the tools to complete the job?



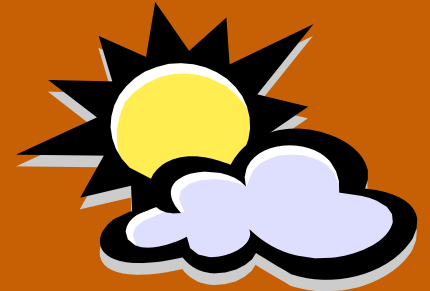
Scaffolding

- It's your work surface, set up your scaffold for ease of application.
- Follow OSHA Guidelines
- Work in the shade when applying finish to avoid scaffold lines in the work



Environmental Conditions

- Will the temperature remain at 40⁰F and rising during the installation of the system?
- Will I need visqueen to protect the base coat or finish from rain?
- Will I need supplemental heat?



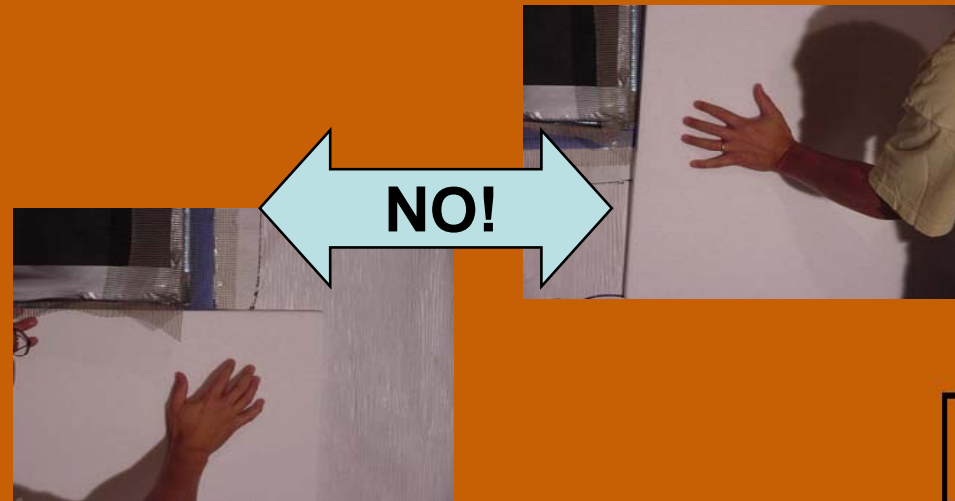
Substrates

- Are they approved by Master Wall (see data sheets or call tech services)?
- Painted Surfaces – Call Master Wall
- Substrate should be relatively flat (1/4" in 10'-0")
- Substrate deflection shall be limited to L/240 or greater
- Flat substrates mean easier application. Notify the general contractor in writing about out of plane substrates
- Are the sheathings properly gapped and reasonably secured? Look for the stamp



Planning the Work

- Start planning from the bottom of the system up
- Plan to cut the insulation around openings, don't line them up

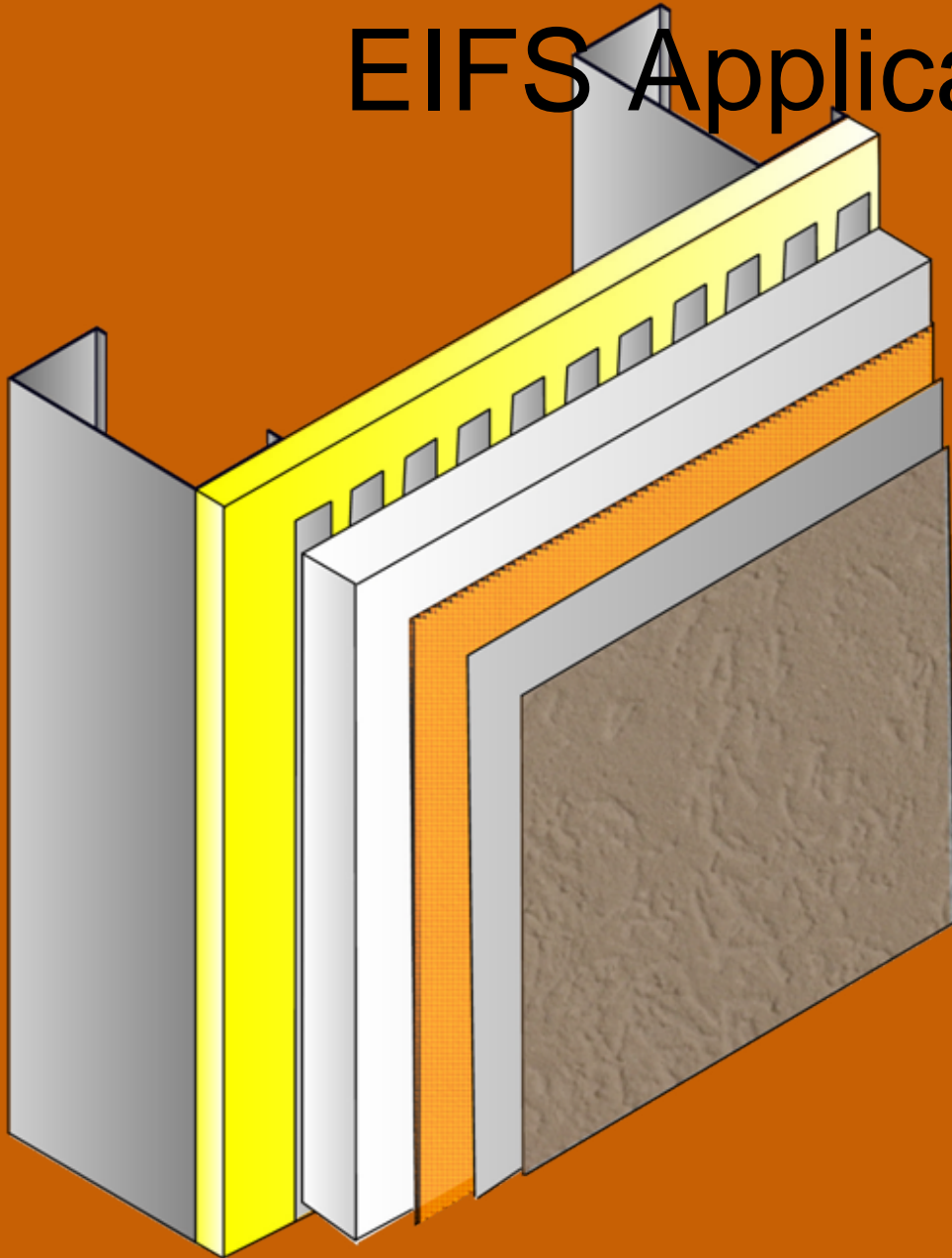


Protection

- Protect surrounding areas from spills, etc.
- Felt paper may be used on the ground
- Plastic or specialty tapes can protect window and door openings



EIFS Application Basics



- **Aggre-flex System**

- Approved substrate & framing
- Master Wall Adhesive
- Master Wall Insulation Board
- Master Wall Mesh
- Master Wall Base Coat
- Superior Finish



EIFS Backwrapping (Step 1)

- Attach the detail mesh to the substrate (staples, nails, spots of adhesive) where the system ends
- Note how the detail mesh hangs loose under the system.
- An alternate method for some systems is to wrap the mesh onto the substrate and framing



Continuous Water Barrier

- Insulation board can be run through openings, then cut to size
- Rased flush and mesh is returned onto framing



The insulation is run wild into the windows then cut back



Insulation Layout

- Install insulation in a running bond pattern
- Offset insulation boards from the corners of openings
- Stagger the insulation joints from the sheathing joints by at least 6"



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Technical

MWA-F06 MESH APPLICATION

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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Starting Insulation Application

- Cut your insulation board to width so the joints will not align with heads and sills of openings
- Interlock the inside and outside corners



Butt Tightly

- Place the insulation in the running bond (brick) pattern
- Butt the insulation boards tightly



Insulation Slivers

- Use slivers to fill in any gaps in the insulation board. Widen the joint if necessary to insert the sliver
- There should be no gaps larger than 1/16"
- Do not fill gaps with base coat – it will likely crack



Openings

- If backwrapped, measure for an expansion joint (expansion joint width plus 1/8" to 1/4" for base coat)
- Cut, rasp smooth and round all corners for an easier application



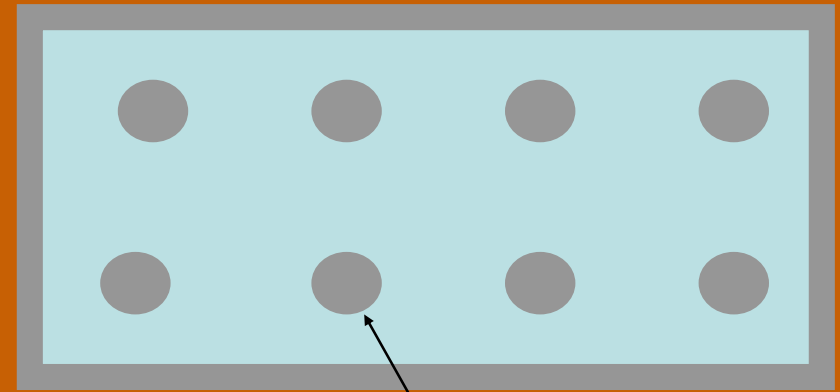
Insulation Application - Adhered

- Apply adhesive to the insulation using the correct notched trowel
 - 3/8" x 3/8" for cement adhesives
 - 3/8" x 1/2" U-notch for EPSA
- Press the insulation into place
- Periodically check adhesion of insulation board by pulling off a piece- the adhesive should be on both sides



F&M Adhesive Application

- Over Non-Gypsum Substrates
 - Use Notched Trowel Method
 - Or use Ribbon and Dab Technique using a stainless steel trowel
- Ribbon and Dab is sometimes useful if you need to level the wall



Ribbon

2" wide x 3/8"
high

8-Dabs

4" diameter x
3/8" high



Adhere F&M & Adhesives

- When complete with the adhesive application, immediately place the prepared insulation board on the substrate
- Make sure 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 F&M mixture directly on the substrate
- Allow to set 8-12 hours depending upon weather conditions



Insulation Application Mechanical

- Use only approved fasteners
- Install according to Master Wall's pattern
- Set fasteners just below surface of the insulation board



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PATTERN "A" FOR NAILABLE SUBSTRATE

PATTERN "B" FOR STUDS @ 16" O.C.

MWAF-Q3 FASTENER PATTERN

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Spot Fasteners

- Spot fasteners with base coat after rasping
- This levels the surface and makes the base coat work easier
- Minor cracking may occur – this is normal

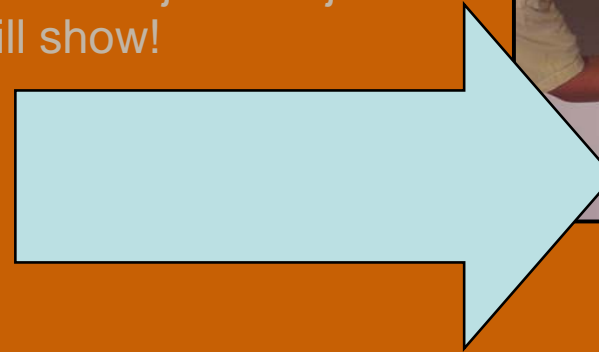


Rasping

- Adhesive systems should set a minimum of 12 hours prior to rasping
- Rasp the entire surface of the insulation board in a circular motion to remove oxidation and make the surface ready for base coat
- Level any surface irregularities by rasping



Don't sand just the joints —
it will show!



Grooving

- Cut any grooves into the insulation board using a hot groover or router
- Use a straight edge to keep the joints straight
- Always keep at least $\frac{3}{4}$ " of insulation board under groove to prevent cracking



Backwrap (Step 2)

- Apply base coat to the inside and outside face of the insulation board
- Bend the mesh onto the face of the board
- Corner trowels and brushes help neaten the job



Butterflies

- Butterflies or corner reinforcement add additional strength to the corners to help prevent cracking
- Simply embed a 9x12 piece of standard or detail mesh into the corner



Mesh Application

- Make sure substrate is level and ready to receive base coat/mesh depending upon application
- Apply base coat to the surface
 - Approx. 1/16” for Standard Mesh
 - Approx 3/32” for Ultra Mesh
- Embed mesh into wet base coat
- Smooth from center to the edge
- Lap meshes 2-1/2” minimum (Except Strong & Ultra Mesh)
- Butt Strong and Ultra Meshes and apply a second layer of Standard Mesh after the base coat has dried



Reinforcing Mesh

- Cut mesh to a workable length and set aside for base coat
- Install Strong and Ultra Mesh in 2-layer systems only
- Mesh is always embedded into base coat, never “pinned” on the wall



Base Coat

- The base coat is the weather barrier!
- Complete backwrapping where applied by applying base coat to the insulation board edge and face. Embed mesh into the base coat bringing it onto the surface of the board.
- Apply the base coat over the insulation board about 1/16" thick.



Base Coat Application

- Embed the mesh into the wet base coat and trowel smooth
- Add base coat as necessary to fully embed the mesh
- When dry the base coat should be a nominal 1/16" thick for Standard Mesh, a slight pattern is acceptable
- Allow to dry at least 12 hours before applying more base coat or finishing



Base Coat Concerns

- All exposed mesh must be re-coated with base coat (top)
- Marginal applications (bottom) should be evaluated for their size
- Tip: if you're in a hurry keep some Quick Set MBB around for these common touch-ups



Base Coat Leveling

- Minor imperfections such as fins or droppings are easily leveled by scraping with your trowel or using a rub brick



Touch up at Sealant Joints

- It's fairly common to have exposed mesh where the detail mesh turns onto the face
- Touch up these areas with more base coat or Quick Set MBB if you're in a hurry
- Where sealants are to be used the base coat must be thick with no mesh pattern or color showing

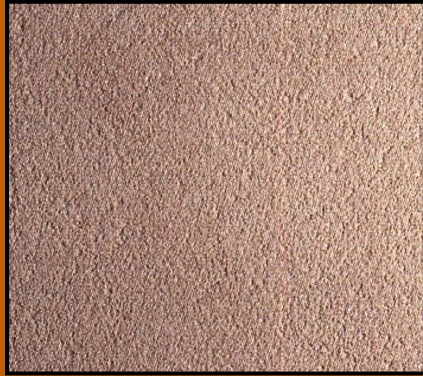


Finish Application

The best jobs finish with Master Wall

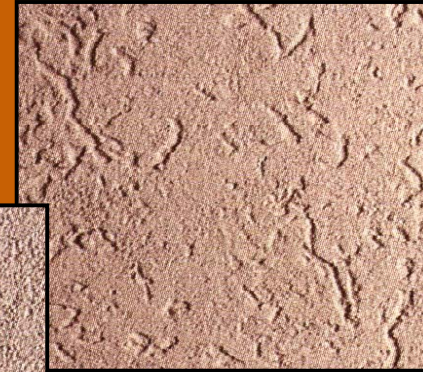


Superior Finishes



- Spray

- Desert Sand



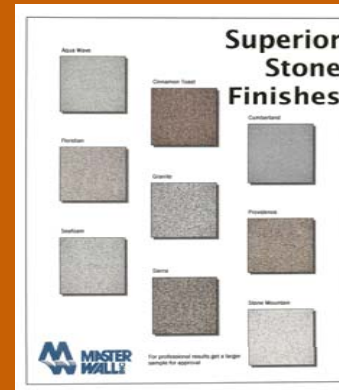
- R-Coarse

- Refinish



- Perfect

- Superior Stone & Aggre-stone



Planning the Work

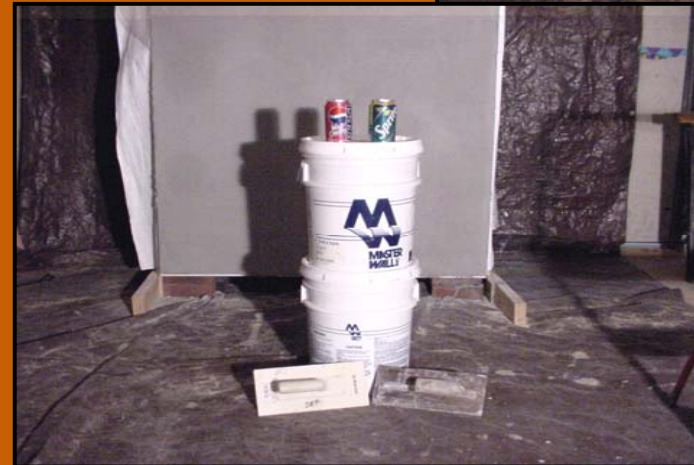


- The finish is your final step. It makes or breaks the project
- Plan your work to avoid direct sunlight – it can cause irregular drying (scaffold lines)
- Work from corner to corner or at least aesthetic joint to aesthetic joint to eliminate the effect of cold joints
- Always maintain a wet edge to avoid cold joints
- Avoid overly hot walls, they'll make texturing difficult



Superior Finishes

- Mix with a drill and a Wind-Lock B-MTW mixing paddle
- Small amounts of water may be added for workability – don't exceed 24 ounces per pail
- To ensure color consistency add the same amount of water per pail



Finish Application by Trowel

- Apply the finish to a clean, dry and cured base coat using a stainless steel trowel
- Level the surface to a uniform thickness equal to the largest aggregate in the finish



Floating the Finish

- Float the finish using a plastic float
- Use a standard pattern to eliminate the chatter marks (ridges) and create the final textures
- Big circles, little circles, figure 8's are common patterns
- Make sure you use the same pattern throughout the job



Finish Drying & Cleanup

- Finish will firm set under normal room temperatures in 8 to 12 hours and fully set in 48 to 72 hours
- Protect the finish from rain and temperatures less than 40°F for a minimum of 24 hours
- Clean wet finish with soapy water



Finish Application by Spray

- Prime the base coat with Master Wall Primecoat, allow to dry
- Keep spray gun at a 90° angle to the wall
- Use a circular overlapping motion
- Apply the finish evenly
- Be careful not to flood an area with too much finish as it will appear different when it dries



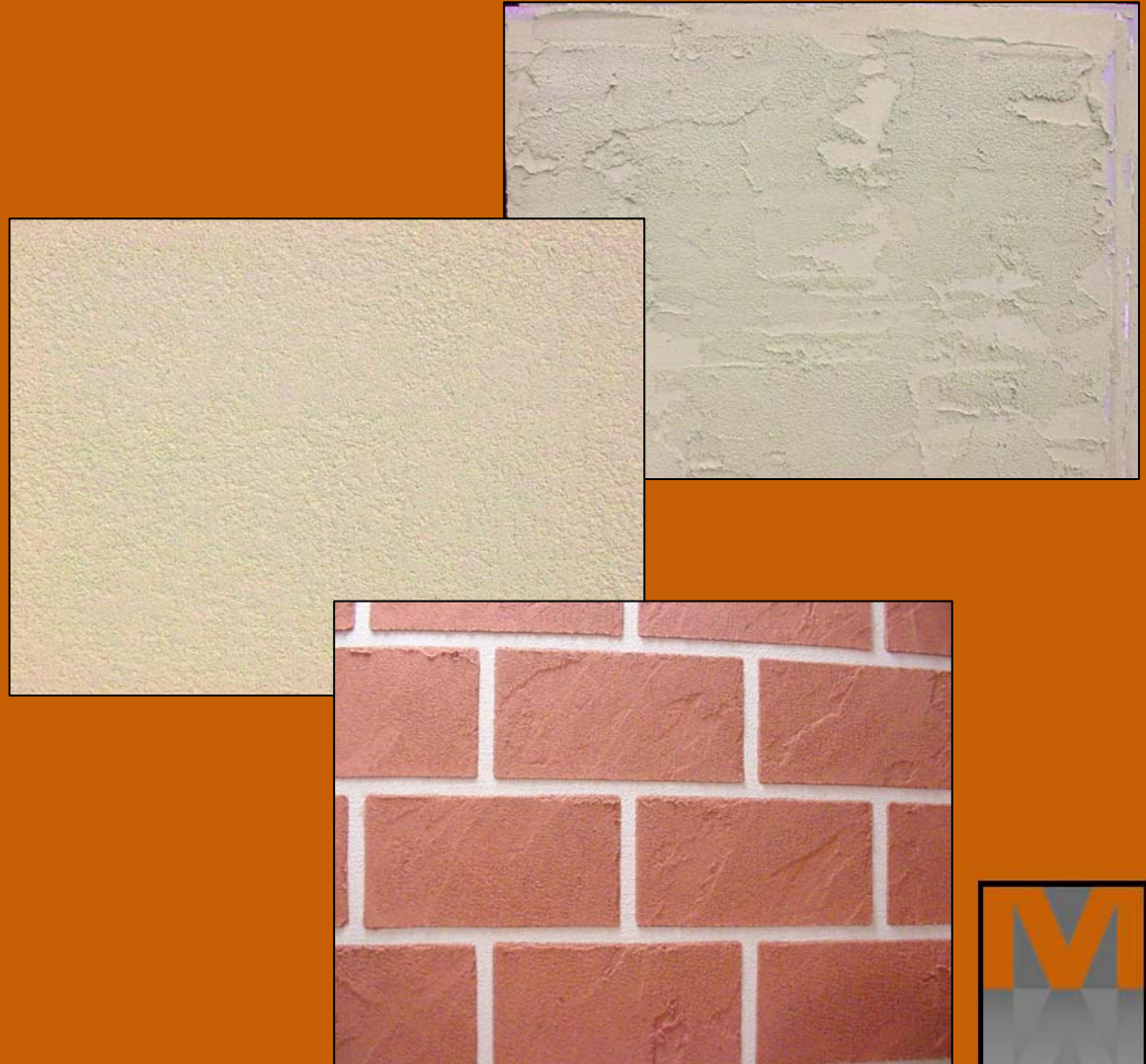
Detailing at Sealant Joints

- Do not return finish into sealant joints
- If there are concerns about base coat showing through you may run the finish into the joint for color then remove the aggregate completely



Refinish Application

- Refinish can be trowel applied and textured in a one coat or two coat operation
- It may also be spray-applied over a base coat primed with Primecoat
- Makes an excellent leveling base if applying new finishes
- Master Wall has bulletins and techniques available



Superior Stone & Aggre-stone Application

- Prime the base coat with Primecoat tinted to match the general color of the stone
- Typically applied in a 2-coat application
- The first coat may be trowel or spray applied
- The second should be sprayed



General Stucco/OCS Installation Steps

Common steps in the installation
process



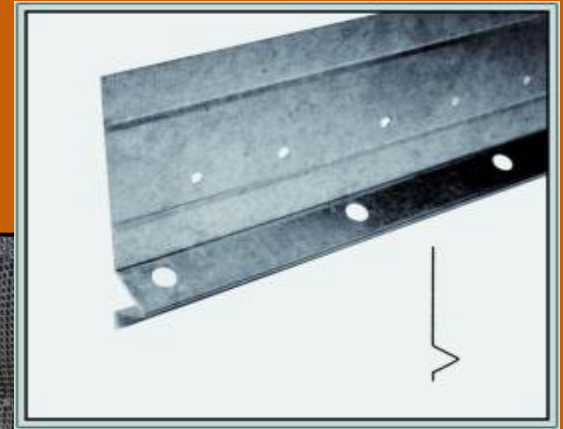
Stucco/OCS Design Basics

- A secondary water barrier is required for sheathing applications – 2 layers
- System breaks at penetrations
 - Very little guidelines are available. Sometimes the stucco is run tight to penetrations, other times a small sealant joint is used
- Plastic, galvanized or zinc trims are used, sized for the stucco thickness (ground)
- Control joints are used to help reduce cracking
 - 144 s.f. maximum wall area
 - Length to width ratio no more than 2.5:1
 - Possibly off corners of windows/doors and at dissimilar substrates
- Avoid layouts that form unusual shapes (L, U, T)



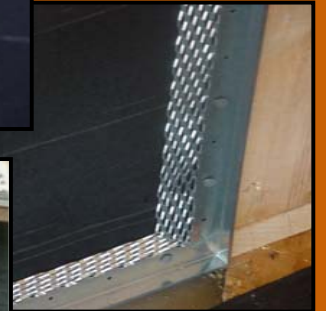
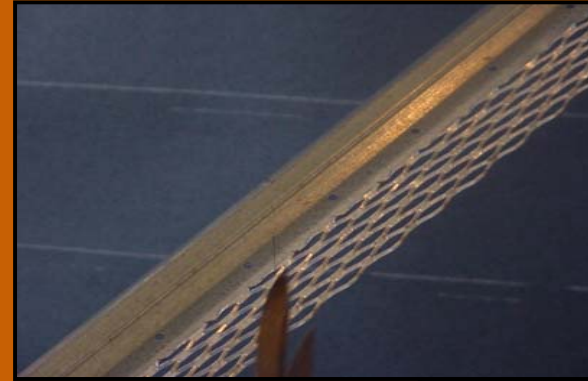
Weep Screed

- Install stucco weep screed (also called sill screed)
- Place level, approximately 2" onto the foundation wall, but at least 6" above grade
- For Traditional Stucco with acrylic finish use $\frac{3}{4}$ " grounds for $\frac{7}{8}$ " overall thickness (commercial), $\frac{1}{2}$ " grounds for $\frac{5}{8}$ " overall thickness (residential)
- For OCS we typically recommend $\frac{1}{2}$ " thickness



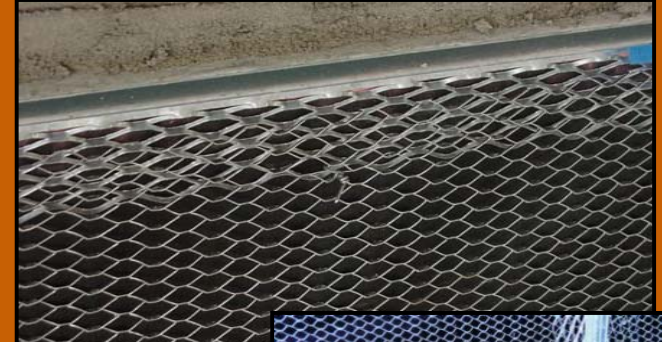
Casing Beads

- Install Casing Beads where the system ends – mainly windows and doors
- Leave a sealant gap as required by the architect
- Fasten to substrate/framing every 6”



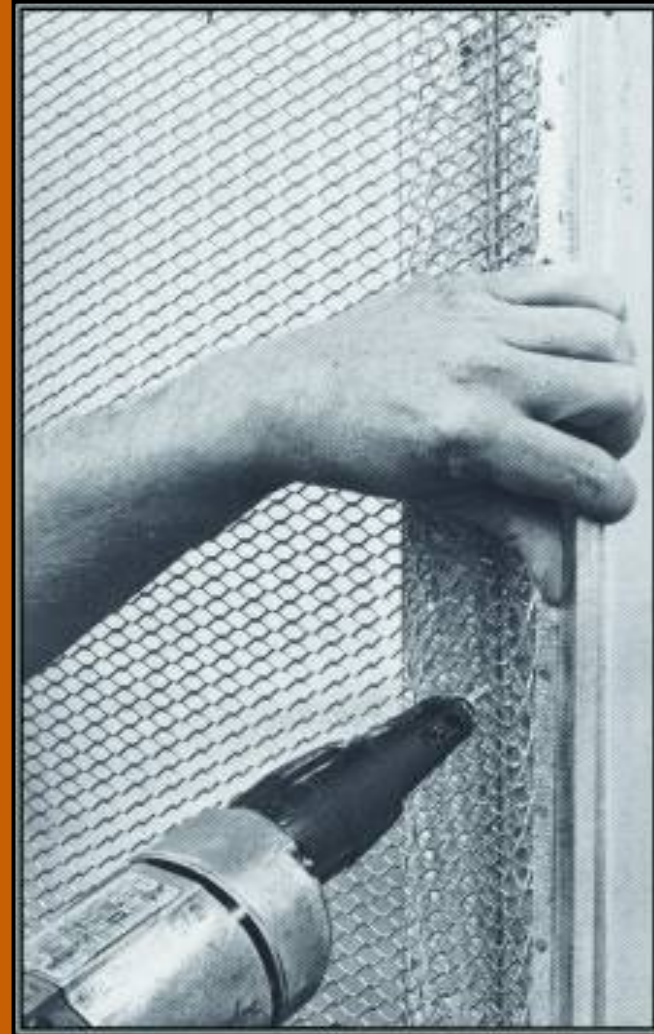
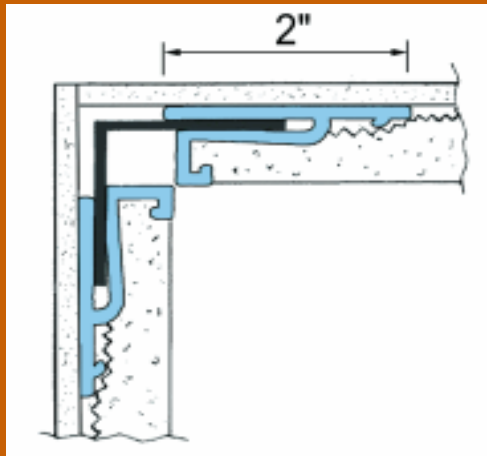
Control Joints

- Add control joints where shown on the drawings.
- Strike level lines
- Tack in place, do not nail to substrate.
- Seal all joints, set control joint laps in sealant



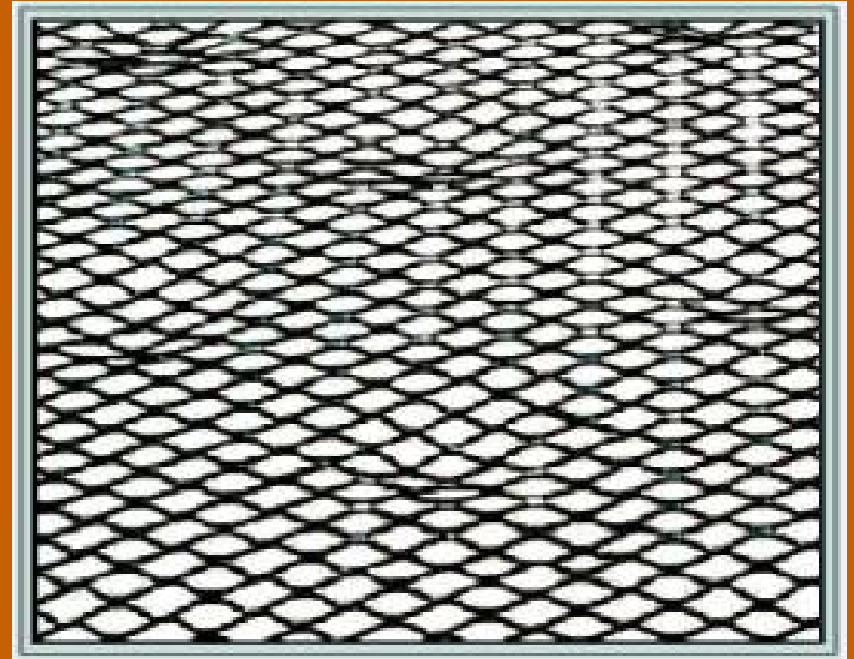
Inside Corners

- Use either casing or control joints at inside corners



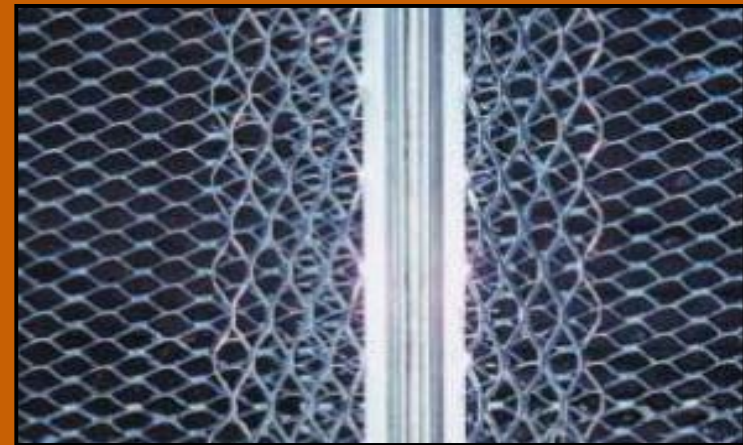
Metal Lath

- Several kinds available
 - 2.5 or 3.4 #/sy most common
- Self furred to space lath out from wall
- Widths vary by manufacturer
 - Each piece covers approximately 16 square feet



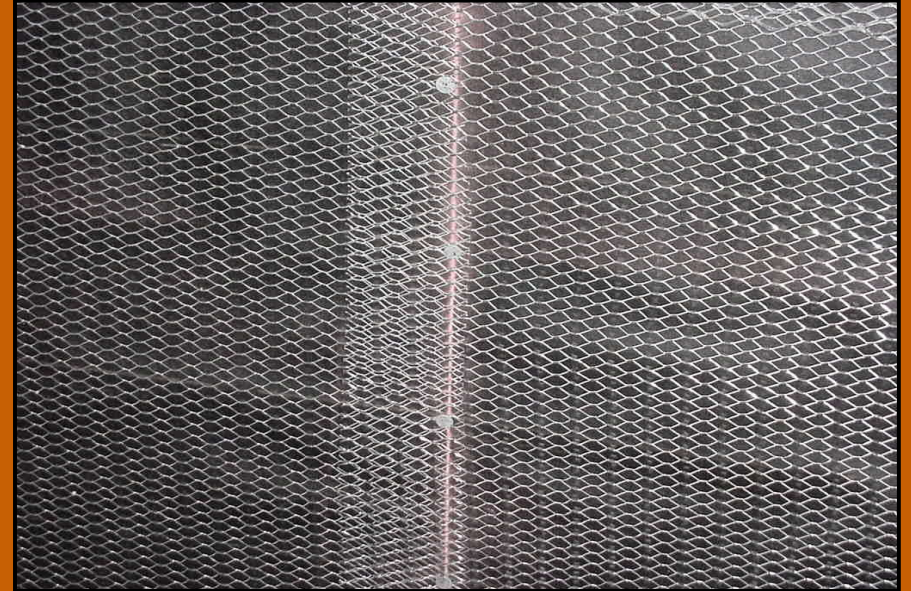
Lath Installation

- Install with long dimension at right angles to framing
- Lap seams at least $\frac{1}{2}$ ", sides at least 1"
- Run at least 2" over accessories
- Break at control joints
- Stagger pieces so side laps don't line up



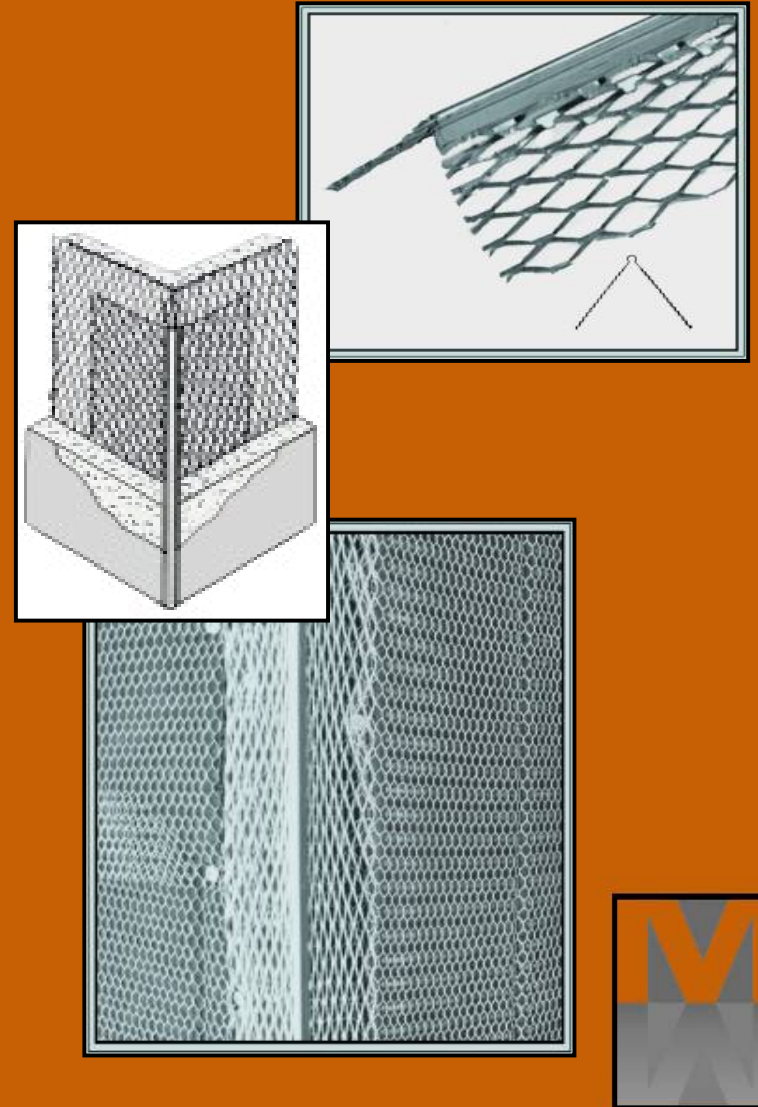
Lath Installation

- Plan your layout
- It's best to have lath end at a structural framing member
- If not, wire tie lath together every 6"
- Fasten through sheathing into framing member



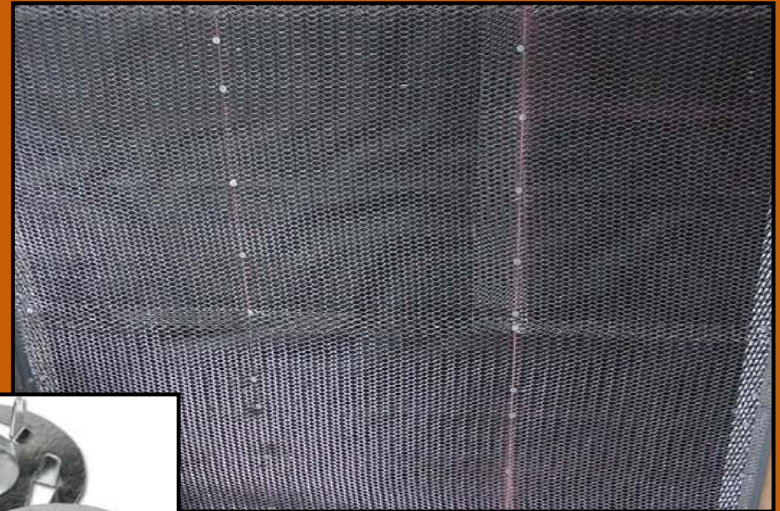
Lath Installation

- Plan for corners
 - Lath may be cut at corners if corner bead or cornerite is used
 - If not, lath must run continuously to the first structural framing bay (minimum)
 - Attach through lath to framing every 6"



Lath Attachment

- Attach to framing members every 6"
 - Nails, some staples, lath locks
- Wire tie laps every 8"
- Wire tie control joints every 6"
- Attach 9" x 12" diagonal corner reinforcement at windows and doors that do not have expansion joints



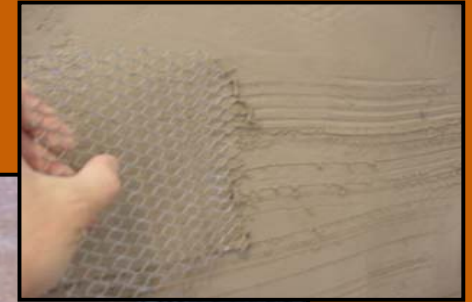
OCS/Cemplaster Mixing

- Mixing proportions are in specifications or on data sheet
- Add $\frac{1}{2}$ to $\frac{2}{3}$ of water
- Add Stucco Ad Liquid (if used)
- Add fibers (if in mix)
- Add $\frac{1}{2}$ sand
- Add cement
- Add balance of sand/water
- Mix from three to five minutes until fully blended



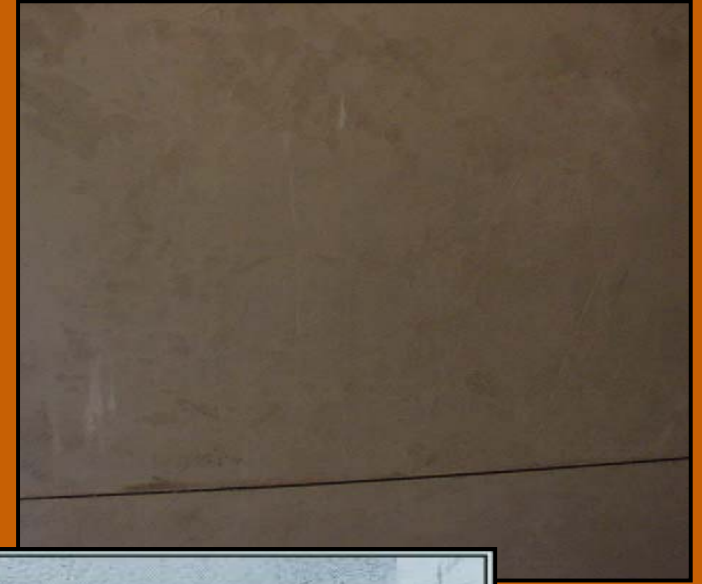
Scratch Coat

- Apply with pressure to embed stucco mix into the metal lath
- Finish to an approximately half the total thickness
- Scratch or score the surface horizontally (Cemplaster)



Brown Coat

- Start brown coat as soon as the first coat is firm enough to hold it
- Add material out to grounds
- Use a rod or Darby to level the surface
- Level or float the surface to even the surface



Stucco Curing

- Moist cure stuccos by fogging for at least 48 hours
- Spray down walls with gentle pressure using clean, potable water
- If humidity is high (75% plus) and wind movement is low fogging requirements can be reduced
- Allow stucco to cure at least 7-14 days before priming or finishing
- Base Coats and trim pieces for Level III systems (high acrylics) can start after initial curing



Attaching and Adding Foam Trim

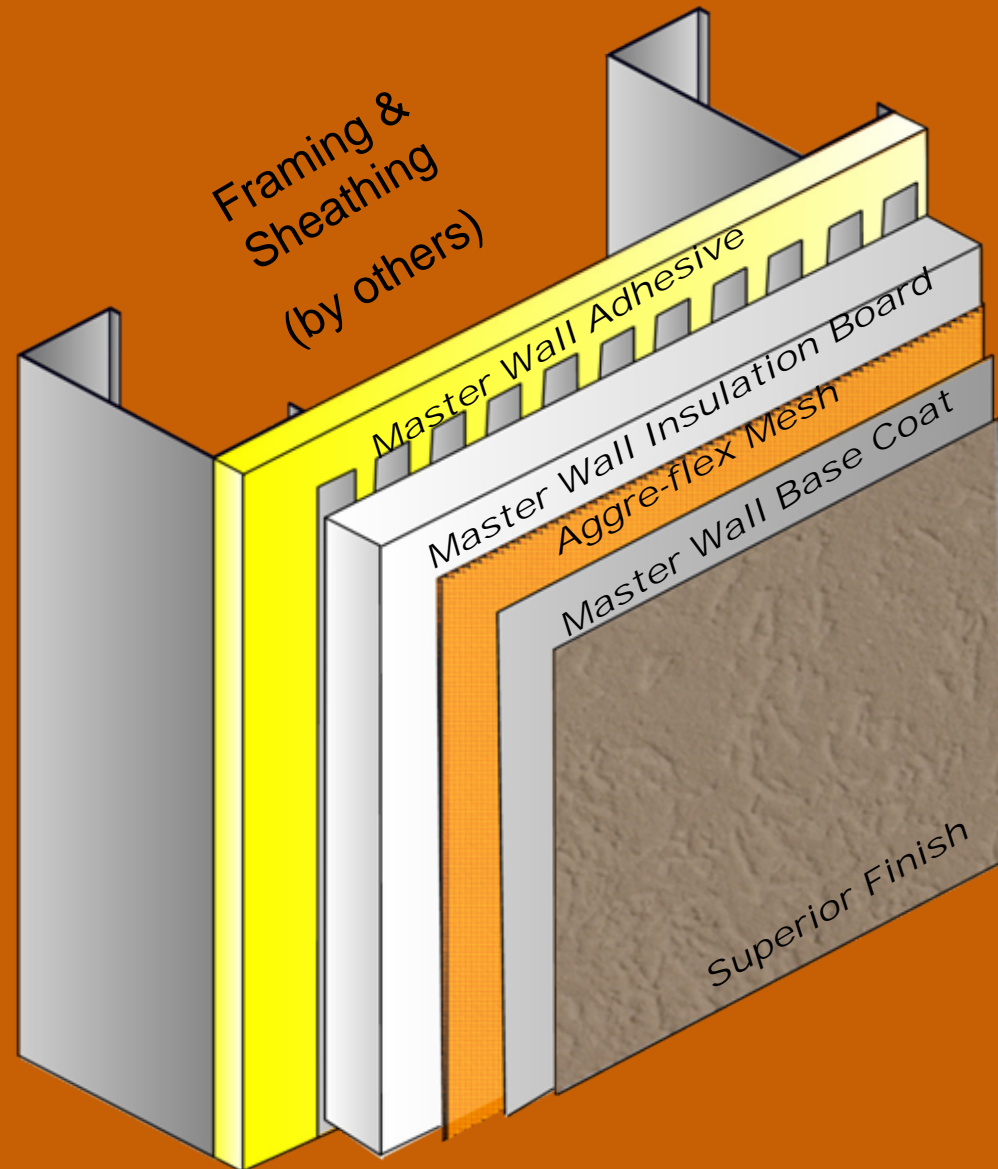
- Cut insulation pieces to desired size
- Attach to wall using F&M, MBB base coat or specialty adhesives
- Rasp and mesh following Aggre-flex guidelines
- Do not run trim pieces through control joints or other expansion joints. Backwrap and use an expansion joint if needed



Master Wall Systems



Aggre-flex System Components



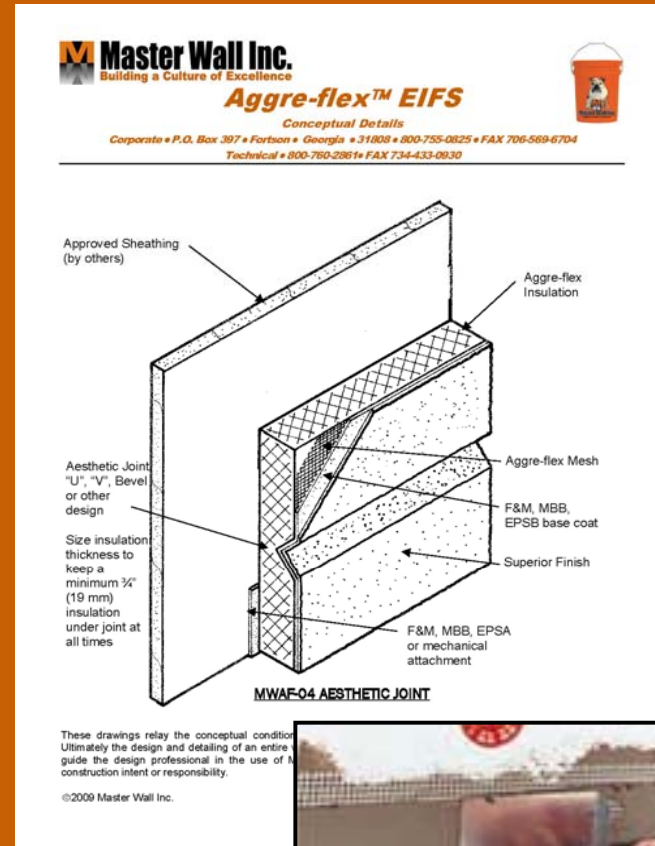
Details

Aggre-flex EIFS



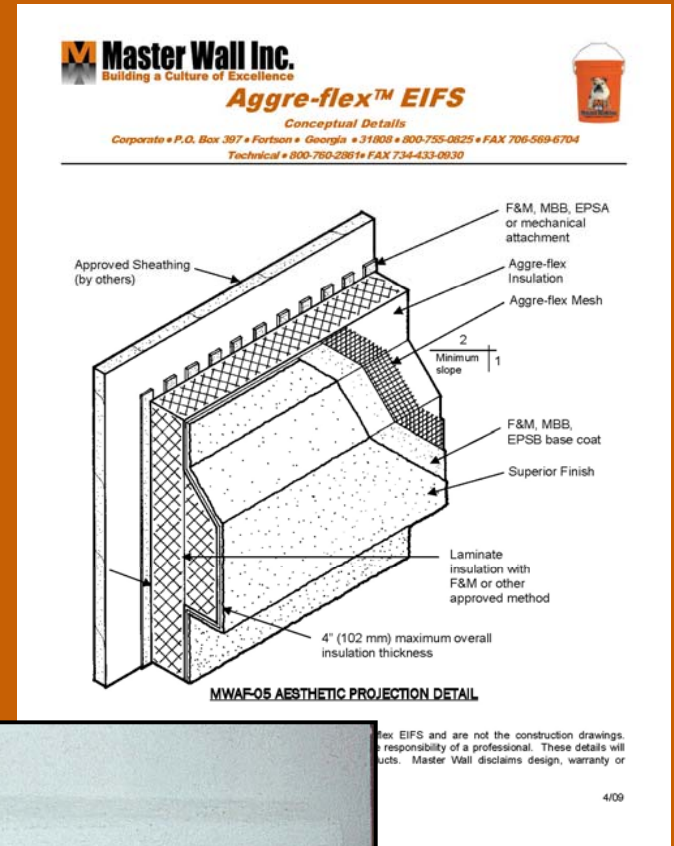
Aesthetic Joint

- Keep at least $\frac{3}{4}$ " of insulation under the system at all times
- Many different types of shapes are available



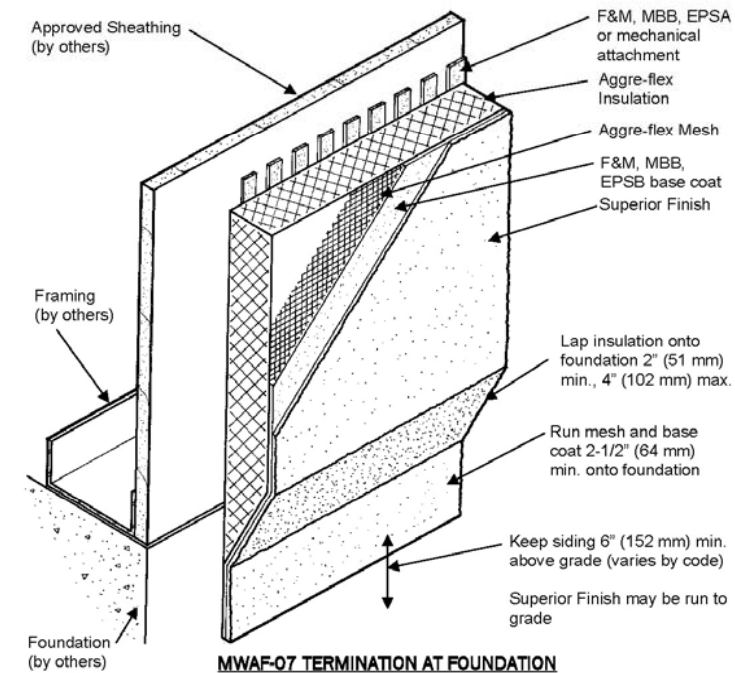
Aesthetic Projections

- Commonly used as window trim or banding, cornices or other dramatic features
- Slope the top to shed water (1:2 or 6:12 minimum)
- Usually adhered with F&M or MBB
- Foam shapes over 6" deep should be temporarily fastened until adhesive cures (if large shapes are approved by local code body)



Foundation Detail

- Bevel insulation edge
- Run reinforced base coat onto foundation at least 2-1/2"
- Finish with Master Wall finishes
- Keep insulation at least 6" to 8" above grade depending upon Code

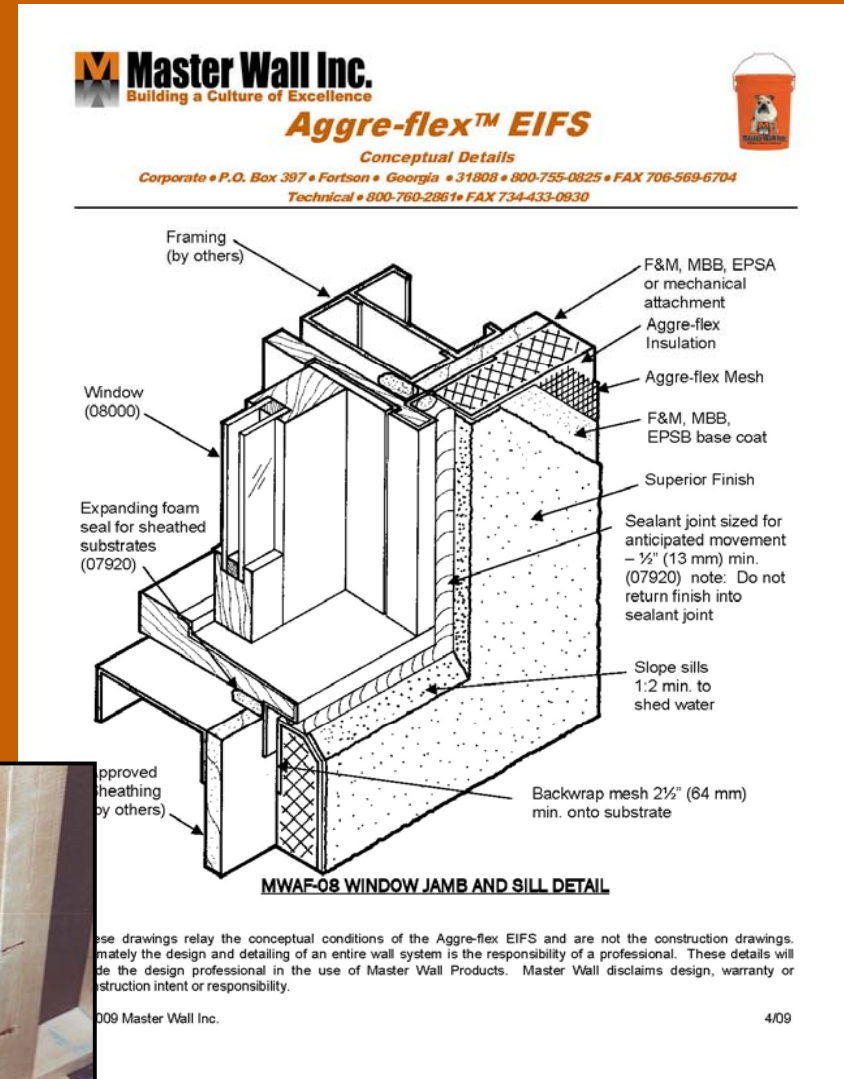


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Window Jamb – Flanged

- Backwrapping is necessary for flanged windows
- Leave a ½” minimum expansion joint area for sealants
- Window is inspected by window trades and sealed by sealant trades



Window Sill - Flanged

- Backwrapping is necessary for flanged windows
- Leave a 1/2" minimum expansion joint area for sealants
- Bevel edge to shed water if EIFS extends past sill (1:2 minimum)

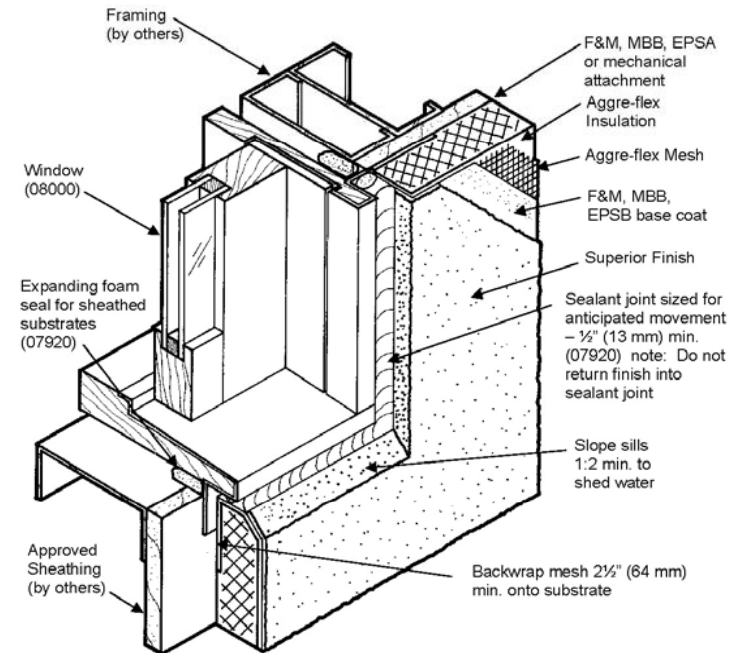
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Aggre-flex™ EIFS

Conceptual Details

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MWAF-08 WINDOW JAMB AND SILL DETAIL

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Window Head - Flanged

- Backwrapping is necessary for flanged windows
- Leave a 1/2" minimum expansion joint area for sealants
- Check to see if head flashing is required by the window manufacturer

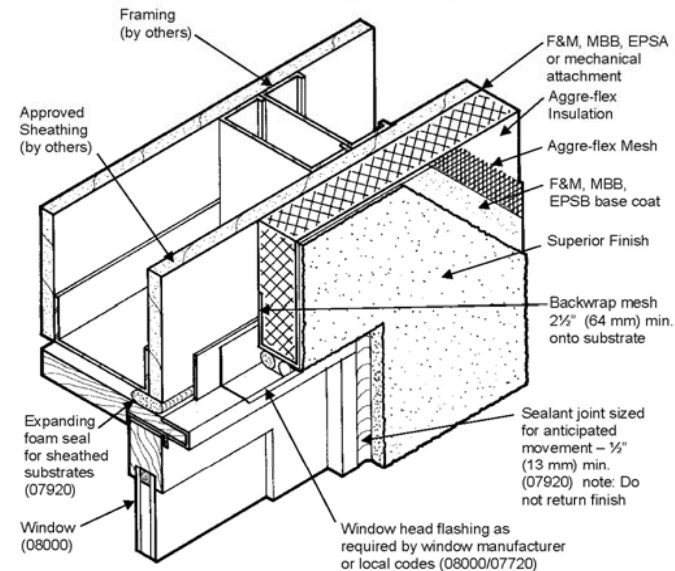
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MWAF-09 WINDOW HEAD AND JAMB DETAIL

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Window – Without Flange

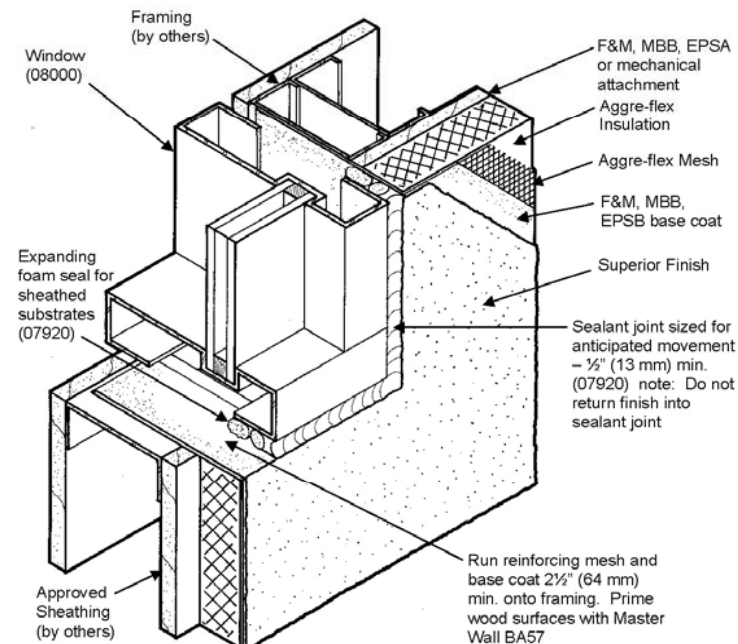
- Simply run the mesh and base coat onto the framing
- Prime wood framing with BA57
- Window is inspected by window trades and sealed by sealant trades

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MWAF-10 WINDOW JAMB AND SILL DETAIL
(window head similar)

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Door Head and Jamb

- Backwrapping is necessary for doors
- Leave a 1/2" minimum expansion joint area for sealants
- Check to see if head flashing is required by the door manufacturer

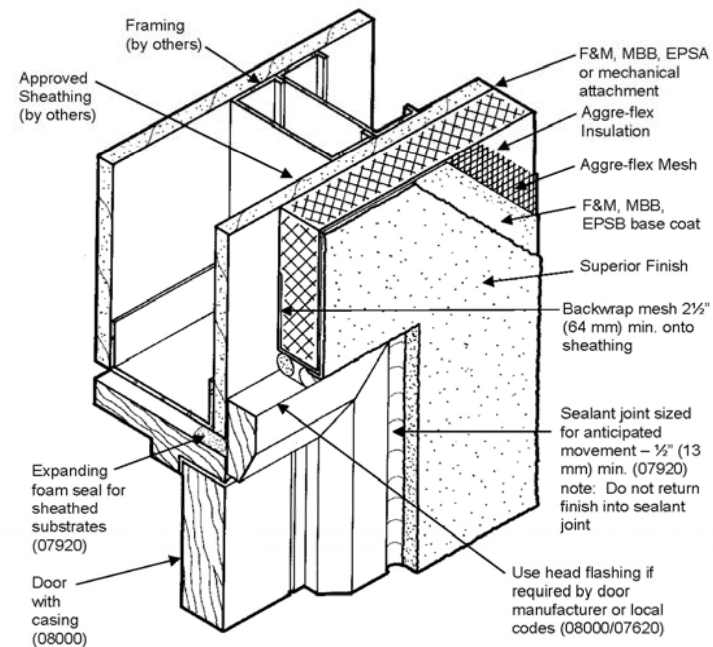
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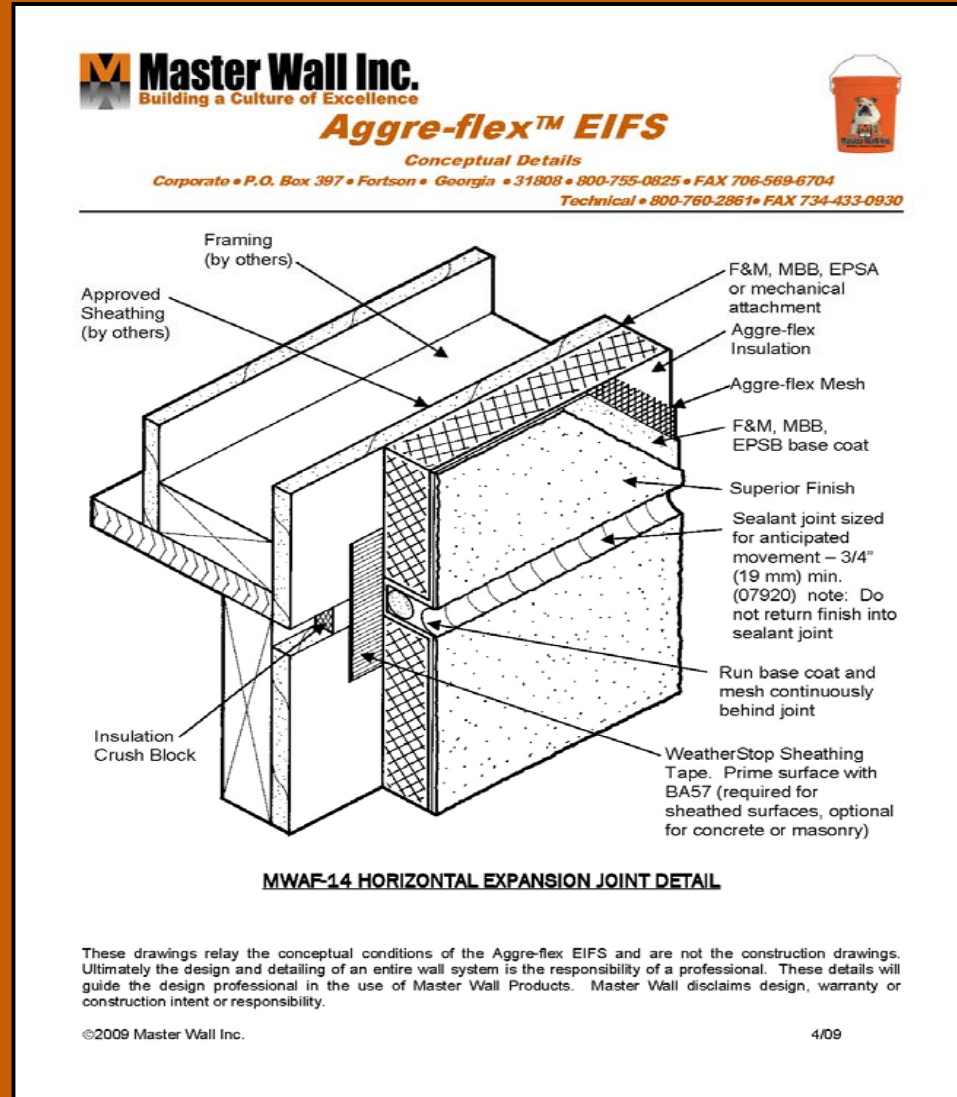
MWAF-11 DOOR HEAD AND JAMB DETAIL

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Horizontal Expansion Joint

- Fill expansion area in sheathing with compressible material (such as insulation board)
- Prime the sheathing with BA57
- Apply WeatherStop Flashing Tape
- Run base coat and mesh continuously in the opening
- Sealant trades seal moving joint



Dissimilar Substrates

- Applied the same way as a horizontal expansion joint

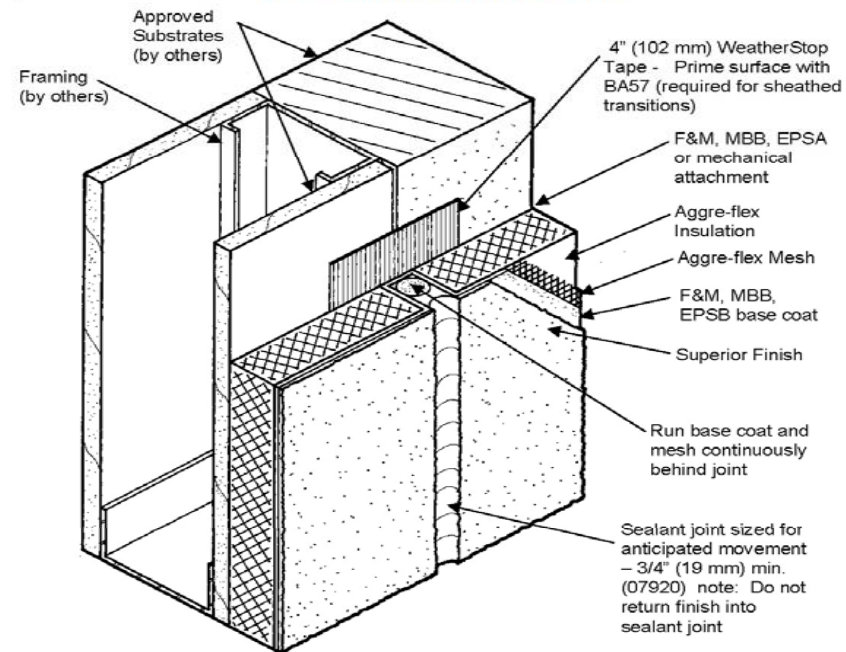
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MWAF-15 DISSIMILAR SUBSTRATES DETAIL

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Dissimilar Materials

- Run reinforced base coat onto substrate
- Prime wood sheathing with BA57
- Alternatively backwrapping can be used




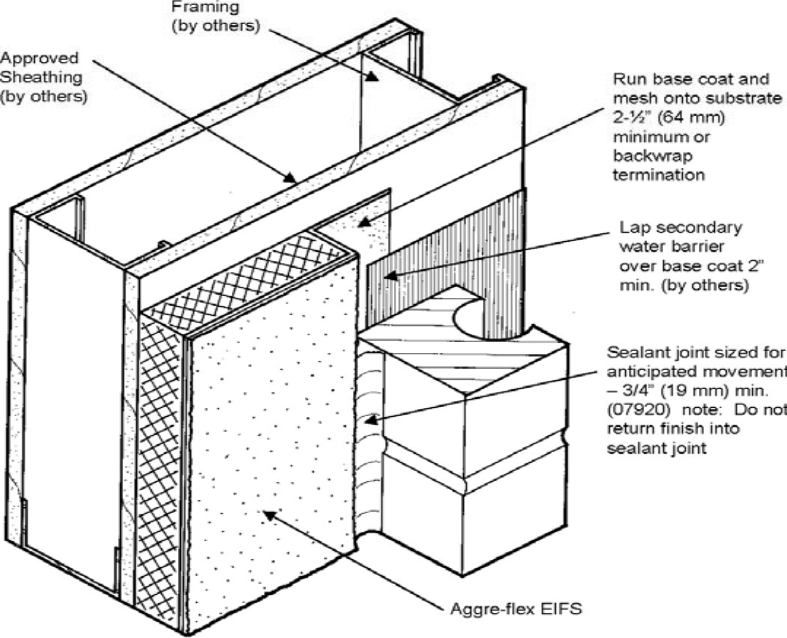
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Framing (by others)

Approved Sheathing (by others)

Run base coat and mesh onto substrate 2-1/2" (64 mm) minimum or backwrap termination

Lap secondary water barrier over base coat 2" min. (by others)


Sealant joint sized for anticipated movement - 3/4" (19 mm) min. (07920) note: Do not return finish into sealant joint

Aggre-flex EIFS

MWAF-16 DISSIMILAR MATERIALS DETAIL


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Deck Flashing

- Fill expansion area in sheathing with compressible material (such as insulation board) if required
- Insulate entire area if deck location is not known
- Cut out and remove insulation at deck area
- Prime wood sheathing with BA57
- Run base coat and mesh continuously in the opening
- Sheet metal and sealant trades complete the operation

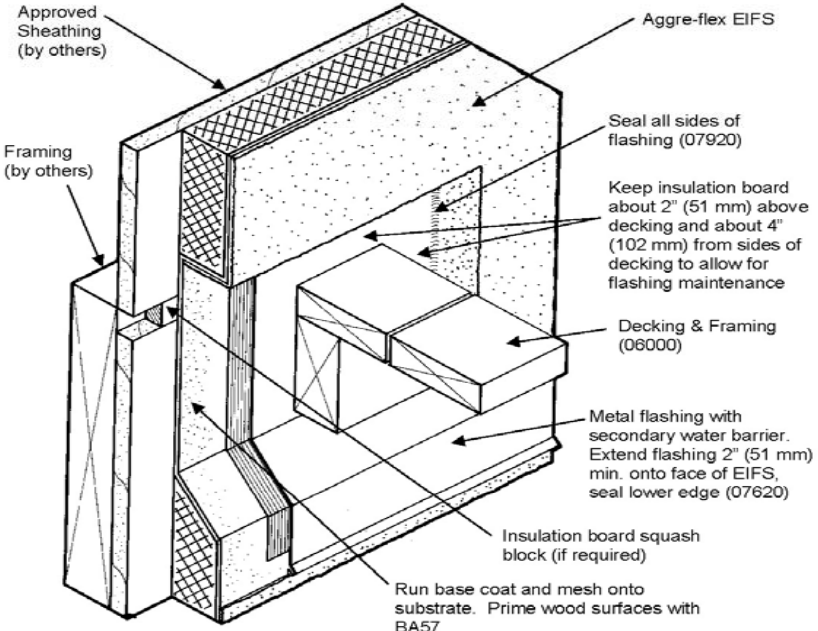


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Approved Sheathing (by others)

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Seal all sides of flashing (07920)

Keep insulation board about 2" (51 mm) above decking and about 4" (102 mm) from sides of decking to allow for flashing maintenance

Decking & Framing (06000)

Metal flashing with secondary water barrier. Extend flashing 2" (51 mm) min. onto face of EIFS, seal lower edge (07620)

Insulation board squash block (if required)


Run base coat and mesh onto substrate. Prime wood surfaces with BA57

Framing (by others)

MWAF-17 DECK FLASHING DETAIL


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Plumbing Penetration

- Plumbing can be added any time before finish
- Cut out insulation board around pipe
- Prime wood substrate with BA57
- Run base coat and mesh continuously into opening
- Sheet metal, plumbing and sealant trades complete the job




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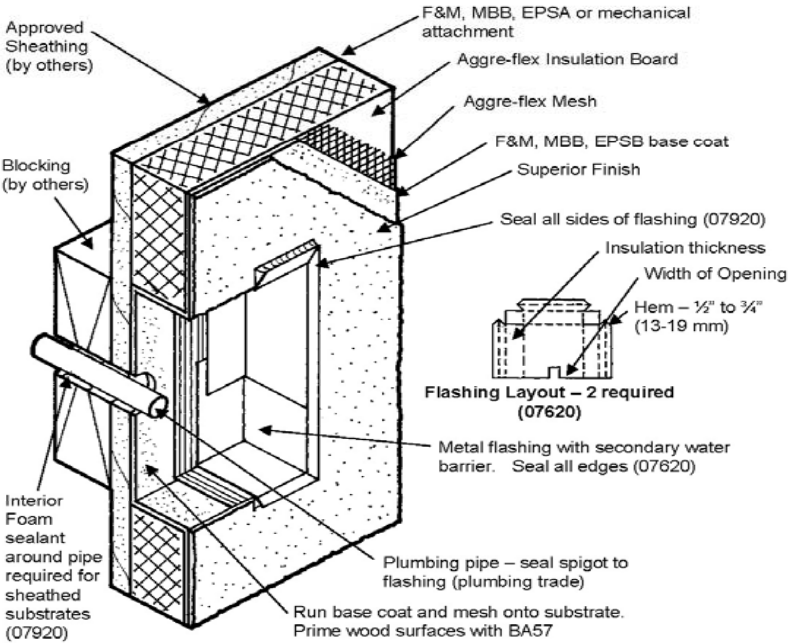


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MWAF-18 PLUMBING PENETRATION DETAIL

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Downspout Attachment

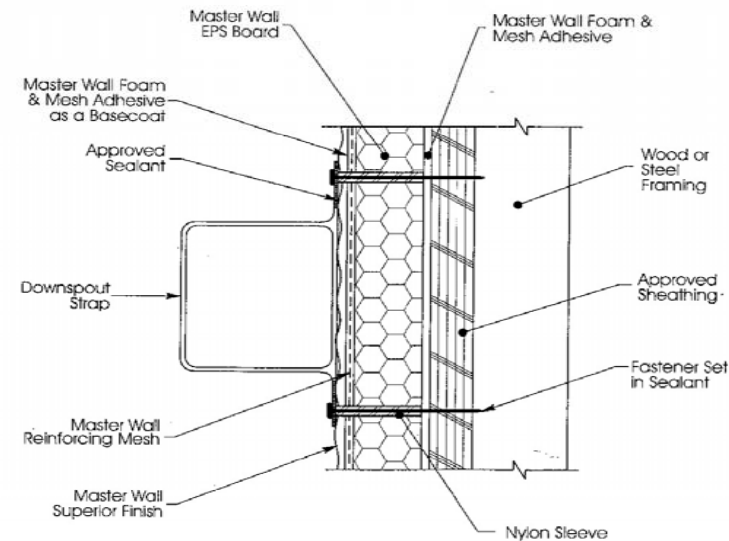
- Use sleeves to prevent crushing the insulation
- Set everything in sealant

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MWAF-19 DOWNSPOUT ATTACHMENT DETAIL


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Pipe Penetration

- Pipe can be added anytime before finish
- Reinforced base coat run continuously around the opening
- Sealant trades complete the job



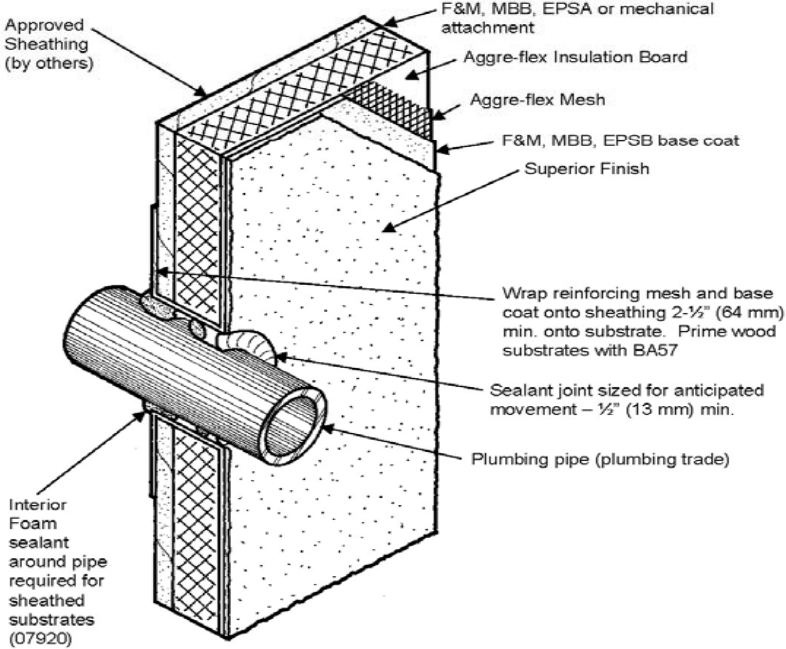
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MWAF-20 PLUMBING PENETRATION DETAIL

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Detailing the Pipe



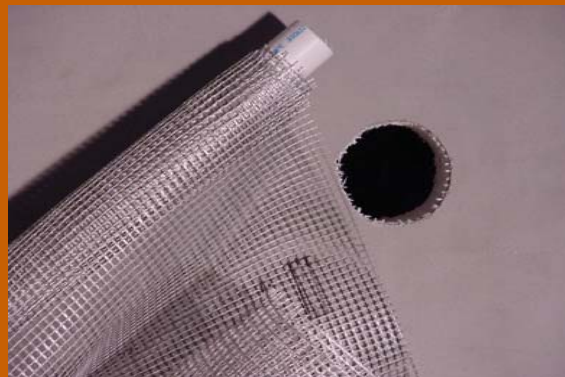
1. Size the opening for the pipe diameter plus 1-1/4" for sealant



2. Cut the opening with a drywall or reciprocating saw



3. Clear the opening of any debris



4. Wrap the pipe with detail mesh sized to extend 2-1/2" out either side of the opening



Detailing the Pipe



5. Place the mesh in the hole and allow to expand. Trowel in



6. Cut and splay the mesh on each side of the opening. Use bent margin trowels if access to the back of the sheathing isn't available



7. Opening is ready for pipe and exterior/interior sealants



Structural Fastener

- For signage or other elements
- Use structural sleeve set in sealant
- Space signage out from EIFS for ventilation

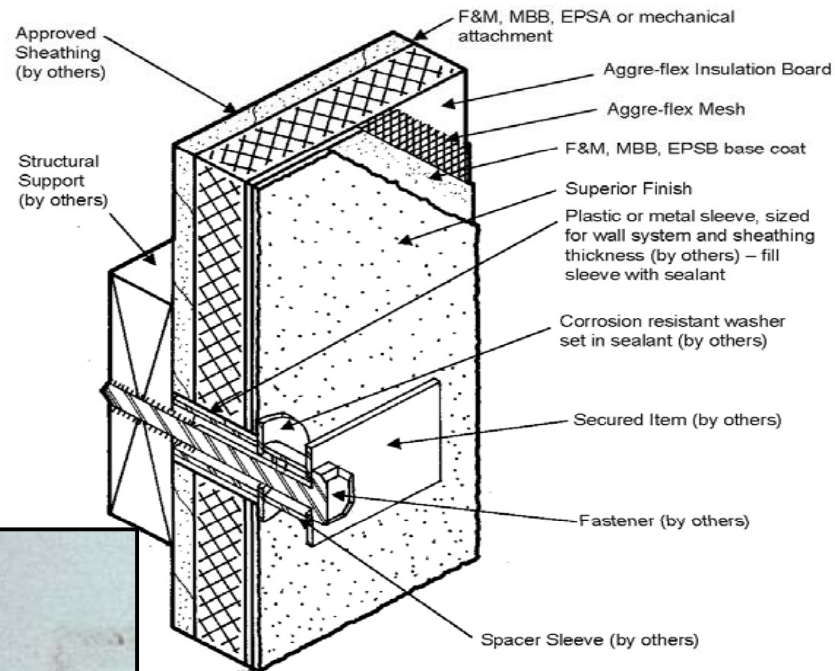
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MWAF-21 STRUCTURAL FASTENER DETAIL

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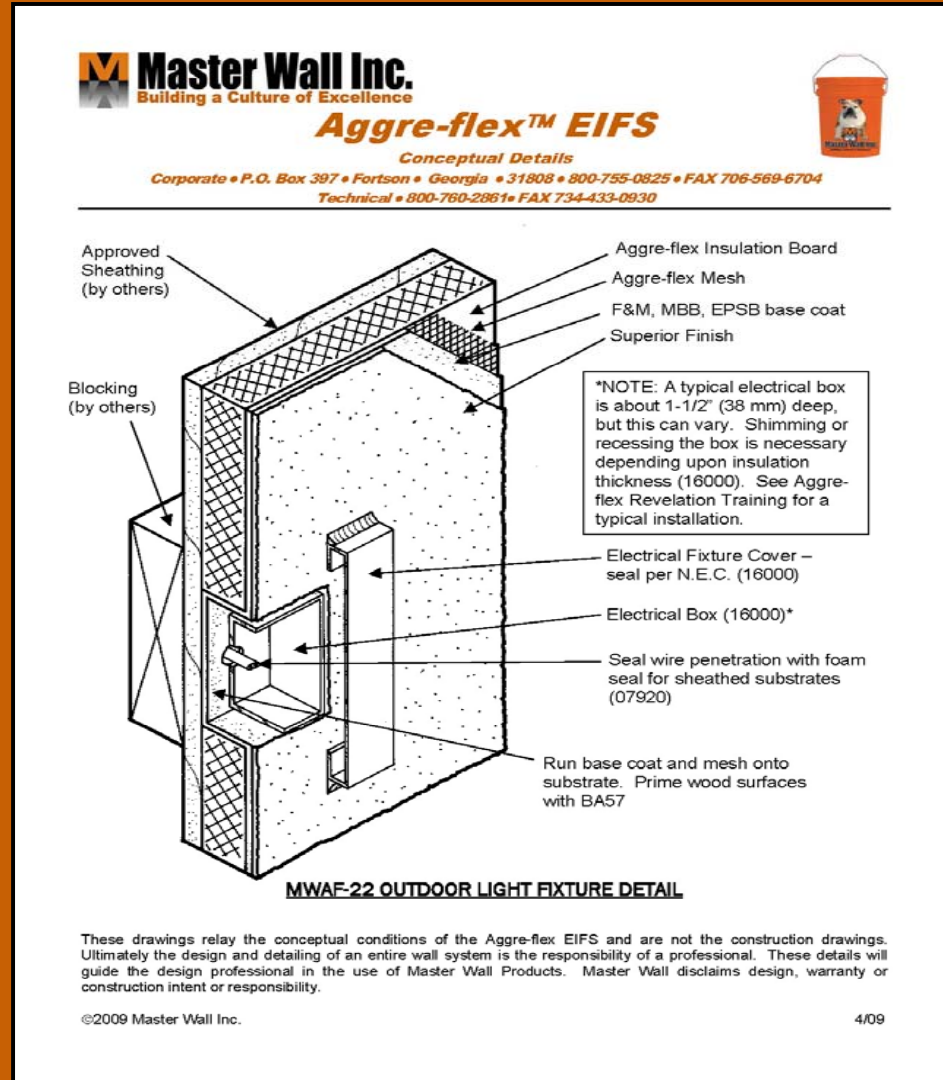
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Light Fixture


- Light fixtures can be added any time before finish
- Cut out insulation board about 1/2" (13 mm) larger than the electrical box
- Prime wood substrate with BA57
- Run base coat and mesh continuously into opening
- Electrical contractor installs box, fixture and sealant to complete the job




Electrical Box

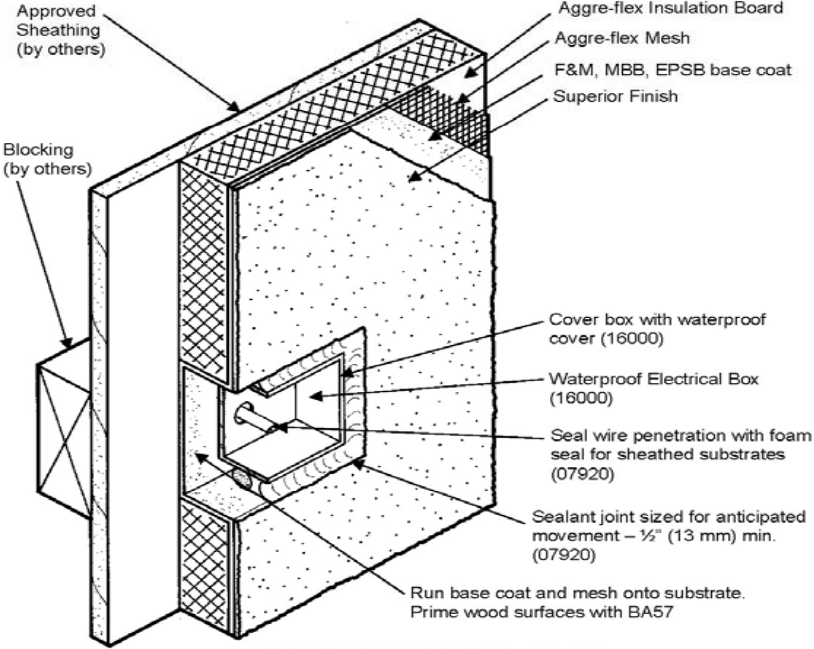
- Electrical boxes can be added any time before finish
- Cut out insulation board around the opening – make about 1-1/2" (38 mm) larger than the box
- Prime wood substrate with BA57
- Run base coat and mesh continuously into opening
- Electrician installs box and sealant contractor seals it





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MWAF-23 ELECTRICAL OUTLET DETAIL

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Soffit/Gable

- Prime wood substrate with BA57
- Run base coat and mesh continuously into onto substrate – 2-1/2" (64 mm) minimum



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MWAF-24 EIFS-SOFFIT DETAIL

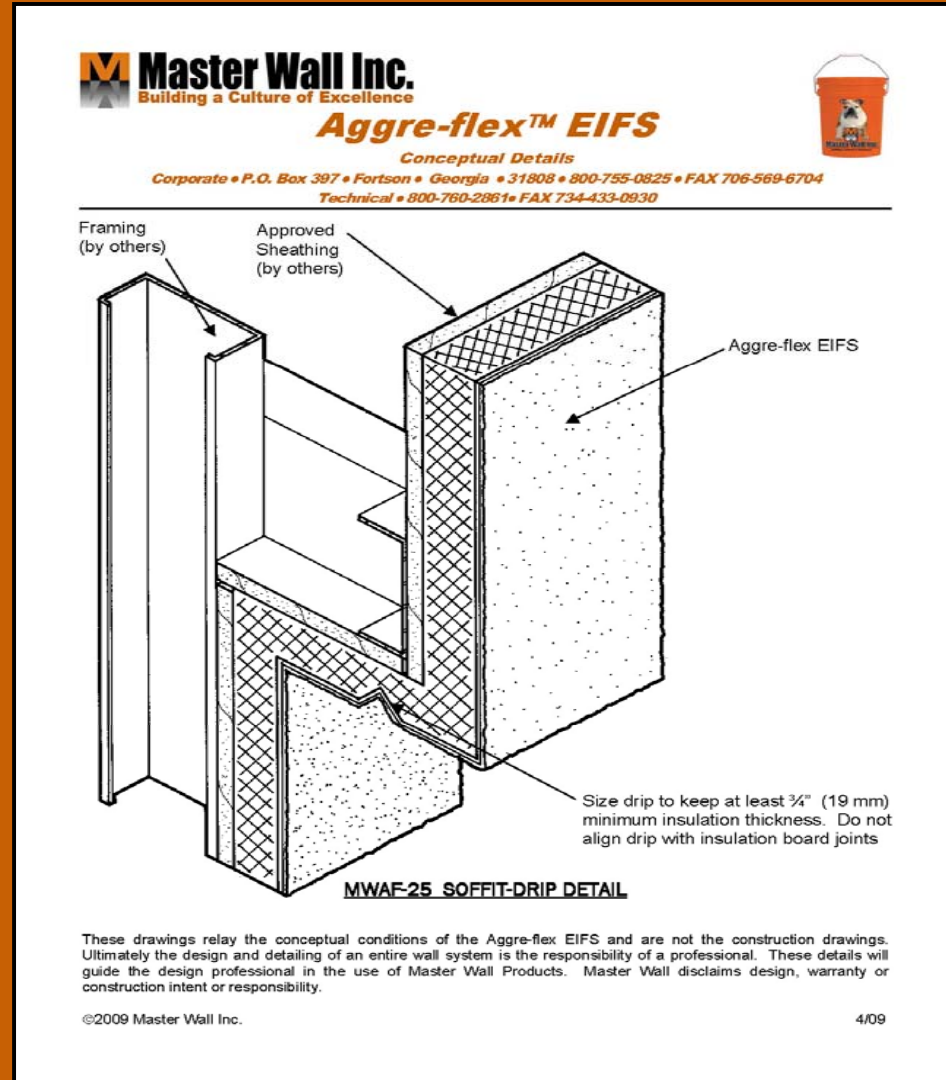
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Soffit/Drip

- Cut aesthetic groove for the drip edge
- Leave at least $\frac{3}{4}$ " (19 mm) of insulation under the groove
- Run base coat and mesh continuously



Roof/Wall Intersection

- Backwrapping is necessary for roof intersections
- Confirm the flashing and building felt extends at least 4" (102 mm) up the wall according to NRCA requirements
- Keep the system about 1" to 2" (26-51 mm) above the roof
- Install kick out flashing at the end (either roofing or EIFS trade)
- Sealant contractor finishes the job



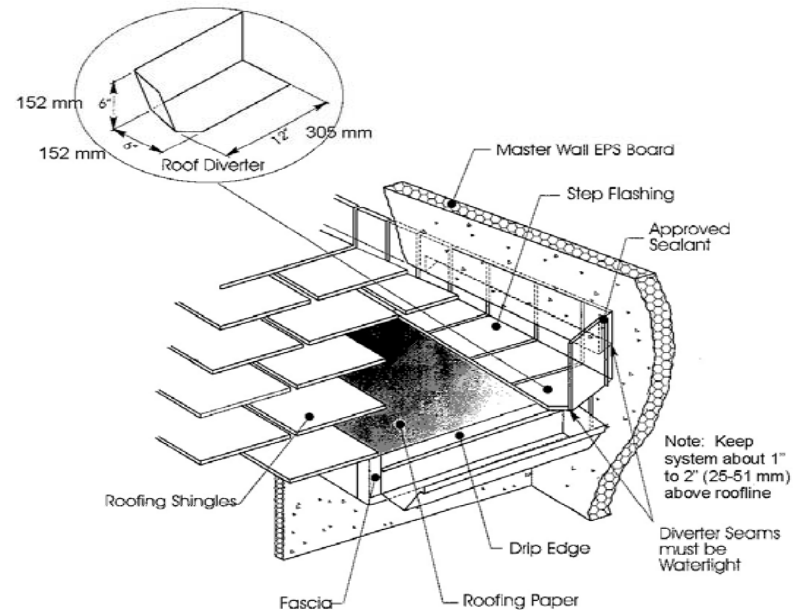
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MWAF-26 DIVERTER (KICK OUT FLASHING) DETAIL

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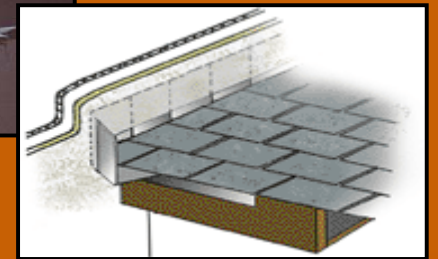
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Kick Out Flashing

- Easily fabricated from sheet metal
- Install under shingles, step flashing and felt. Set in sealant
- Seal all corners



Parapet Cap

- Run base coat and mesh continuously onto the framing
- Prime wood surfaces with BA57
- Sheet metal contractor installs necessary nailers, secondary water protection and sheet metal
- Sealant contractor seals the cap



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Blocking & Framing (by others)

Approved Sheathing (by others)

Parapet Cap (sloped to back), secondary water barrier and continuous cleat (07620)

Extend coping cap 1-1/2" to 2" (38-51 mm) over EIFS and seal the lower edge (07620)

Aggre-flex EIFS

Run base coat and mesh continuously onto substrate, about 2 1/2" (64 mm). Prime wood substrates with BA57

MWAF-27 PARAPET CAP DETAIL

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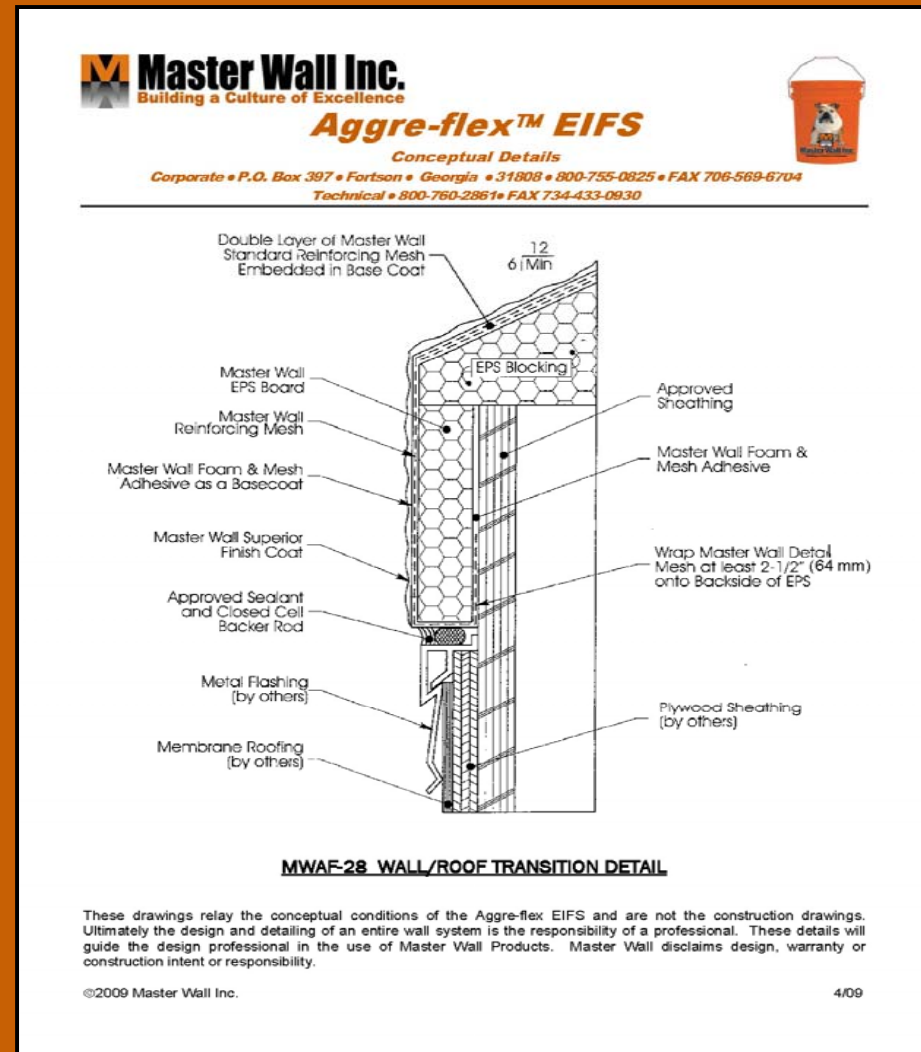
Parapet/Wall Intersection

- Run base coat continuously onto sheathing and framing
- Prime wood surfaces with BA57
- Sheet metal contractor installs necessary nailers, secondary water protection and sheet metal
- Sealant contractor seals the cap



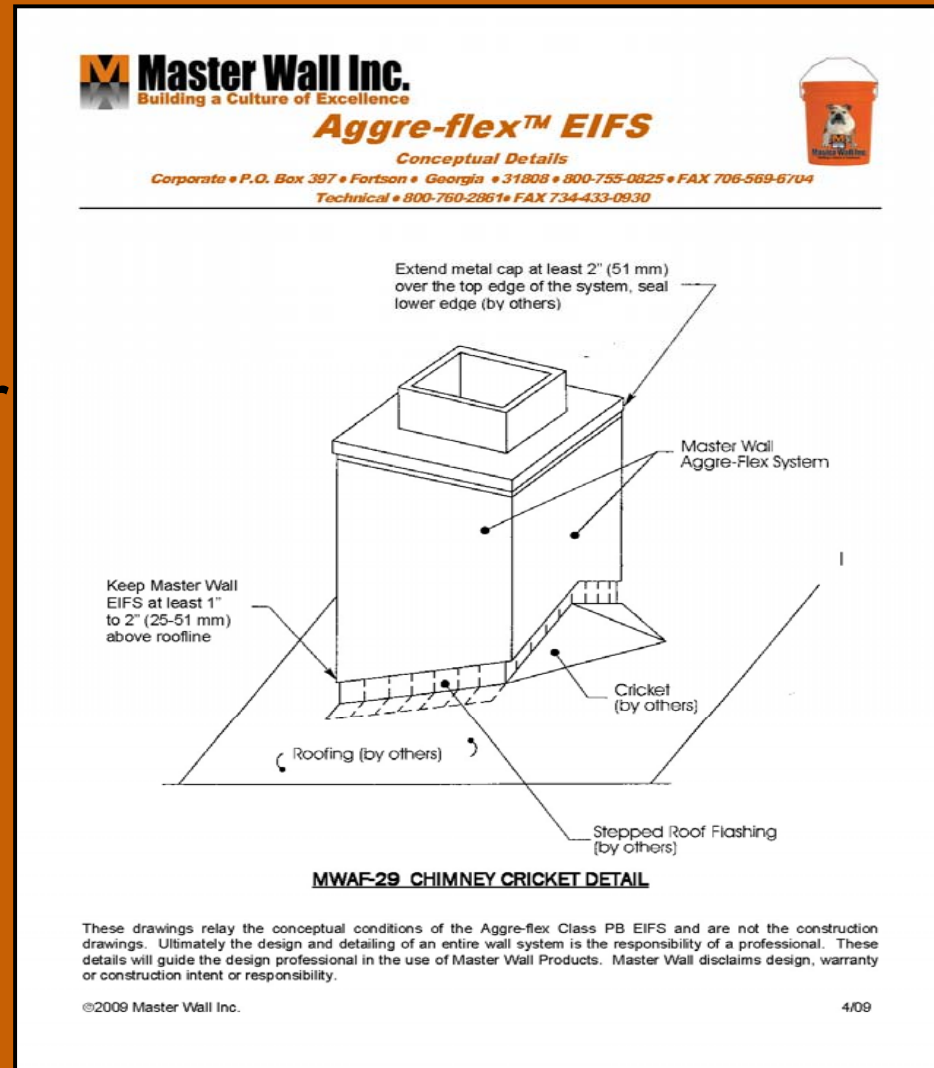
Roof Transition

- Backwrapping is necessary
- Keep system about 8" (204 mm) above the roof
- Sealant contractor seals to the sheet metal flashing

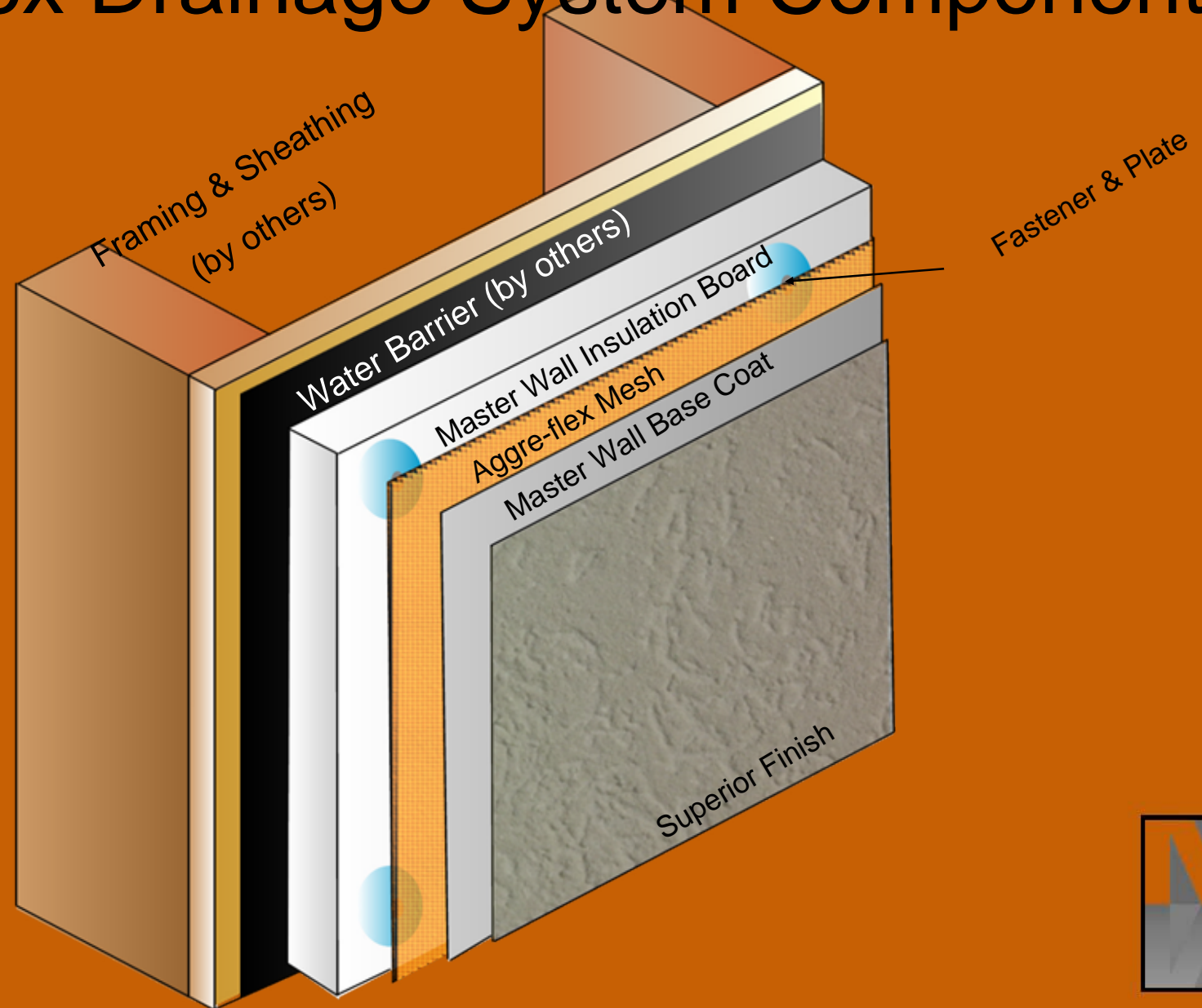


Chimney Cricket

- The NRCA recommends the installation of chimney crickets for large chimneys



Aggre-flex Drainage System Components



Aggre-flex Drainage

- Drainage options – either flat insulation board or wavy drainage board
 - Drainage mats can also be used
- Mechanically attached to approved substrates
- All the aesthetic options of Aggre-flex with a secondary water barrier



Aggre-flex Drainage Design Principles

- Required for residential construction, optional for light commercial
- System breaks at penetrations
 - ½” to ¾” (13-19 mm) wide sealant joints are the norm, fillet-type sealant joints are allowed in residential construction
- Sealant bridges between the Aggre-flex Drainage System and wall penetration
- Drainage-type plastic trims are the norm, backwrapping is occasionally used depending upon the design
- Insulation thickness varies from 1” (25 mm) minimum to 4” (102 mm) maximum as allowed by code
- Offers about R-4 per inch of thickness, keeps inside wall temperatures more consistent.



Water Barriers and Substrates

What to look for before you begin work



Review of Substrate/Water Barrier

- Check the following prior to beginning work
 - Substrate smooth, even with $\frac{1}{4}$ " in 10' maximum variation
 - Wood panels properly gapped
 - Water barrier & flashings properly installed to shed water
- Water barriers need to be installed to prevent water entry
- Advise Architect, General Contractor or Owner in writing if these conditions are not met



Drainage Mats

- If desired, drainage mats can be added
 - Colbond Enkamat
 - Benjamin Obdyke Homeslicker
 - Metal Lath
 - Plastic Lath
- Attach according to manufacturer's instructions



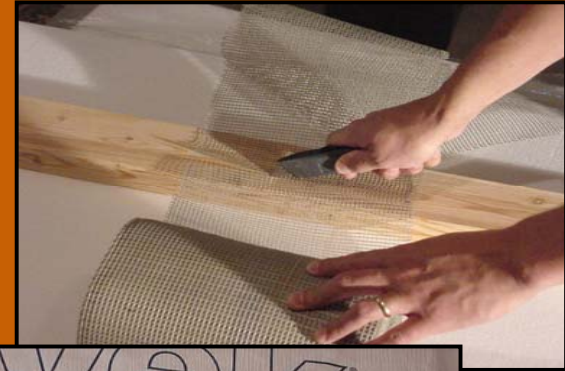
Attach Drainage Track

- Drainage tracks are available in different sizes depending upon insulation thickness
- Attach drainage track at the bottom of the assembly and fasten every 6" to 8" (152-204 mm)
- Run track onto foundation at least 1" (25 mm)
- Lap water barrier into the drainage track
- Attach casing bead at other terminations in a similar manner



Alternate - Backwrapping

- Backwrapping is the exception, most areas will receive plastic trim
- Always use a flashing to direct water to the outer face of the wall system




Details


Aggre-flex Drainage EIFS



Cross Section

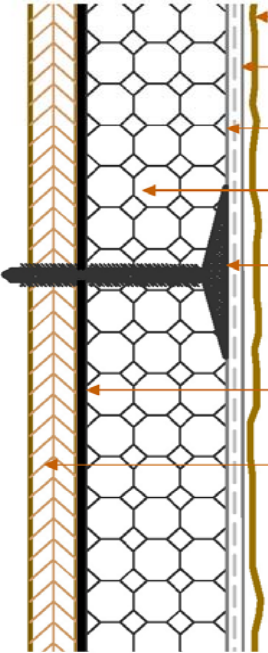
- Typically 1" to 4" (25-102 mm) insulation thickness

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- ← Superior Finish
- ← Master Wall Base Coat
- ← Aggre-flex Reinforcing Mesh
- ← Aggre-flex Insulation Board
- ← Approved Corrosion Resistant Fastener with Plastic Washer
- ← Weather Resistive Barrier (by others)
- ← Approved Substrate & Framing (by others)

Drainage Options (with local approval)

- Flat Insulation Board over 15# felt or equivalent
- Flat Insulation Board over Tyvek® StuccoWrap® or equivalent
- Flat Insulation Board over Enkamat, Plastic Lath or other approved Spacer
- Master Wall Drainage Insulation Board

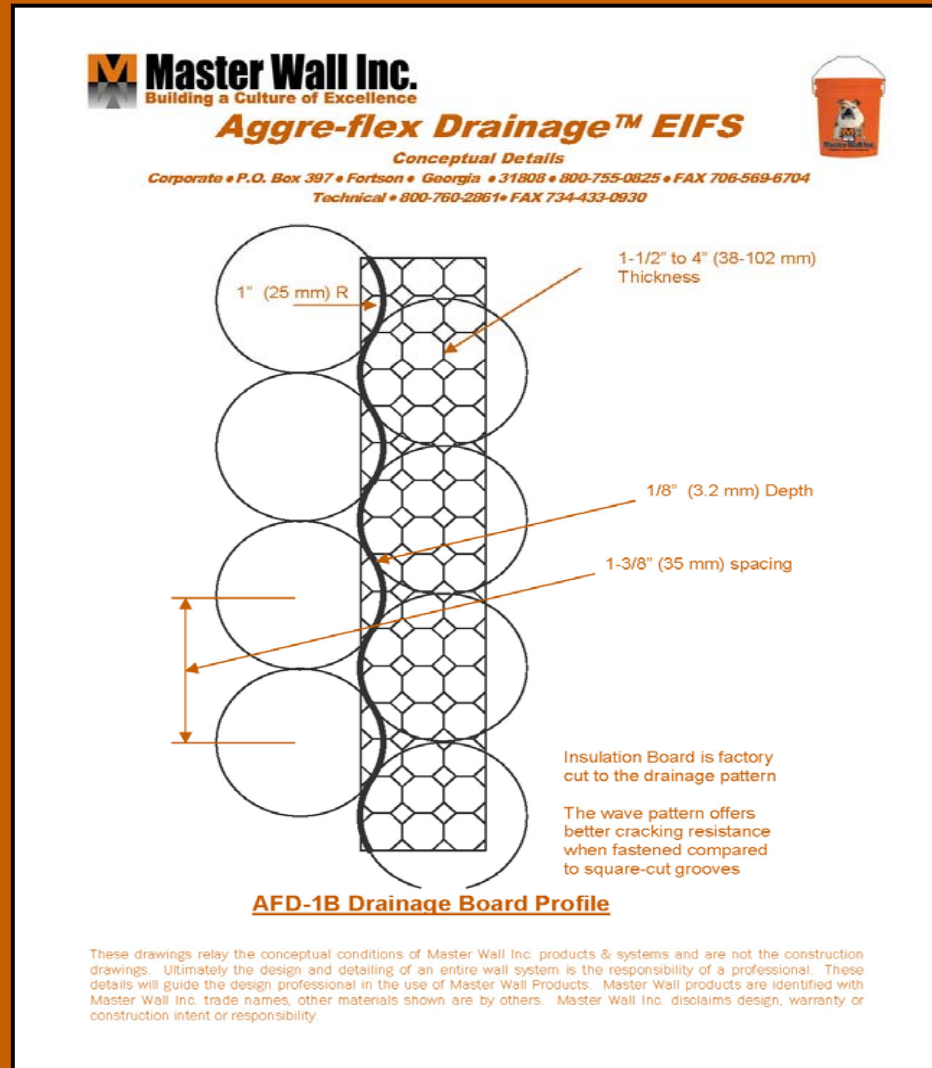
AFD-1A Typical Cross Section

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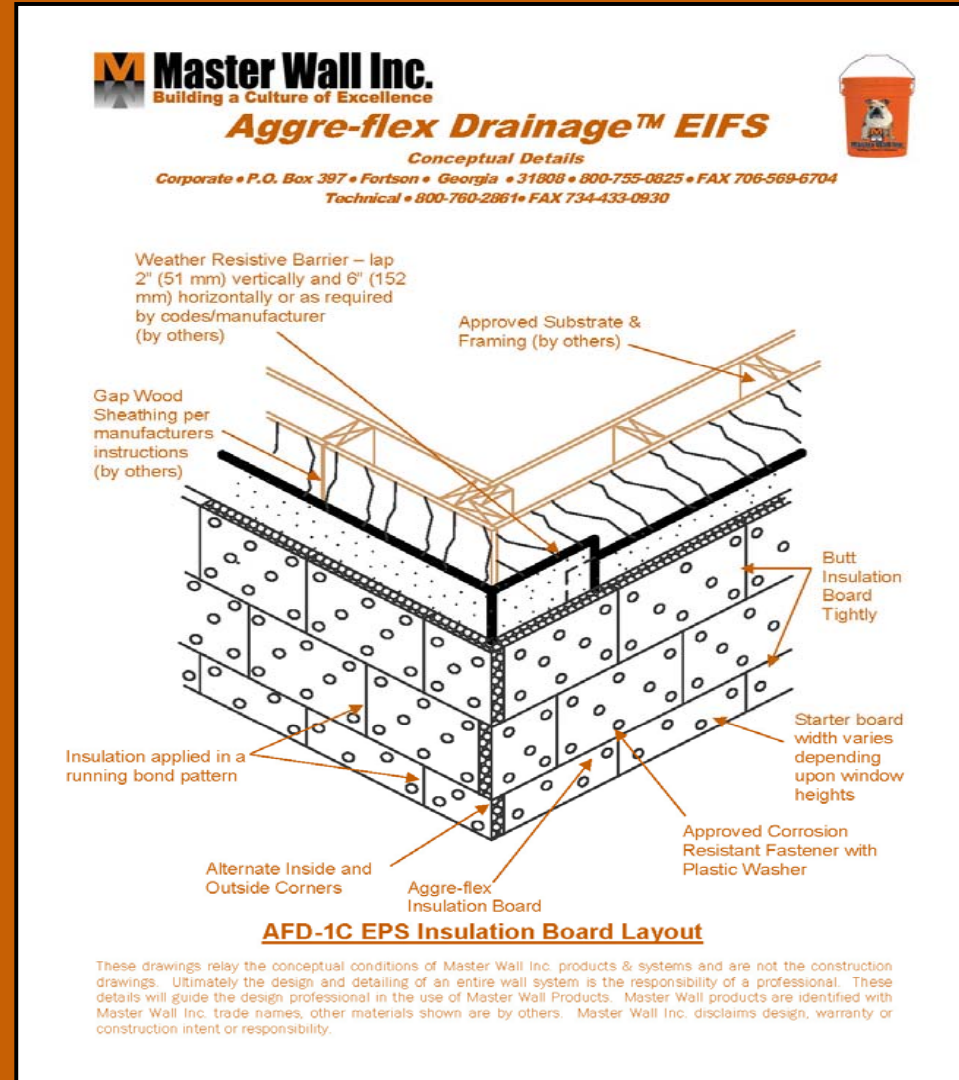
Insulation Options

- Both flat insulation board and Master Wall wavy insulation board are approved
- Typically Tyvek StuccoWrap is used with flat board
- Drainage mats may also be used



Insulation Layout

- Insulation applied in a running bond pattern
- Interlock inside and outside corners
- Plan installation so insulation doesn't line up with window and door corners
- Maximum insulation thickness is 4" (102 mm) according to most codes



Fastening Pattern

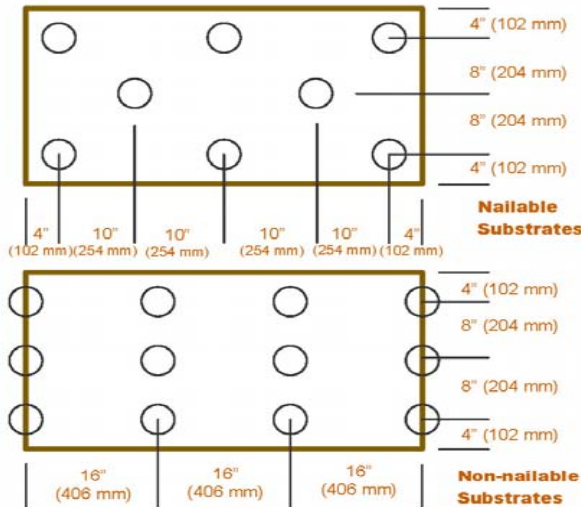

- Follow Master Wall recommended pattern
- Use Wind-Lock Wind Devil 2 plates or approved equal
- Use appropriate fastener for the substrate

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Available Substrates

4" (102 mm)
8" (204 mm)
8" (204 mm)
4" (102 mm)

4" (102 mm) 10" (254 mm) 10" (254 mm) 10" (254 mm) 10" (254 mm) 4" (102 mm)

Non-available Substrates

4" (102 mm)
8" (204 mm)
8" (204 mm)
4" (102 mm)


16" (406 mm) 16" (406 mm) 16" (406 mm)

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

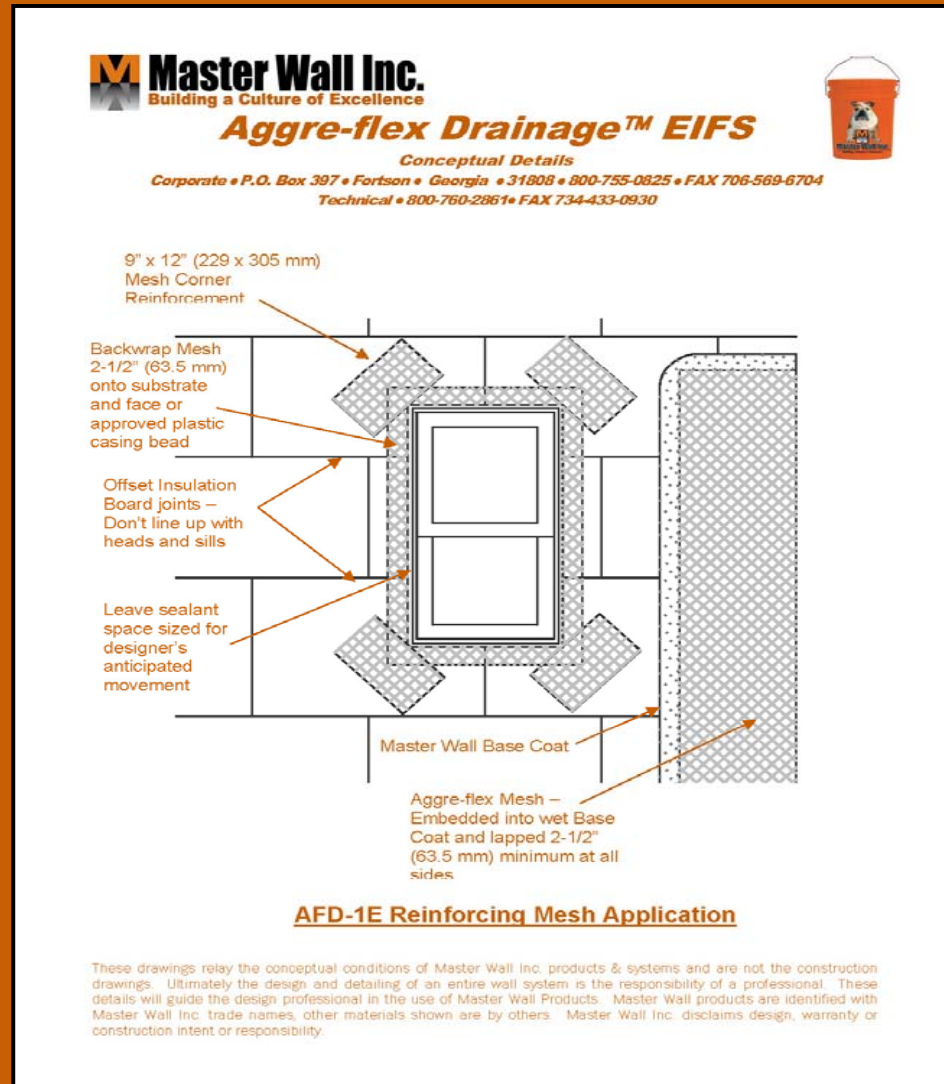
AFD-1D Fastening Patterns

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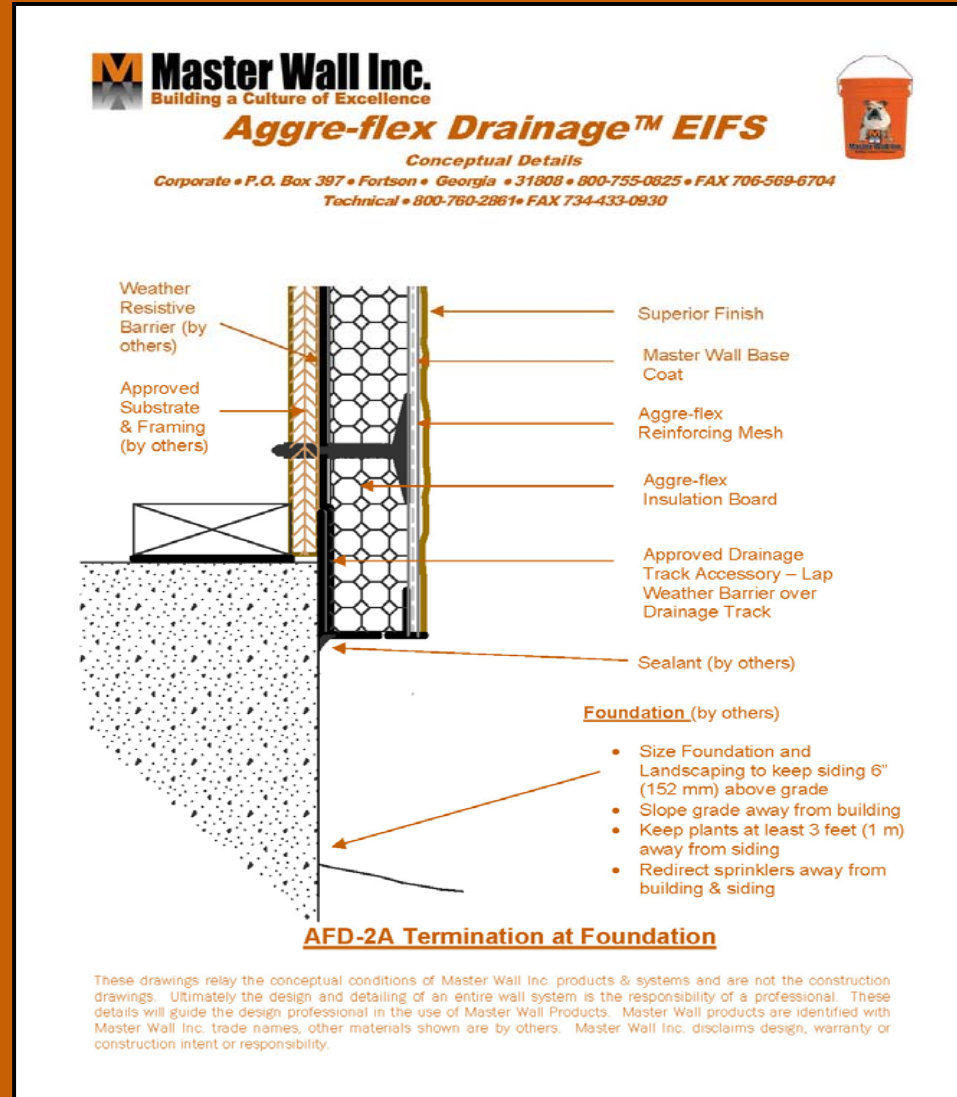
Mesh Application

- Lay out your insulation so it doesn't line up with window or door corners
- Reinforce corners with corner "butterfly" mesh



Foundation Detail

- Level drainage track
- Run Water Barrier into drainage track
- Keep siding at least 6" (152 mm) above grade



Foundation Detail

- Level stucco weep screed
- Run Water Barrier into weep screed
- Use backwrap technique
- Keep siding at least 6" (152 mm) above grade

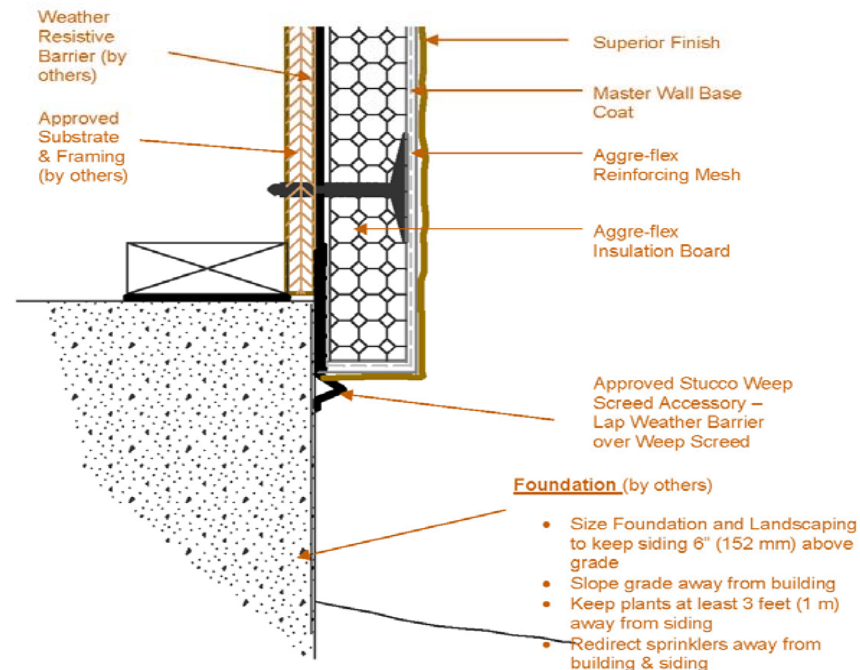
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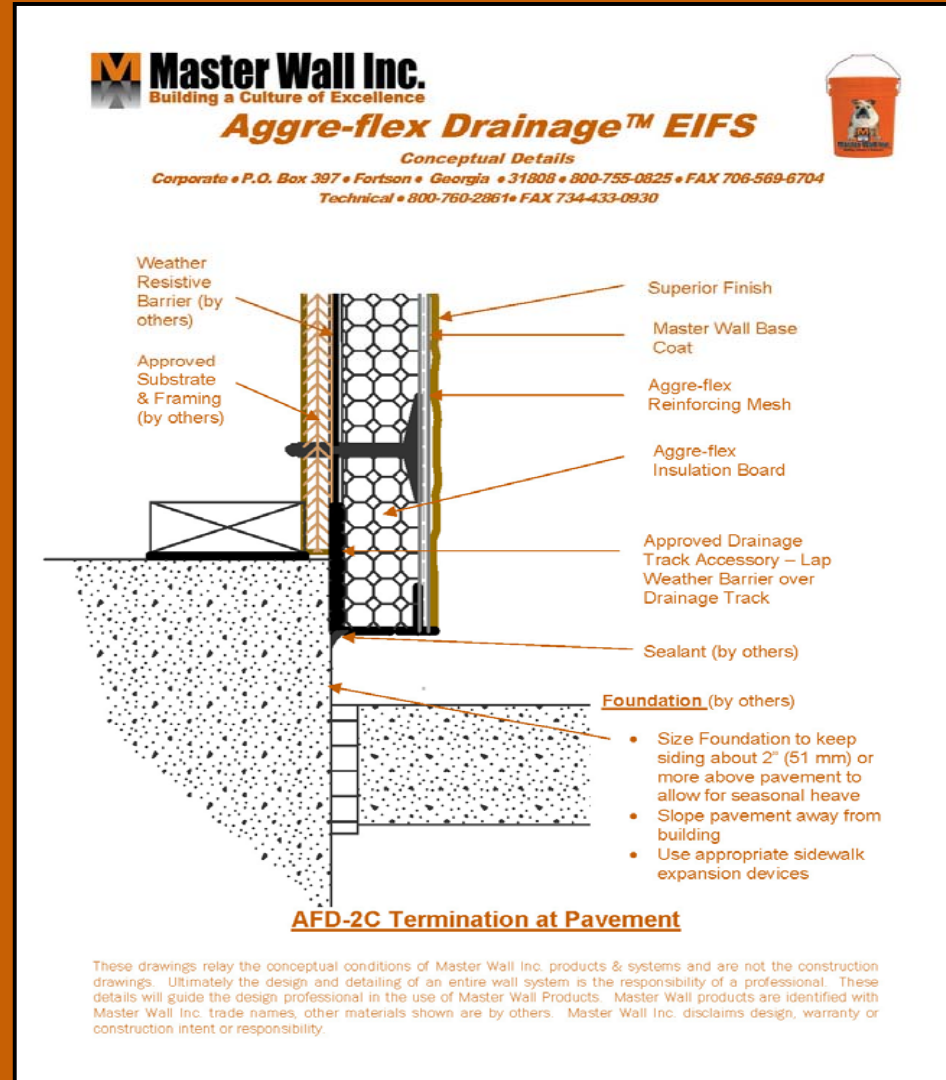
AFD-2B Termination at Foundation

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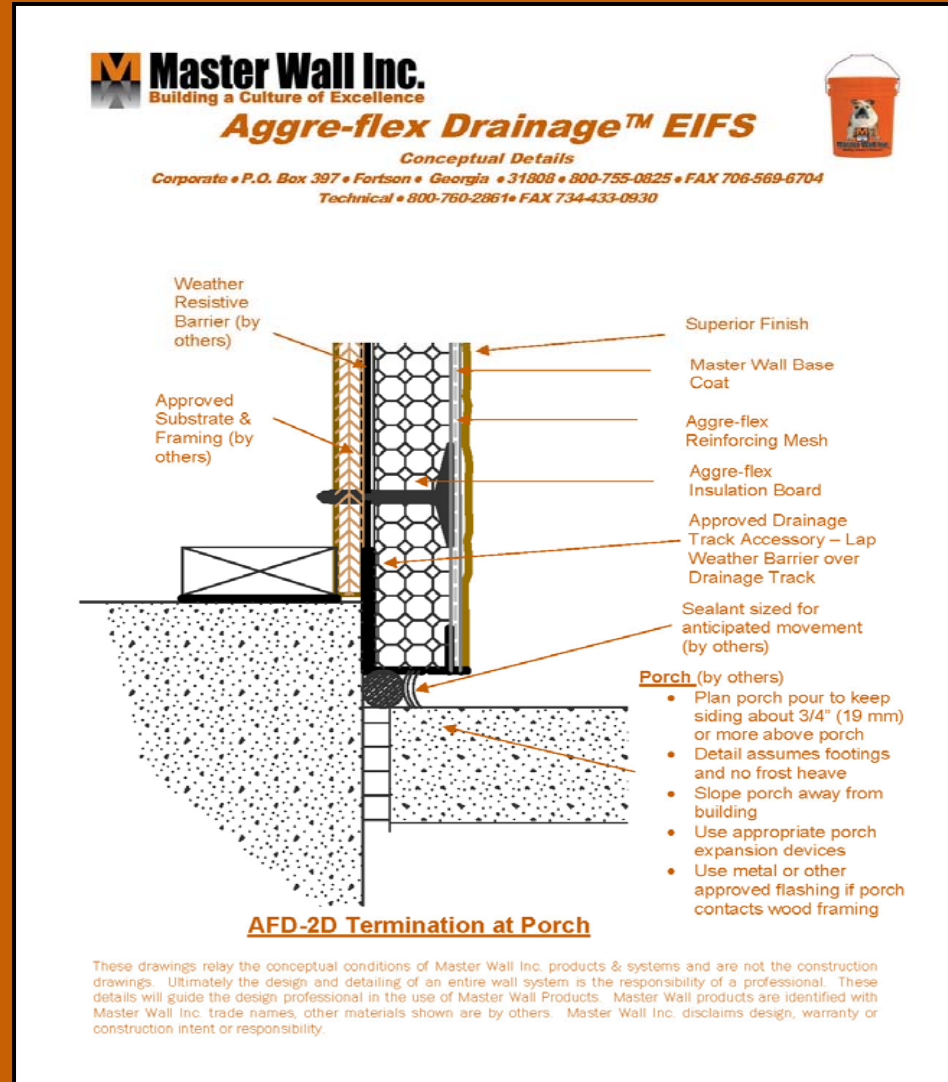
Detail at Pavement

- Level drainage track
- Run Water Barrier into drainage track
- Keep siding at least 2" (51 mm) above grade



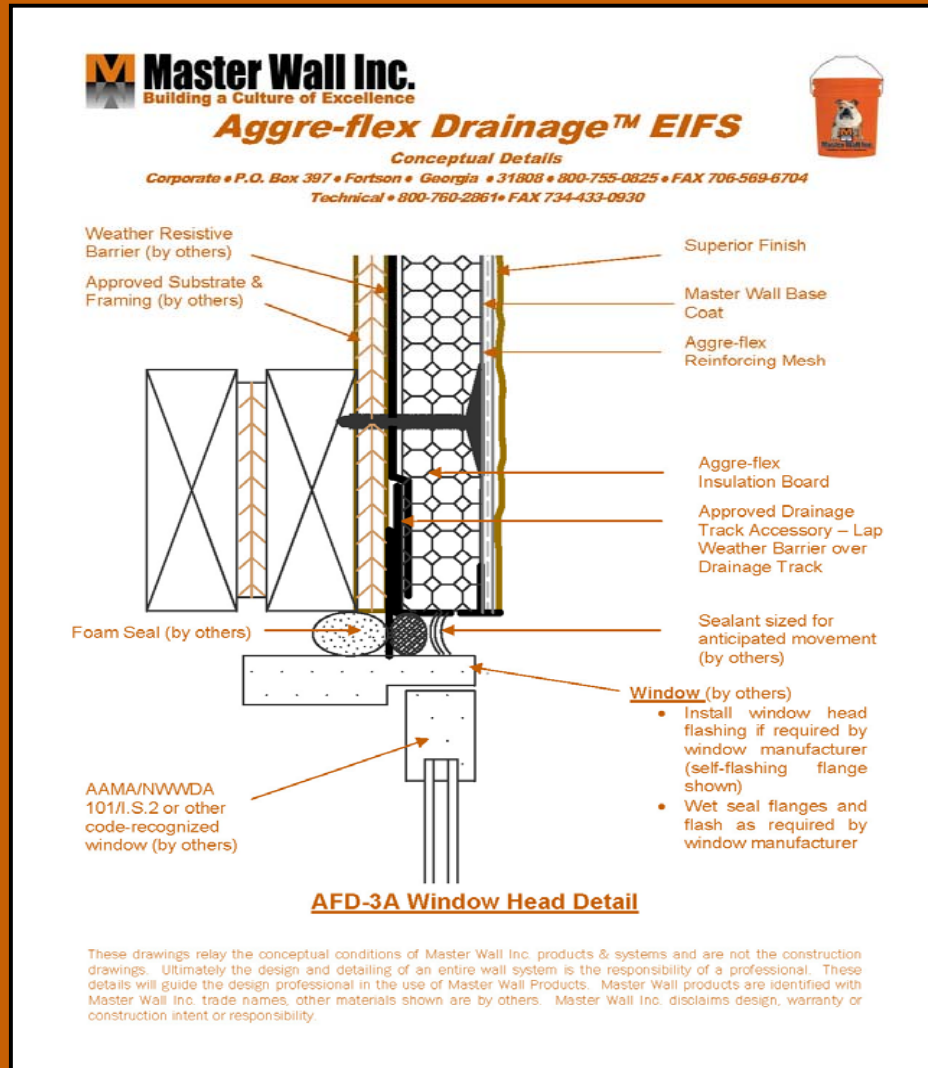
Termination at Porch

- Level drainage track
- Run Water Barrier into drainage track
- Keep siding at least 3/4" (19 mm) above grade



Window Head

- Plastic trim accessories are normally used at windows
- Leave a ½” (13 mm) minimum expansion joint area for sealants
- Check to see if head flashing is required by the window manufacturer



Window Head with Trim

- Adhere trim with Master Wall Adhesive
- Slope a minimum of 1:2 to shed water

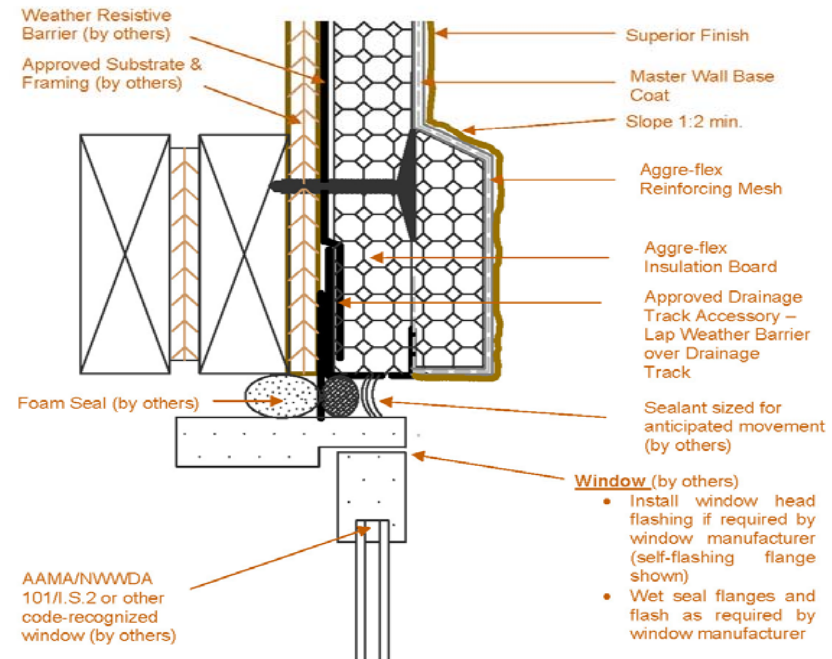
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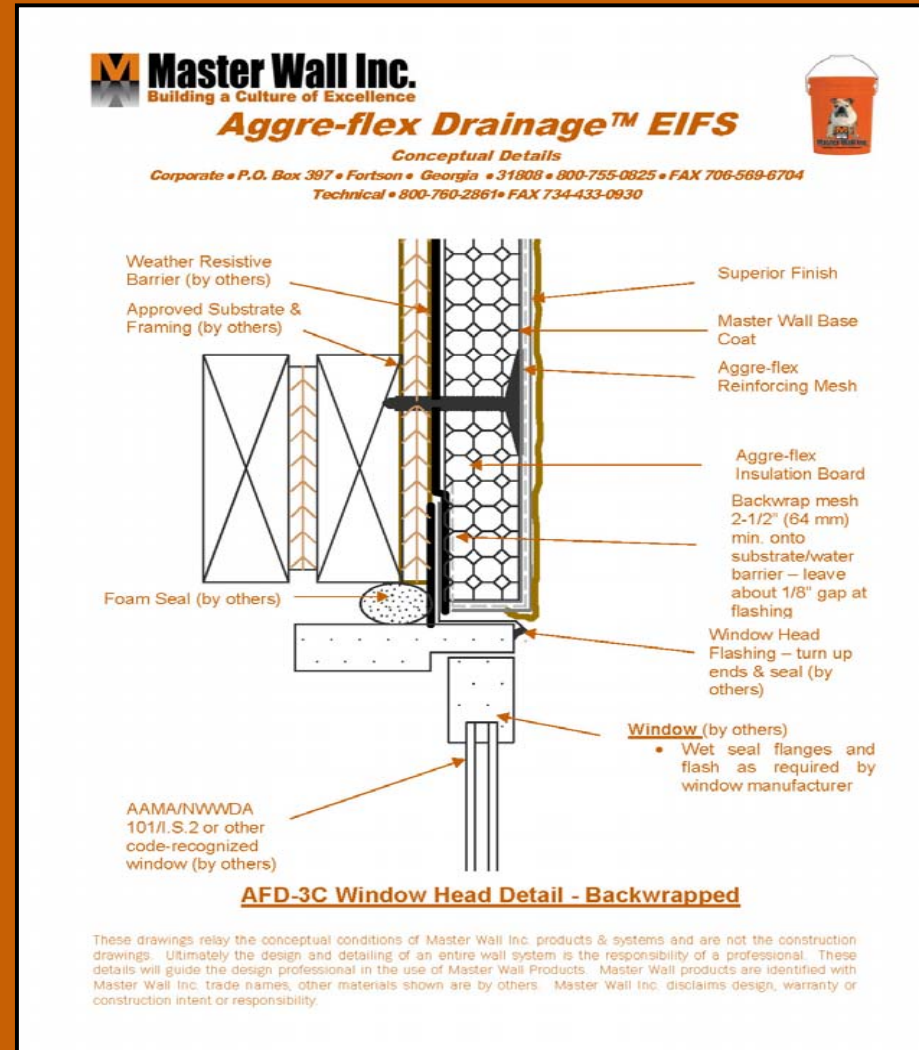
AFD-3B Window Head Detail with Trim

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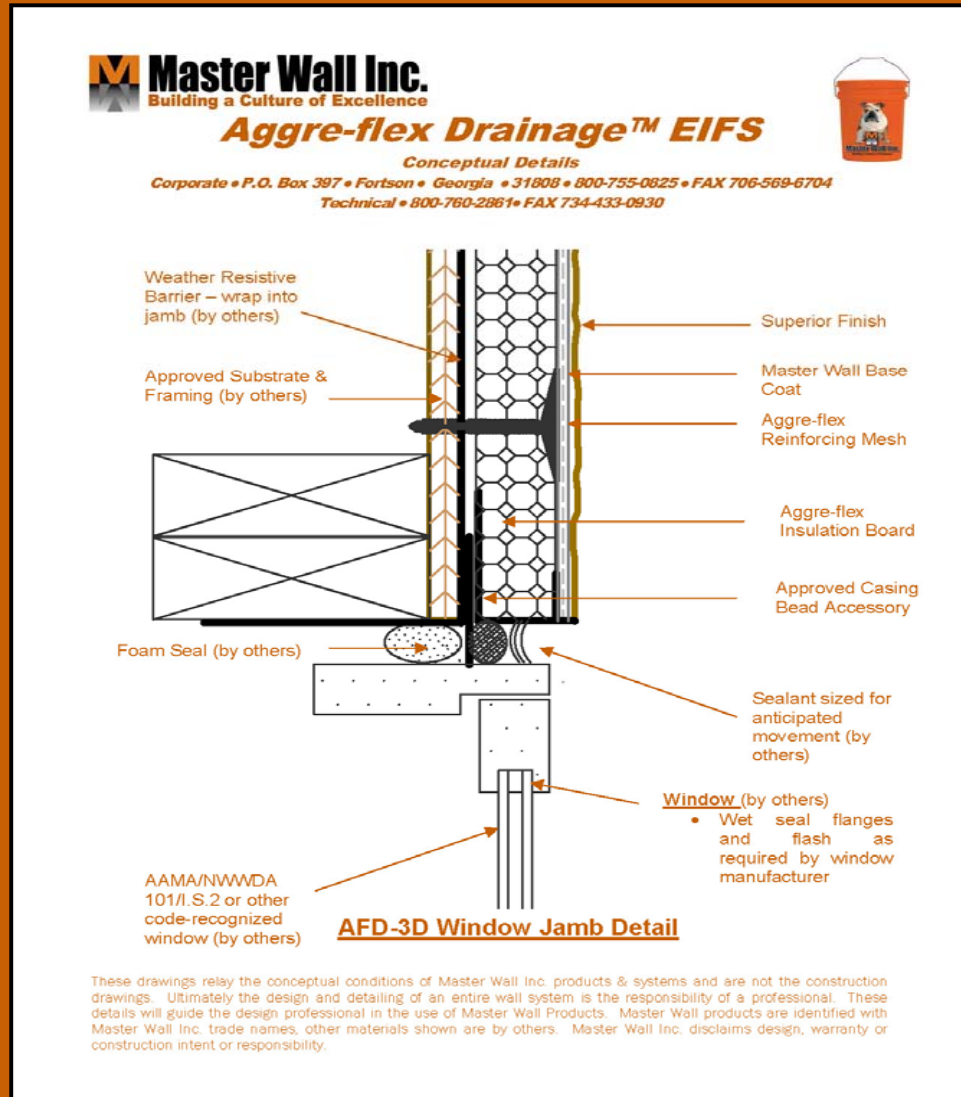
Window Head – Backwrap Option

- Use head flashing with turned up ends
- Backwrap EIFS and leave about 1/8" (3.2 mm) opening for drainage
- Trims could also be added



Window Jamb

- Casing Bead is attached to the substrate
- Insulation board is tucked into casing bead
- Leave room for an expansion joint



Window Jamb with Trim

- Adhere foam trim with Master Wall Adhesives

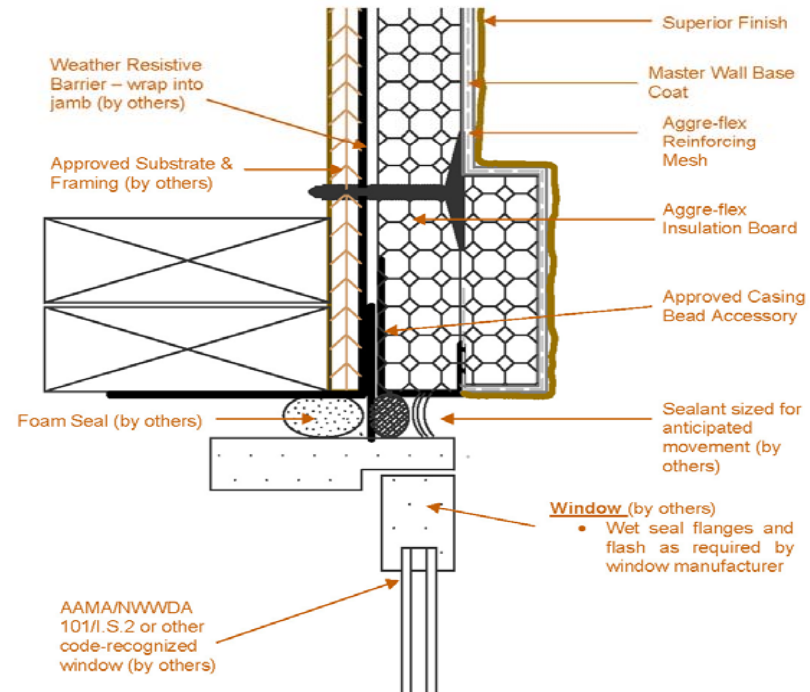
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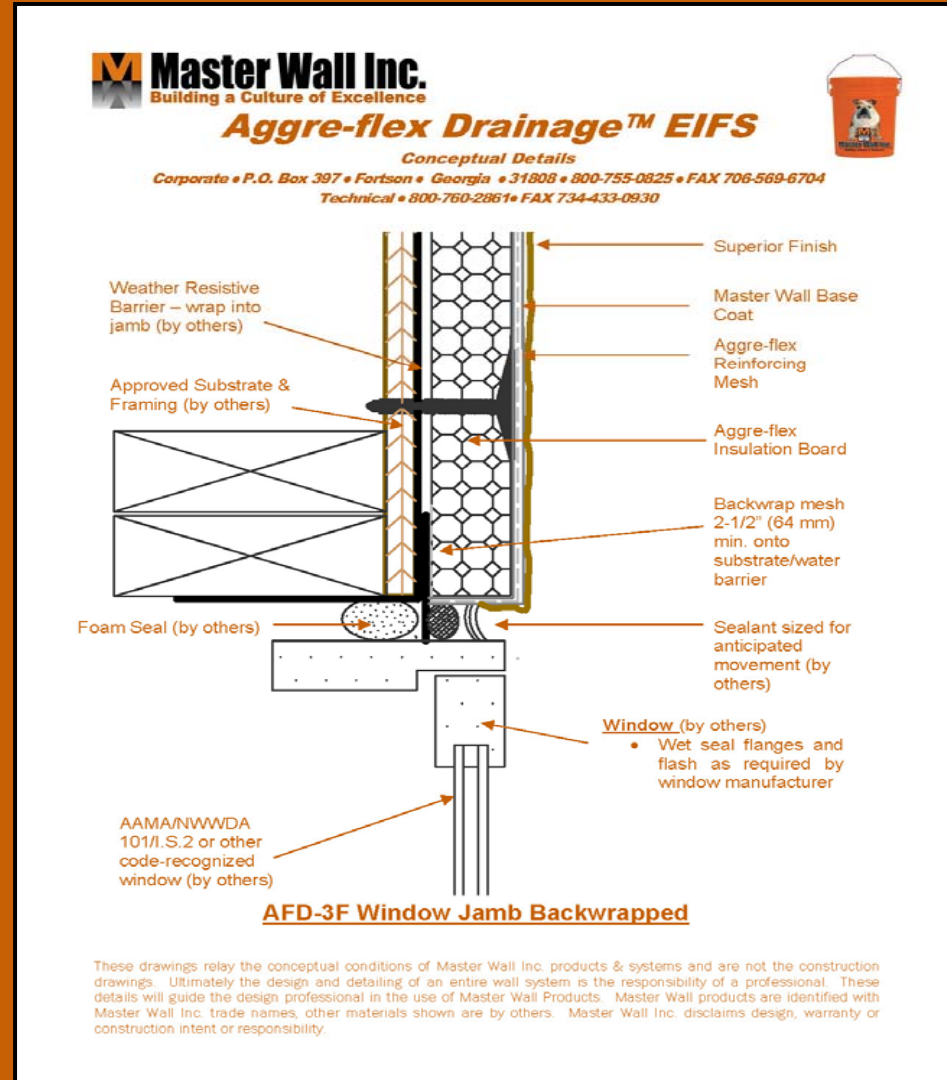
AFD-3E Window Jamb Detail with Trim

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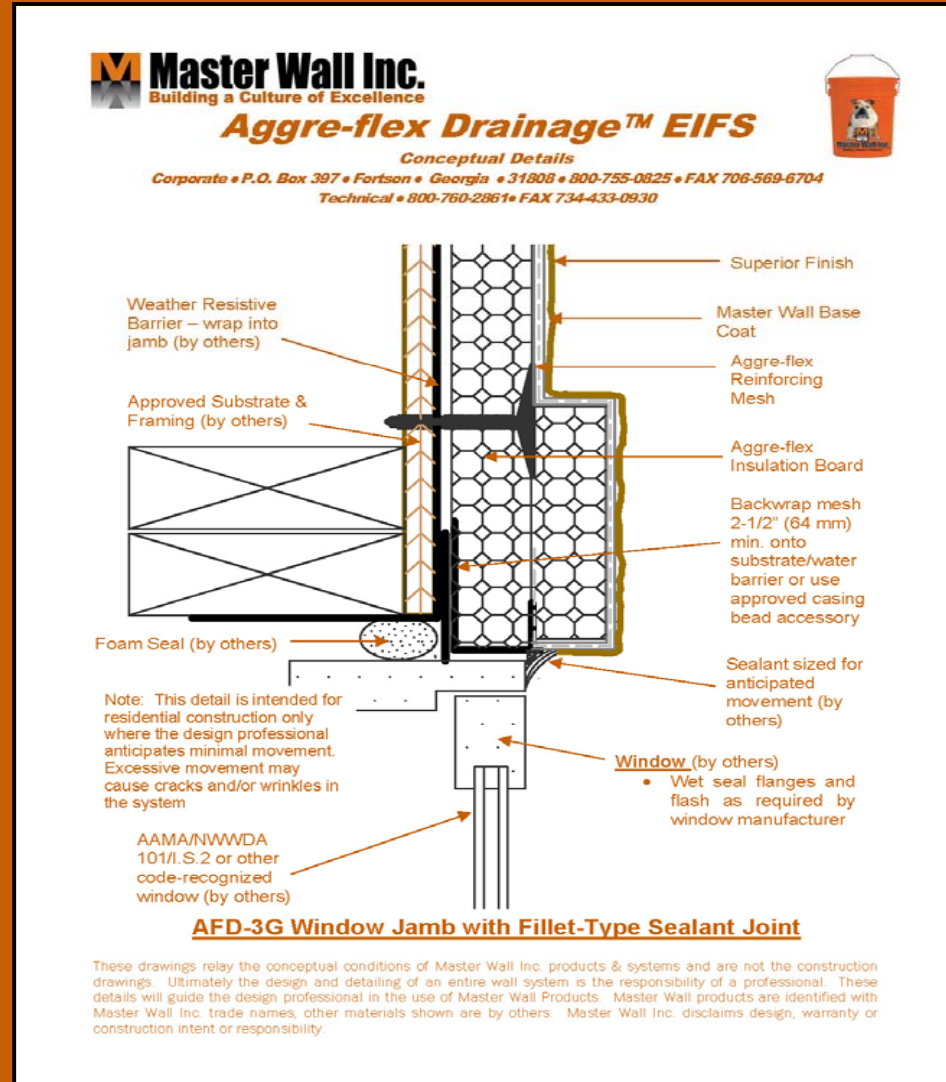
Window Jamb – Backwrap Option

- Wrap base coat and mesh around termination
- Leave expansion joint area



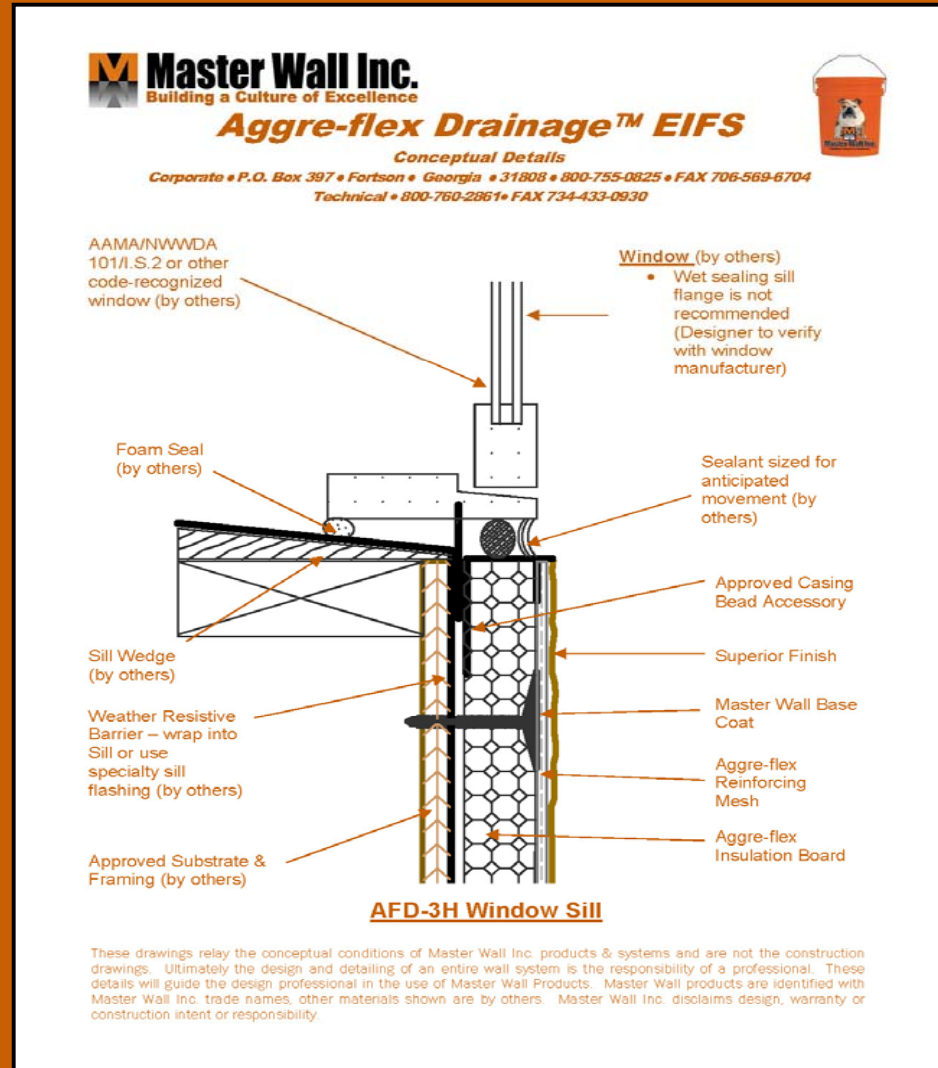
Window Jamb – Fillet Joint Option

- Place casing beads or backwrapping close to but not butted to the window
- The sealant contractor uses a fillet-type sealant bead as recommended by the sealant manufacturer



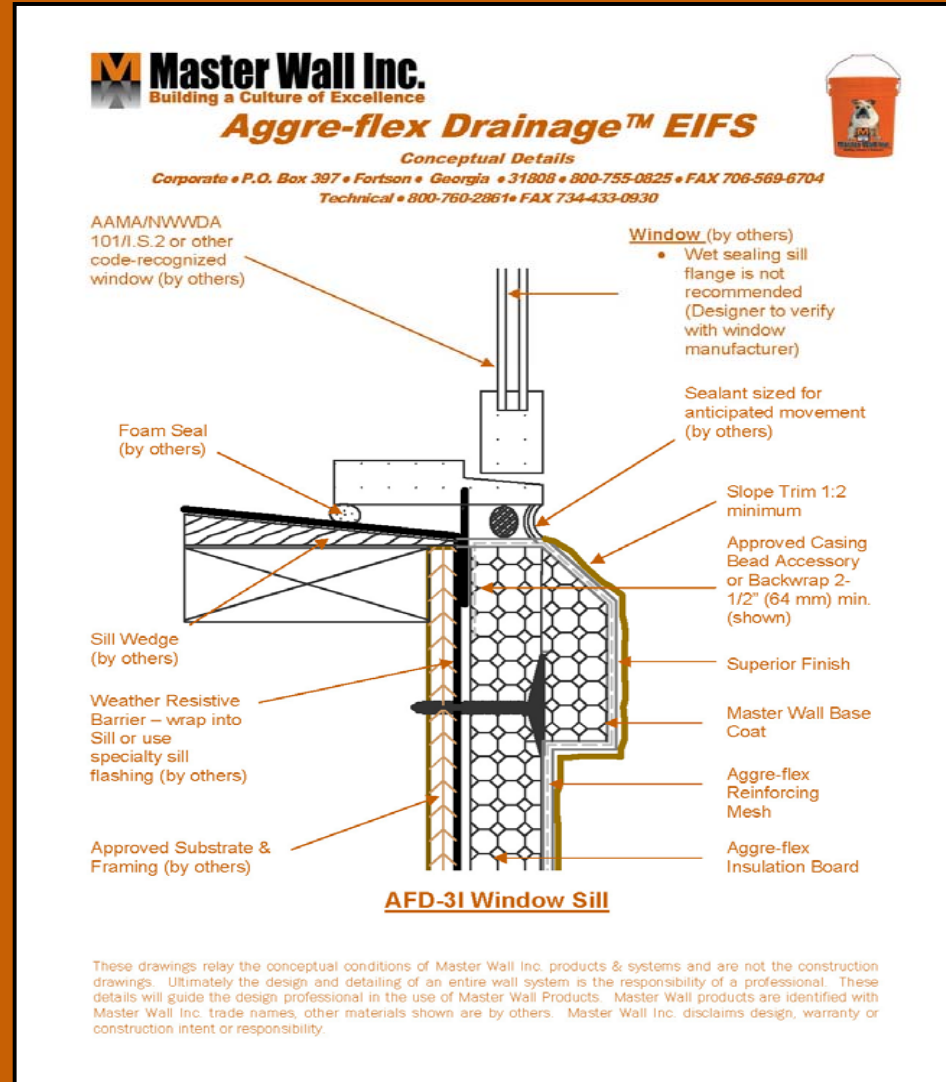
Window Sill

- Attach casing bead allowing for expansion joint width



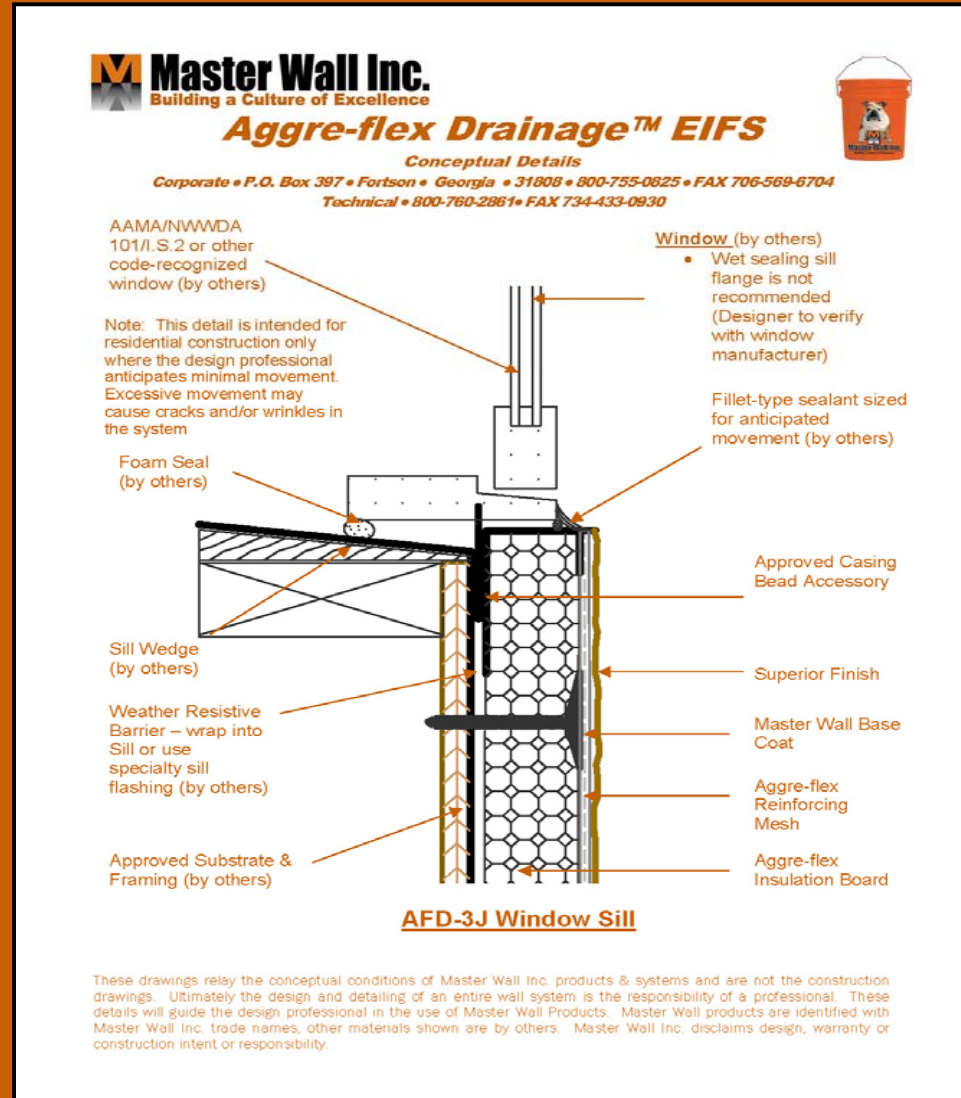
Window Sill with Trim

- Adhere trim with Master Wall adhesives
- Backwrap trim piece
- Slope sill a minimum of 1:2 to shed water



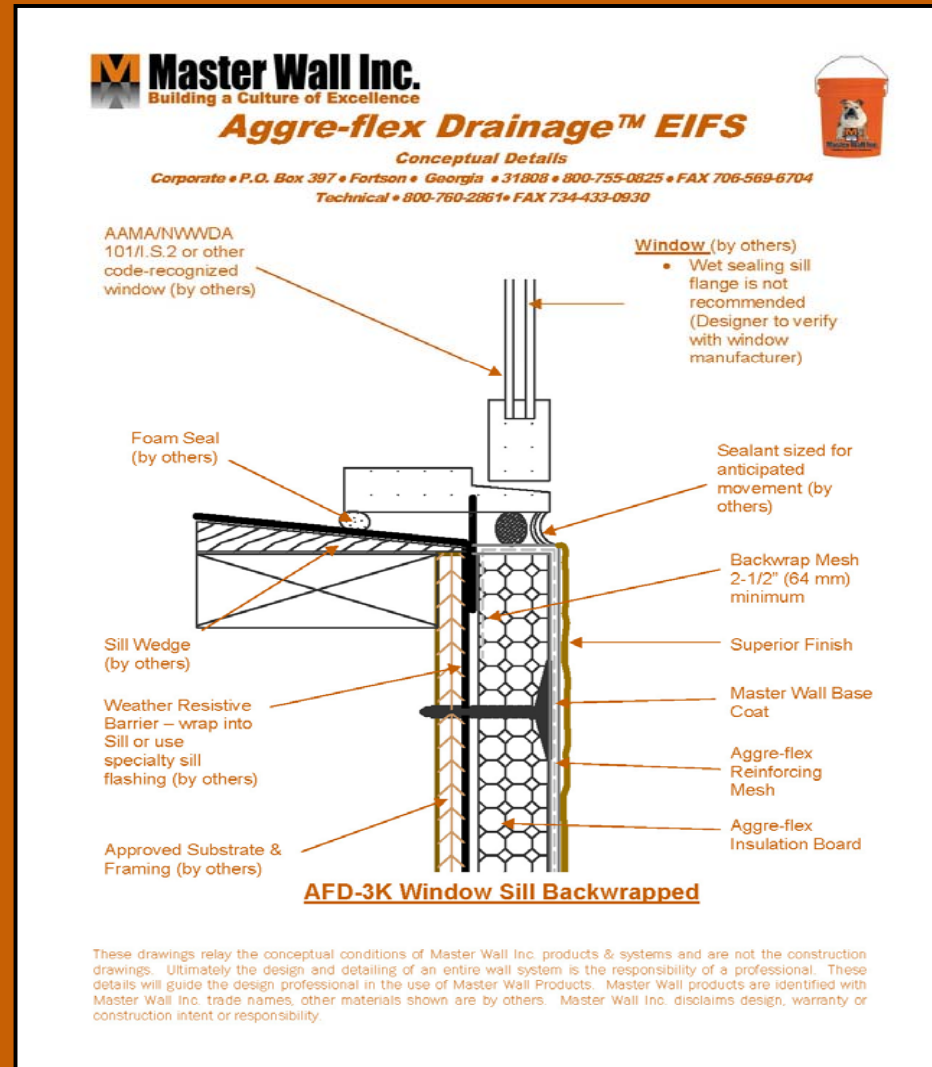
Window Sill - Fillet Joint Option

- Place casing beads or backwrapping close to but not butted to the window
- The sealant contractor uses a fillet-type sealant bead as recommended by the sealant manufacturer



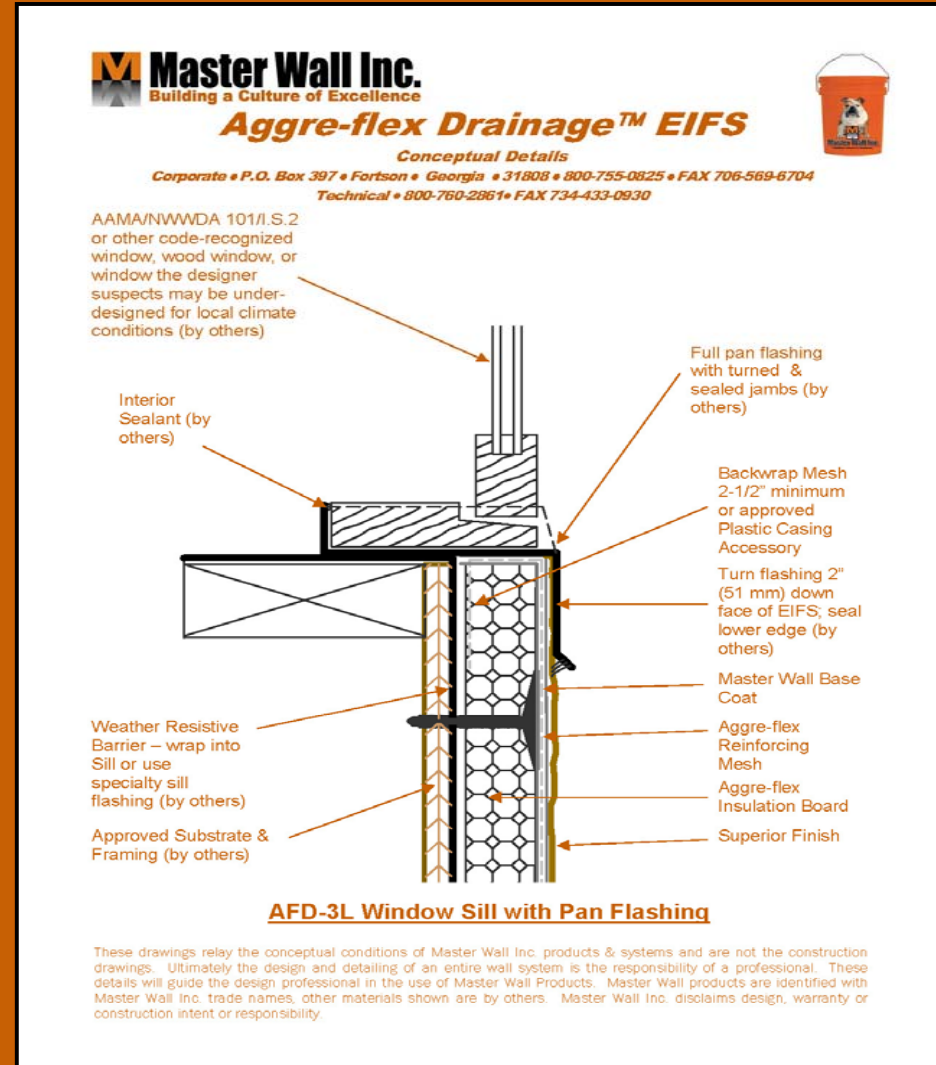
Window Sill – Backwrap Option

- Wrap base coat and mesh around termination
- Leave expansion joint area
- Slope sill a minimum of 1:2 to shed water if it extends outward



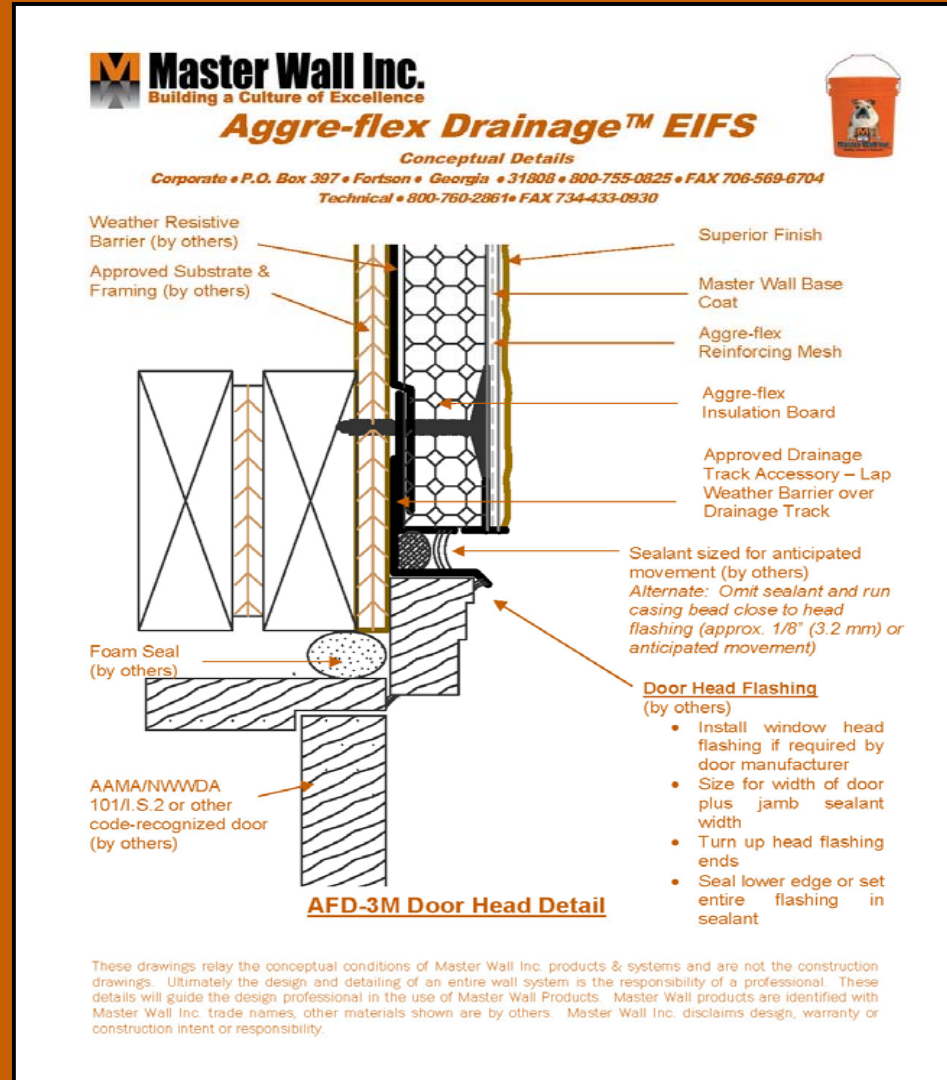
Window Sill – Pan Flashing Option

- Pan flashing protects the entire window sill and extends out 2" (51 mm) down face of the system
- Required for wood windows



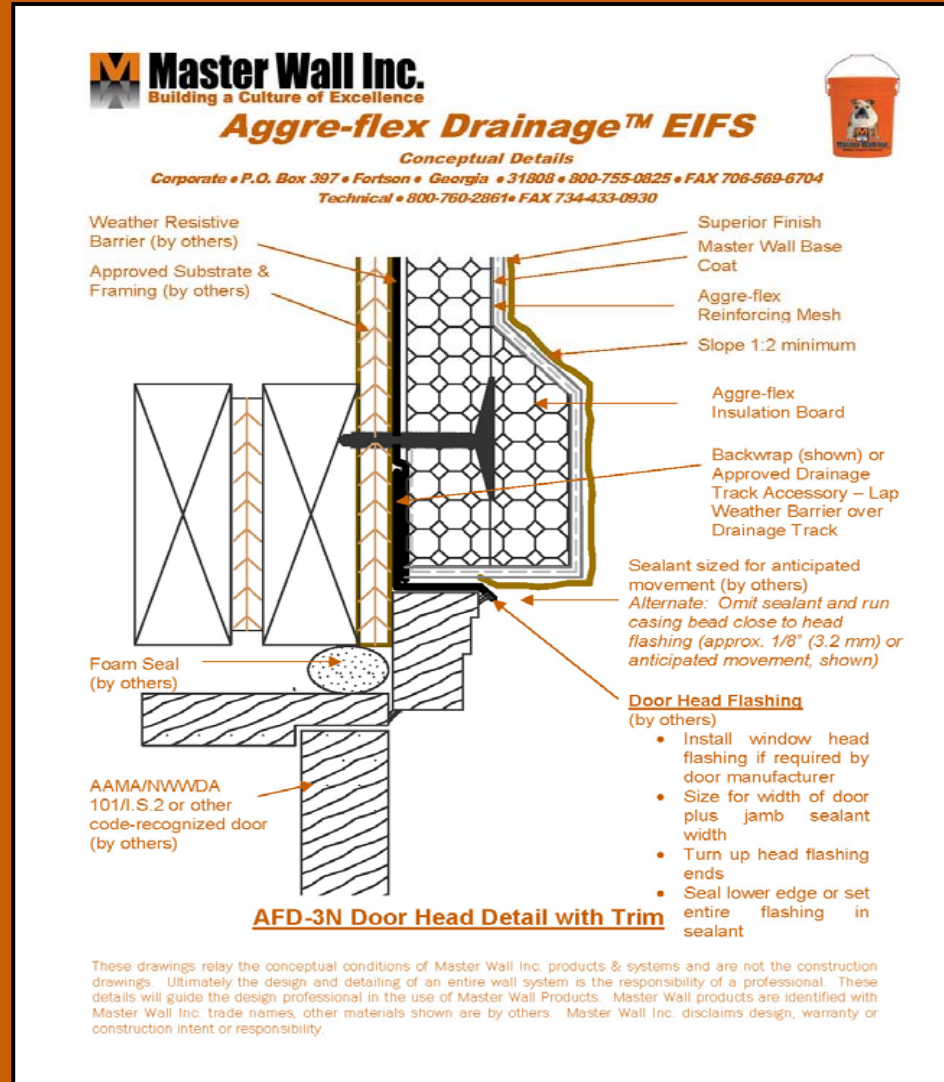
Door Head

- Use head flashing
- Either casing bead (shown) or backwrap



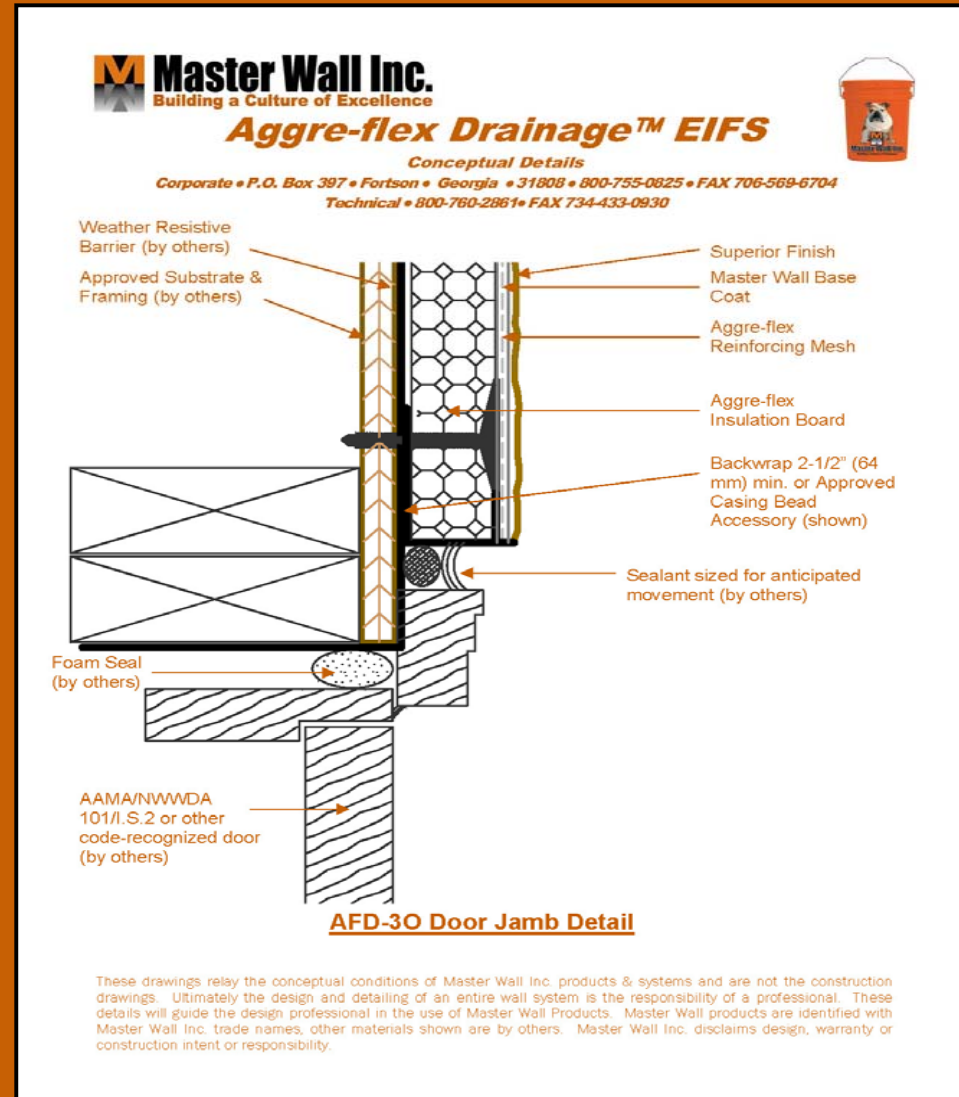
Door Head with Trim

- Either backwrap (shown) or casing bead termination
- Adhere foam shape with Master Wall adhesives
- Slope top 1:2 minimum to shed water



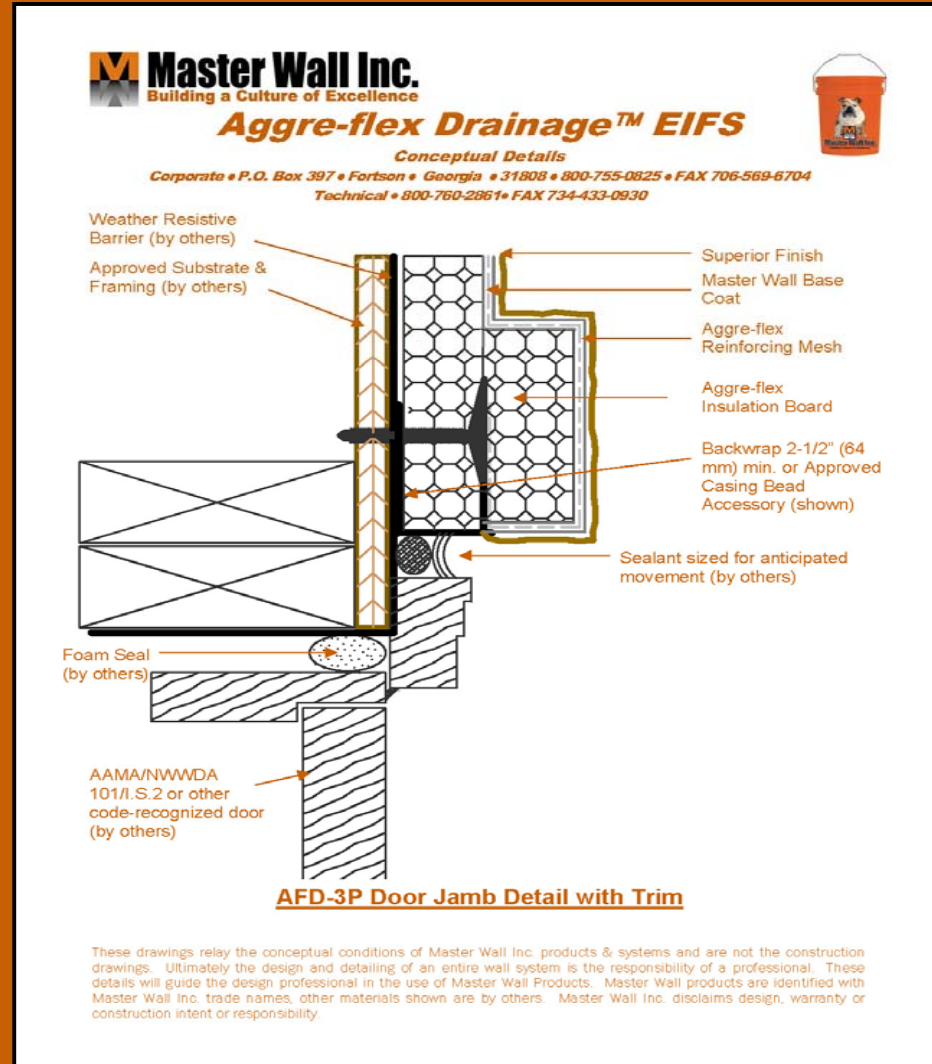
Door Jamb

- Either casing bead (shown) or backwrap



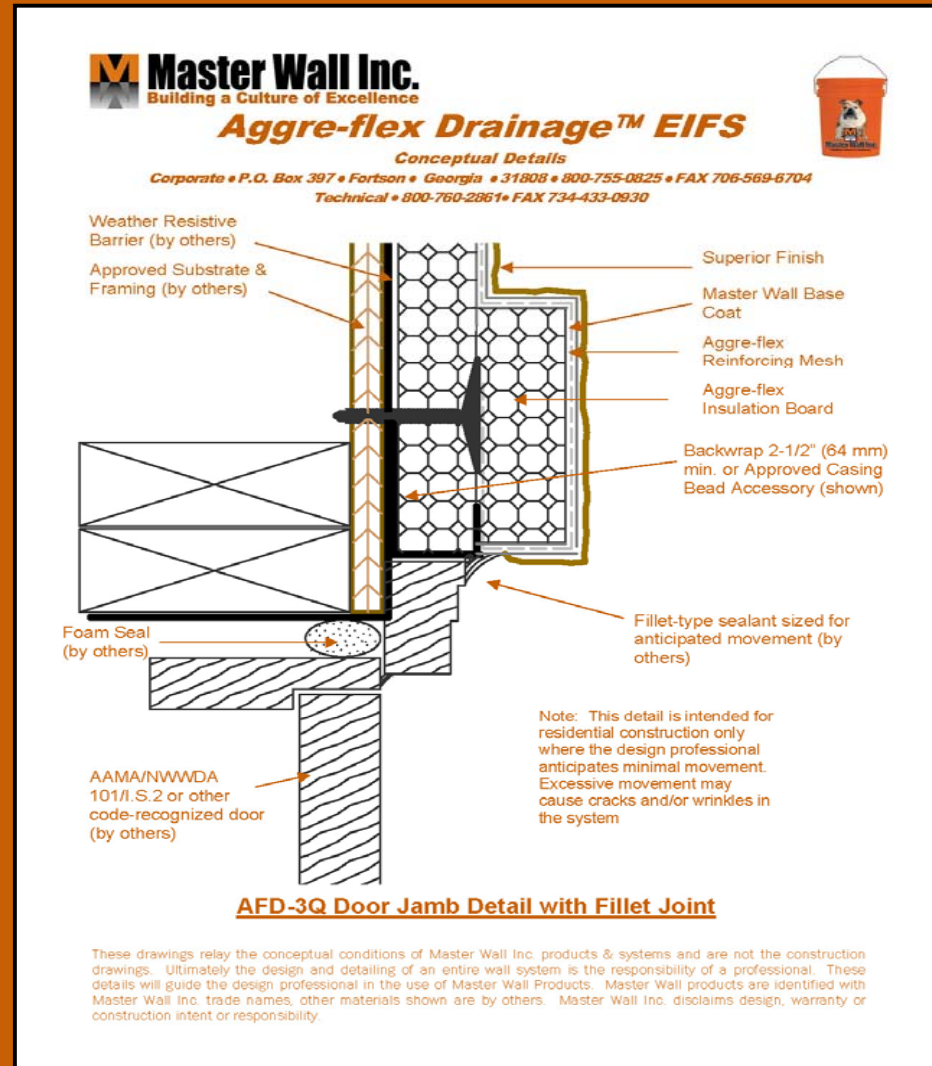
Door Jamb with Trim

- Either casing bead (shown) or backwrap termination
- Adhere trim with Master Wall adhesives



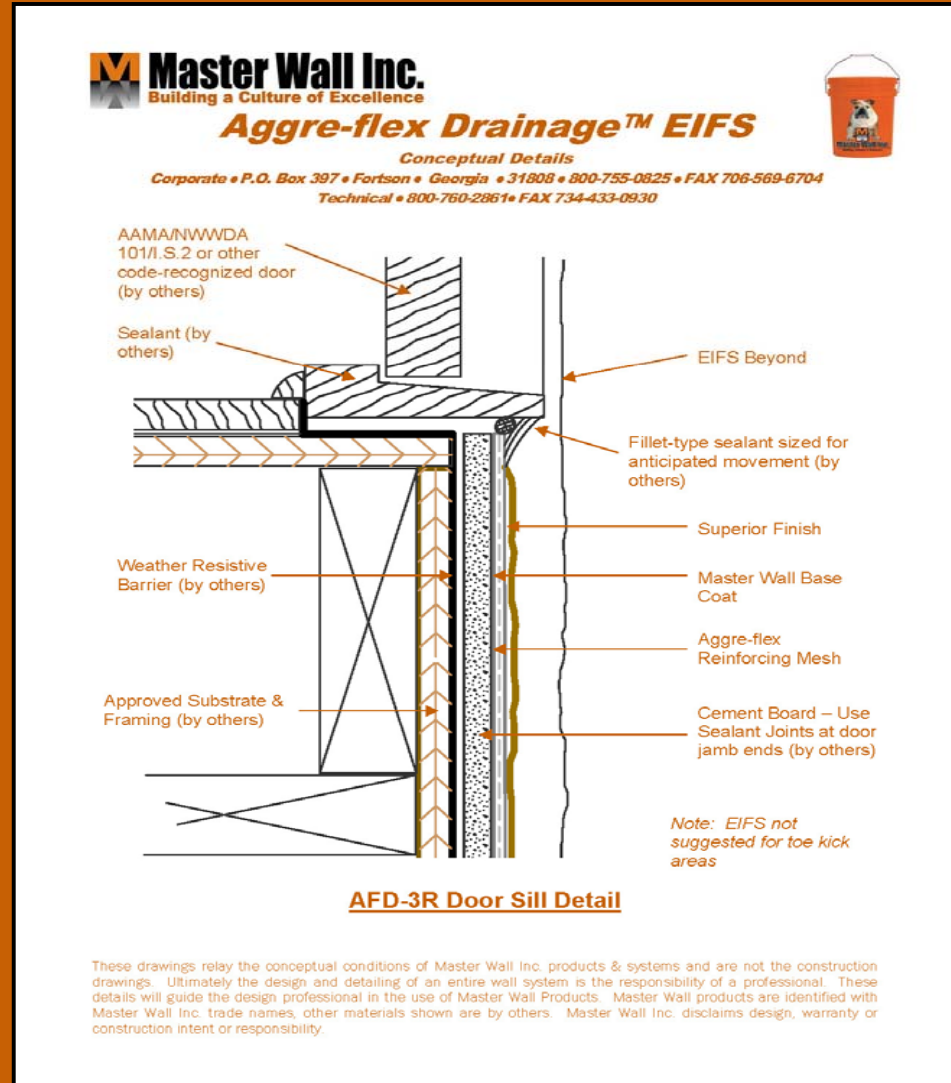
Door Jamb – Fillet Joint Option

- Place casing beads or backwrapping close to but not butted to the window
- The sealant contractor uses a fillet-type sealant bead as recommended by the sealant manufacturer



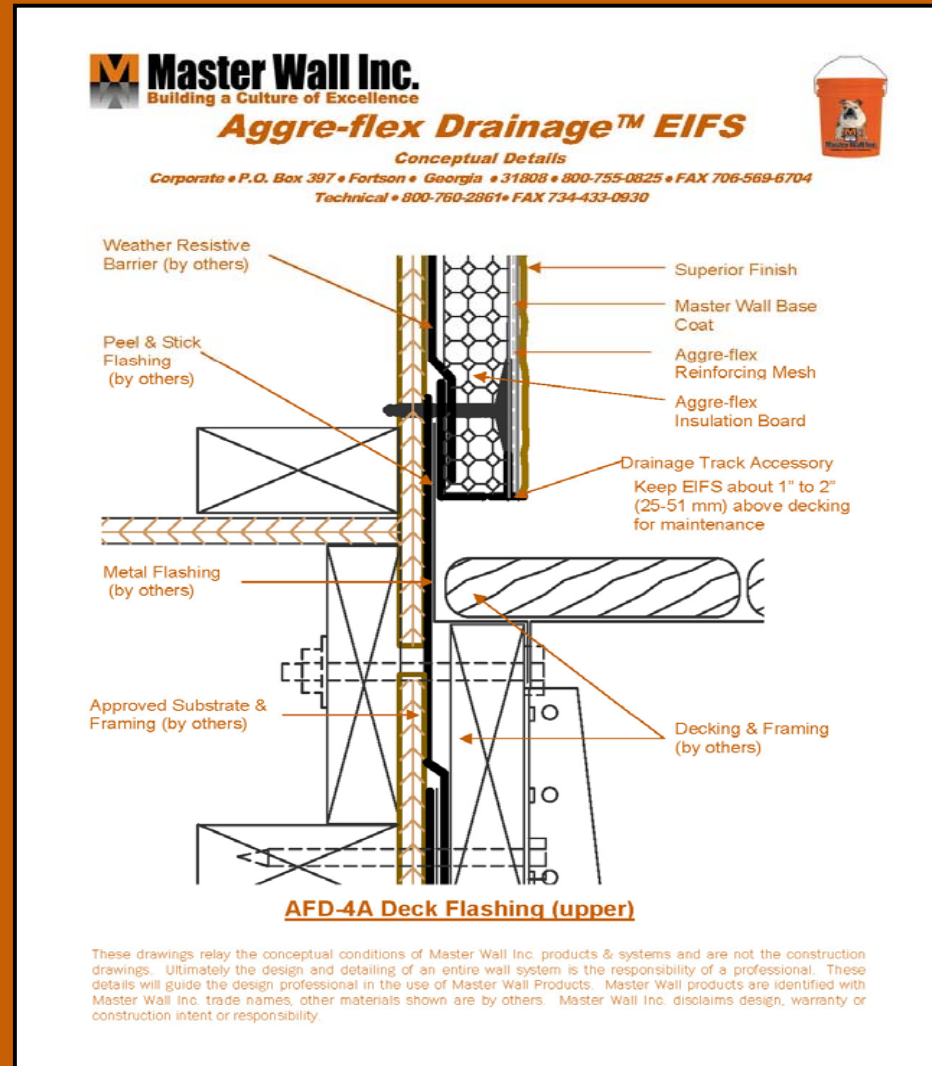
Door Sill

- EIFS isn't recommended for door sills
- A variation of our cement board system can be applied in its place



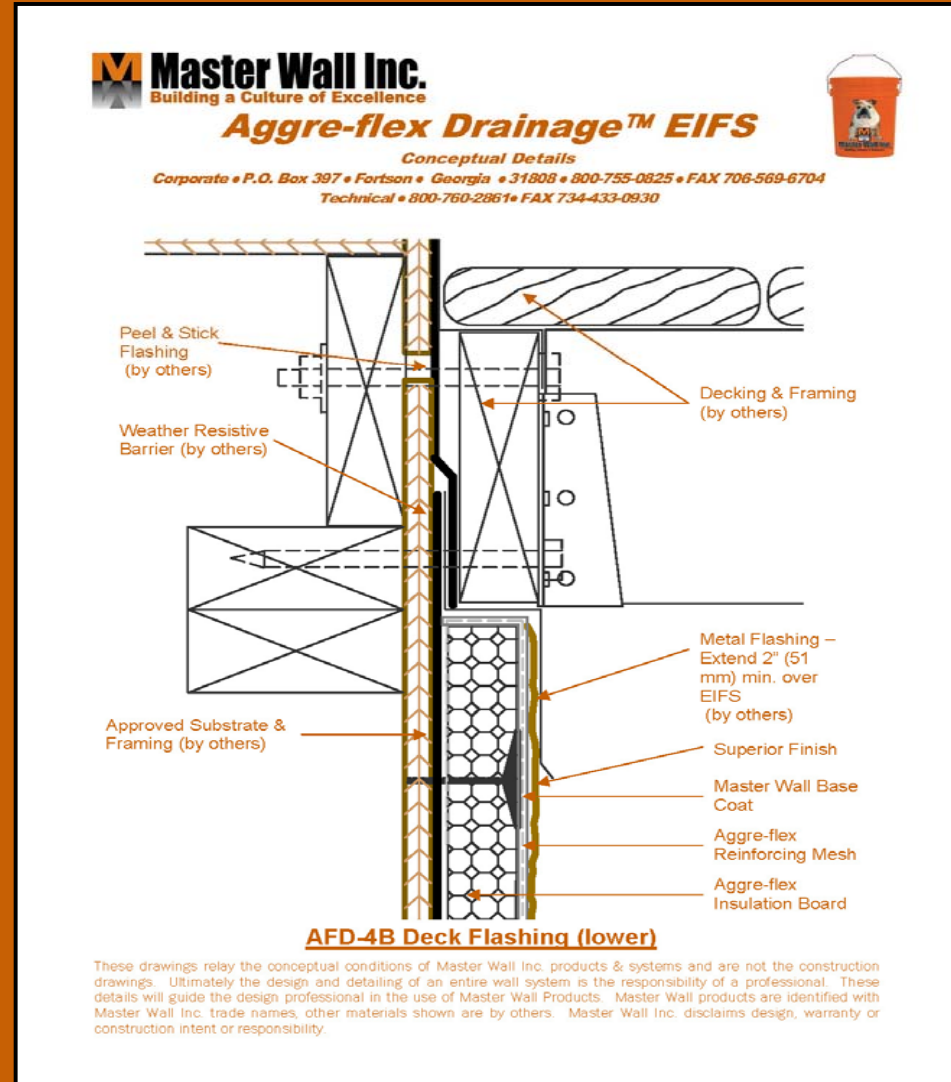
Deck Flashing - Upper

- Either casing bead (shown) or backwrap termination
- Leave 1"-2" (25-51 mm) above deck for maintenance



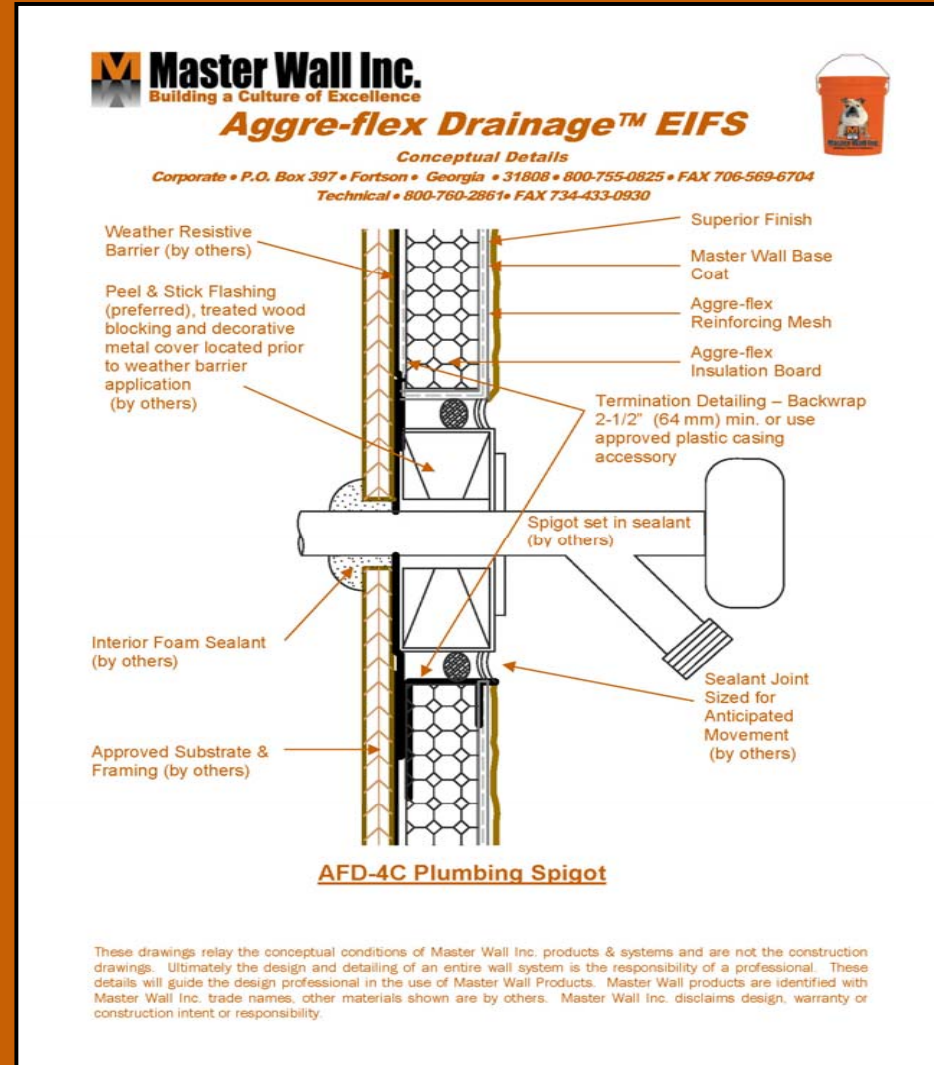
Deck Flashing - Lower

- Use flashing to direct water onto the face of the system
- Extend flashing a minimum of 2" (51 mm) and seal the lower edge



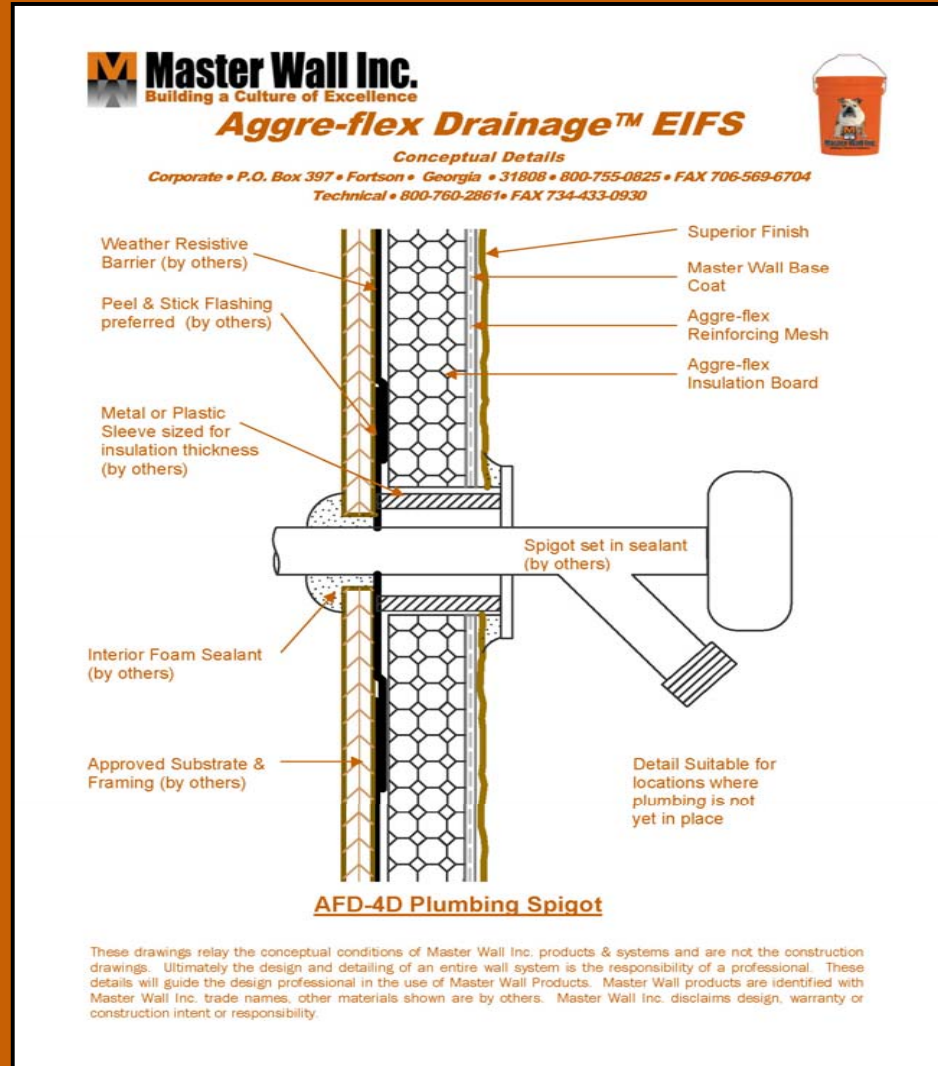
Plumbing Spigot

- Blocking is used to support the spigot
- The wall system uses sealant joints at the termination points



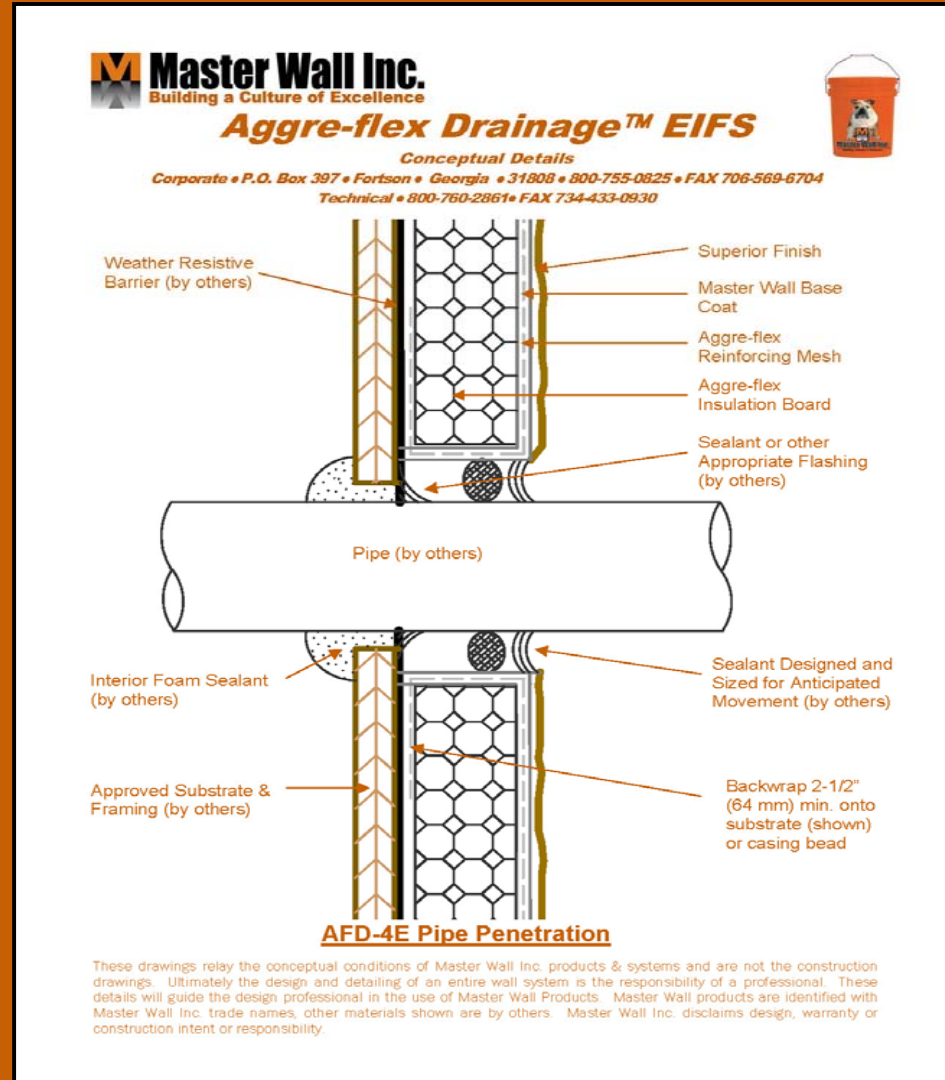
Plumbing Spigot

- A spacer is used to support the spigot
- The spigot flange is set in sealant



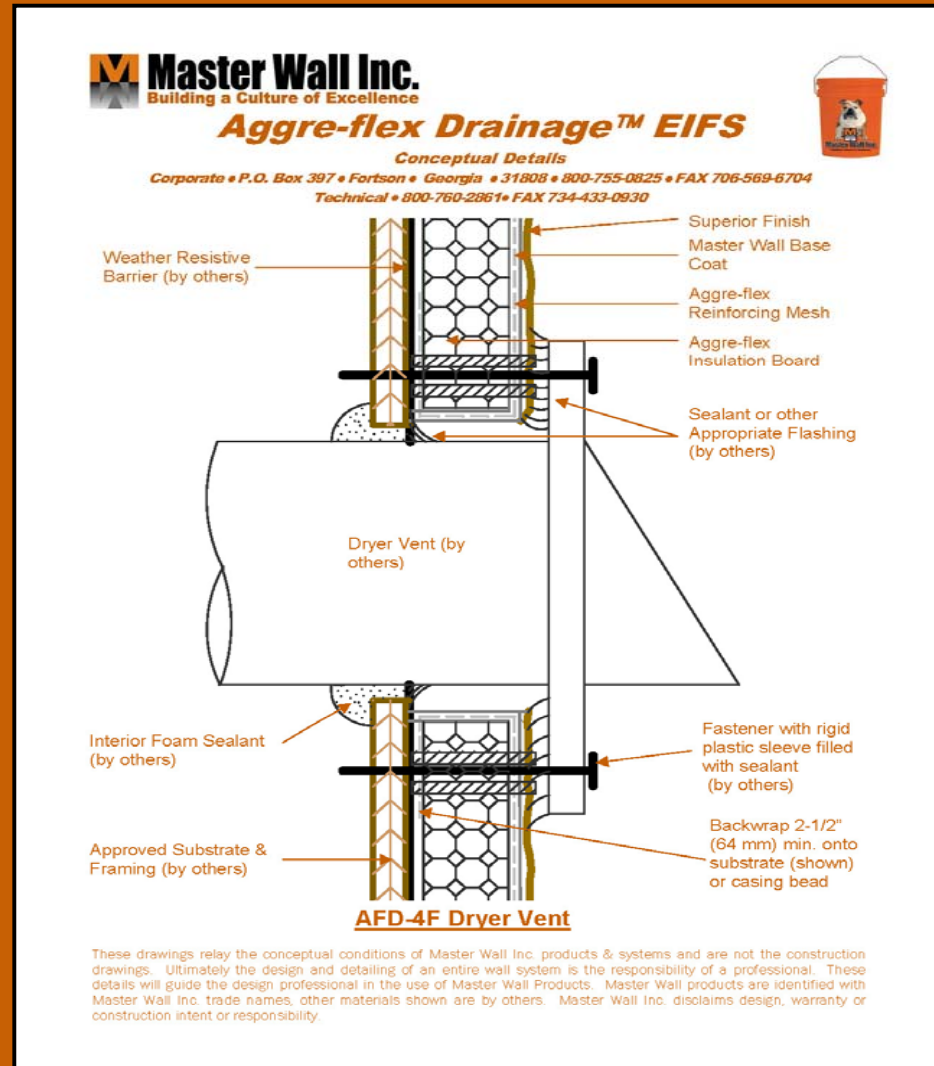
Pipe Penetration

- Backwrap is the best option for round pipes
- Pipe should also be sealed to the weather barrier



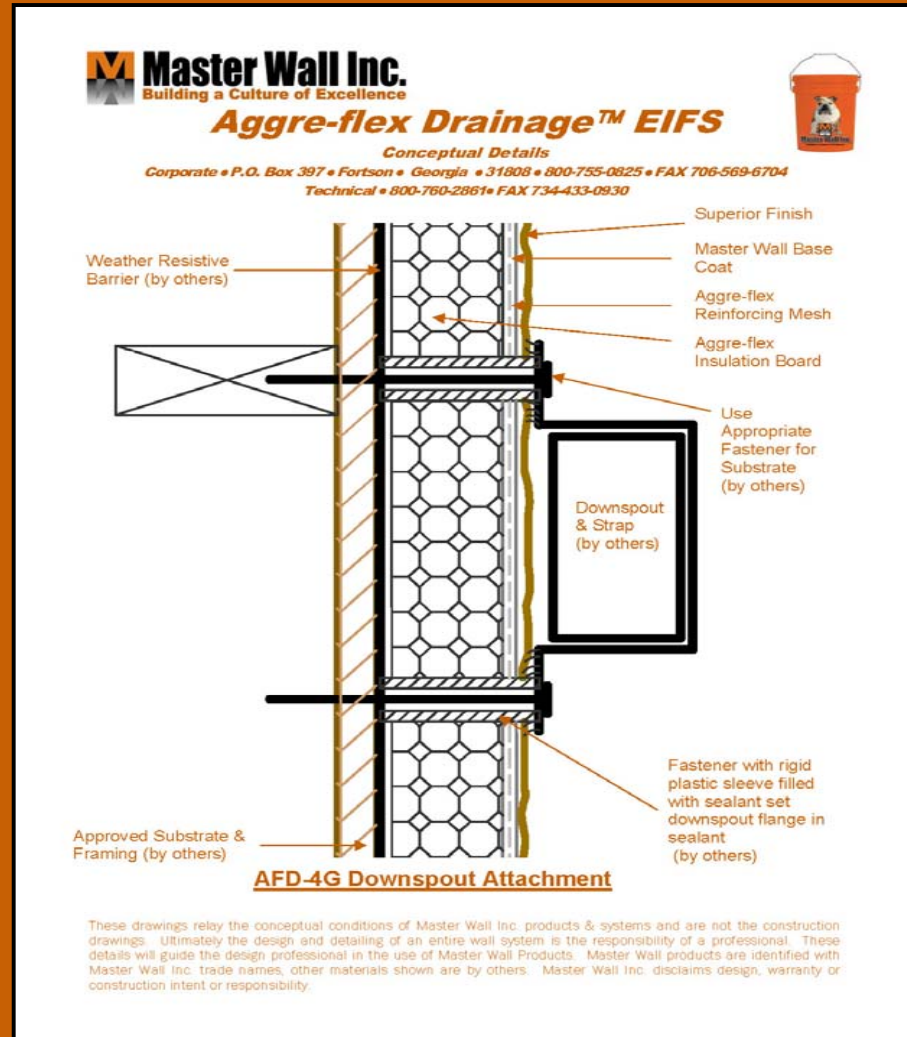
Dryer Vent

- Backwrap the system at the dryer vent
- Use sleeves and set vent in sealant



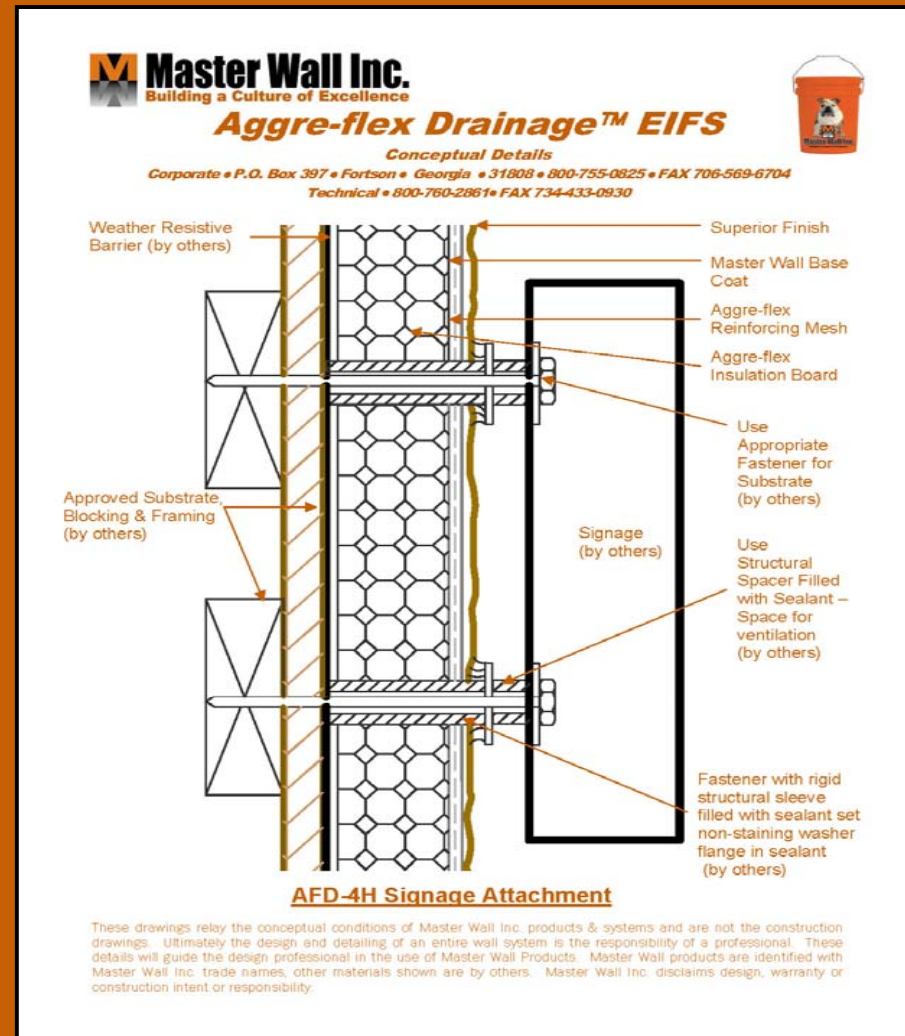
Downspout

- Use sleeves to prevent damage to the system
- Set everything in sealant to prevent leaks



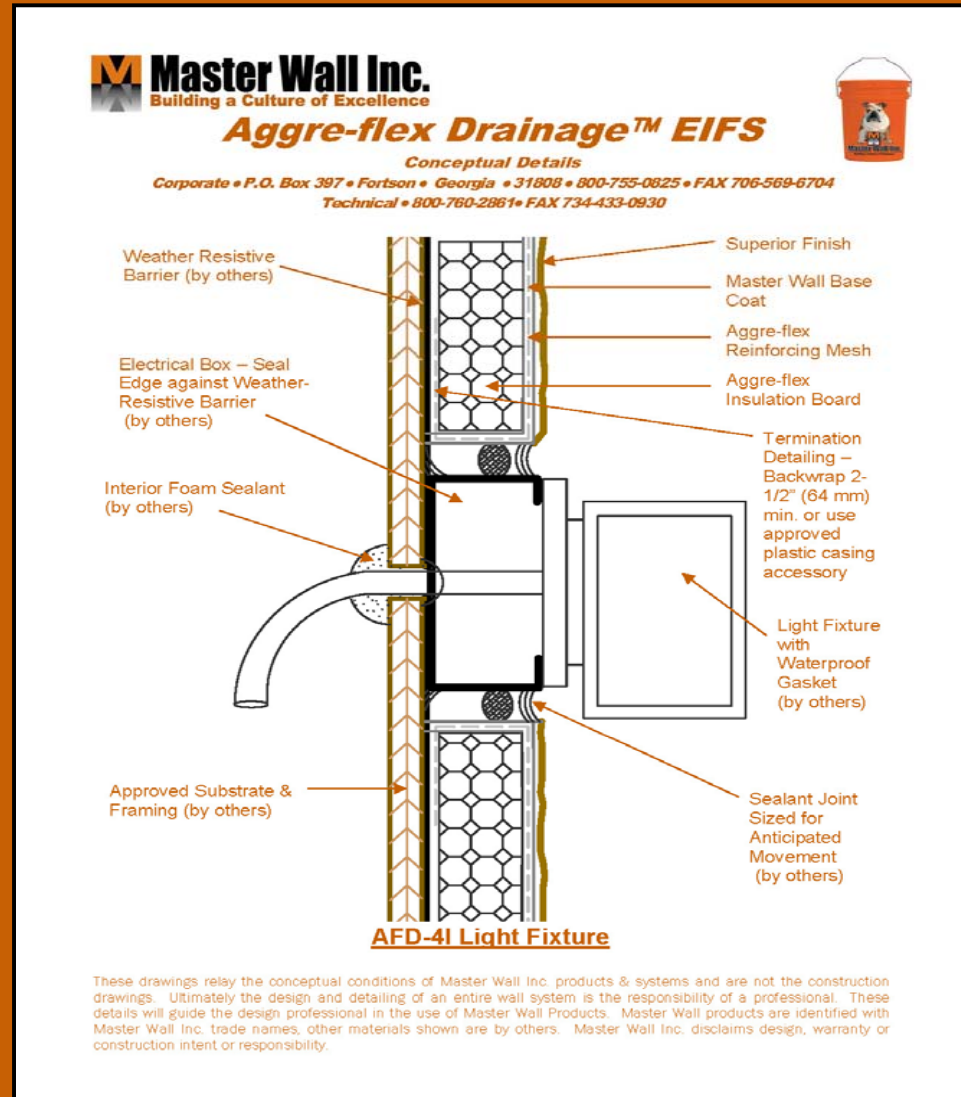
Signage Attachment

- Signage needs to be attached to structural support
- Use sleeves to prevent crushing the system
- Space signage to allow for air movement
- Set everything in sealant to prevent leaks



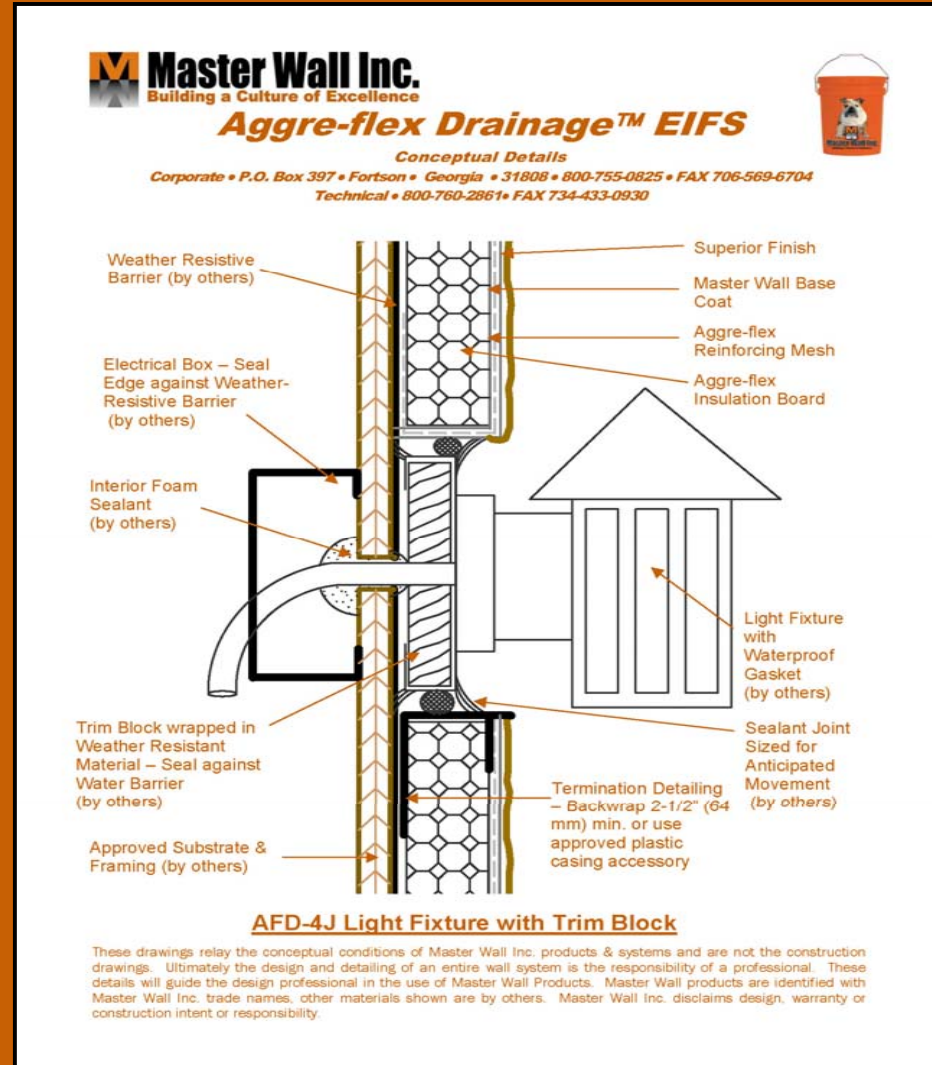
Light Fixture

- Backwrap (shown) or casing bead termination
- Seal the system against waterproof box



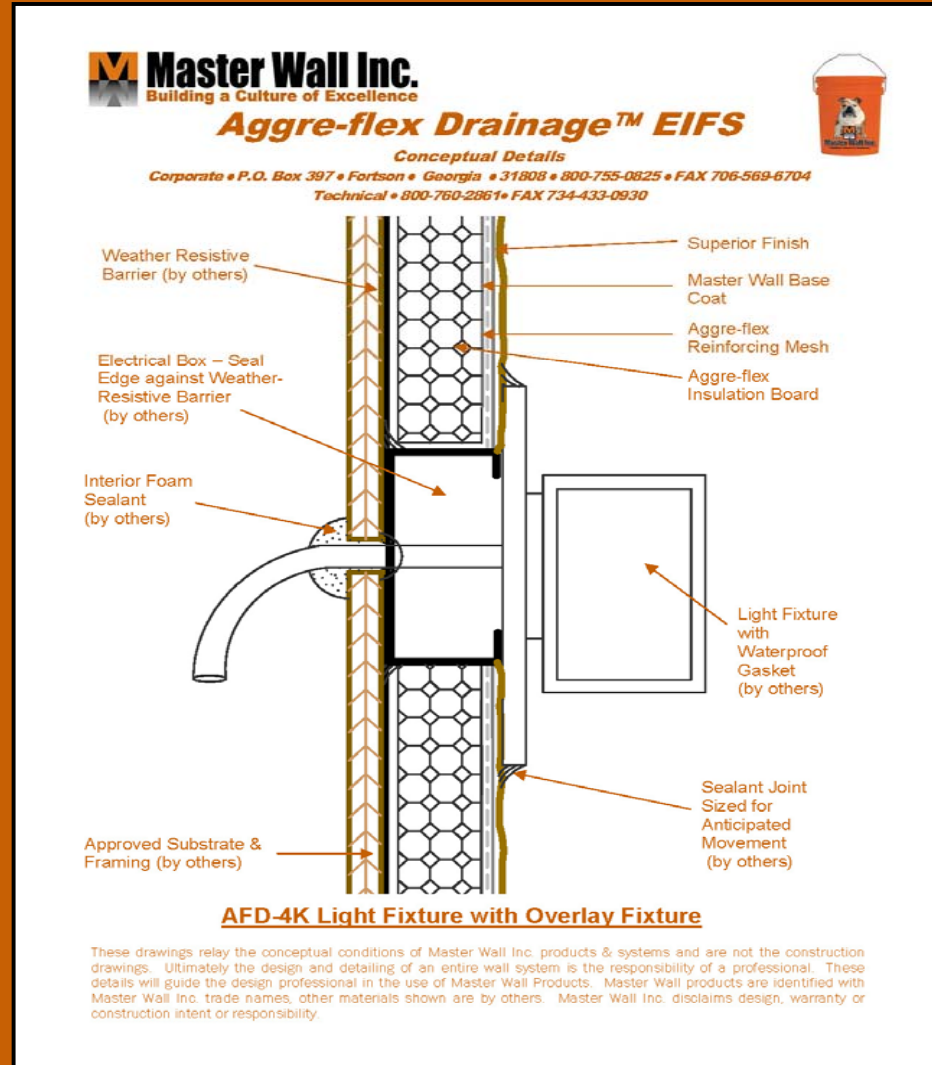
Light Fixture – Trim Block Option

- Backwrap (shown) or casing bead termination
- Seal the system against waterproof trim block



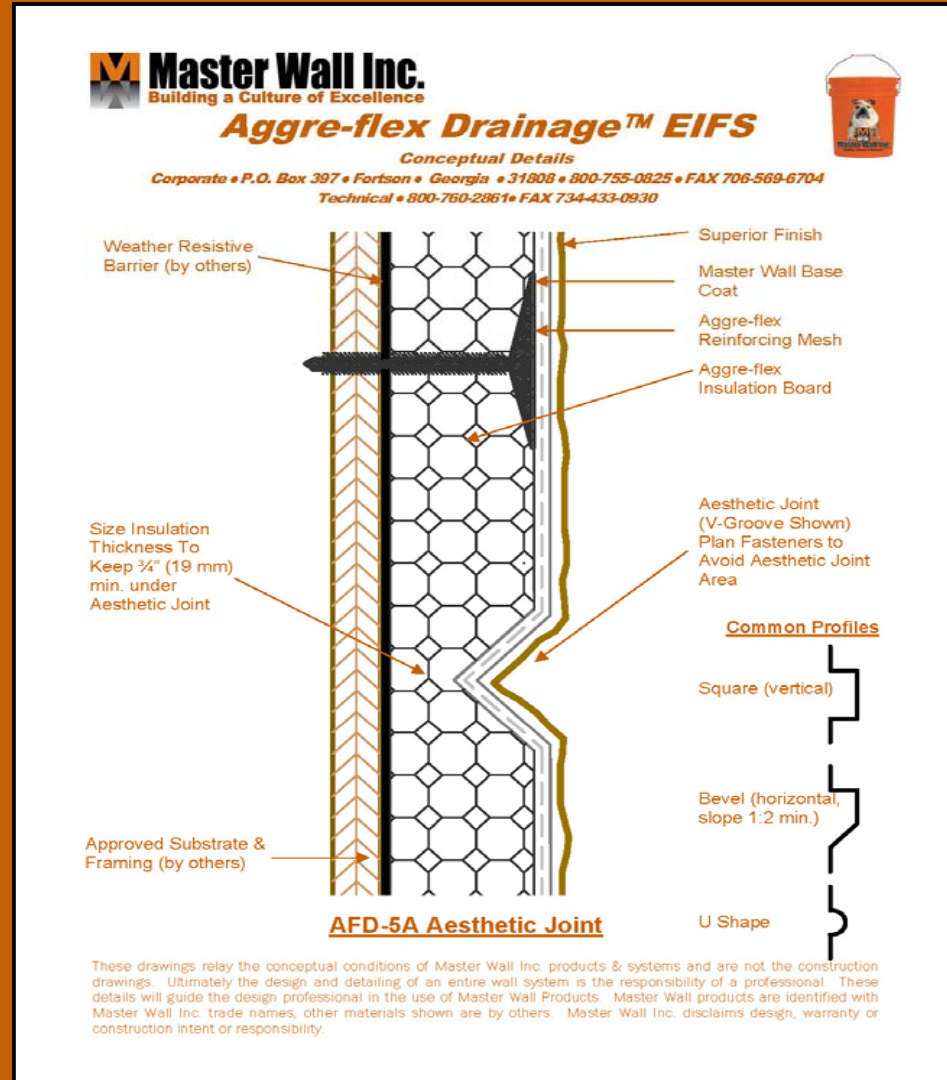
Light Fixture – Overlay Option

- Run system to fixture box
- Seal the waterproof fixture to the system



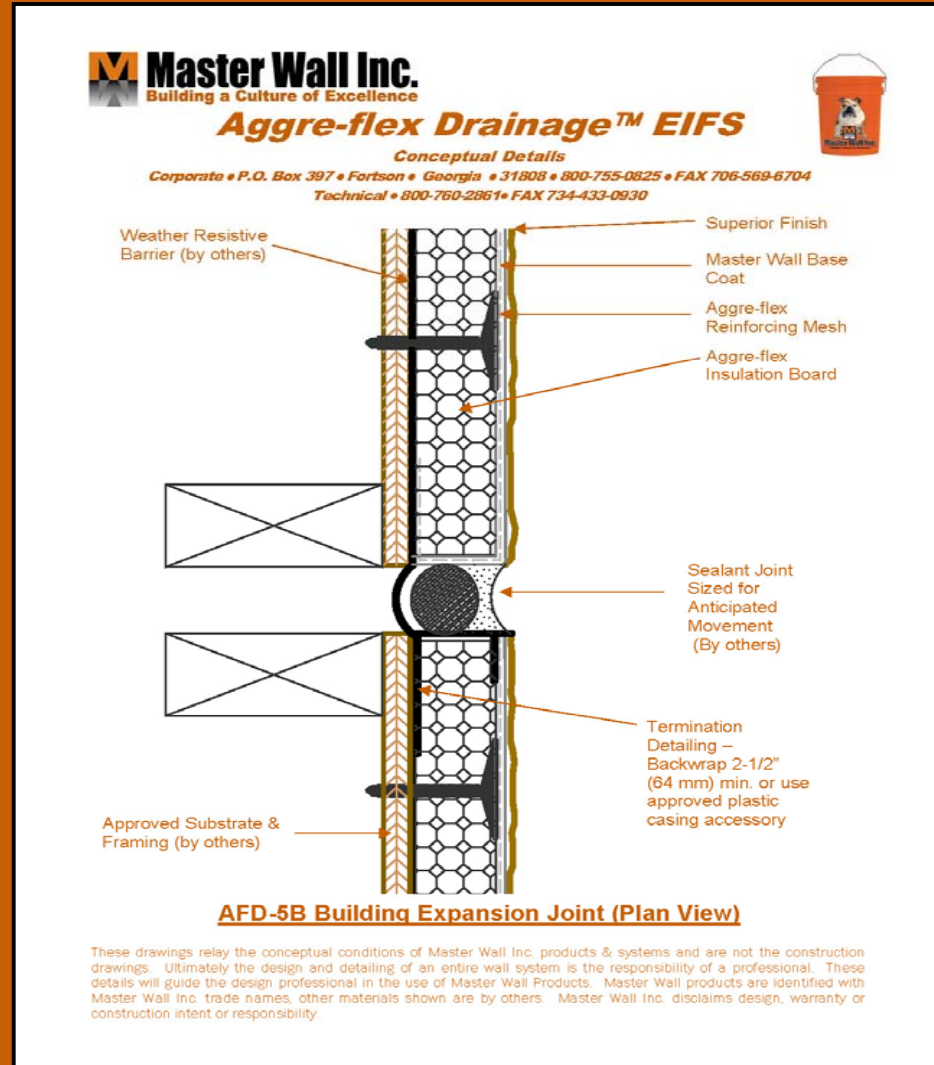
Aesthetic Joint

- Keep at least $\frac{3}{4}$ " (19 mm) of insulation under the system at all times
- Many different types of shapes are available



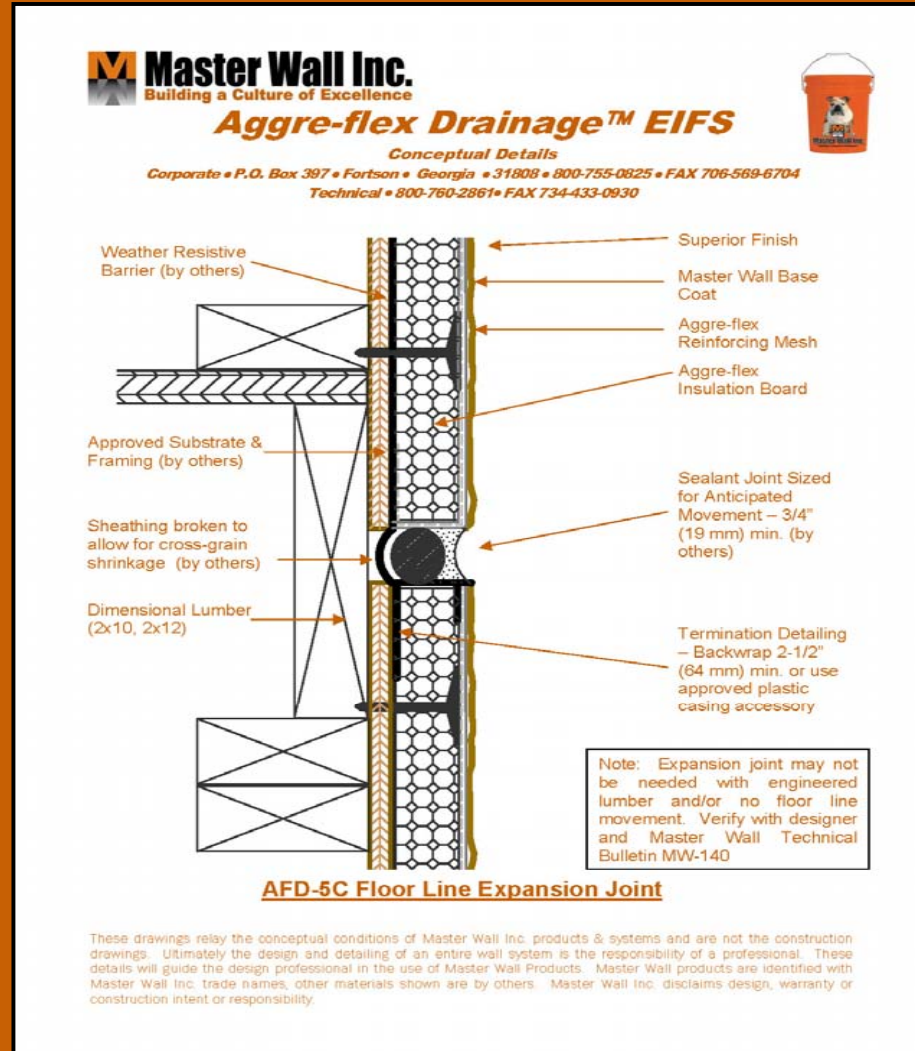
Expansion Joint

- Either backwrap or use casing bead
- Water barrier runs continuously under the system



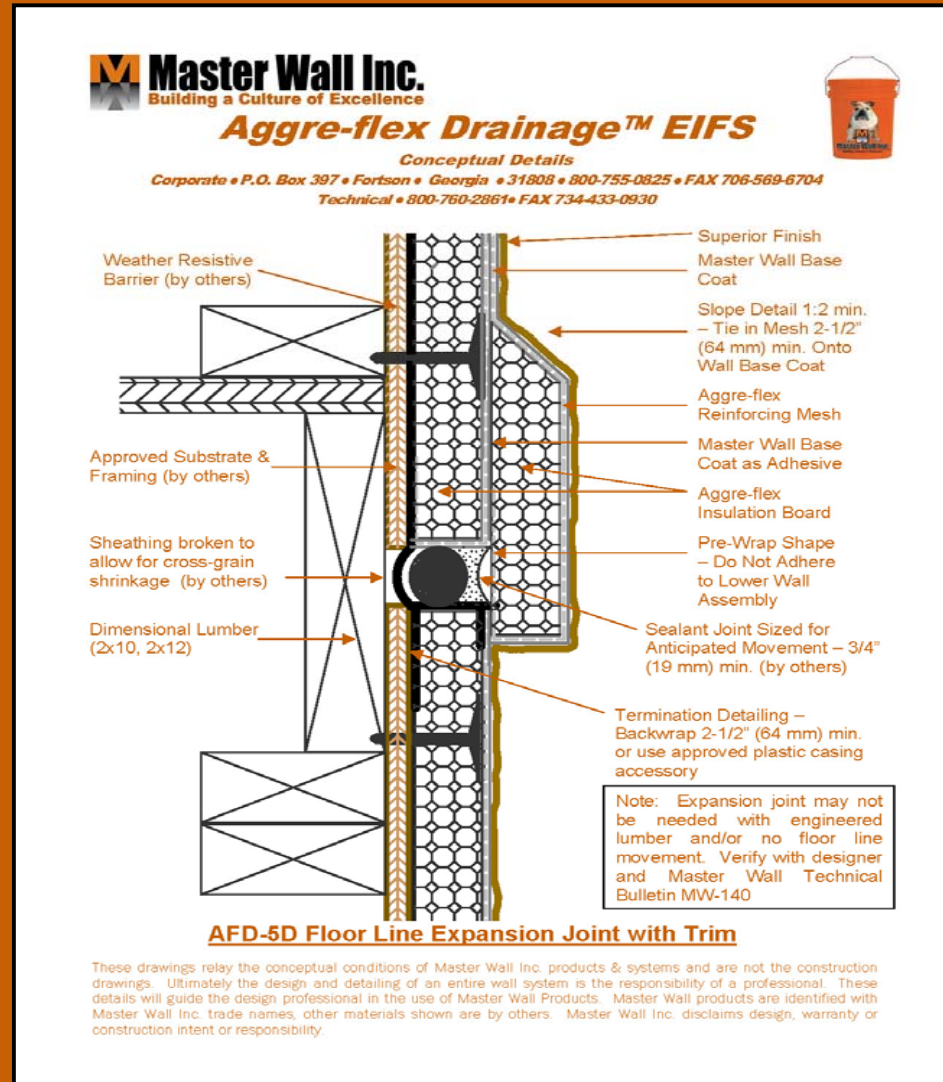
Floor Line Expansion Joint

- Allows for cross-grain shrinkage in dimensional lumber
- Either casing bead or backwrap termination
- Water barrier runs continuously



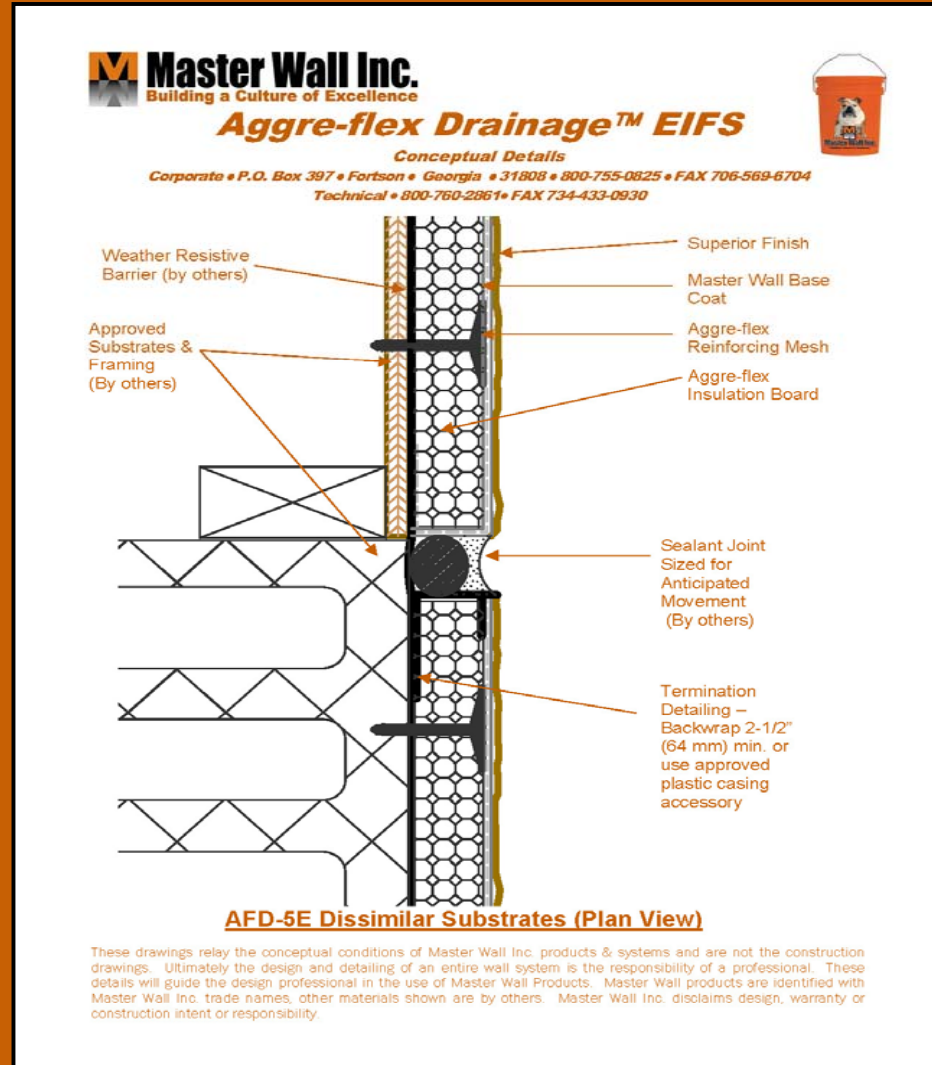
Floor Line Expansion – Trim Option

- Hides expansion joint with trim
- Adhere trim using Master Wall adhesives
- Slope to shed water, 1:2 minimum



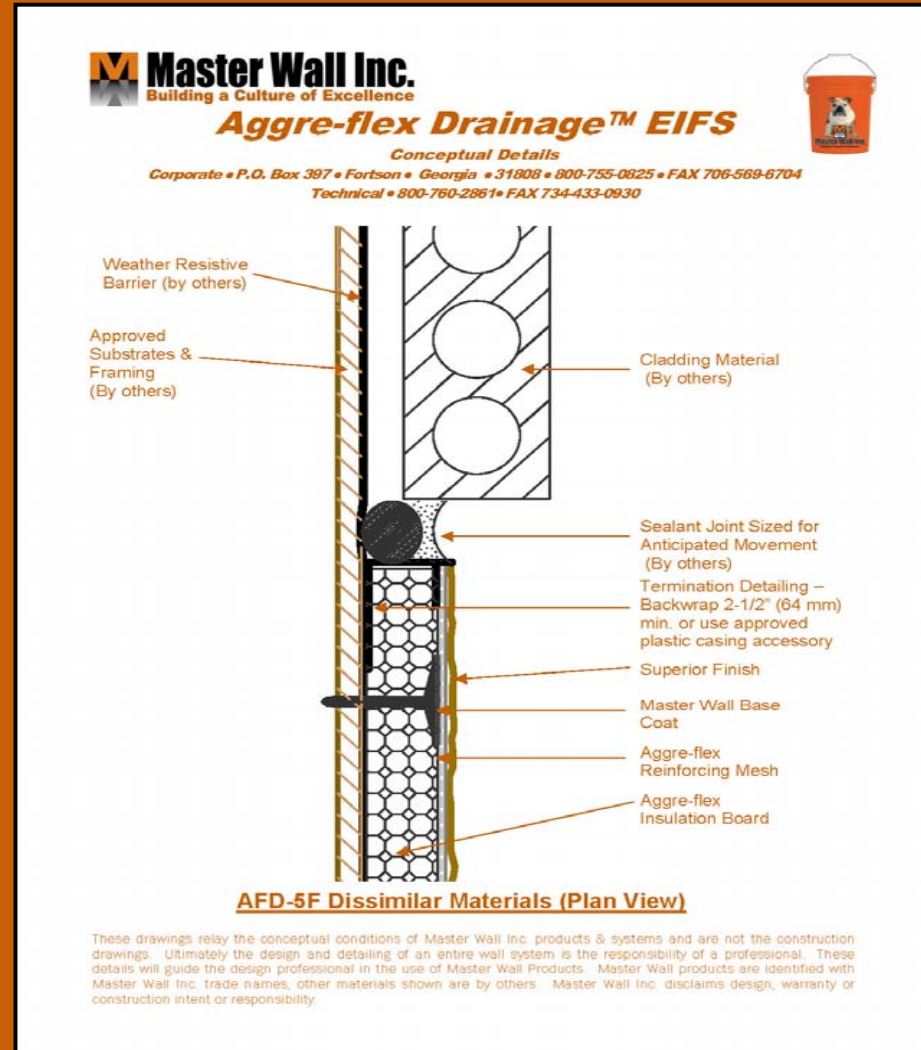
Dissimilar Substrates

- Break the system where substrates change
- Use a $\frac{3}{4}$ " (19 mm) minimum expansion joint width



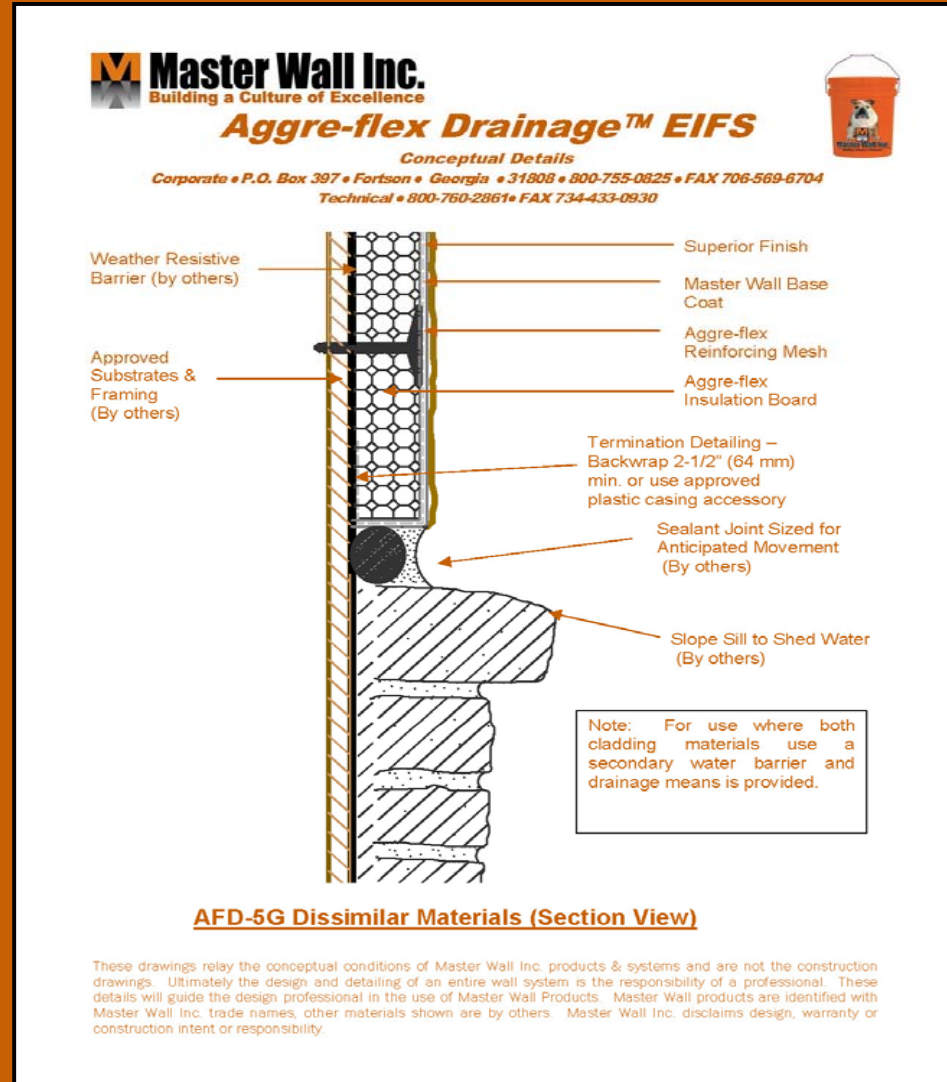
Dissimilar Materials (Plan View)

- Water barrier is run continuously
- Use a $\frac{3}{4}$ " (19 mm) minimum expansion joint



Dissimilar Materials

- Water barrier is run continuously and system drains at the foundation
- Use a 3/4" (19 mm) minimum expansion joint



Dissimilar Materials

- Allows systems to drain incidental water independently

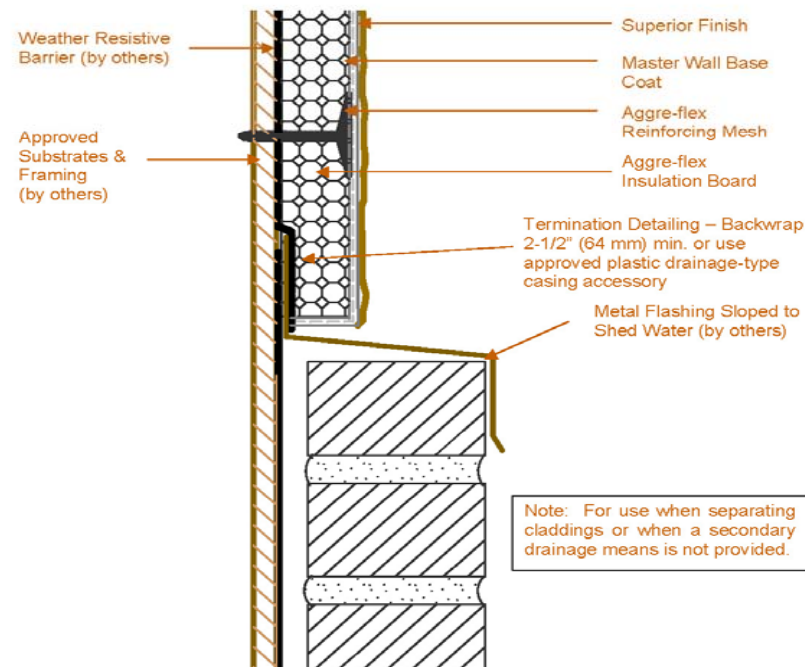
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Note: For use when separating claddings or when a secondary drainage means is not provided.

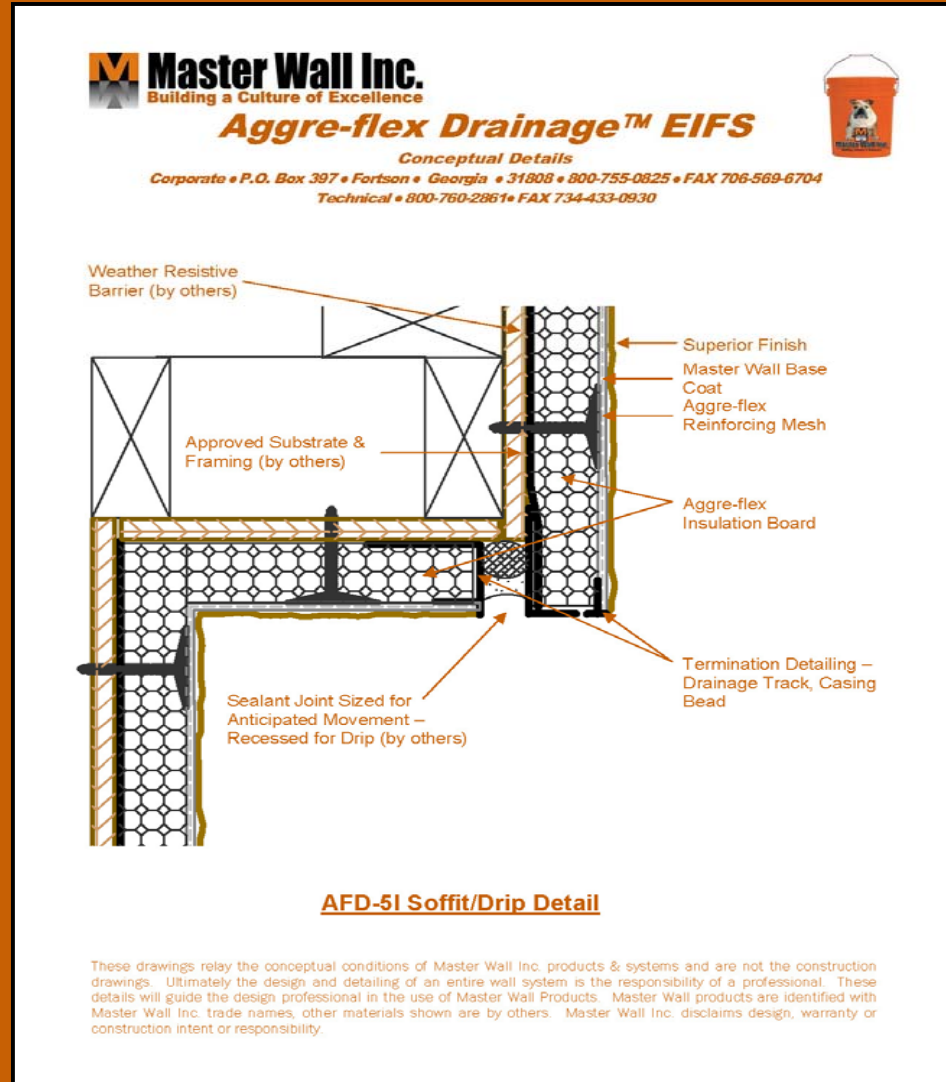
AFD-5H Dissimilar Materials Flashed (Section View)

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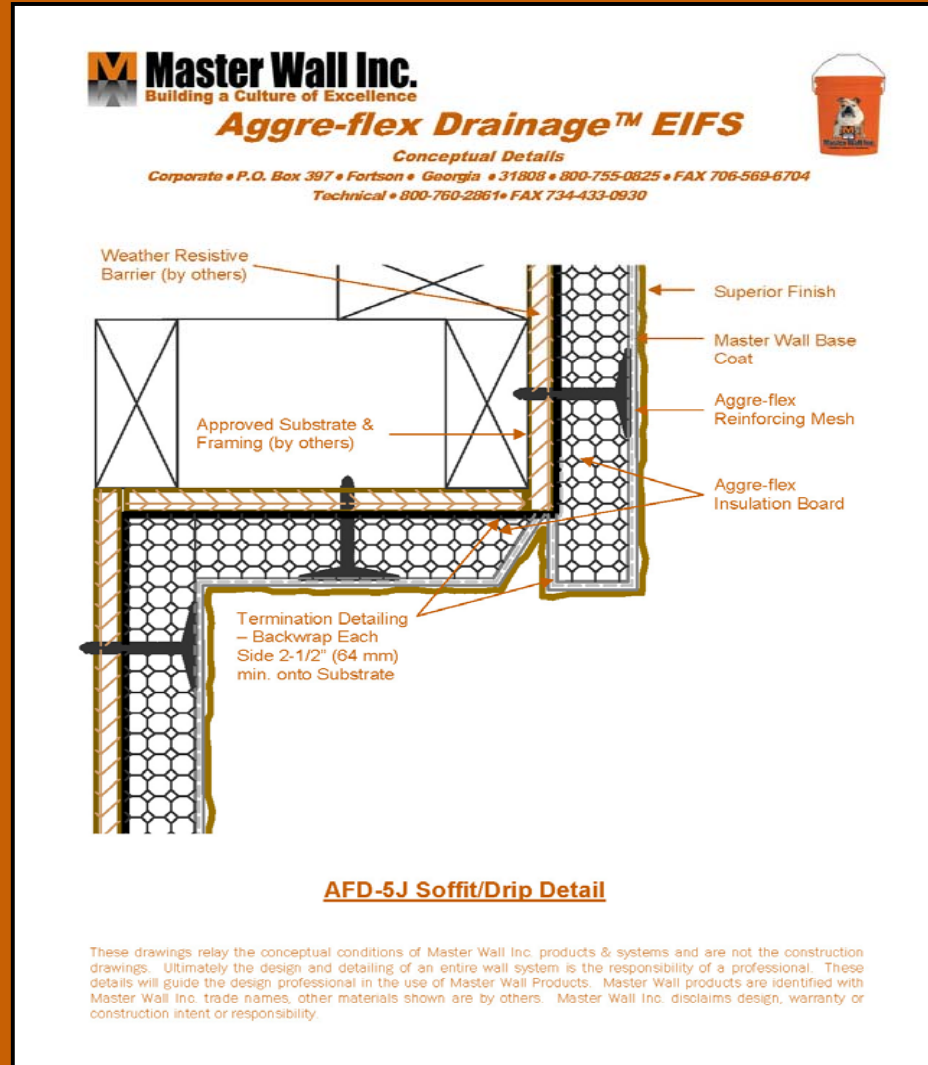
Soffit/Drip

- Uses casing beads for drainage



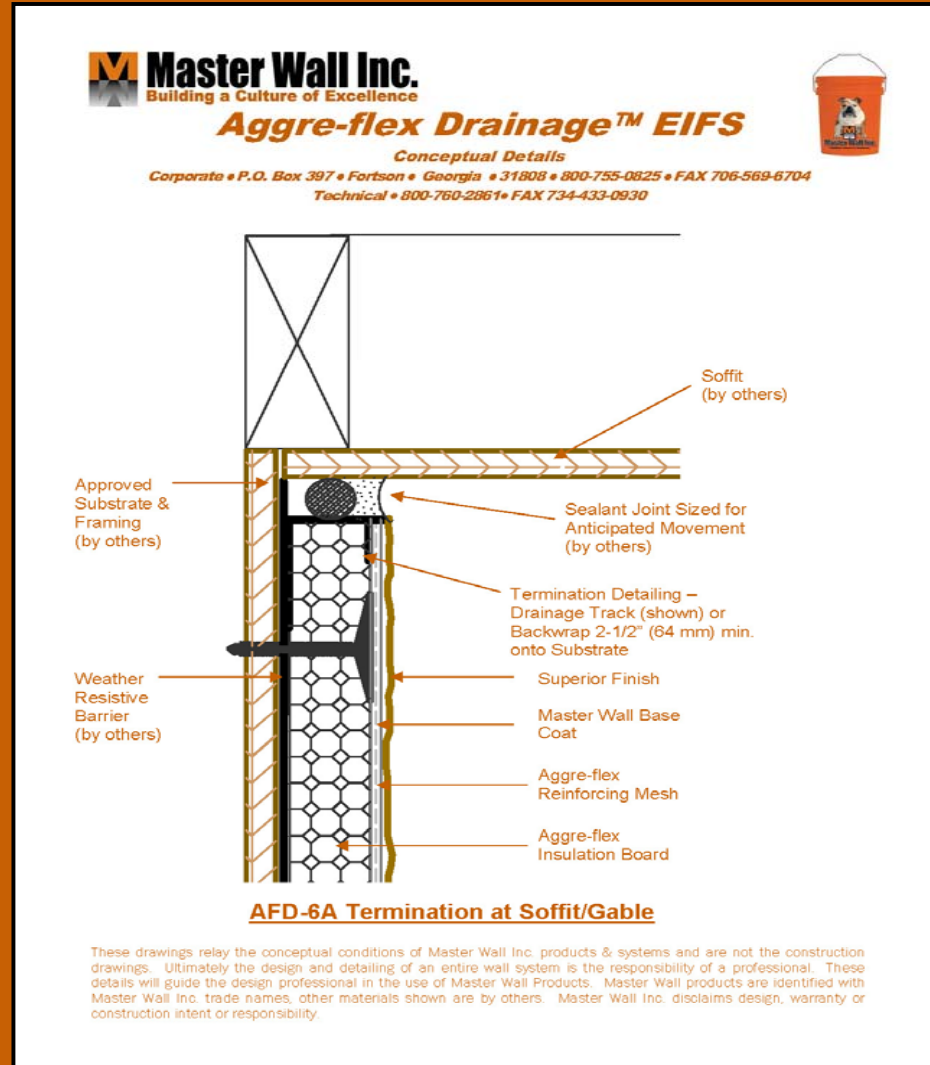
Soffit/Drip

- Uses a backwrap technique



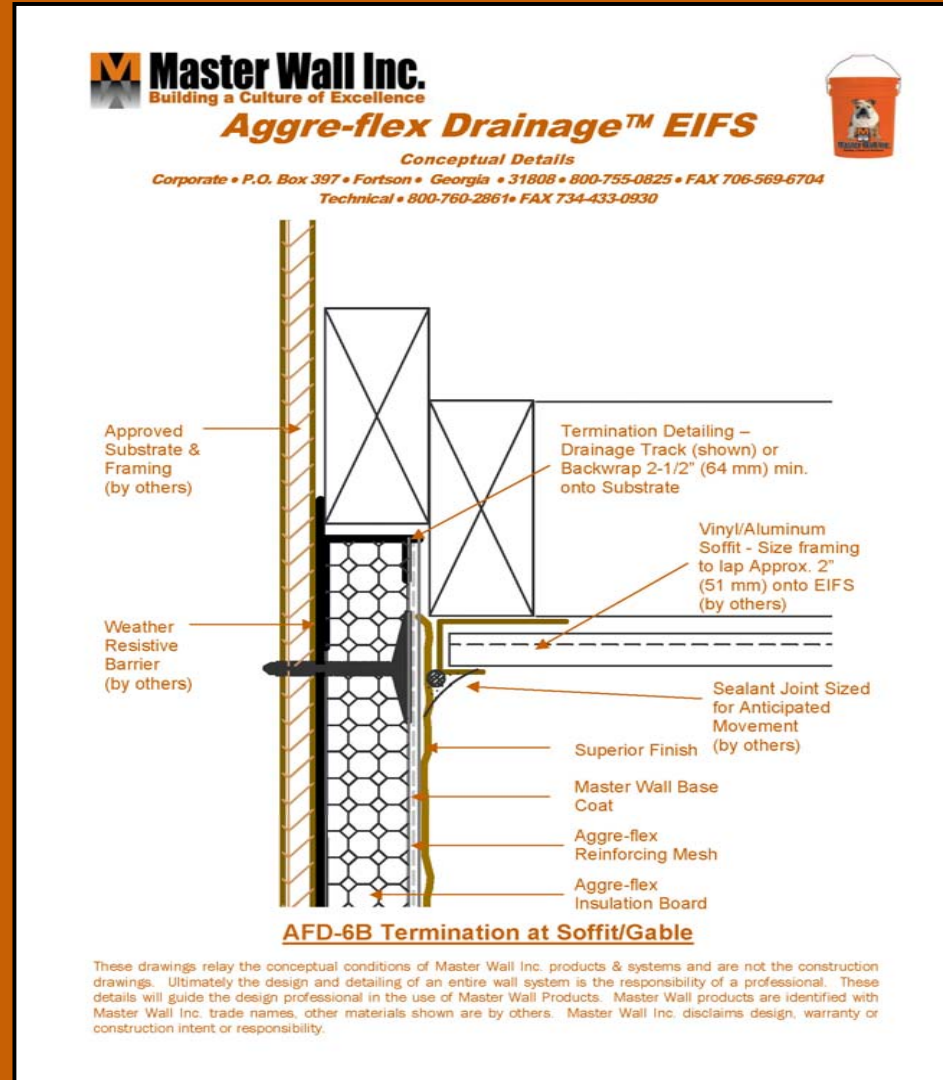
Soffit/Gable

- Casing bead (shown) or backwrap termination
- Expansion joint used between the two materials



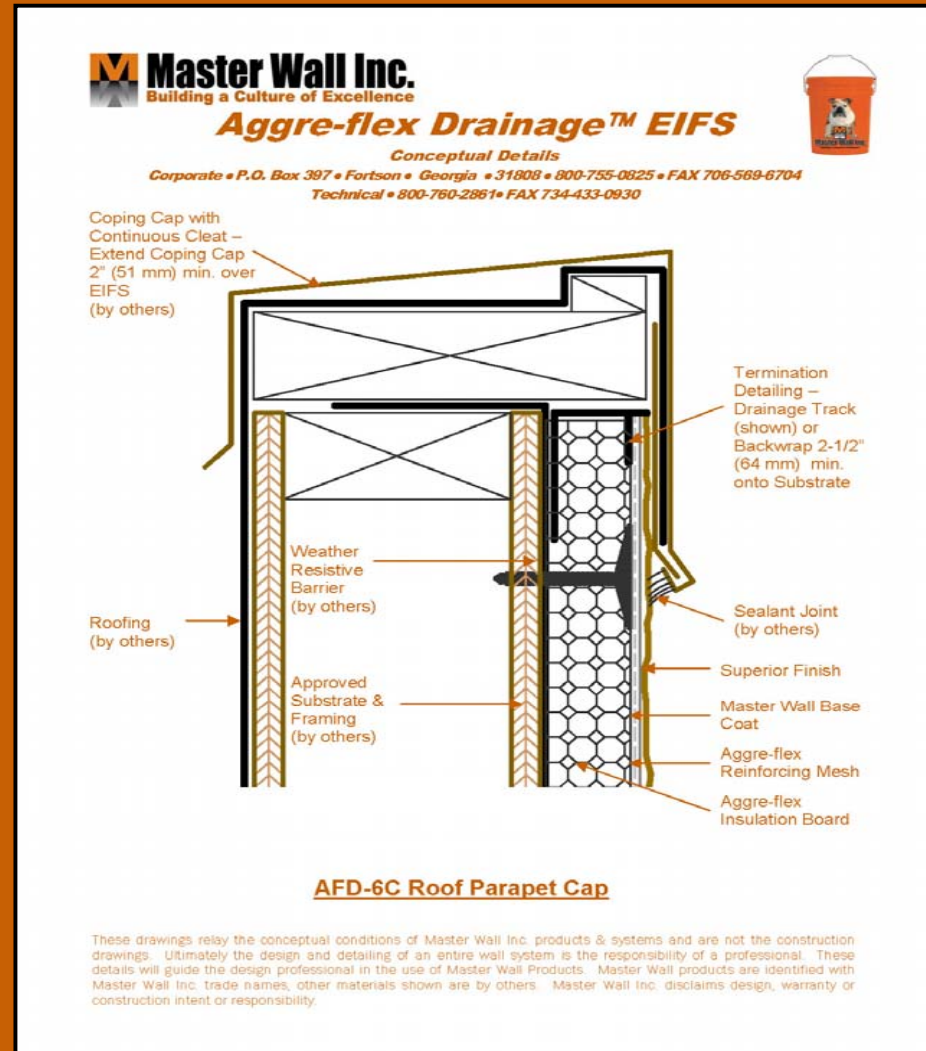
Soffit/Gable

- System is terminated above soffit
- Drip soffit is installed



Parapet Cap

- Casing bead (shown) or backwrap termination
- Coping Cap with secondary water barrier
- Extend cap 2" (51 mm) over system and seal the lower edge



EIFS Parapet

- Slope all caps 1:2 min.
- Design varies with width
- Maximum 18" wide

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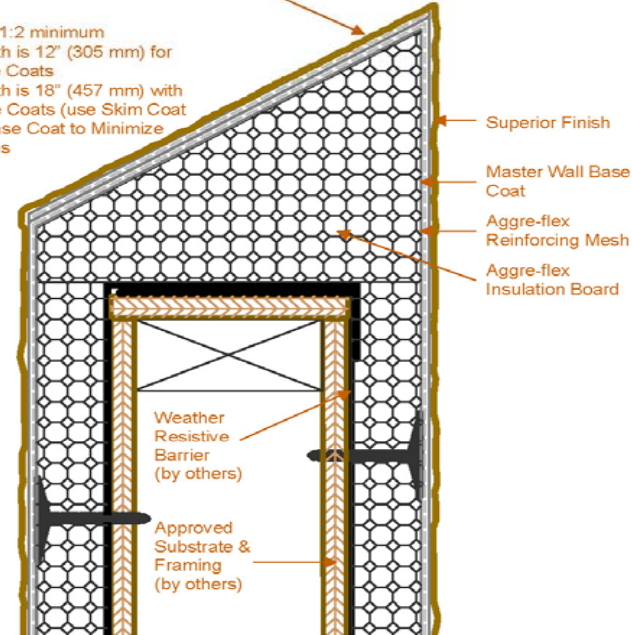
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Double Layer of Master Wall
Standard Reinforcing Mesh
Embedded in Base Coat

Cap Guidelines

- Slope all caps 1:2 minimum
- Maximum Width is 12" (305 mm) for Standard Base Coats
- Maximum Width is 18" (457 mm) with Guardian Base Coats (use Skim Coat of Standard Base Coat to Minimize Color Variations)



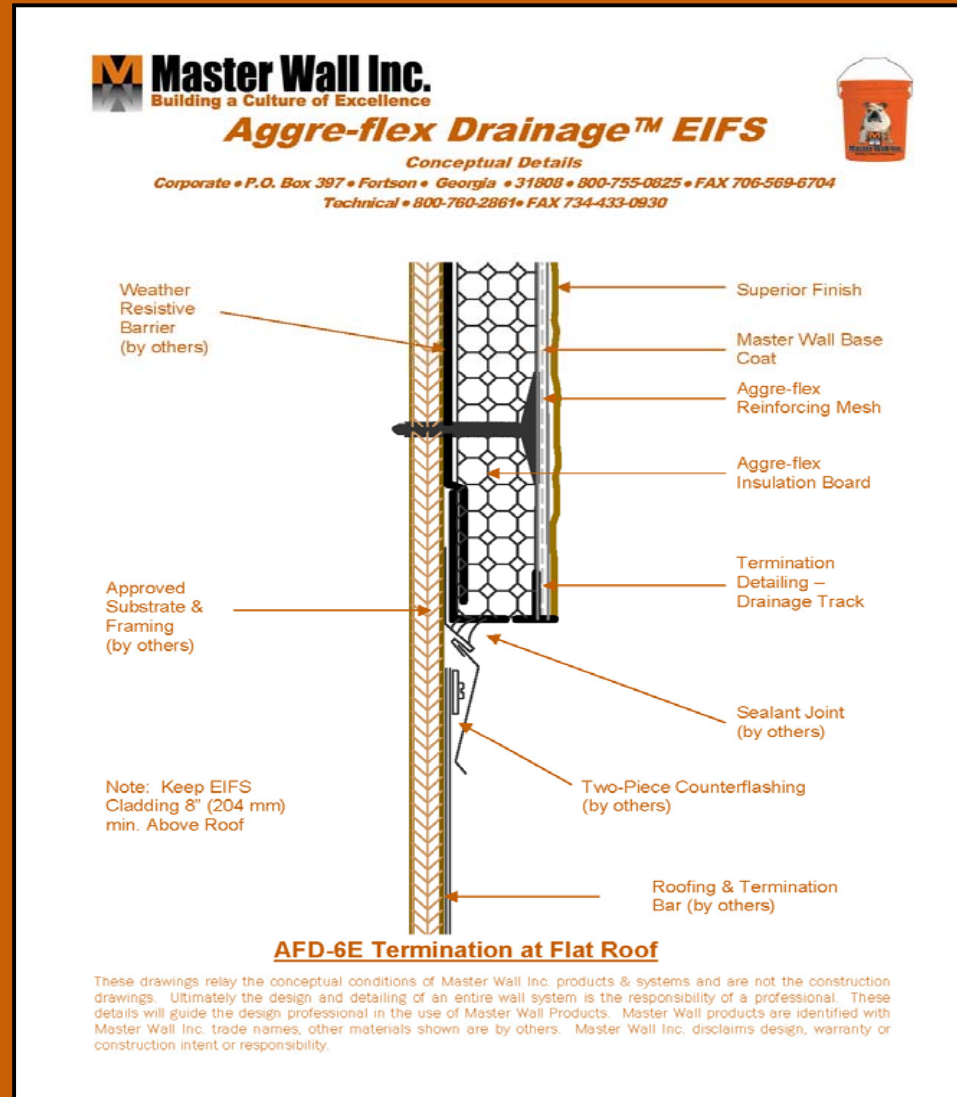
AFD-6D EIFS Parapet Cap

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Roof Termination

- Install drainage track
- Keep system at least 8" (204 mm) above flat roof



Roof Termination

- Drainage Track termination
- Sealed to approved roofing accessory

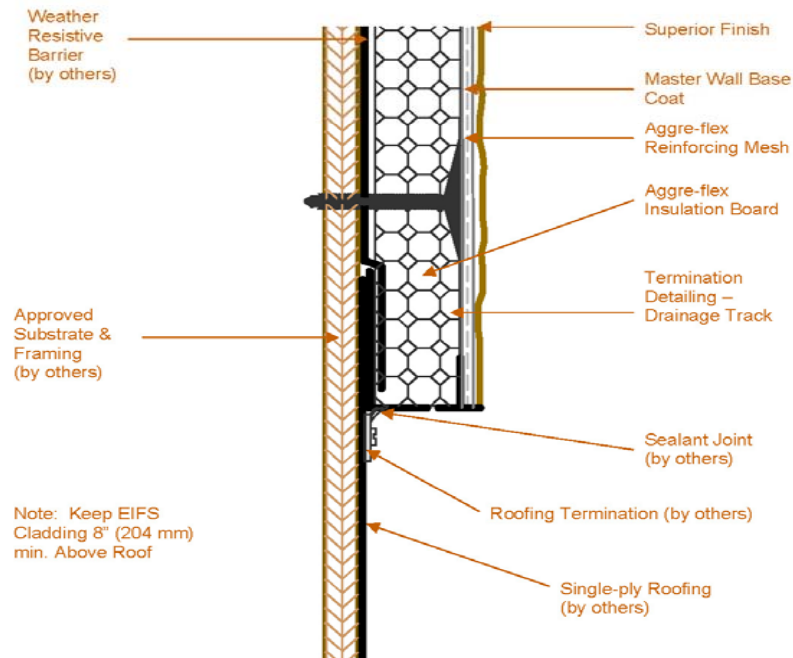
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Note: Keep EIFS Cladding 8" (204 mm) min. Above Roof

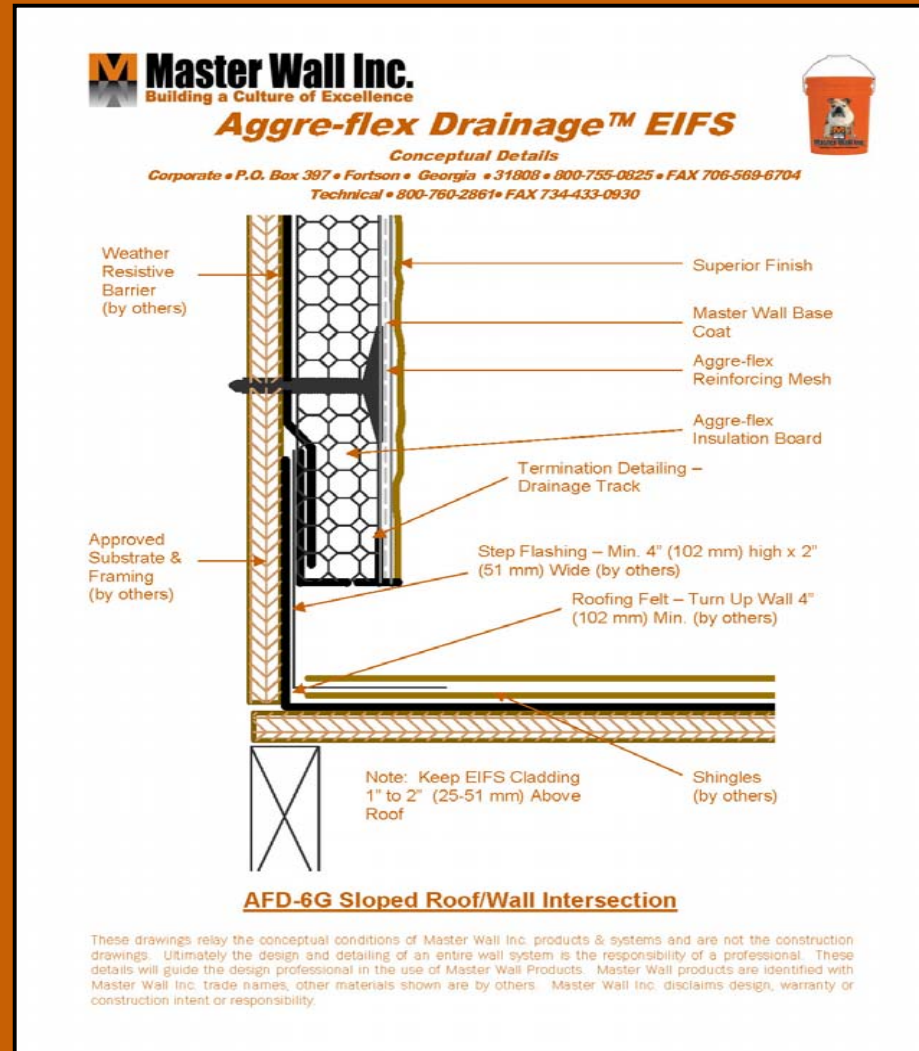
AFD-6F Termination at Flat Roof

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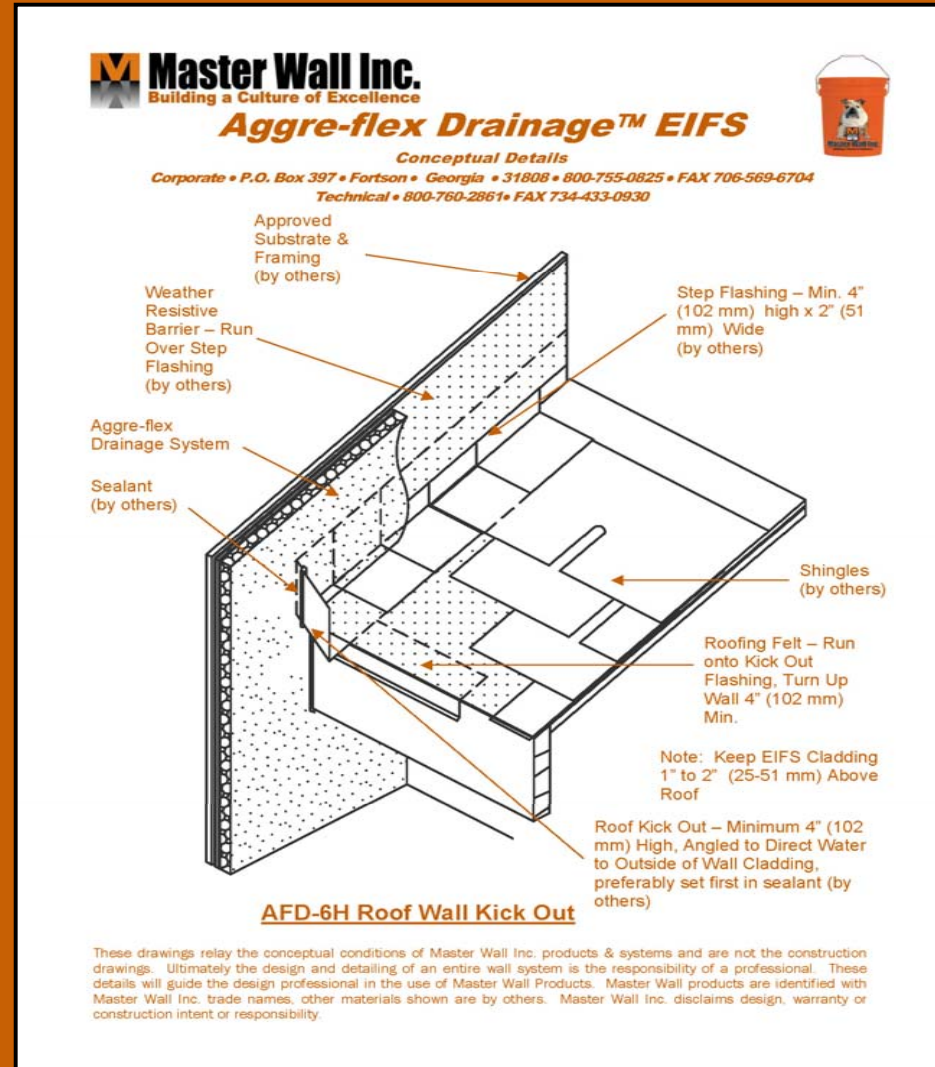
Sloped Roof/Wall Intersection

- Drainage type termination
- Roof felt and flashing run up wall at least 4" (102 mm)
- Keep system 1" to 2" (25-51 mm) above roof



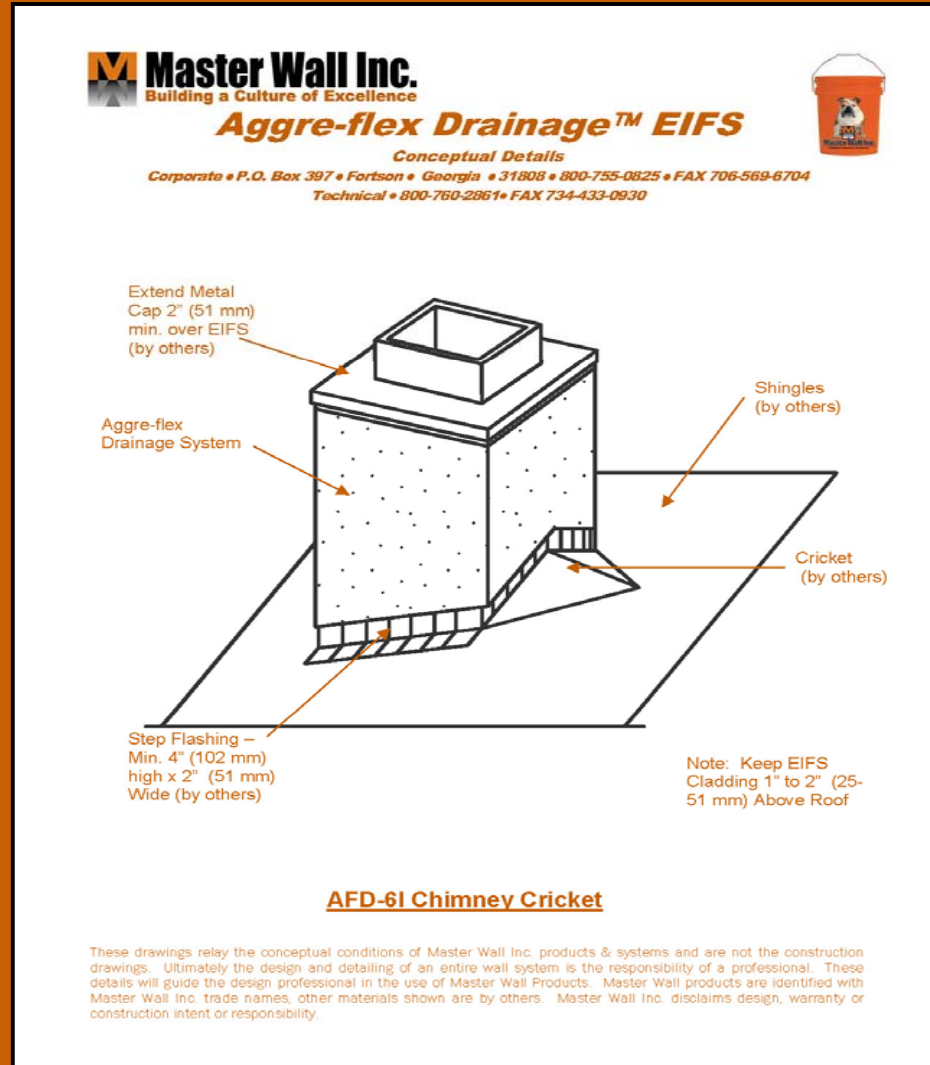
Roof Kick Out Flashing

- Directs water to the outer face of the wall
- Set flashing in sealant
- Prefabricated flashings are available

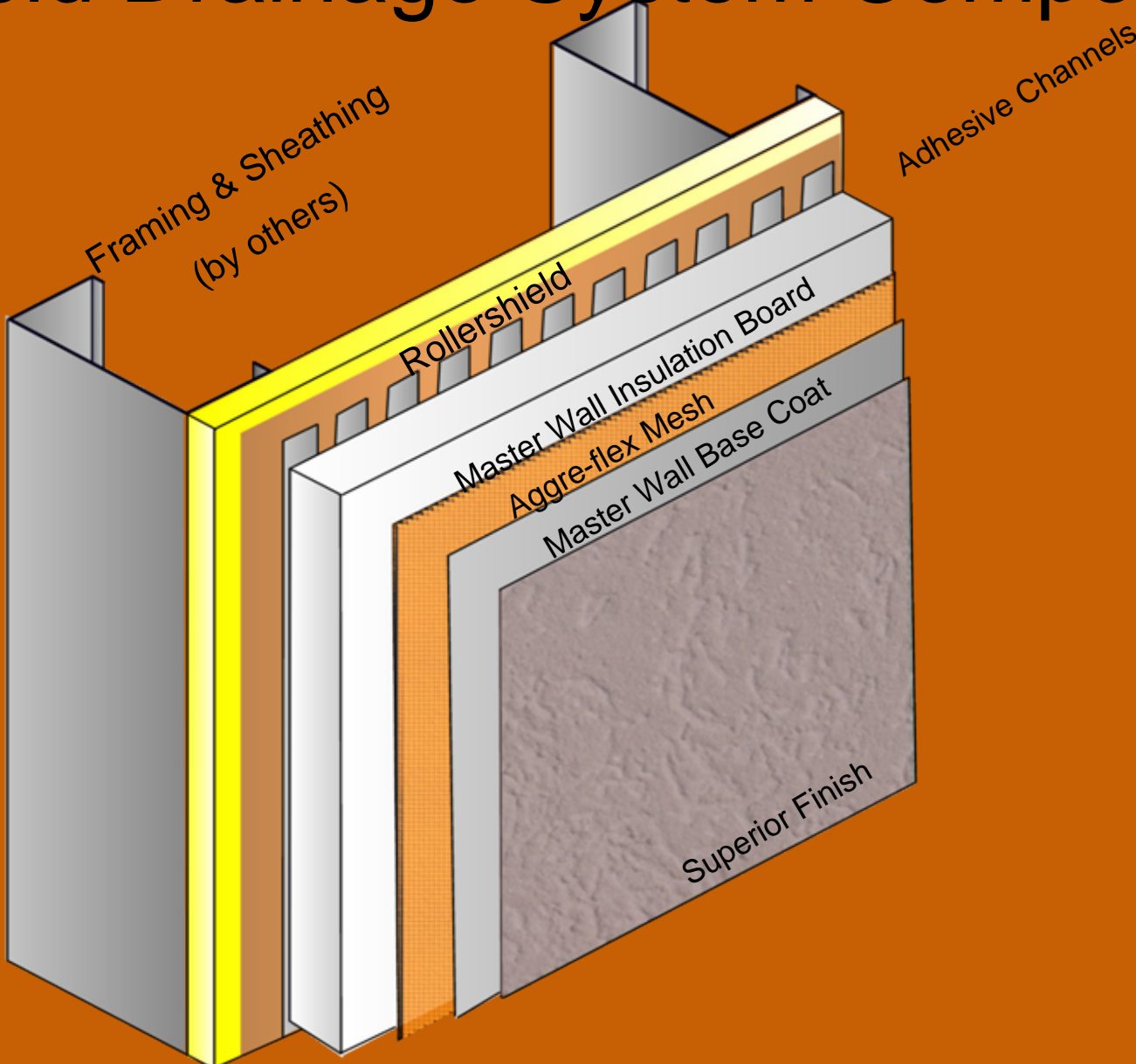


Chimney Detail

- Chimney cricket installed to direct water away from chimney



Rollershield Drainage System Components



Basic Rollersshield Product Line

- Rollersshield
 - A roll-on type water barrier that bridges openings up to approximately 1/4" wide
- Trowelshield
 - A trowel grade version of Rollersshield for filling gaps, skips and wider openings in the substrate
- Optional Flashing
 - WeatherStop Tapes

Rollersshield
Rollersshield is a high quality 100% acrylic Air/Water Barrier
roll applied flexible air and water barrier. Rollers or Spray Application
Easily applied with brush, roller or squeegee, it helps protect approved substrates from incidental water damage. Rollersshield is available in five-gallon (19L) pails and is ready for use after pre-mixing.

Application Procedure

Job Conditions - An and substrate temperature for application of Rollersshield must be 40°F (5°C) or higher and not exceed 100°F (38°C) higher for a maximum of 24 hours. Products temperature should be around the wall system from corner wall penetration, flash and outside air needed. Rollersshield is not recommended for use on wet or frozen substrates. Working conditions should be based upon normal construction conditions and will vary with substrate and locally.

Preparation - The substrate must be prepared by Master Wall Inc., Inc. It should be clean and free of efflorescence, oil, grease, form release agents and curing compounds or anything that would affect adhesion. Flaking surfaces are not acceptable and must be removed. Cracks must be filled and free of fill or other impurities greater than 1/8" in 12" (3.18 mm x 305 mm).

Contents - Must have used a minimum of 28 days prior to the application of Rollersshield. It must release agents or curing compounds used on the surface, they must be removed with a suitable product (see appropriate procedure). Remove any residual seal by brushing with water.

Mixing - If joints are not trowel flush, multiple coats may be required. Contact Master Wall for more information.

Shifting/Architect - Shifting gaps must be less than 1/4" (6.35 mm). For gaps larger than 1/4" (6.35 mm) WeatherShield Flashing Tape may be used. One must consult drawing per manufacturer's recommendations, typically 1/8" (3.18 mm) maximum.

Notes - Thoroughly stir Rollersshield into a homogeneous consistency. Do not add water, over mix, or add accelerators or retarders to Rollersshield.

Application - Rollersshield is applied by first trowel the joints and better locations, then rolling the entire surface using brush, roller or squeegee using equipment instructions. Allow apply a heat cable, a maximum of 120 degrees is recommended. Apply Rollersshield in an even, continuous, thin, consistent coat of approximately 1/16" thickness. Rollersshield must be applied as a continuous barrier of 1/16" (1.59 mm) thickness with no breaks or skips, although some areas may require lighter than others due to application process. The Rollersshield application must be left for a period of 24 hours.

Joint Treatment - Place and center Rollersshield flash over all joints, corners and gaps in the substrate. Immediately sand Rollersshield into the working joints and spot between using a joint brush and allow to dry. Rollersshield may be trowel into walls, slabs and other openings using the same technique. No opening gaps should be filled with Master Wall Trowelshield or Trowelshield and then seal in with the joint treatment.

Wall Treatment - Apply Rollersshield to the wall surface using the foam roller or by spray applying and backrolling to a uniform thickness of 1/16" (1.59 mm) with no breaks or skips.

Check-Up - Tools and equipment can be cleaned with soapy water when Rollersshield is used.

Limitations - Not for use as an exterior flash.

Statistics
 Coverage (28-30 mil thickness) by Rollersshield:
 Net Wt. 110.000 (3.936 kg)
 Net Weight 30.000 (1.059 kg)

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Trowelshield
Trowelshield is a high quality, flexible Air/Water Barrier
trowel grade version of Rollersshield that helps protect approved substrates from incidental water penetration. Trowelshield is easily applied with a trowel to fill larger gaps in approved substrates and is available in five-gallon (19L) pails.

Application Procedure

Job Conditions - An and substrate temperature for application of Trowelshield must be 40°F (5°C) or higher and not exceed 100°F (38°C) higher for a maximum of 24 hours.

Temperature Precautions - Must be provided at all times until the Trowelshield has dried.

Surface Preparation - Surface must be clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds. Oil (grease) is not acceptable. Cracks must be filled and free of fill or other impurities greater than 1/8" in 12" (3.18 mm x 305 mm).

Contents - Must have used a minimum of 28 days prior to the application of Trowelshield. It must release agents or curing compounds used on the surface, they must be removed with a suitable product (see appropriate procedure). Remove any residual seal by brushing with water.

Mixing - If joints are not trowel flush, multiple coats may be required. Contact Master Wall for more information.

Shifting/Architect - Shifting gaps must be less than 1/4" (6.35 mm). For gaps larger than 1/4" (6.35 mm) WeatherShield Flashing Tape may be used. One must consult drawing per manufacturer's recommendations, typically 1/8" (3.18 mm) maximum.

Notes - Thoroughly stir Trowelshield into a homogeneous consistency. Do not add water, over mix, or add accelerators or retarders to Trowelshield.

Application - Trowelshield is typically applied to the working joints as part of a Rollersshield application, but may be used as a weather-resistive membrane when applied a minimum of 1/8" (3.18 mm) thick. Apply Trowelshield using a minimum trowel stroke for maximum protection. Trowelshield/Trowelshield must be applied as a continuous barrier with no breaks or skips or as part of a Rollersshield water treatment barrier installation.

Joint Treatment - Place and center Trowelshield flash over all joints, corners and gaps in the substrate. Immediately sand Trowelshield into the working joints and spot between using a trowel or joint brush and allow to dry. Any remaining gaps should be filled with Master Wall Trowelshield.

Wall Treatment - Apply Trowelshield to the wall surface using a trowel to a minimum nominal thickness of 1/8" (3.18 mm).

Check-Up - Tools and equipment can be cleaned with soapy water when Trowelshield is used.

Limitations - Not for use as an exterior flash.

Statistics
 Coverage (28-30 mil thickness) by Trowelshield:
 Net Wt. 110.000 (3.936 kg)
 Net Weight 30.000 (1.059 kg)

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Rollershield Application

- Products and tools needed:
 - Rollershield
 - Possibly Trowelshield
 - Rollershield Mesh
 - $\frac{3}{4}$ " (19 mm) nap foam roller, brush and trowel

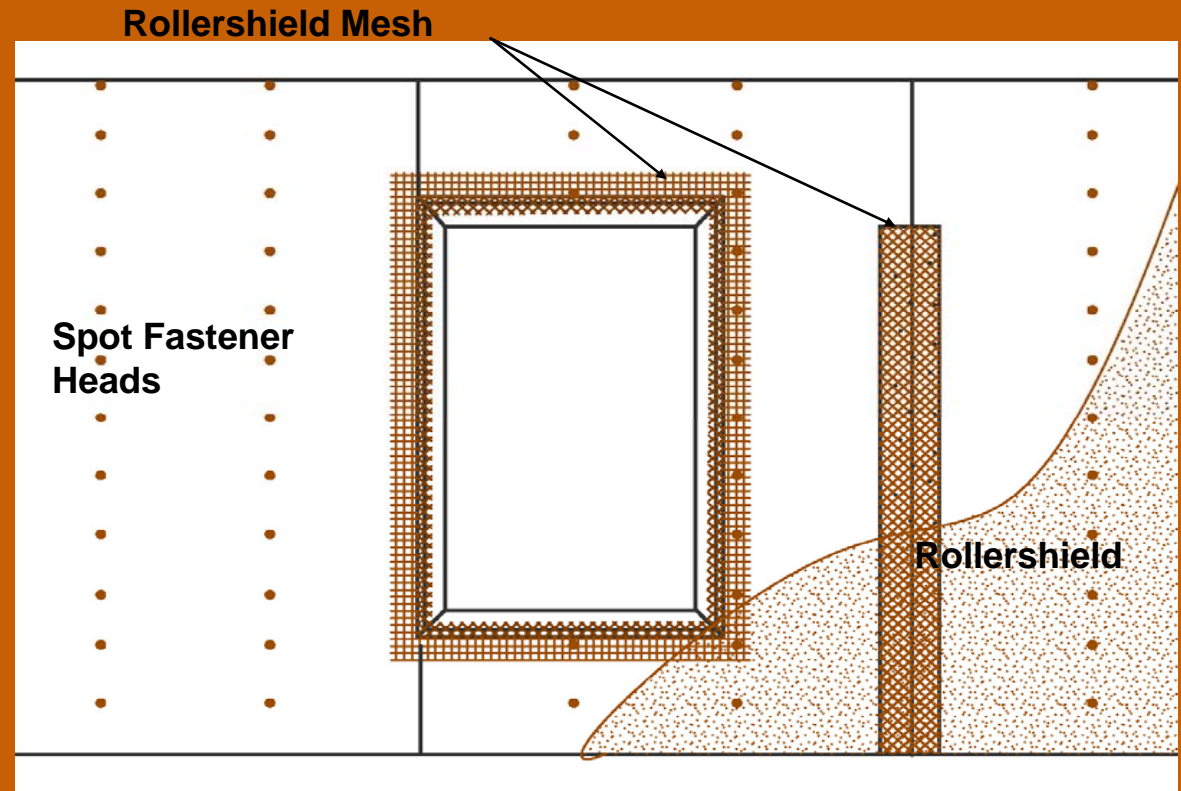


- Mix Rollershield thoroughly to a homogenous consistency – do not add water
- Apply Rollershield Mesh reinforcement to all sheathing board joints, corners, any gaps or exposed edges
- Install a stucco weep screed, drainage track accessory or other flashing at grade and cover the transition from accessory to sheathing with Rollershield Mesh
- Center Rollershield Mesh over the joints and immediately embed Rollershield into the reinforcing mesh
- Spot fasteners with Rollershield and allow to dry



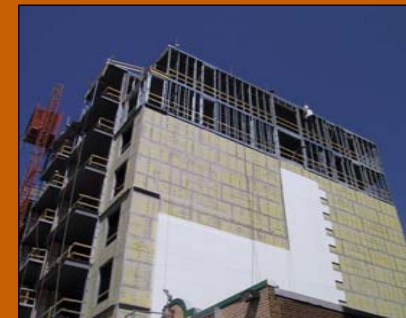
Flashing with Rollershield

- Treat Rollershield as a liquid water barrier
- Review all penetrations
 - The completed Rollershield application should be completely watertight
- Windows are typically flashed with Rollershield Mesh and Rollershield
- Flash other penetrations using Rollershield Mesh and Rollershield
- Use Rollershield Mesh at any joints, transitions or breaks in the substrate
- Spot fasteners with Rollershield



Rollershield Application

- Apply Rollershield by brush, roller or airless spray equipment – $\frac{3}{4}$ " (19 mm) foam roller
- Apply in an even, continuous coat maintaining a wet edge
- Fill any larger gaps with Trowelshield
- Allow to dry completely before proceeding with installation
- Oriented Strand Board and other porous substrates require two (2) coats of *Rollershield*.
- For moisture protection, *Rollershield* must be applied as a continuous barrier of 10 mils dry thickness with no breaks or skips.
- Some areas will appear lighter than others due to the application process. The *Rollershield* application need not look like a painted surface.
- Allow to dry before starting EIFS application




Details


Rollershield Drainage EIFS



Cross Section

- Notches run vertically to drain water

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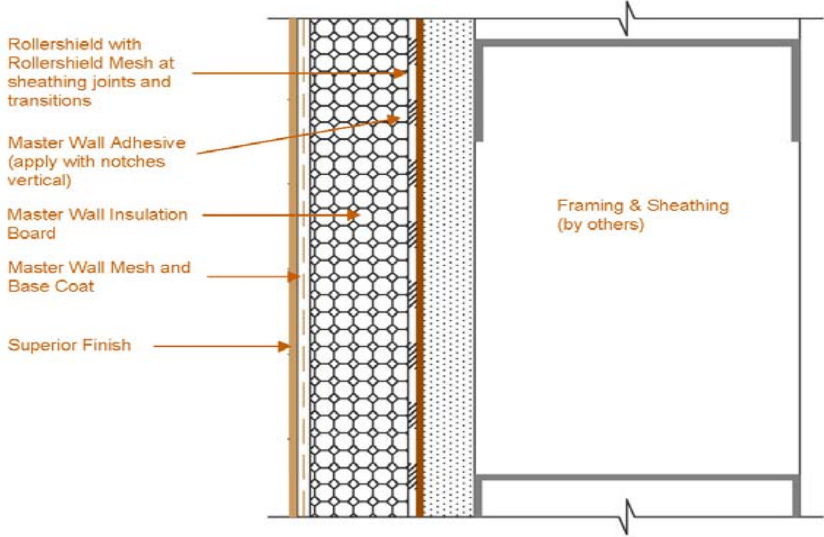


Rollershield Drainage™ EIFS

Conceptual Details

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Rollershield with Rollershield Mesh at sheathing joints and transitions

Master Wall Adhesive (apply with notches vertical)

Master Wall Insulation Board

Master Wall Mesh and Base Coat

Superior Finish


Framing & Sheathing (by others)

AFRS-01 Cross-Section

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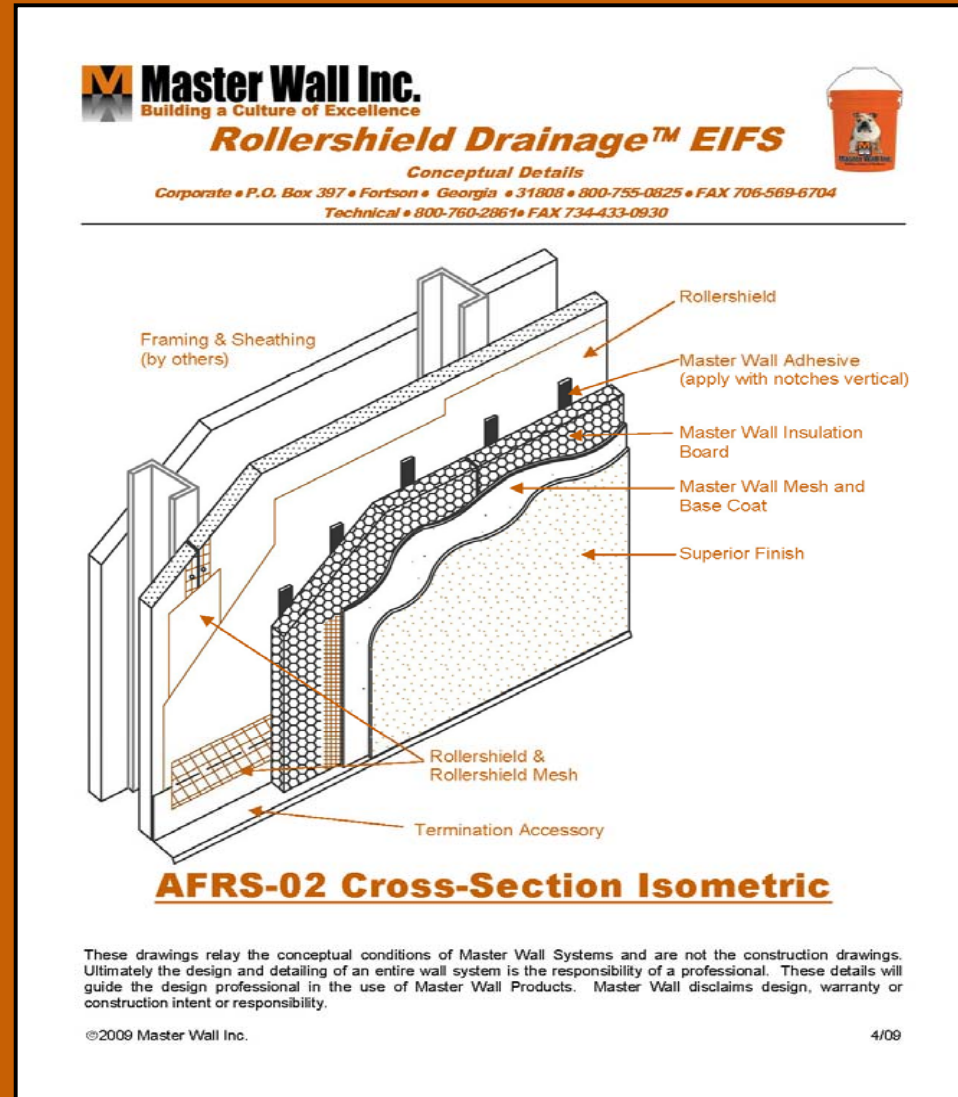
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Isometric

- Note that notched trowel is applied vertically
- Drainage track, weep screed installed at lower edge



Aesthetic Joint

- Keep at least $\frac{3}{4}$ " (19 mm) of insulation under the system at all times
- Many different types of shapes are available



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Rollershield with
Rollershield Mesh at
sheathing joints and
transitions

Master Wall Adhesive
(apply with notches
vertical)

Master Wall Insulation Board –
maintain at least $\frac{3}{4}$ " (19 mm)
minimum under joint

Master Wall Mesh and
Base Coat

Superior Finish

Framing &
Sheathing
(by others)

AFRS-03 Aesthetic Joint

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Aesthetic Projections

- Commonly used as window trim or banding, cornices or other dramatic features
- Slope the top to shed water (1:2 or 6:12 minimum)
- Usually adhered with F&M or MBB
- Foam shapes over 6" deep should be temporarily fastened until adhesive cures (if large shapes are approved by local code body)



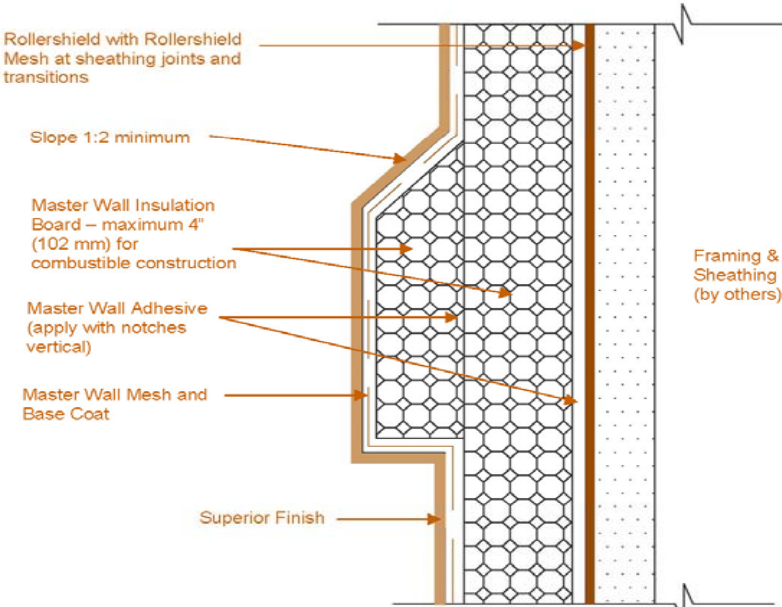
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Rollershield with Rollershield Mesh at sheathing joints and transitions

Slope 1:2 minimum

Master Wall Insulation Board – maximum 4" (102 mm) for combustible construction

Master Wall Adhesive (apply with notches vertical)

Master Wall Mesh and Base Coat


Superior Finish

Framing & Sheathing (by others)

AFRS-04 Aesthetic Projection

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Mesh Application

- Lay out your insulation so it doesn't line up with window or door corners
- Reinforce corners with corner "butterfly" mesh



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Master Wall Insulation Board

Do not line up insulation board joints with openings

Wrap Master Wall base coat and mesh at openings or use approved accessories at all exposed insulation board edges

9" (228mm)

12" (305mm)

Diagonal Mesh at all corners

Notes:

- Typical detailing for windows, doors and other openings
- Designer to size sealant joint for anticipated movement, minimum 1/2" (19 mm) sealant joint by sealant contractor
- Flashing may be required by others

AFRS-05 Typical Reinforcing Mesh Application

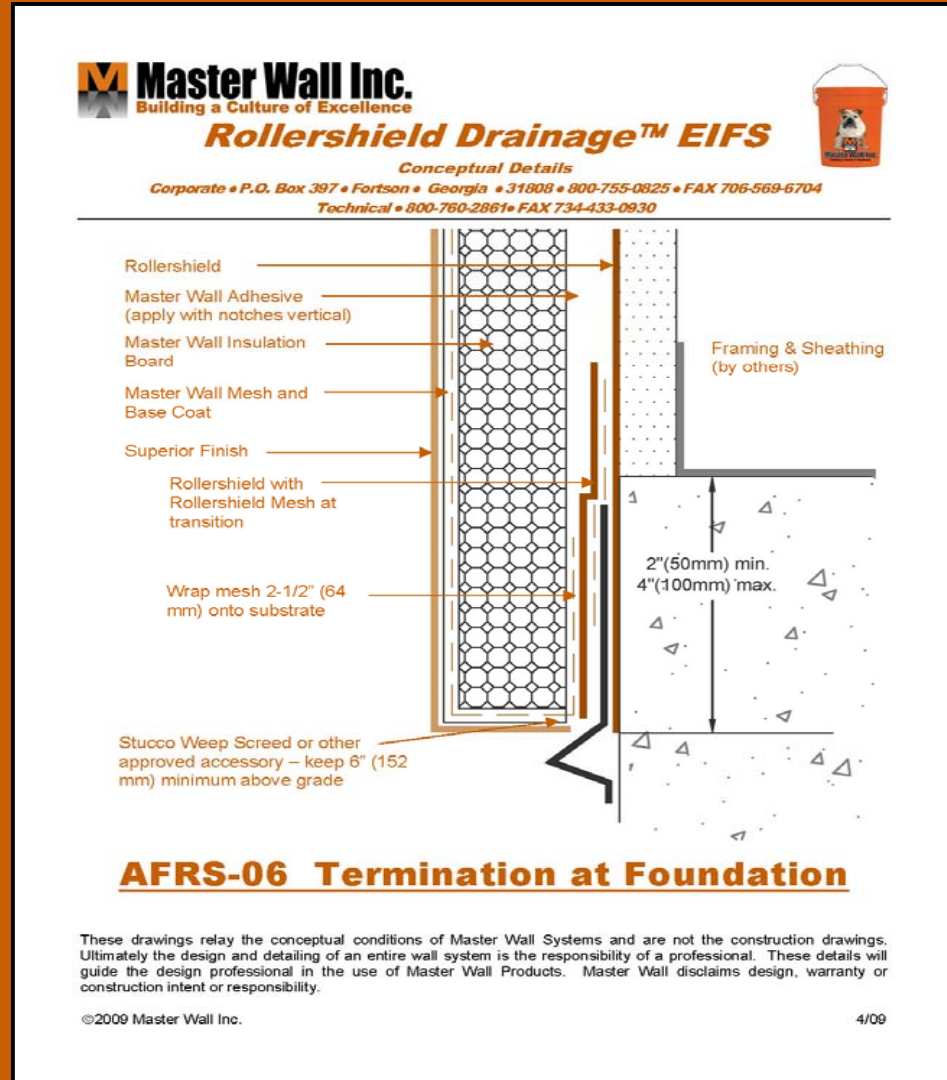
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Foundation Detail

- Accessory trim piece is used at foundation
- Insulation board is backwrapped 2-1/2" (64 mm) minimum
- Keep insulation at least 6" (152 mm) above grade



Window Head Detail

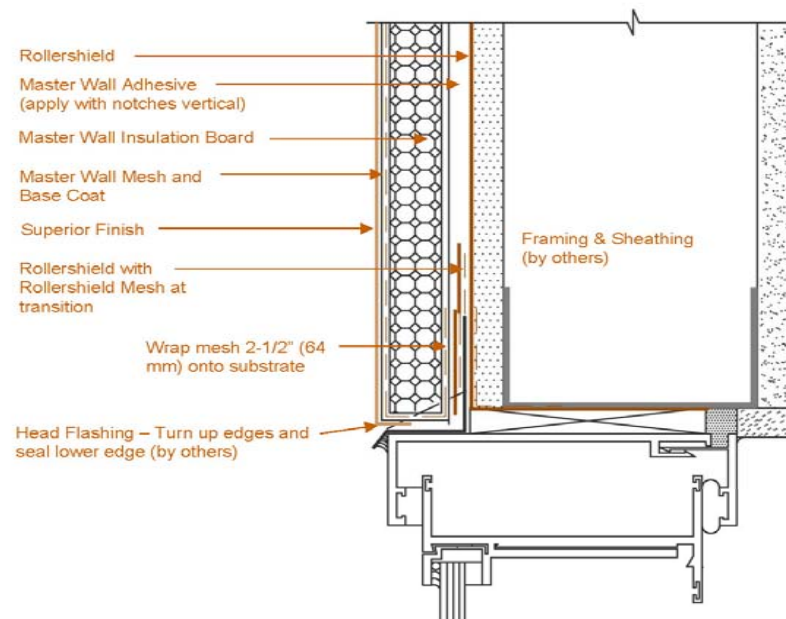
- Backwrapping is typically used
- A drainage-type casing bead accessory can also be used
- Window head flashing is used according to window manufacturers instructions
- Window is inspected by window trades and sealed by sealant trades as needed
- Leave a small opening/drainage area for incidental water



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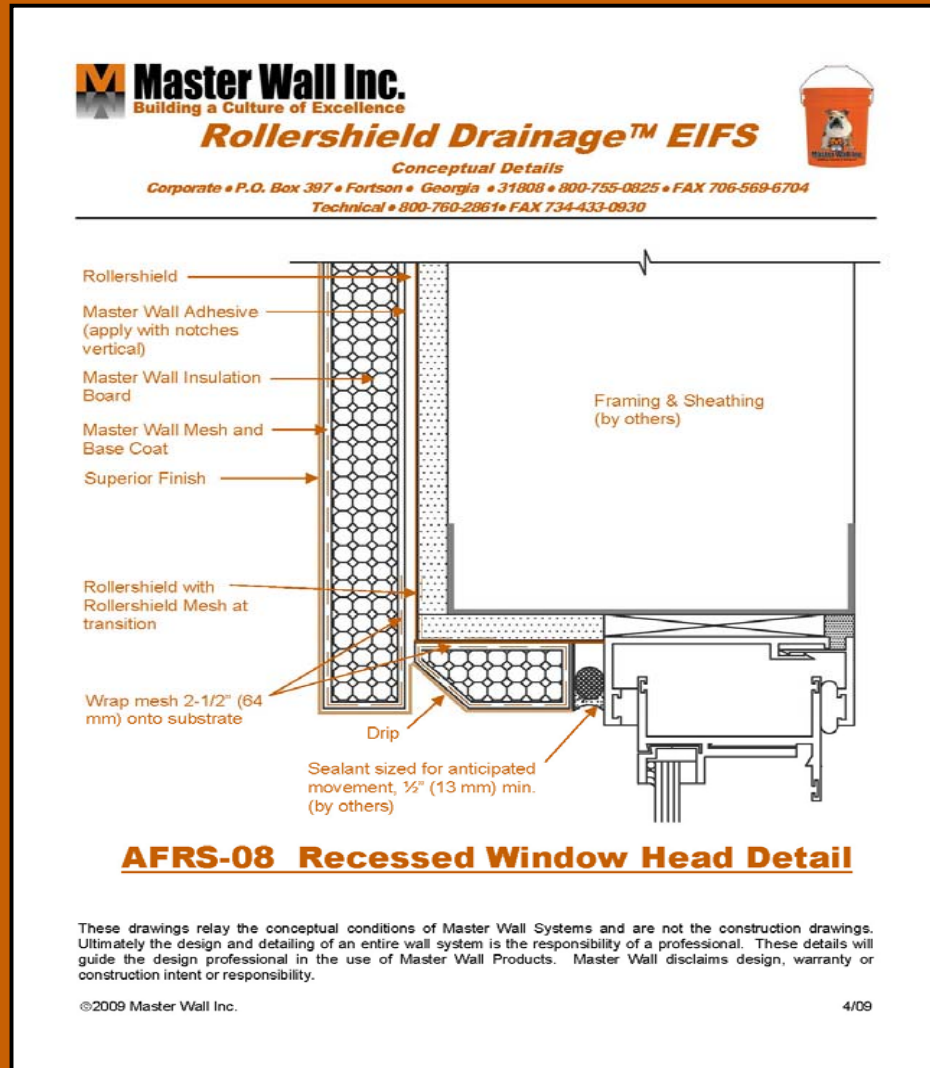
AFRS-07 Typical Window Head Detail

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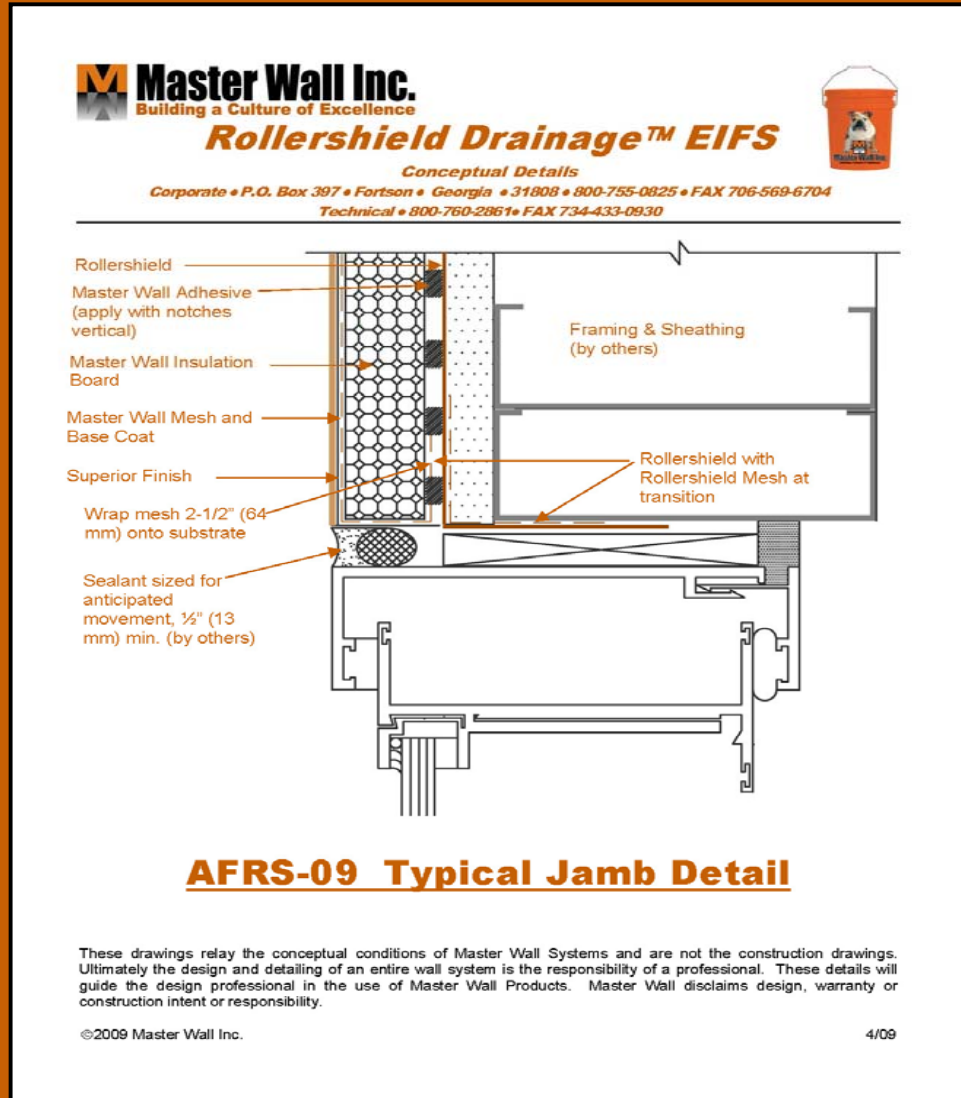
Recessed Window Head

- Backwrapping is necessary to provide for drainage
- The design has a drip detail built in
- Leave a ½" (13 mm) minimum expansion joint area for sealants



Window Jamb Detail

- Backwrapping or casing bead is used
- Leave a ½" (13 mm) minimum expansion joint area for sealants



Recessed Window Jamb Detail

- Backwrapping or casing bead is used
- Leave a ½” (13 mm) minimum expansion joint area for sealants

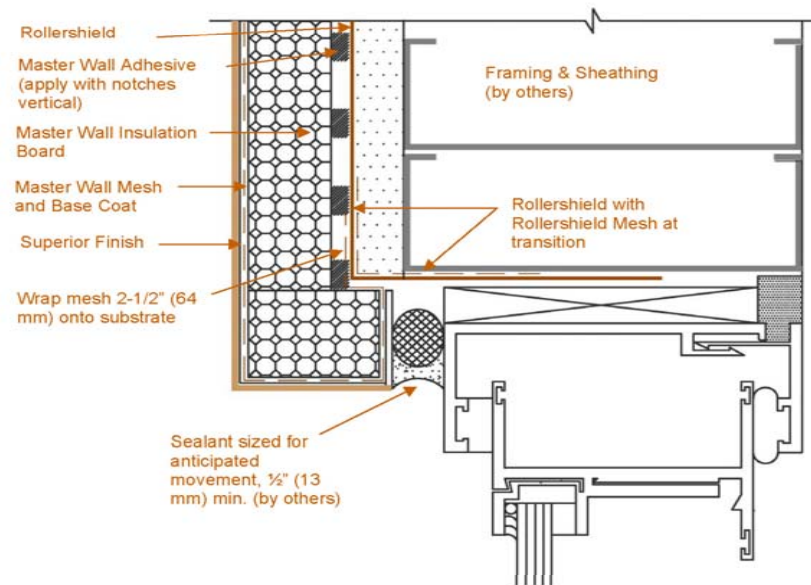
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AFRS-10 Typical Jamb Detail

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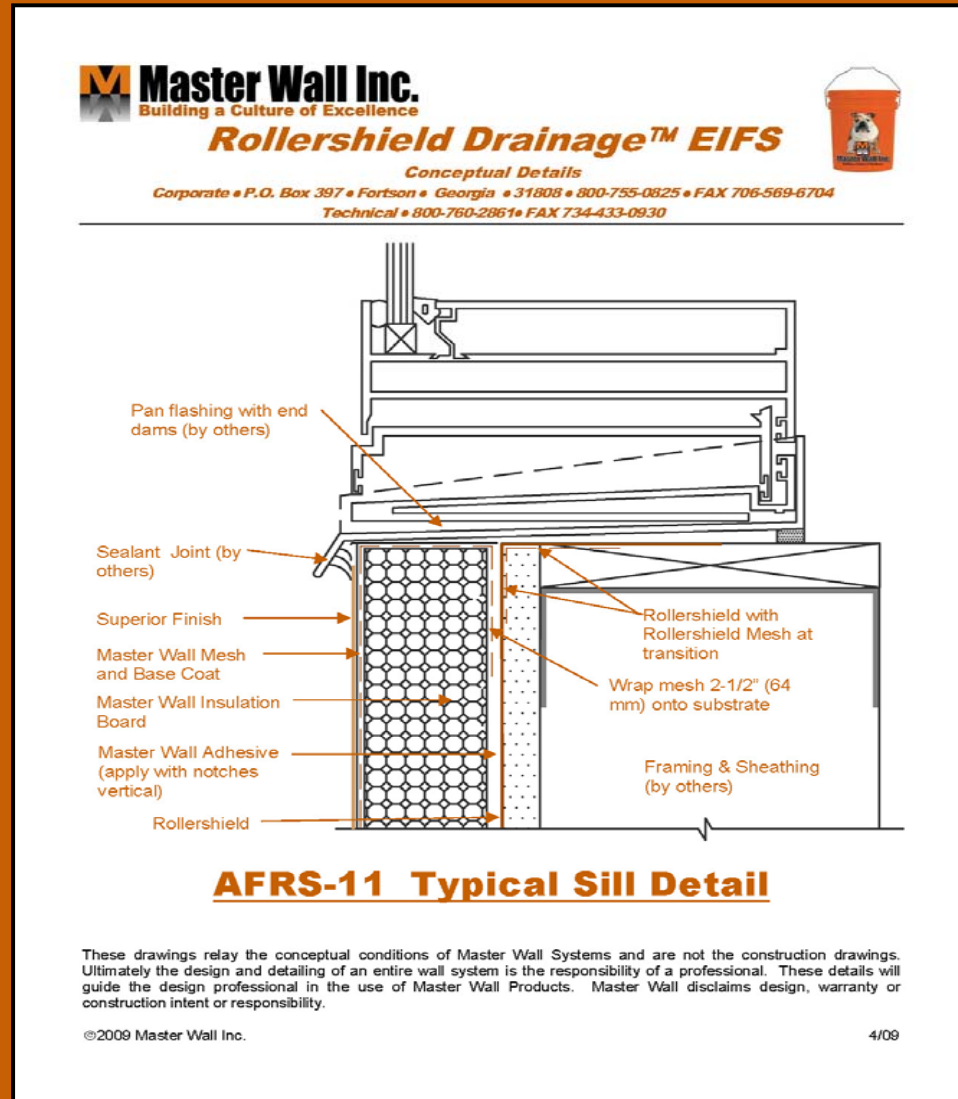
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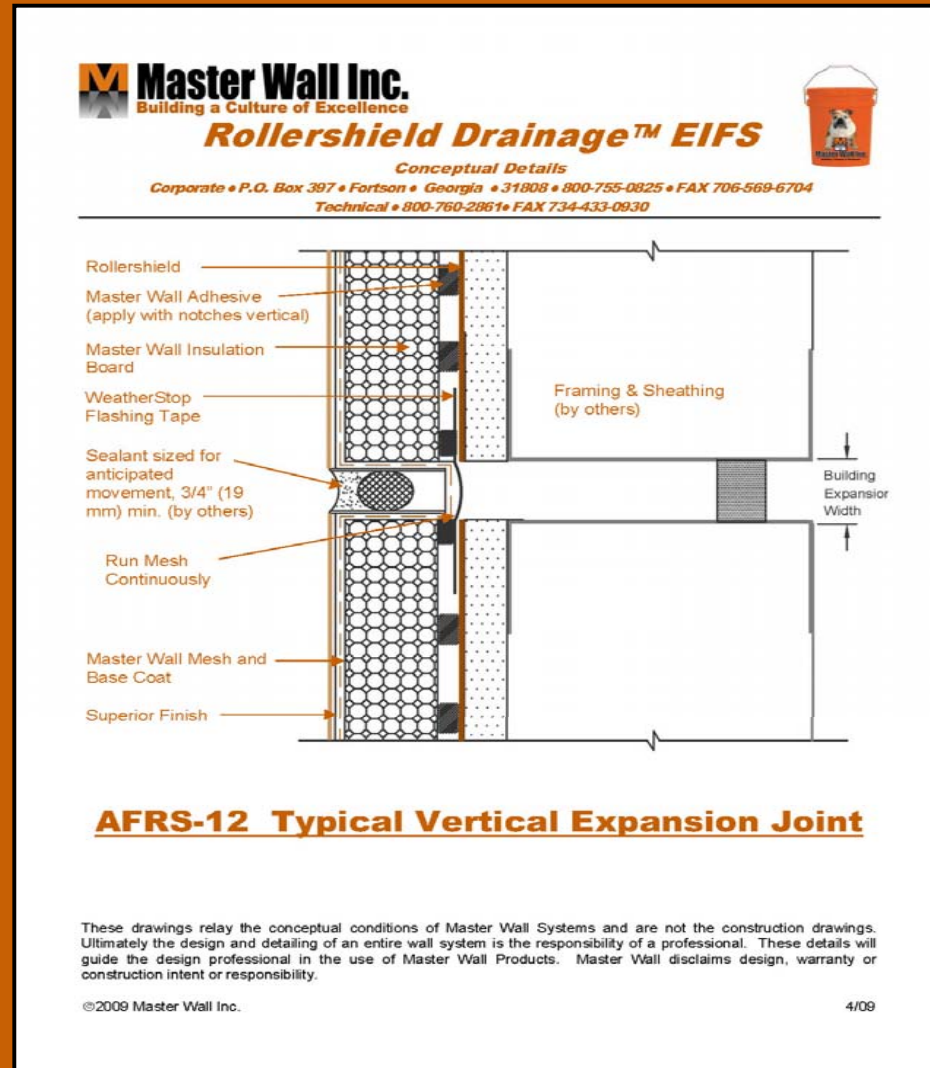
Window Sill Detail

- Backwrapping or casing bead is used
- Window is flashed
- Sealant is used between the pan flashing and EIFS
- For thicker insulation bevel sill 1:2 minimum



Vertical Expansion Joint

- Apply WeatherStop Flashing Tape over Rollershield
- Run base coat and mesh into the joint for a continuous water barrier
- Sealant trades apply interior and exterior sealants



Horizontal Expansion Joint

- Apply WeatherStop Flashing Tape over Rollershield
- Backwrap each side 2-1/2" (64 mm) minimum
- Sealant trades seal moving joint
- Alternatively flashing could be used at is location to direct water outward

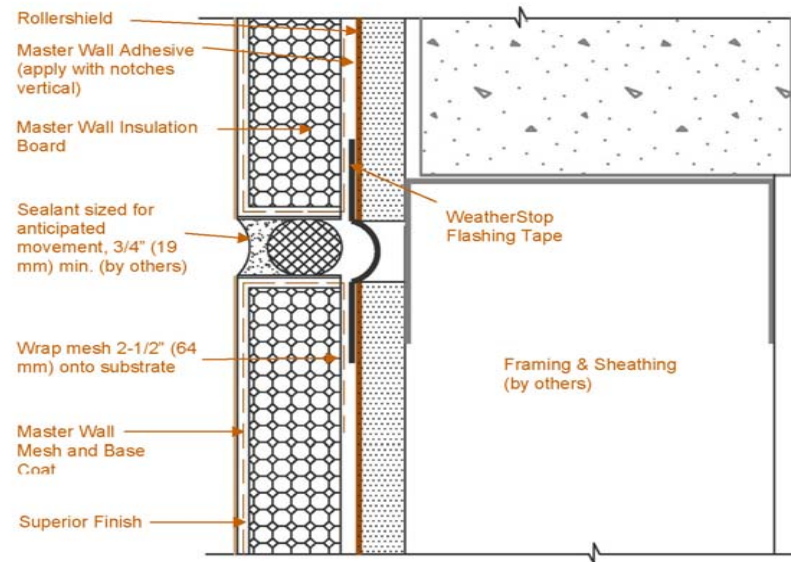
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AFRS-13 Typical Horizontal Expansion Joint

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Dissimilar Substrates

- Apply WeatherStop Flashing Tape over Rollershield
- Backwrap each side 2-1/2" (64 mm) minimum
- Sealant trades seal moving joint

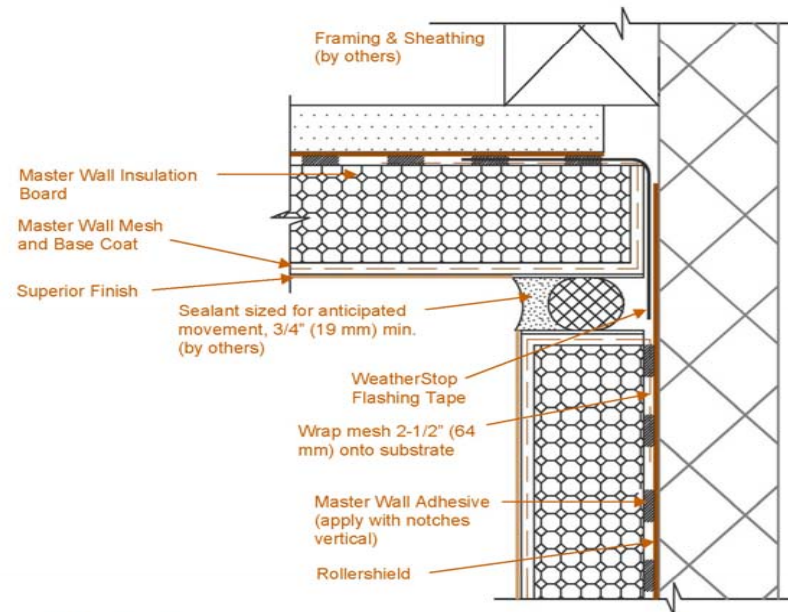
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AFRS-14 Corner Expansion Joint/Substrate Change

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Dissimilar Materials

- Either run base coat & mesh onto approved substrate or backwrap
- Sealant trades seal moving joint

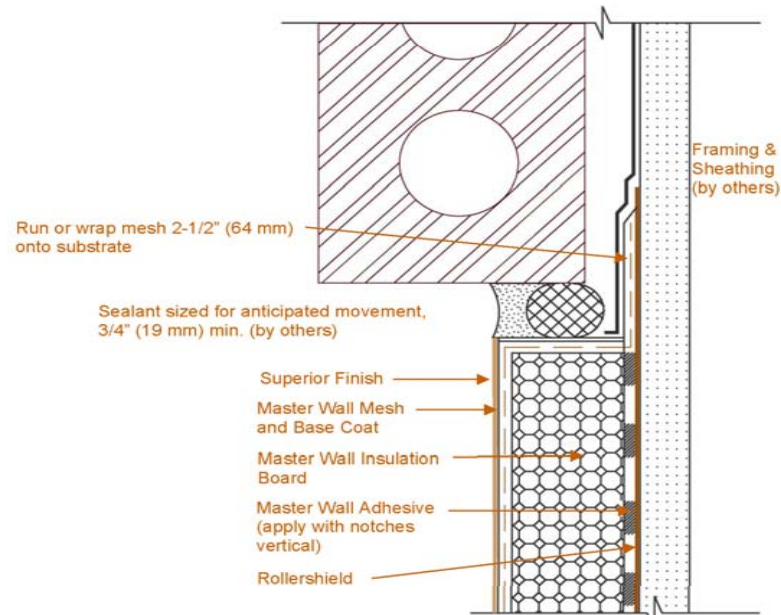
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AFRS-15 Dissimilar Materials

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Plumbing Penetration

- Use Rollershield and Rollershield Mesh to seal the penetration
- Backwrap each side 2-1/2" (64 mm) minimum
- Sealant trades seal moving joint

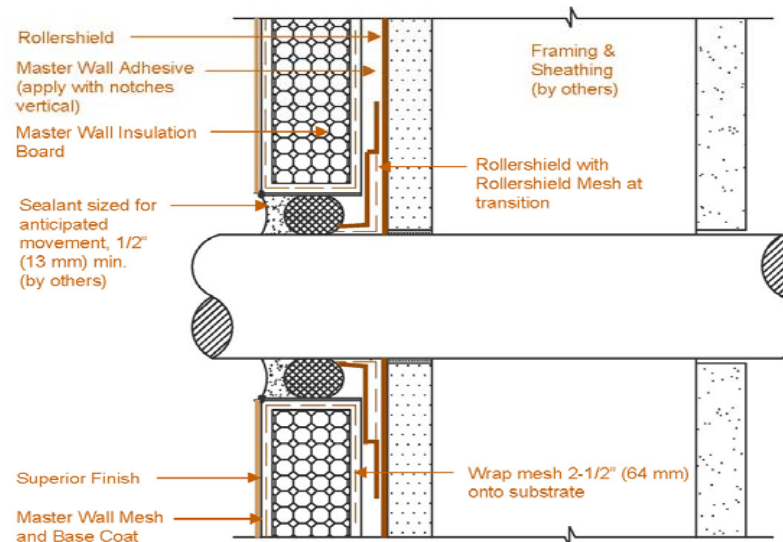


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AFRS-16 Pipe Penetration Detail

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Structural Fastener

- For signage or other elements
- Use structural sleeve set in sealant
- Space signage out from EIFS for ventilation

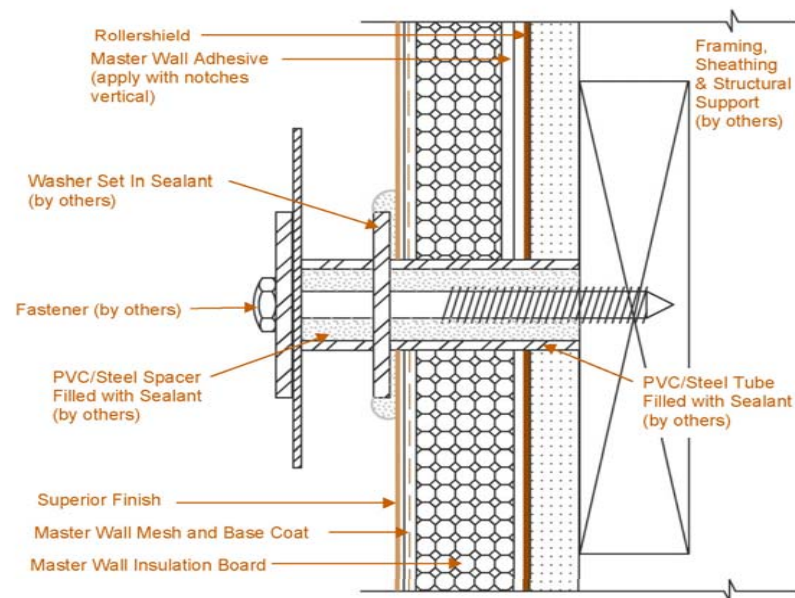
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AFRS-17 Structural Fastener Detail

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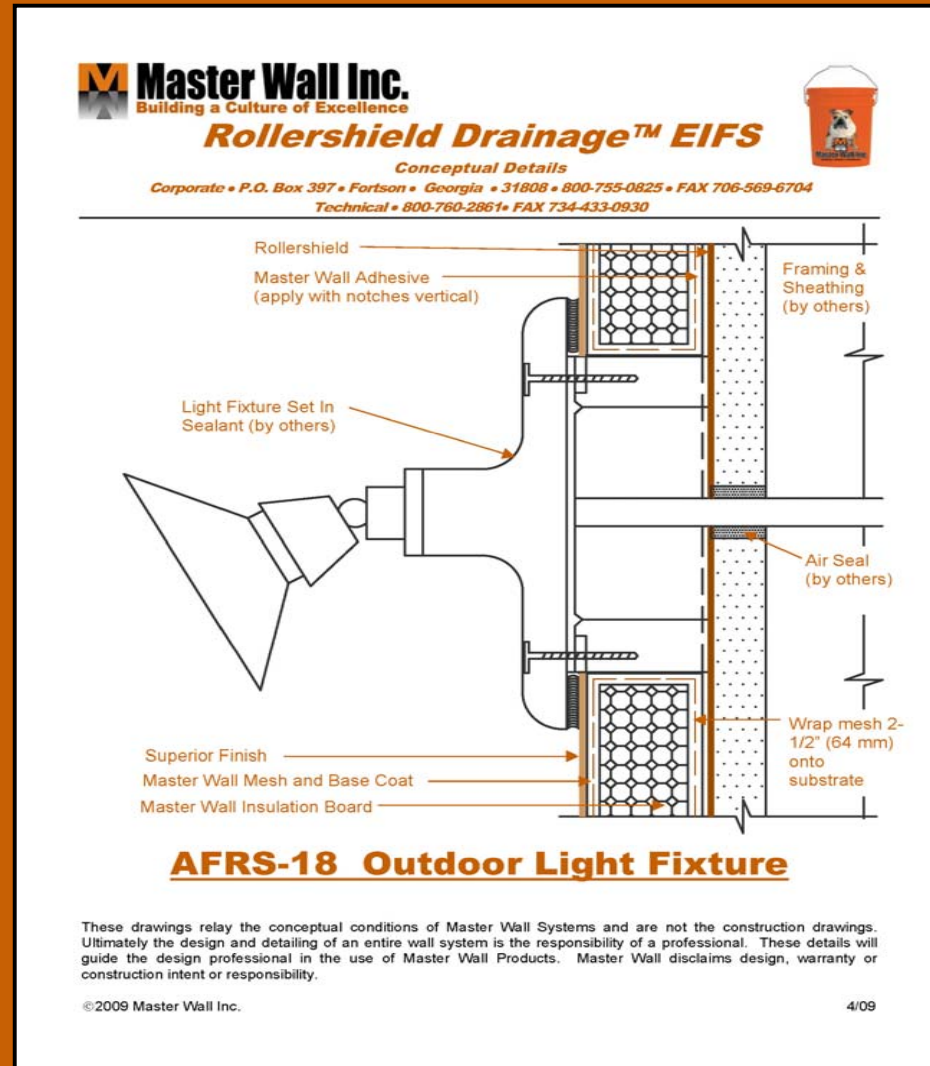
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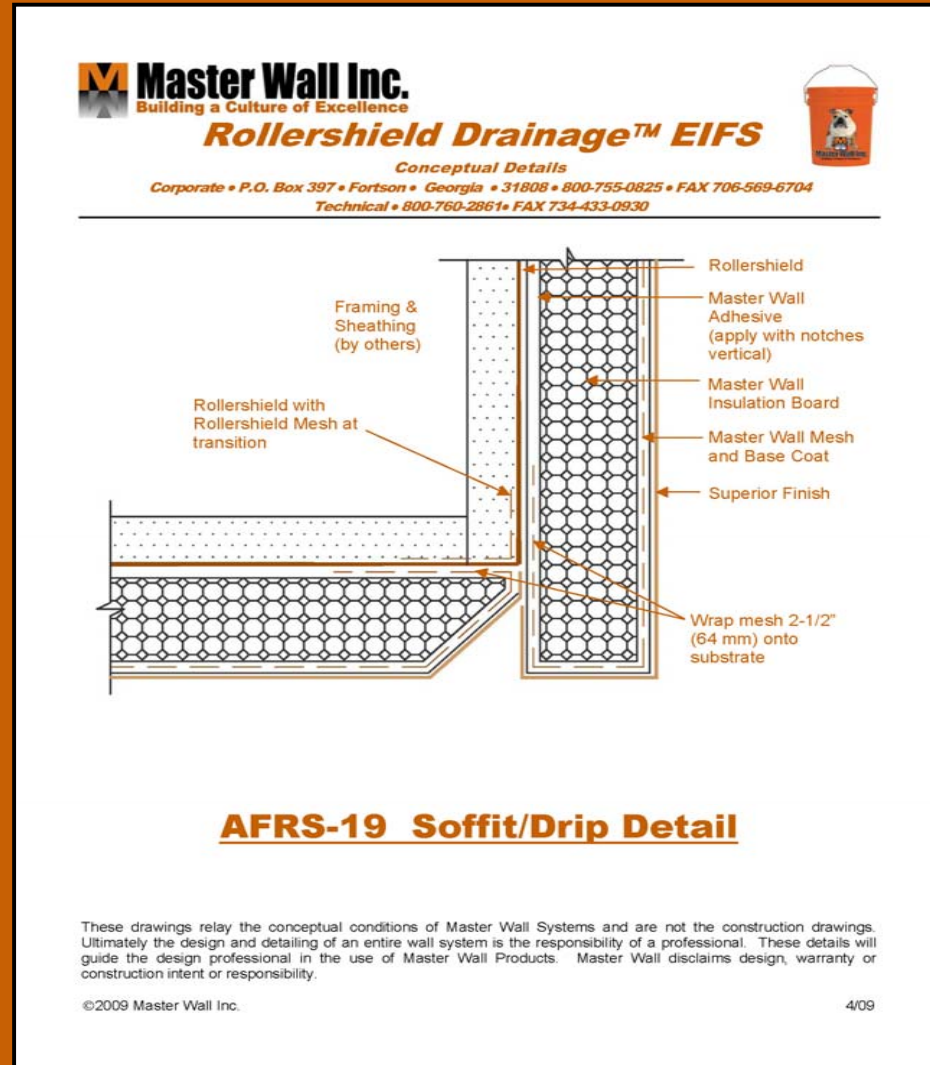
Light Fixture

- Run Rollershield continuously under electrical box if possible
- Backwrap mesh 2-1/2" (64 mm) minimum around penetration
- Electrical contractor to seal fixture per NEC requirements



Soffit/Drip

- The system is broken into two pieces forming both the drip and the drainage capacity
- Backwrap each side 2-1/2" minimum



Roof/Wall Intersection

- Backwrapping and a stucco weep screed/drainage track or other accessory is necessary for roof intersections
- Confirm the flashing and building felt extends at least 4" (102 mm) up the wall according to NRCA requirements
- Keep the system about 1" to 2" (25-51 mm) above the roof
- Install kick out flashing at the end (either roofing or EIFS trade)
- Sealant contractor finishes the job

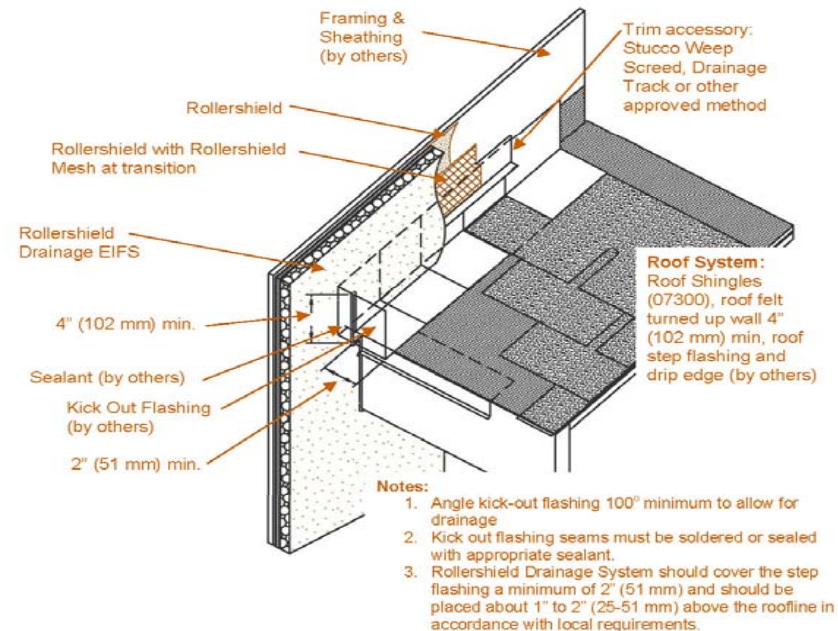
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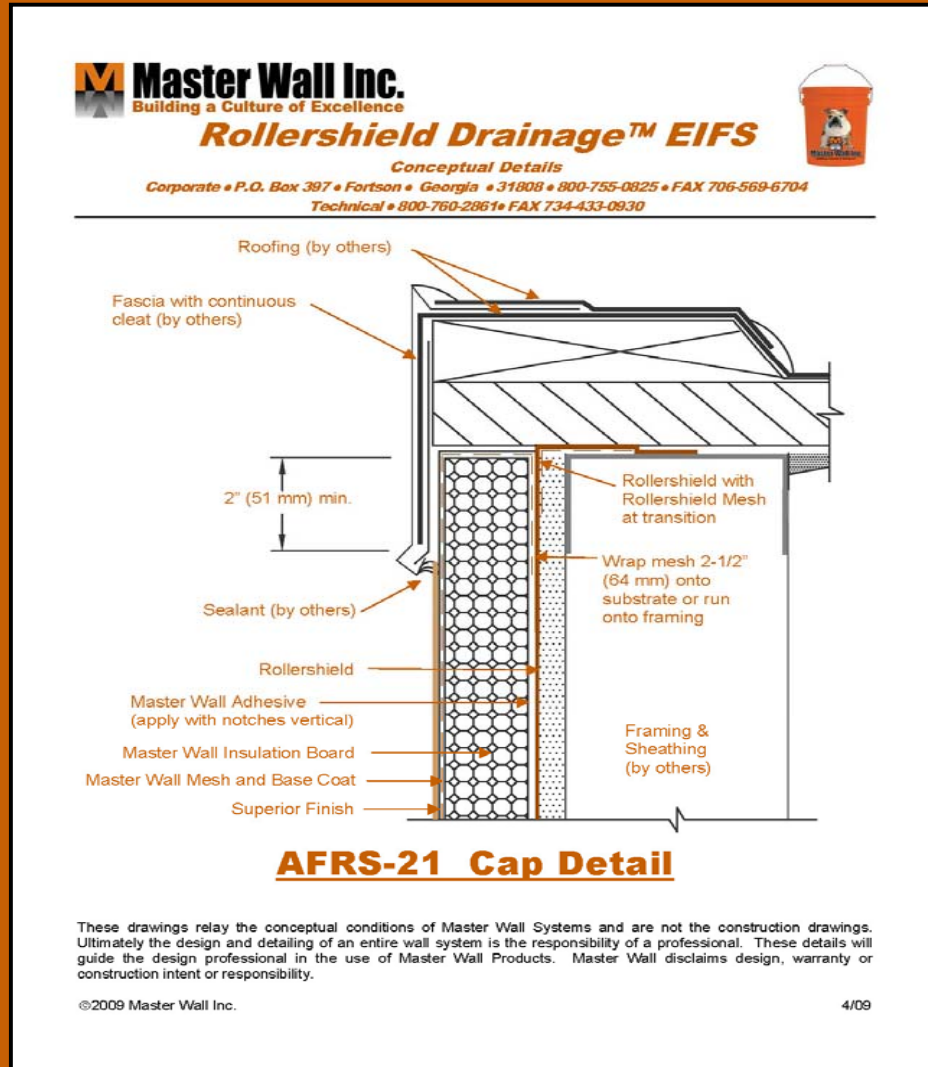
AFRS-20 Typical Roof/Wall Intersection

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Roof Edge Cap Detail

- Backwrap or run base coat and mesh continuously onto the framing 2-1/2" (64 mm) minimum
- Sheet metal contractor installs necessary nailers, secondary water protection and sheet metal
- Sealant contractor seals the cap
- Caps and final installation work should be completed quickly



Coping Cap Detail

- Backwrap or run base coat and mesh continuously onto the framing 2-1/2" (64 mm) minimum
- Sheet metal contractor installs necessary nailers, secondary water protection and sheet metal
- Sealant contractor seals the cap

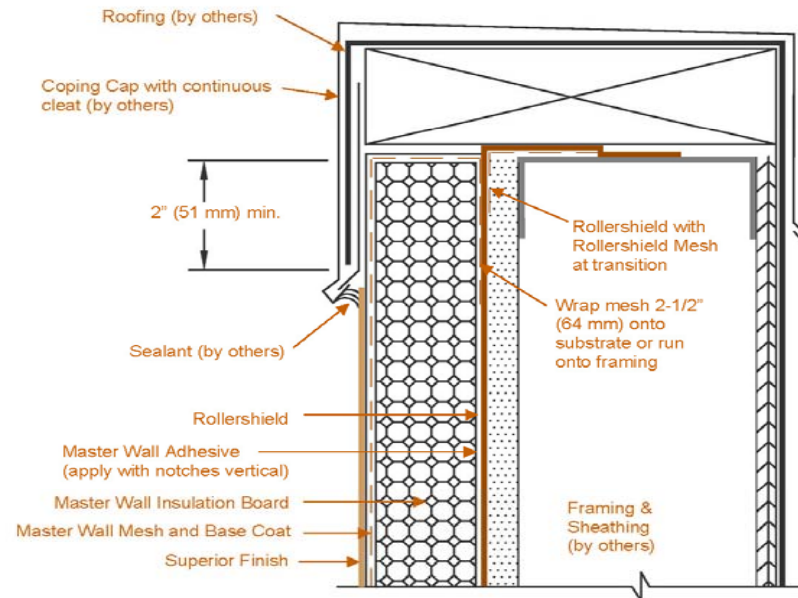
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AFRS-22 Cap Detail

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Roof Transition with EIFS Cap

- Backwrapping is necessary
- Keep system about 8" (204 mm) above the roof
- Sealant contractor seals to the sheet metal flashing

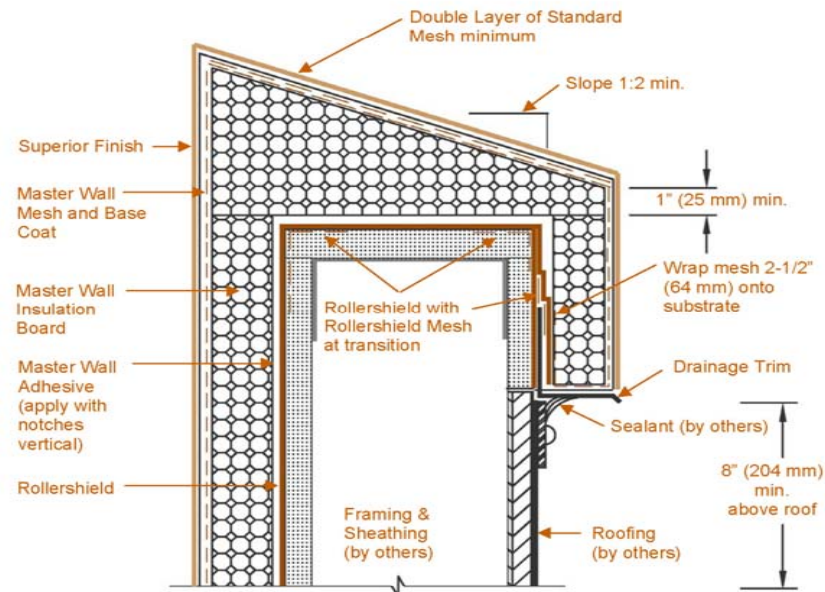
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AFRS-24 Parapet Cap Detail – Max. 12" Wide

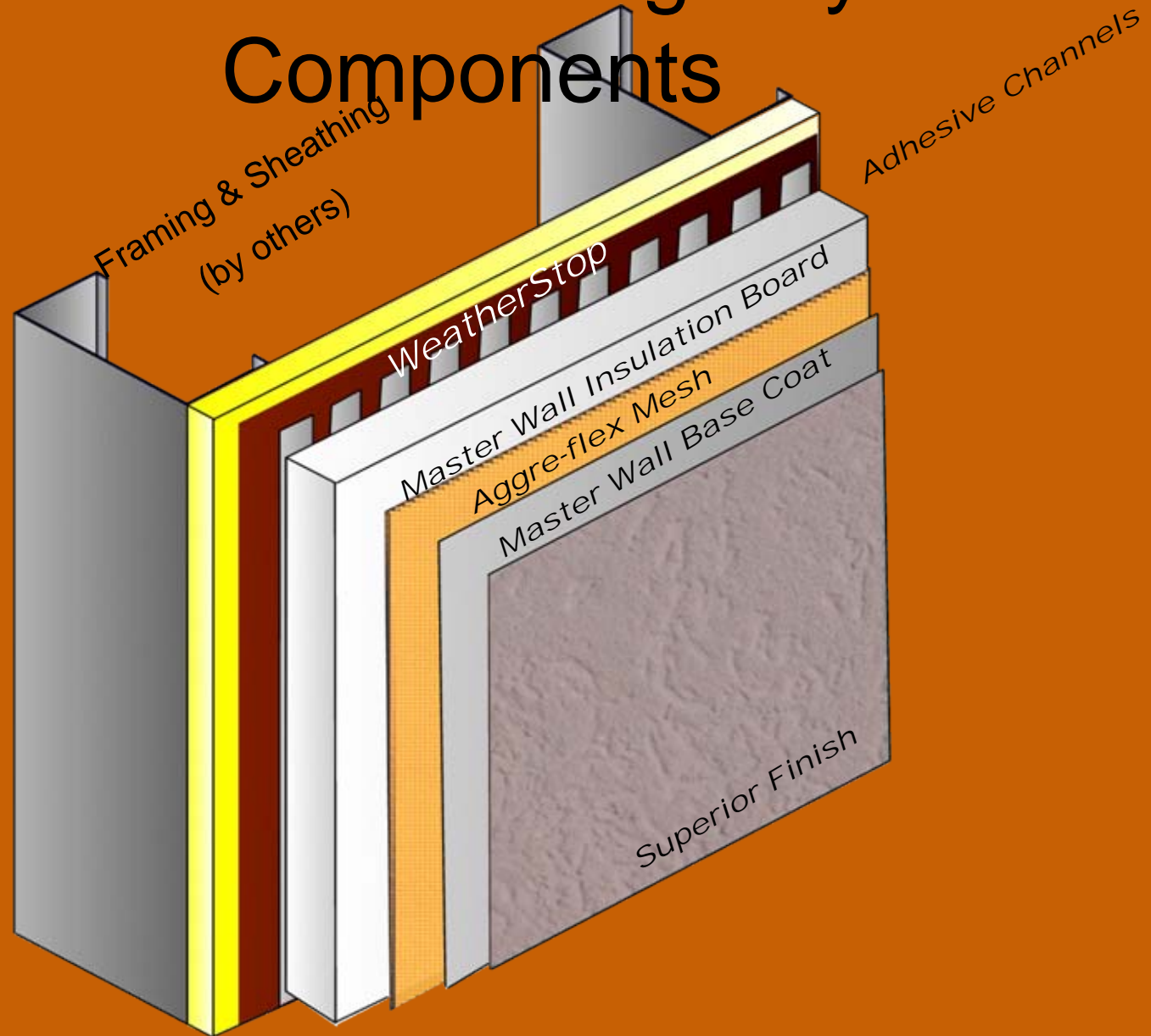
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Commercial Drainage System Components



Basic WeatherStop Product Line

- WeatherStop
 - A trowel-applied water barrier mixed 1:1 with Type I Portland cement.
- Self Adhesive Mesh
 - A 4” (102mm) wide tape for use at all sheathing board joints and transitions
- WeatherStop Tapes
 - Peel and stick flexible flashing

WeatherStop
Air & Water Barrier
 Trowel Applied

WeatherStop is a flexible, fibred 100% pure acrylic trowel applied air and water barrier for use with Master Wall Systems. WeatherStop is available in five-gallon (19L) pails and is mixed with Type I Portland Cement to a creamy consistency.

Approved Substrates
 Exterior gypsum sheathing (ASTM C79)
 Dens Glass Gold®
 GlasRoc®
 FiberBond®
 Gold Bond® xp®
 Durrock®
 PermaBase®
 Concrete
 Brick
 Masonry
 Others approved in writing

WeatherStop Tapes
Peel & Stick Flashing

WeatherStop Tapes are a peel and stick type flashing with self-sealing properties and a polyester scrim facing designed for use with Master Wall Systems. The tapes feature low initial grab for repositioning that gradually increases over time.

Track Sizes
 WeatherStop Tapes are available in the following size rolls:
 4'x100' (10.2m x 30.5m)
 8'x100' (15.2m x 30.5m)
 12'x100' (30.5m x 30.5m)

Weights & Packaging
 WeatherStop Flashing Tapes are packaged in cases weighing 80 lbs (37.2kg):
 4' x 100.2m (Wide)
 12 rolls/case
 18 cases/pallet
 6' x 150.2m (Wide)
 12 rolls/case
 18 cases/pallet
 8' x 150.2m (Wide)
 9 rolls/case
 18 cases/pallet

Application Procedure
 General—The substrate must be clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds. Heated surfaces are not acceptable and the heat must be removed.
 Job Conditions—Air and substrate temperature for application of WeatherStop Tapes must be 40°F (5°C) or higher.
 Temporary Protection—Do not expose to direct sunlight for more than six weeks after installation.
 Surface Preparation—Surface temperature must be above 40°F (5°C). Surface must be noted, clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents, and curing compounds.

Approved Substrates—Include Exterior gypsum sheathing (ASTM C79), Dens Glass Gold®, GlasRoc®, FiberBond®, Durrock®, PermaBase®, Concrete, Brick, Masonry, Wood, Exterior Plywood, Oriented Strand Board and Metal. Contact Master Wall for other approved substrates.

Finishing—Prime all surfaces except masonry with Bond Coat and allow to dry to the touch.

Installation—Plan the work from the bottom up in a single-butt joint installation. See the piece of flashing to be used to handle. Start removing about 12 inches (305 mm) of the release paper and clamp over the area being tested. Firmly press WeatherStop Flashing Tapes down, lifting out any bubbles and smoothing it into the surface. Continue pulling of the release paper and smoothing the tape into place.

Limitations
 WeatherStop Flashing Tape is a vapor barrier. The dew point must be engineered if it is used as a continuous exterior barrier.

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Self-Adhesive Mesh

Master Wall Self-Adhesive Mesh is a woven, Standard Mesh treated glass fiber mesh that is specially coated for compatibility with Master Wall products. The self-adhesive properties allow easier application of Master Wall weather-resistive barriers, decorative trim pieces over a fully-reinforced Master Wall System or stucco wall decorations.

Application Procedure
 General—The substrate must be clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds. Heated surfaces are not acceptable and the heat must be removed.
 Job Conditions—Air and substrate temperature for application of the Self-Adhesive Mesh must be 40°F (5°C) or higher and must remain 40°F (5°C) or higher for a minimum of 24 hours.
 Temporary Protection—Must be provided at all times until the wall system, including flashings, caps and weathers is completed to provide protection from climatic conditions and other potential damage.
 Installation—Apply Self-Adhesive Mesh according to Master Wall Specifications. In general, Self-Adhesive Mesh is oriented on the approved sheathing joints, corners, and joint locations of WeatherStop or other approved Master Wall base coat or weather barrier. Self-Adhesive Mesh is a minimum of 3.12" (80.9 mm).

Mesh Properties
 ASTM C919
 ASTM D978
 ASTM D2036
 80.9 (3.12")

Weights
 Woven Leno
 Weight: 4.5 oz/sy (132 g/sy)

Tensile Strength
 Weight: 1.63 (112) lbs/in

Mesh Packaging
 Medium (EMA 101 88)
 50.80 inches (129.315 ft) L

Rolls & Packaging
 4' x 150' (10.2 m x 45.7 m)
 2 rolls/case, 8 cases/pallet
 6' x 150' (18.2 m x 45.7 m)
 12 rolls/case, 8 cases/pallet
 8' x 150' (24.1 m x 45.7 m)
 12 rolls/case, 8 cases/pallet
 10' x 150' (45.7 m x 45.7 m)
 1 rolls/case, 8 cases/pallet
 30' x 150' (86.5 m x 45.7 m)
 4 rolls/case, 8 cases/pallet

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 030109



WeatherStop Application

- Flash openings in accordance with Master Wall instructions with WeatherStop Tape either before or after WeatherStop application
- Mix WeatherStop according to data sheet instructions and apply to approved substrates such as ASTM C1177 gypsum board or masonry.
- Center and apply Self Adhesive Mesh reinforcement to all sheathing board joints, corners, any gaps or exposed edges, immediately embed entire surface in WeatherStop, allow to dry.
- Mechanically attach a stucco weep screed, drainage track accessory or other flashing at grade and cover the transition from accessory to sheathing. Flash transition with WeatherStop Tape



WeatherStop Application

- Apply WeatherStop with a stainless steel trowel
- Apply in an even, continuous coat maintaining a wet edge
- Allow to dry completely before proceeding with installation
- For moisture protection, *WeatherStop* must be applied as a continuous barrier of 1'16" (1.6 mm) with no breaks or skips.
- Allow to dry before starting EIFS application



Details

Commercial Drainage EIFS



Cross Section

- Notches run vertically to drain water

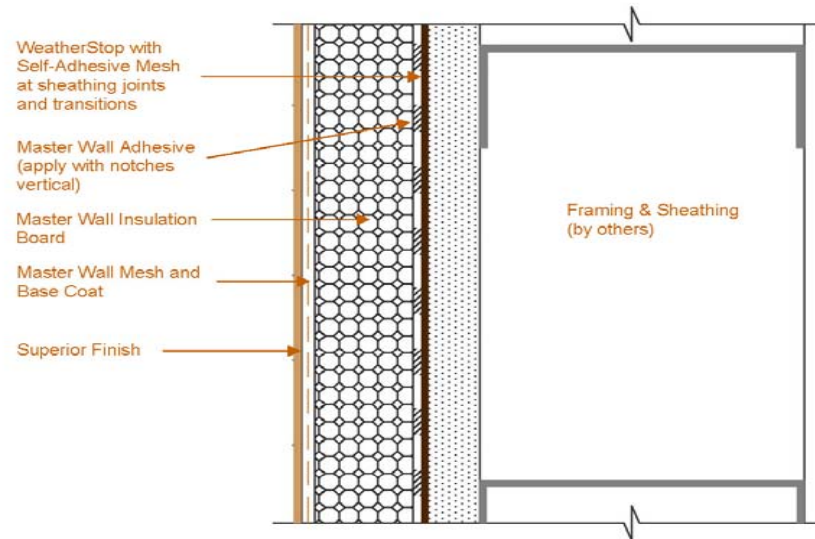


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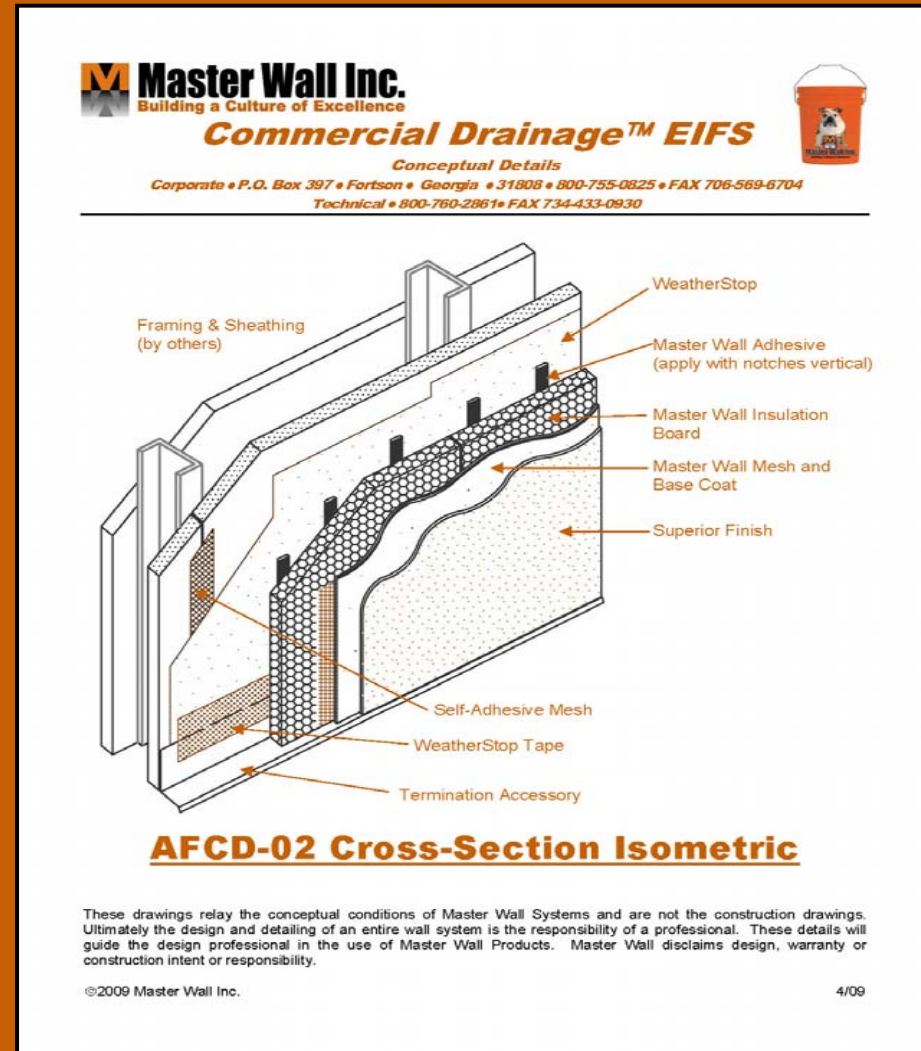
AFCD-01 Cross-Section

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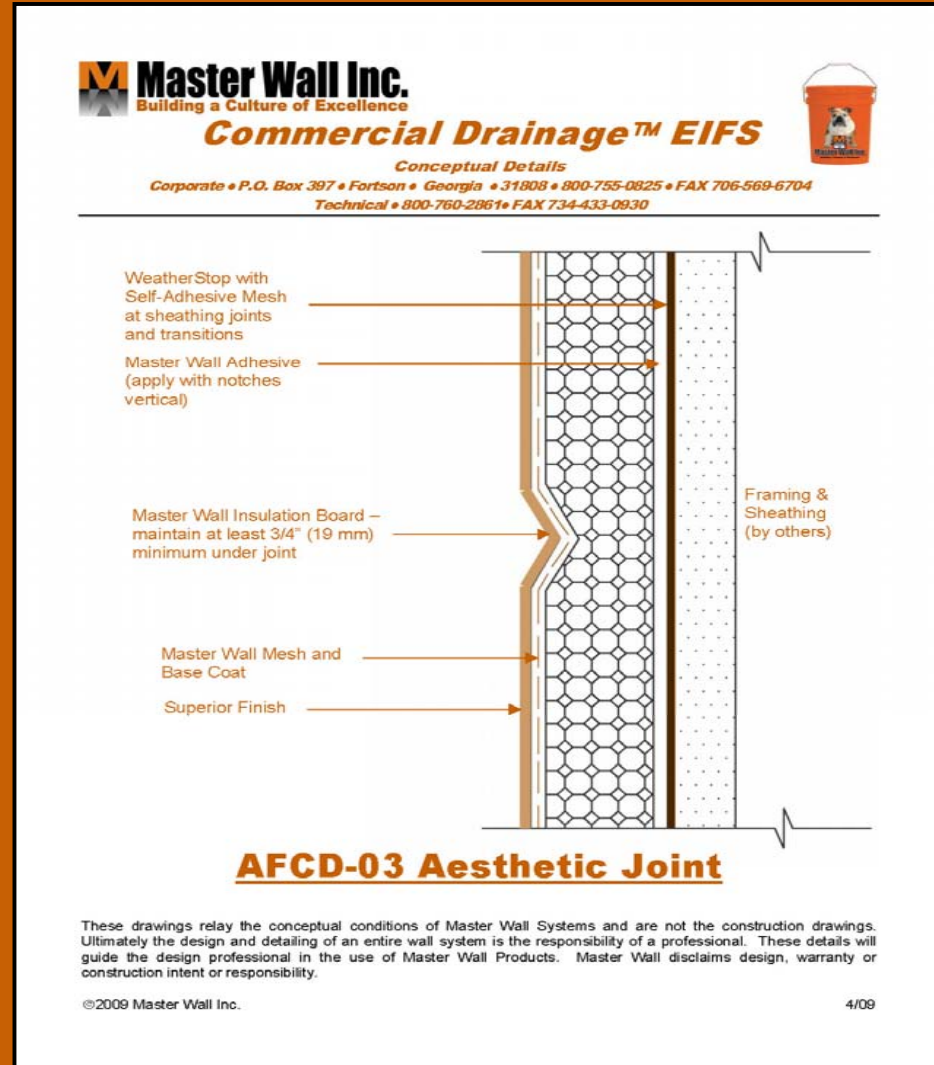
Isometric

- Note that notched trowel is applied vertically
- Self Adhesive Mesh is used at board joints
- Drainage track, weep screed installed at lower edge
- Flash transition with WeatherStop Tape




Aesthetic Joint

- Keep at least $\frac{3}{4}$ " (19 mm) of insulation under the system at all times
- Many different types of shapes are available




Aesthetic Projections

- Commonly used as window trim or banding, cornices or other dramatic features
- Slope the top to shed water (1:2 or 6:12 minimum)
- Usually adhered with F&M or MBB
- Foam shapes over 6" deep should be temporarily fastened until adhesive cures (if large shapes are approved by local code body)

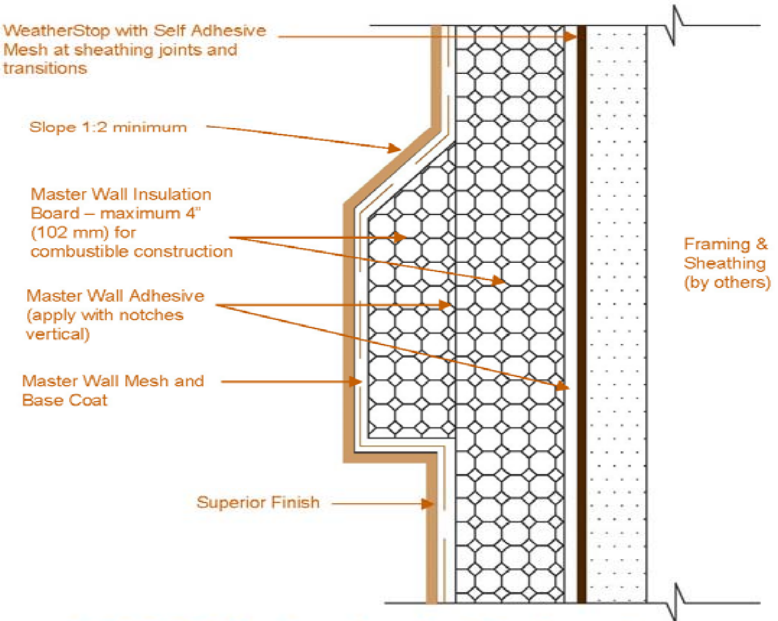


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WeatherStop with Self Adhesive Mesh at sheathing joints and transitions

Slope 1:2 minimum

Master Wall Insulation Board – maximum 4" (102 mm) for combustible construction

Master Wall Adhesive (apply with notches vertical)

Master Wall Mesh and Base Coat

Superior Finish

Framing & Sheathing (by others)

AFCD-04 Aesthetic Projection

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Mesh Application

- Lay out your insulation so it doesn't line up with window or door corners
- Reinforce corners with corner "butterfly" mesh



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Master Wall Insulation Board

Do not line up insulation board joints with openings

Wrap Master Wall base coat and mesh at openings or use approved accessories at all exposed insulation board edges

9" (229mm)

12" (305mm)

Diagonal Mesh at all corners

Notes:

- Typical detailing for windows, doors and other openings
- Designer to size sealant joint for anticipated movement, minimum 1/2" (19 mm) sealant joint by sealant contractor
- Flashing may be required by others

AFCD-05 Typical Reinforcing Mesh Application

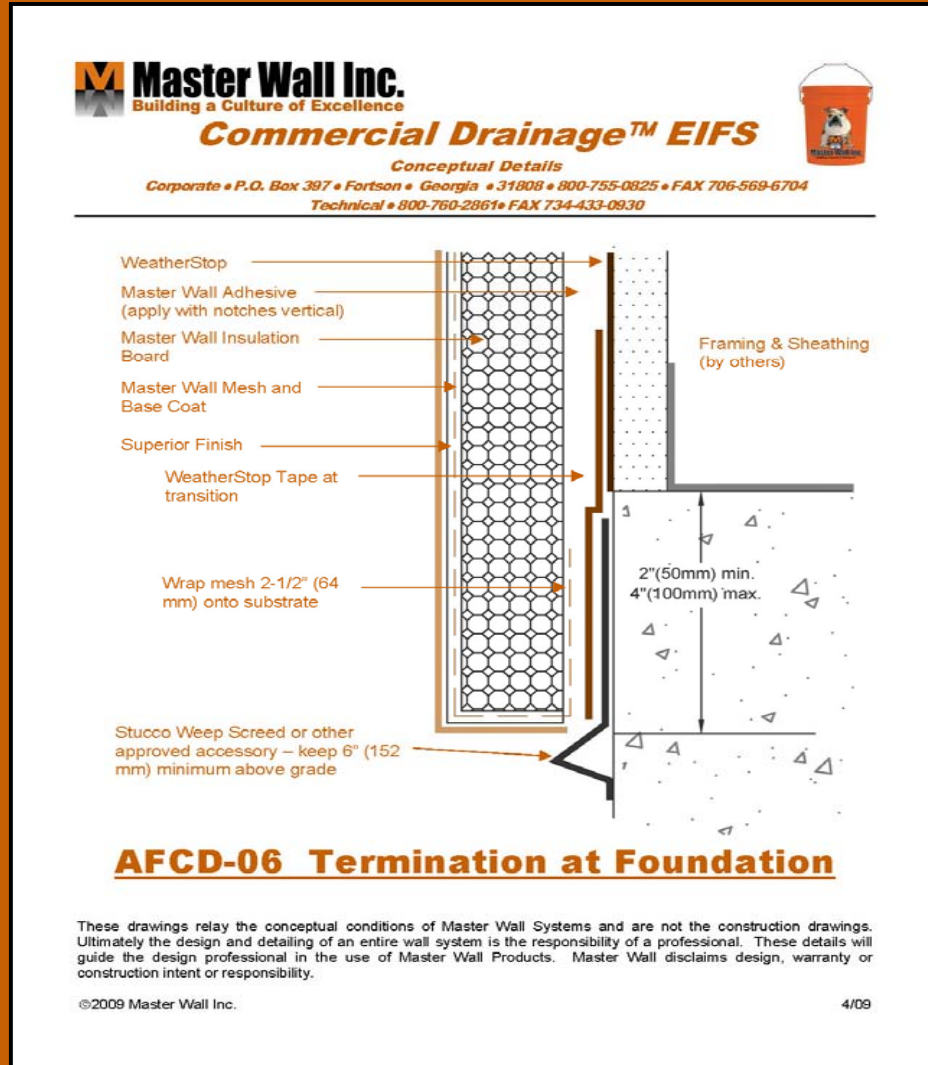
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The Master Wall logo, featuring a large stylized 'M' with a grey and blue gradient.

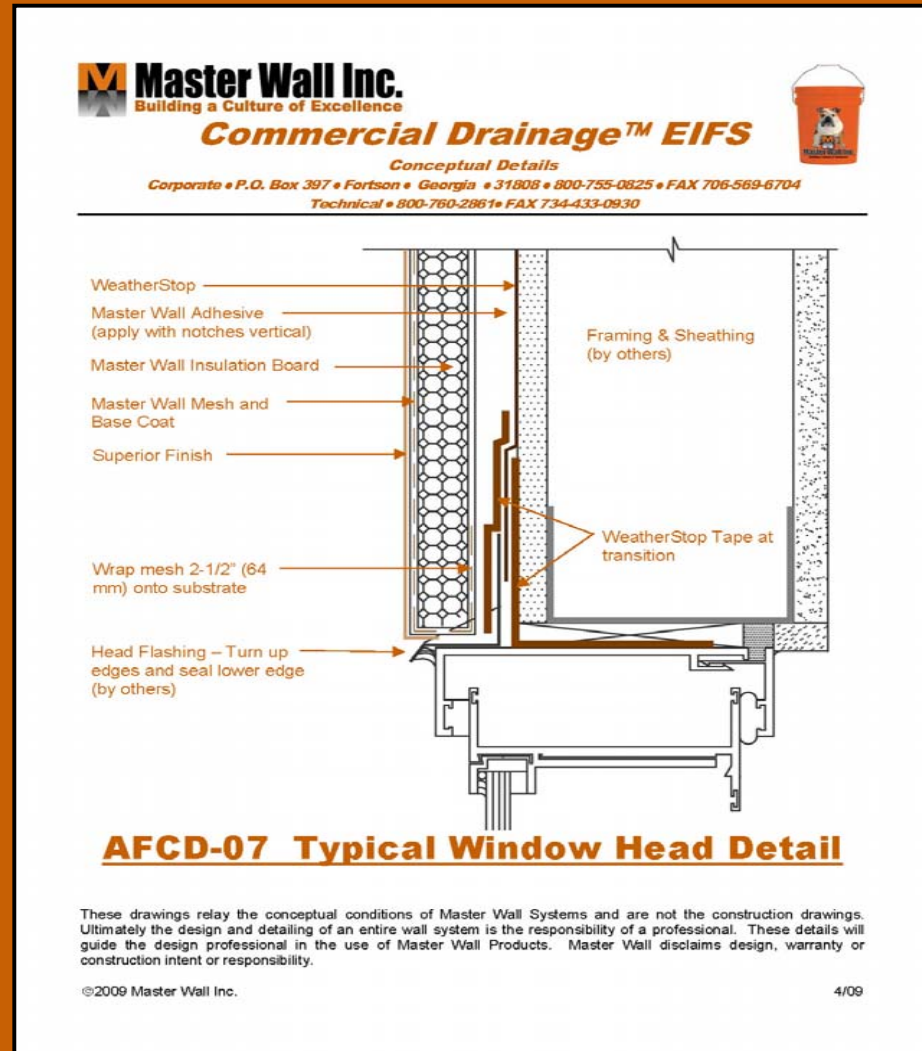
Foundation Detail

- Accessory trim piece is used at foundation
- Trim piece is flashed with WeatherStop Tape
- Insulation board is backwrapped 2-1/2" (64 mm) minimum
- Keep insulation at least 6" (152 mm) above grade



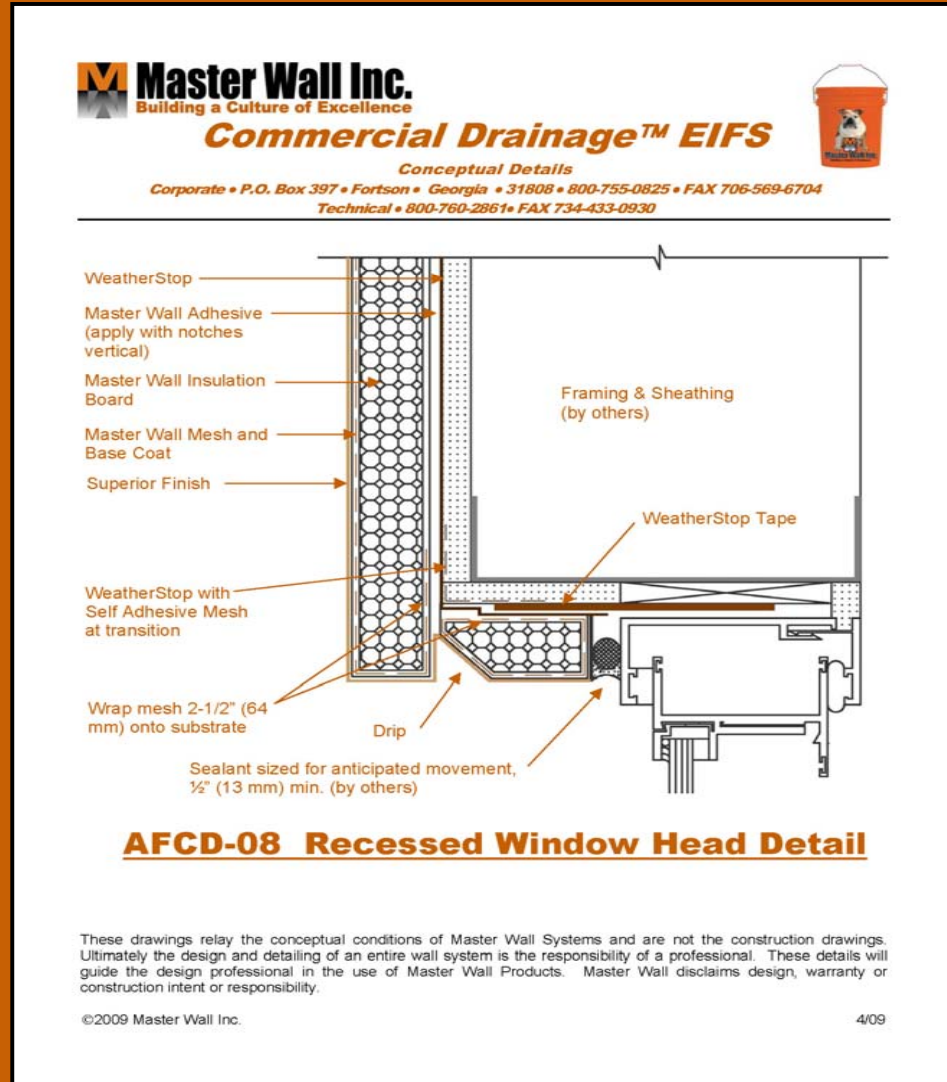
Window Head Detail

- Opening is flashed with WeatherStop Tape
- Backwrapping is typically used
- A drainage-type casing bead accessory can also be used
- Window head flashing is used according to window manufacturers instructions, flashed with WeatherStop Tape
- Window is inspected by window trades and sealed by sealant trades as needed
- Leave a small opening/drainage area for incidental water



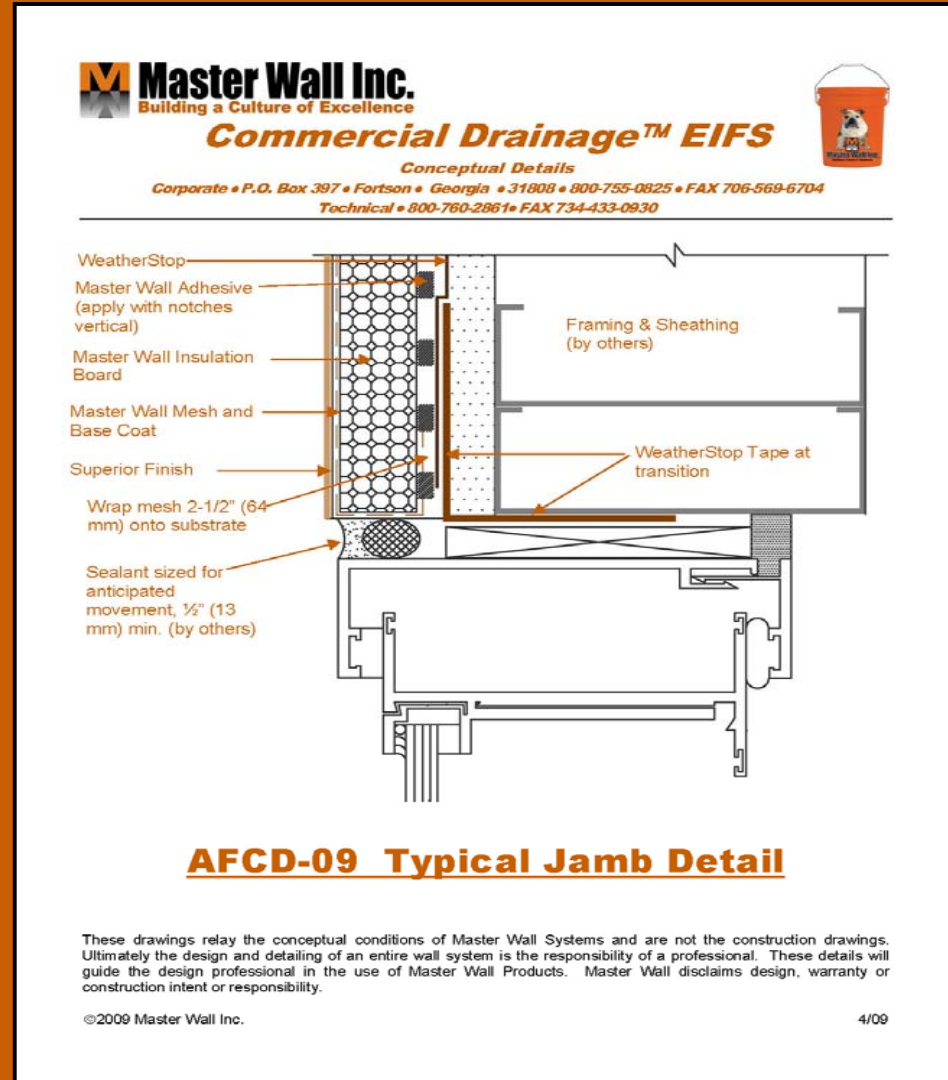
Recessed Window Head

- Flash opening with WeatherStop Tape
- Backwrapping is necessary to provide for drainage
- The design has a drip detail built in
- Leave a ½" (13 mm) minimum expansion joint area for sealants



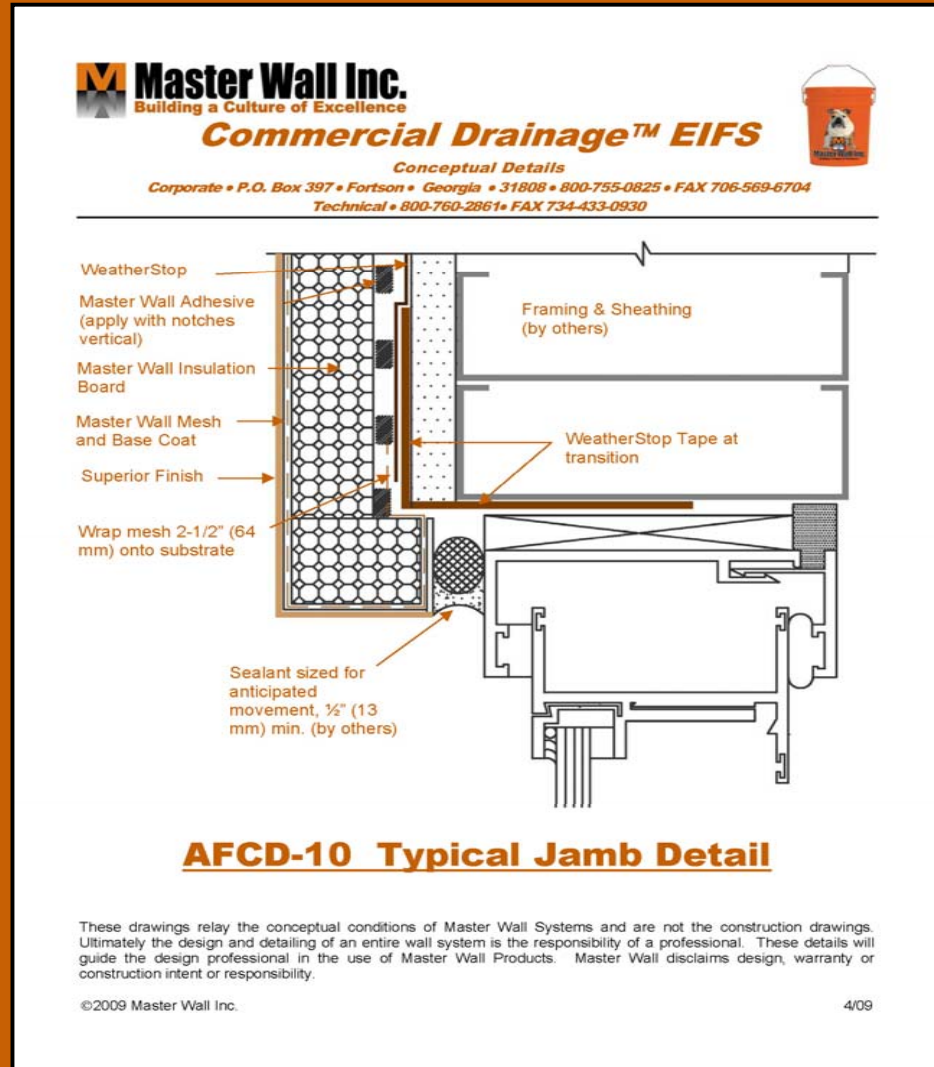
Window Jamb Detail

- Flash opening with WeatherStop Tape
- Backwrapping or casing bead is used
- Leave a ½" (13 mm) minimum expansion joint area for sealants



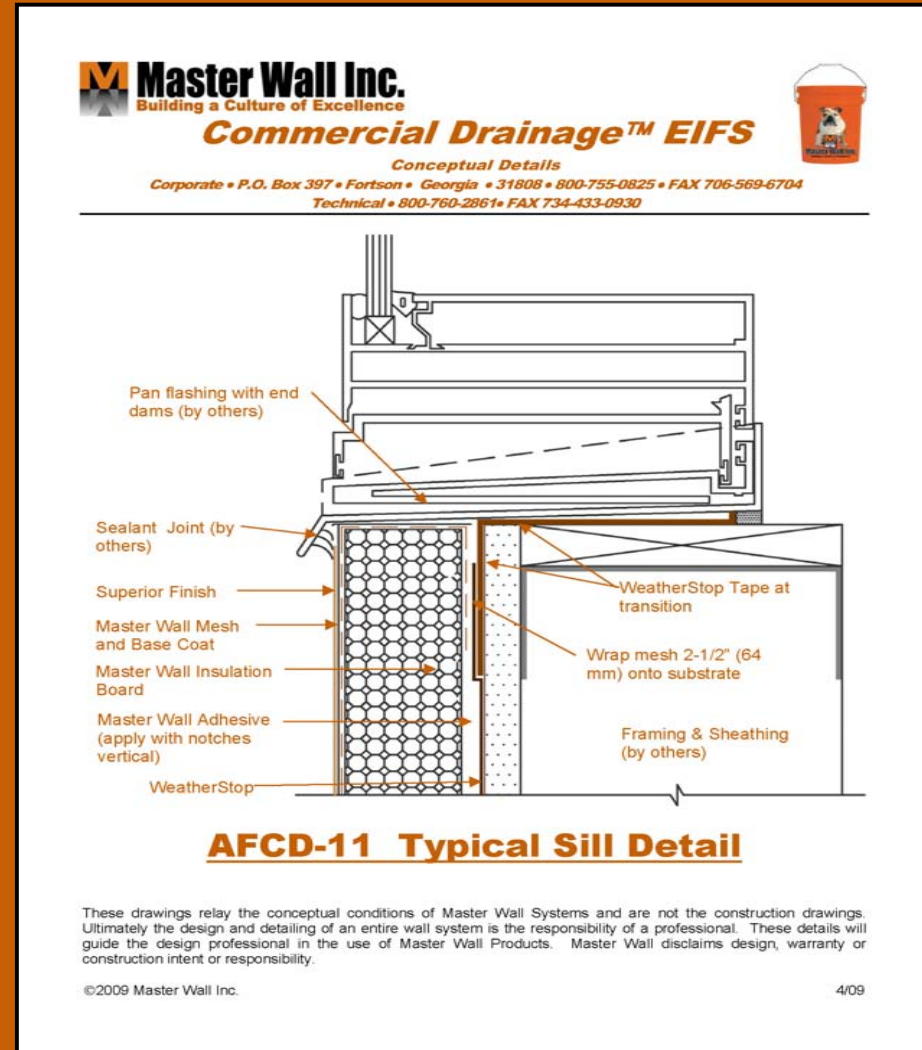
Recessed Window Jamb Detail

- Flash opening with WeatherStop Tape
- Backwrapping or casing bead is used
- Leave a ½" (13 mm) minimum expansion joint area for sealants



Window Sill Detail

- Flash opening with WeatherStop Tape
- Backwrapping or casing bead is used
- Window is flashed
- Sealant is used between the pan flashing and EIFS
- For thicker insulation bevel sill 1:2 minimum



Vertical Expansion Joint

- Apply WeatherStop Tape over WeatherStop
- Run base coat and mesh into the joint for a continuous water barrier
- Sealant trades apply interior and exterior sealants

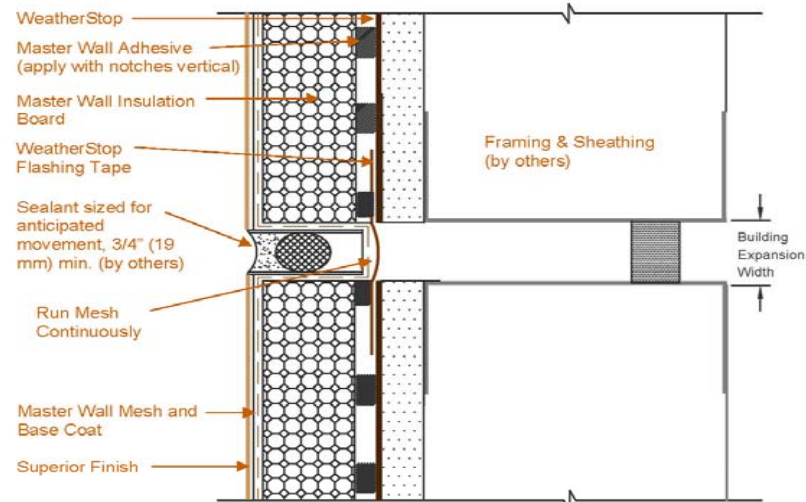
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AFCD-12 Typical Vertical Expansion Joint

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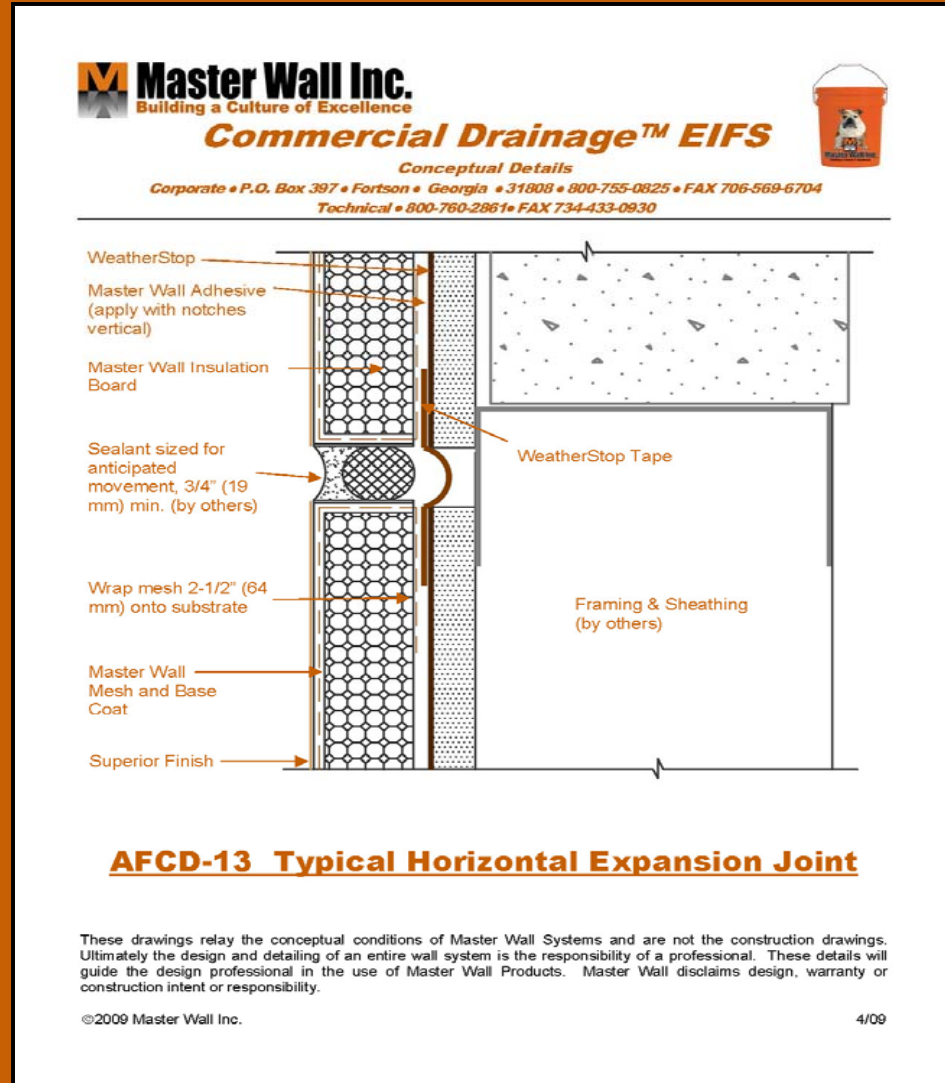
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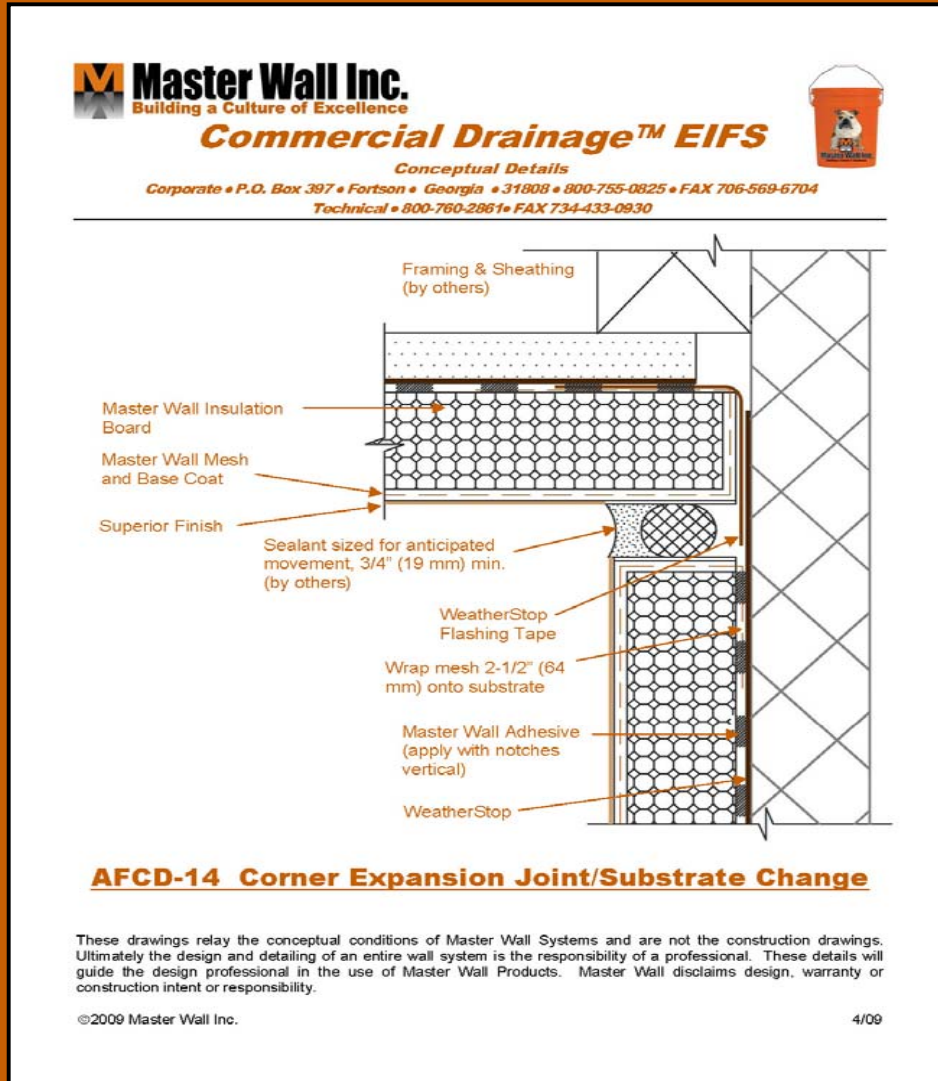
Horizontal Expansion Joint

- Apply WeatherStop Tape over WeatherStop
- Backwrap each side 2-1/2" (64 mm) minimum
- Sealant trades seal moving joint
- Alternatively flashing could be used at is location to direct water outward



Dissimilar Substrates

- Apply WeatherStop Tape over WeatherStop
- Backwrap each side 2-1/2" (64 mm) minimum
- Sealant trades seal moving joint



Dissimilar Materials

- Either run base coat & mesh onto approved substrate or backwrap
- Sealant trades seal moving joint

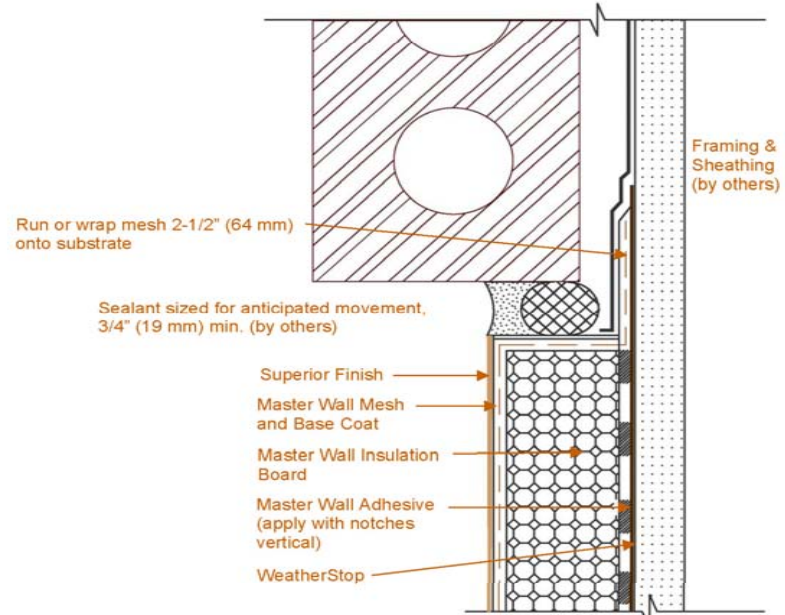
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AFCD-15 Dissimilar Materials

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Plumbing Penetration

- Use WeatherStop and WeatherStop Tape to seal the penetration
- Backwrap each side 2-1/2" (64 mm) minimum
- Sealant trades seal moving joint

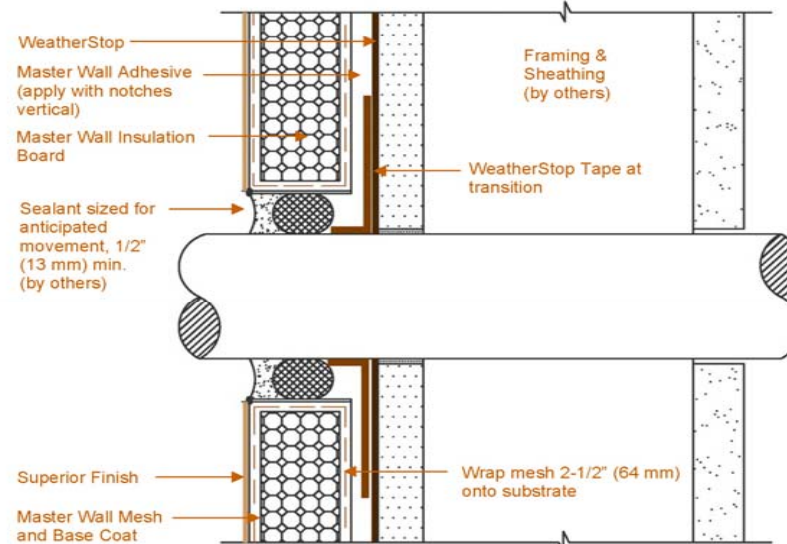


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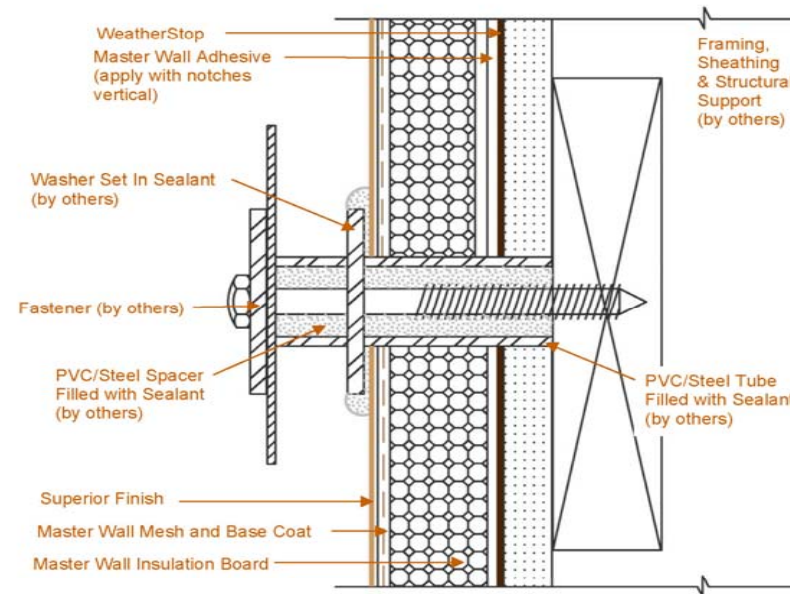
AFCD-16 Pipe Penetration Detail

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Structural Fastener

- For signage or other elements
- Use structural sleeve set in sealant
- Space signage out from EIFS for ventilation



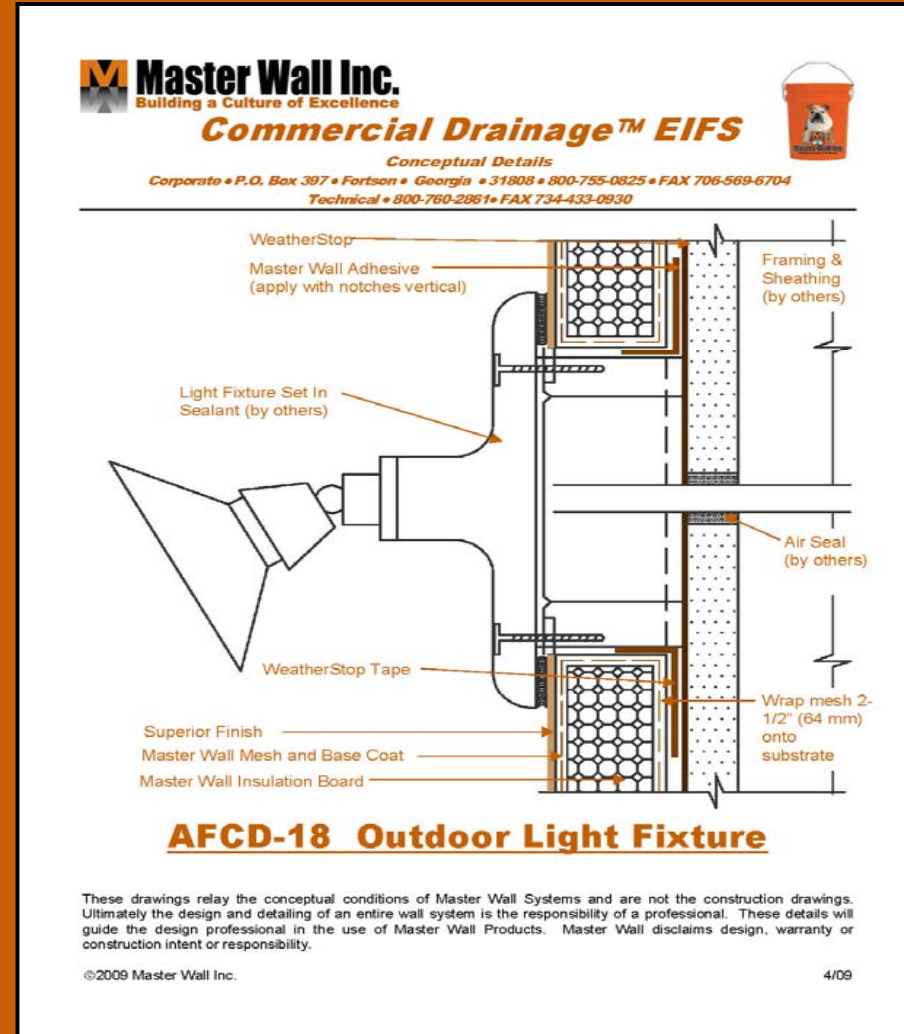
AFCD-17 Structural Fastener Detail

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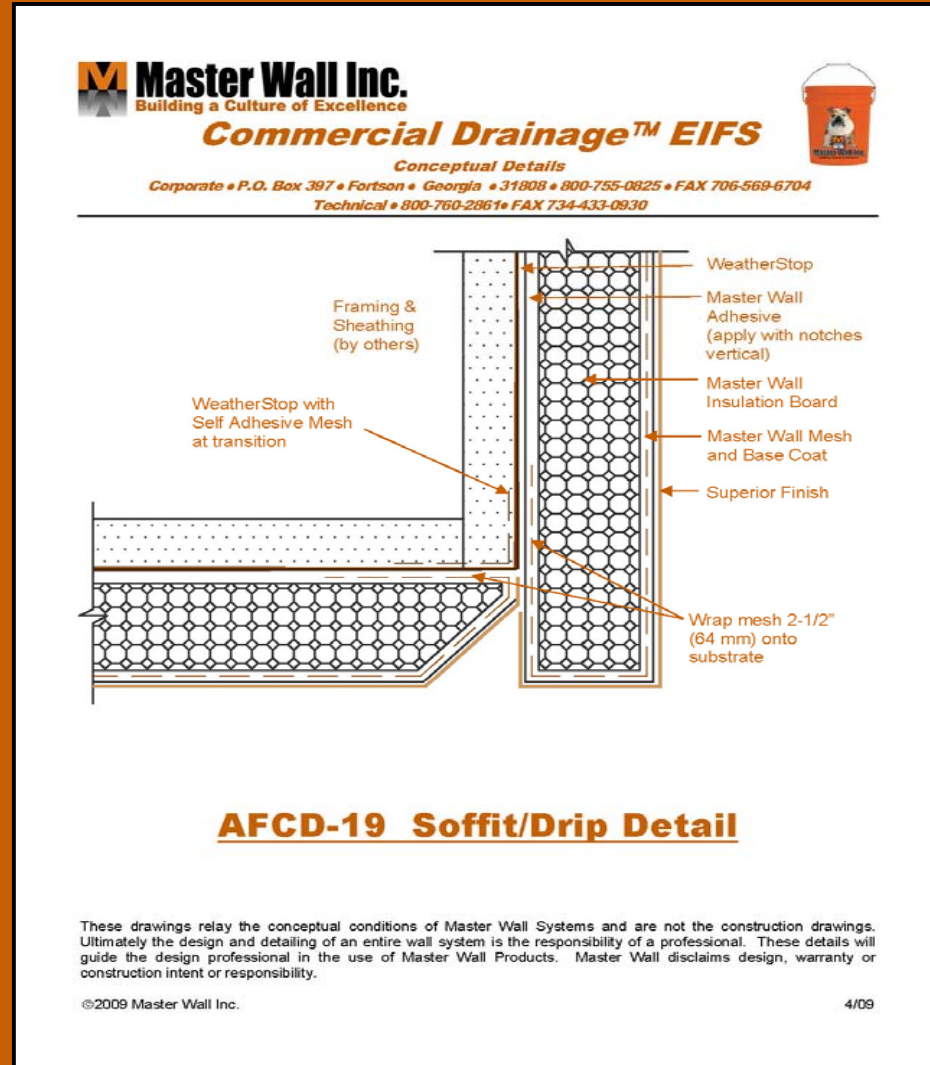
Light Fixture

- Run WeatherStop continuously under electrical box if possible, seal to box with WeatherStop Tape
- Backwrap mesh 2-1/2" (64 mm) minimum around penetration
- Electrical contractor to seal fixture per NEC requirements




Soffit/Drip

- The system is broken into two pieces forming both the drip and the drainage capacity
- Backwrap each side 2-1/2" minimum



Roof/Wall Intersection


- Backwrapping and a stucco weep screed/drainage track or other accessory is necessary for roof intersections
- Confirm the flashing and building felt extends at least 4" (102 mm) up the wall according to NRCA requirements
- Keep the system about 1" to 2" (25-51 mm) above the roof
- Install kick out flashing at the end (either roofing or EIFS trade)
- Sealant contractor finishes the job

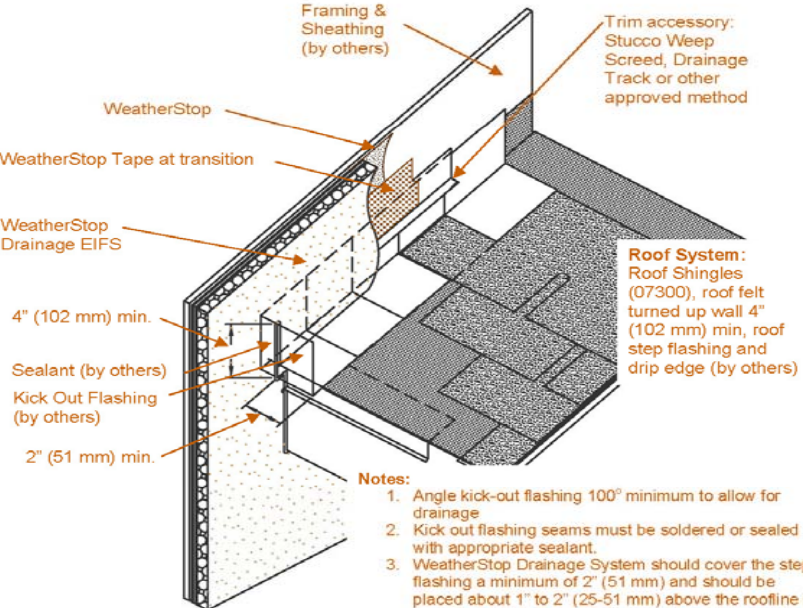


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Labels:

- Framing & Sheathing (by others)
- Trim accessory: Stucco Weep Screed, Drainage Track or other approved method
- WeatherStop
- WeatherStop Tape at transition
- WeatherStop Drainage EIFS
- 4" (102 mm) min.
- Sealant (by others)
- Kick Out Flashing (by others)
- 2" (51 mm) min.
- Roof System: Roof Shingles (07300), roof felt turned up wall 4" (102 mm) min, roof step flashing and drip edge (by others)


Notes:

1. Angle kick-out flashing 100° minimum to allow for drainage
2. Kick out flashing seams must be soldered or sealed with appropriate sealant.
3. WeatherStop Drainage System should cover the step flashing a minimum of 2" (51 mm) and should be placed about 1" to 2" (25-51 mm) above the roofline in accordance with local requirements.

AFCD-20 Typical Roof/Wall Intersection

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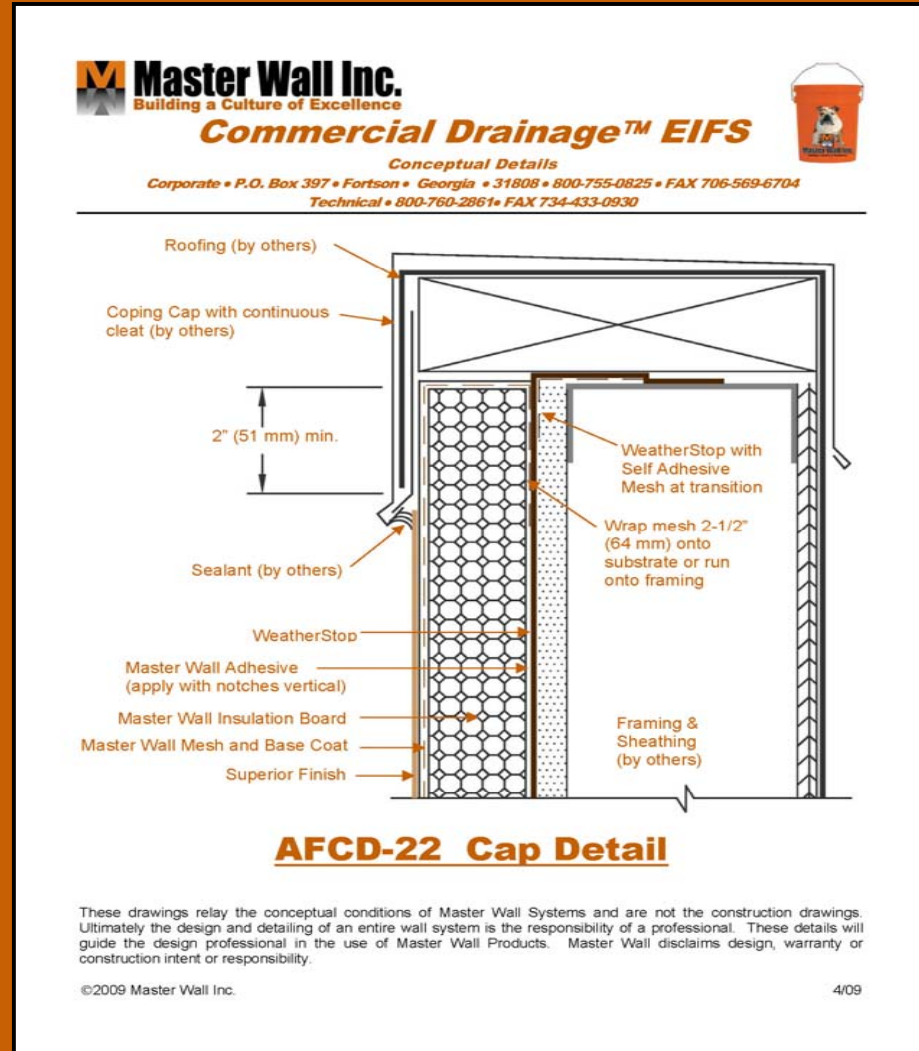
Roof Edge Cap Detail

- Backwrap or run base coat and mesh continuously onto the framing 2-1/2" (64 mm) minimum
- Sheet metal contractor installs necessary nailers, secondary water protection and sheet metal
- Sealant contractor seals the cap
- Caps and final installation work should be completed quickly



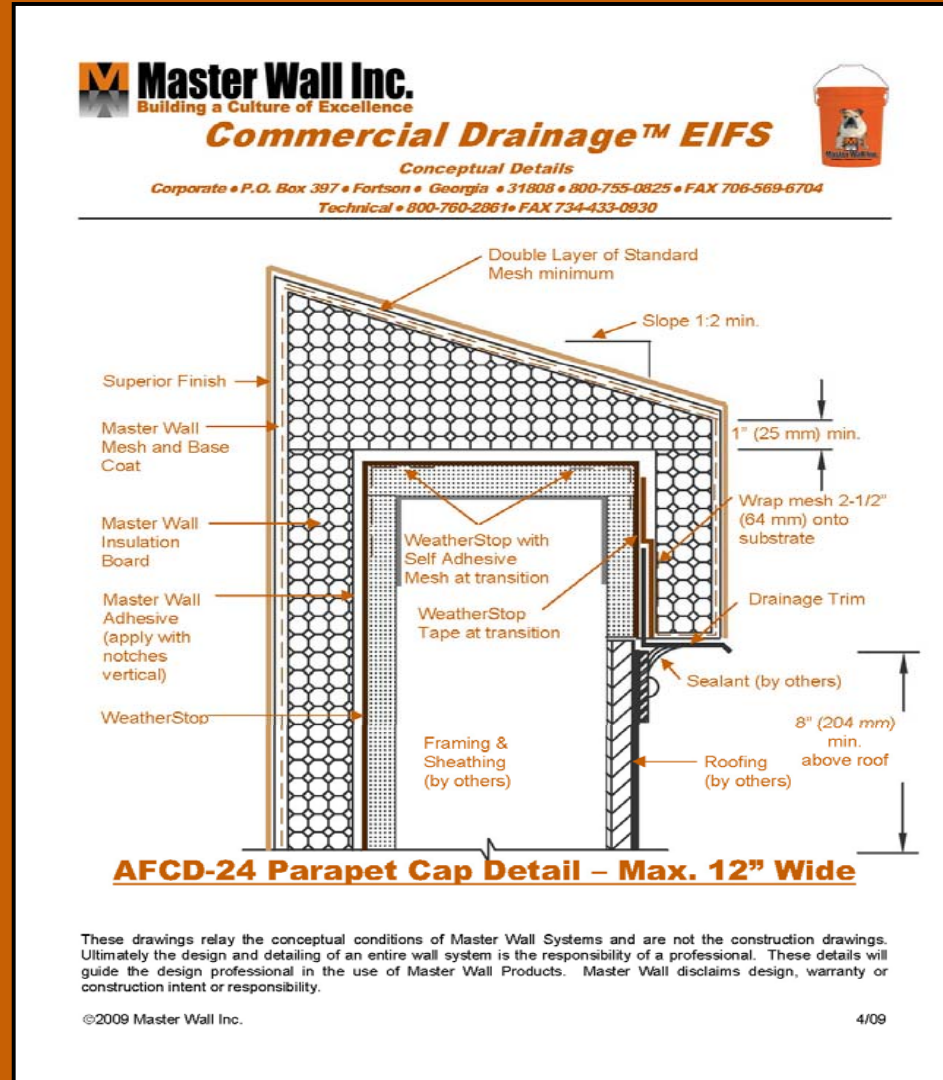
Coping Cap Detail

- Backwrap or run base coat and mesh continuously onto the framing 2-1/2" (64 mm) minimum
- Sheet metal contractor installs necessary nailers, secondary water protection and sheet metal
- Sealant contractor seals the cap

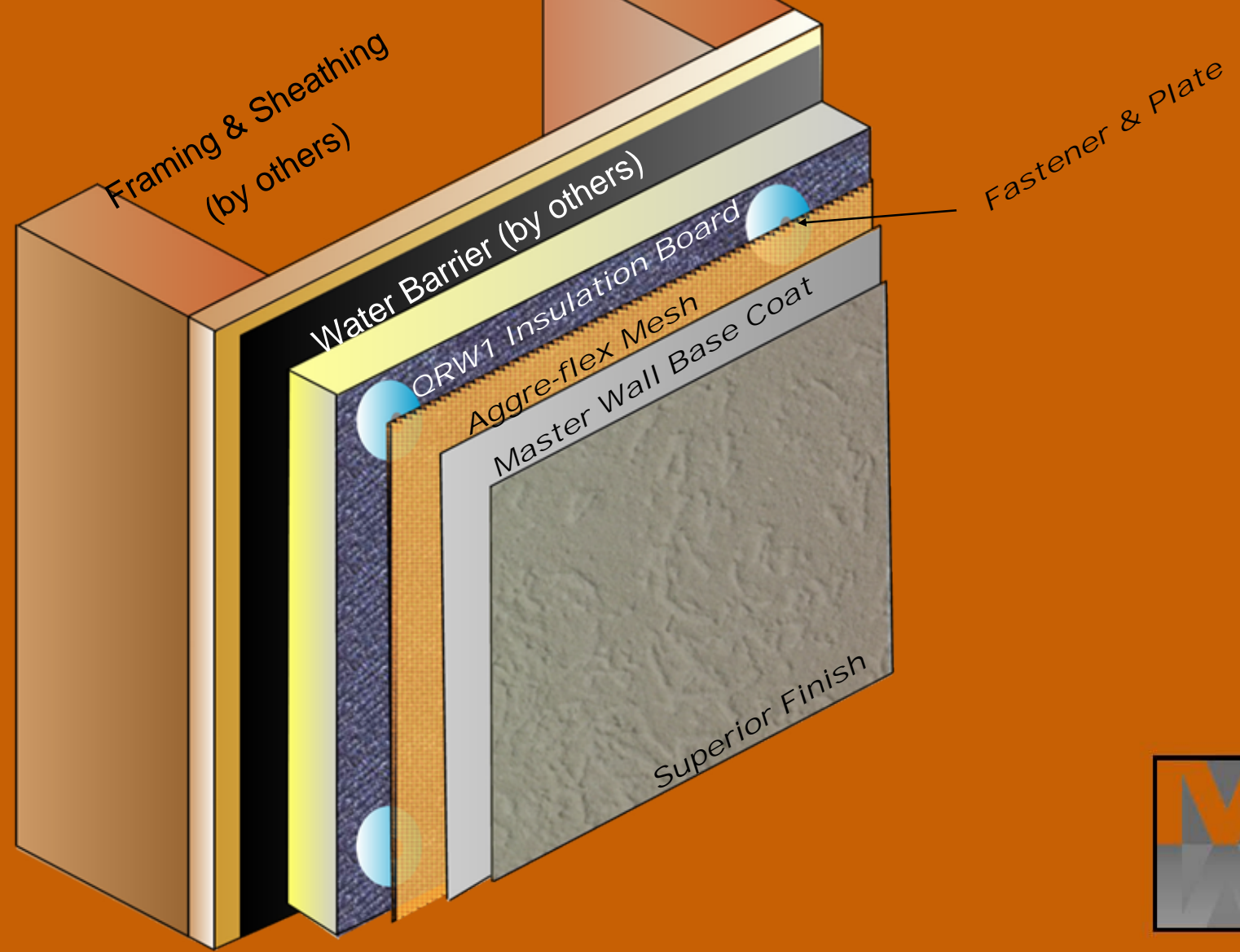


Roof Transition with EIFS Cap

- Backwrapping is necessary
- Keep system about 8" (204 mm) above the roof
- Sealant contractor seals to the sheet metal flashing



QRW1 Drainage System Components



Approved Substrates

- Typical substrates include brick, masonry, concrete, exterior gypsum sheathing (ASTM C79 and C1177 and plywood/OSB
- Wood sheathings need to be properly gapped, all sheathings need to be properly fastened
- See product data sheets or contact Master Wall for the appropriate technique
- Substrates not listed in our literature need to be approved in writing



Architect's Design Considerations

- Flat surfaces need to be sloped an minimum of 1:2
- Large areas of dark colors may not work with EIFS – consider the local climate
- A thermal barrier is needed between EIFS and the interior of the building
 - typically ½” gypsum
- Minimum QRW1 thickness is 5/8” (1.6 mm) and maximum is 2” (51 mm).
- If aesthetic joints are planned, minimum thickness should be at least 1-1/2” (38 mm) thick
- Expansion joints should be installed in the EIFS every 30 lineal feet if the building has no corners or breaks



QRW1 Drainage Design Principles

- Residential or light commercial system
- System breaks at penetrations
 - 1/2" to 3/4" (13-19 mm) wide sealant joints are the norm, fillet-type sealant joints are allowed in residential construction
- Sealant bridges between the QRW1 Drainage System and wall penetration
- Drainage-type plastic trims are the norm, backwrapping is occasionally used depending upon the design
- Offers about R-5 per inch of thickness, keeps inside wall temperatures more consistent.



Water Barriers and Substrates

What to look for before you begin work



Review of Substrate/Water Barrier

- Check the following prior to beginning work
 - Substrate smooth, even with $\frac{1}{4}$ " in 10' maximum variation
 - Wood panels properly gapped
 - Water barrier & flashings properly installed to shed water
- Water barriers need to be installed to prevent water entry
- Advise Architect, General Contractor or Owner in writing if these conditions are not met



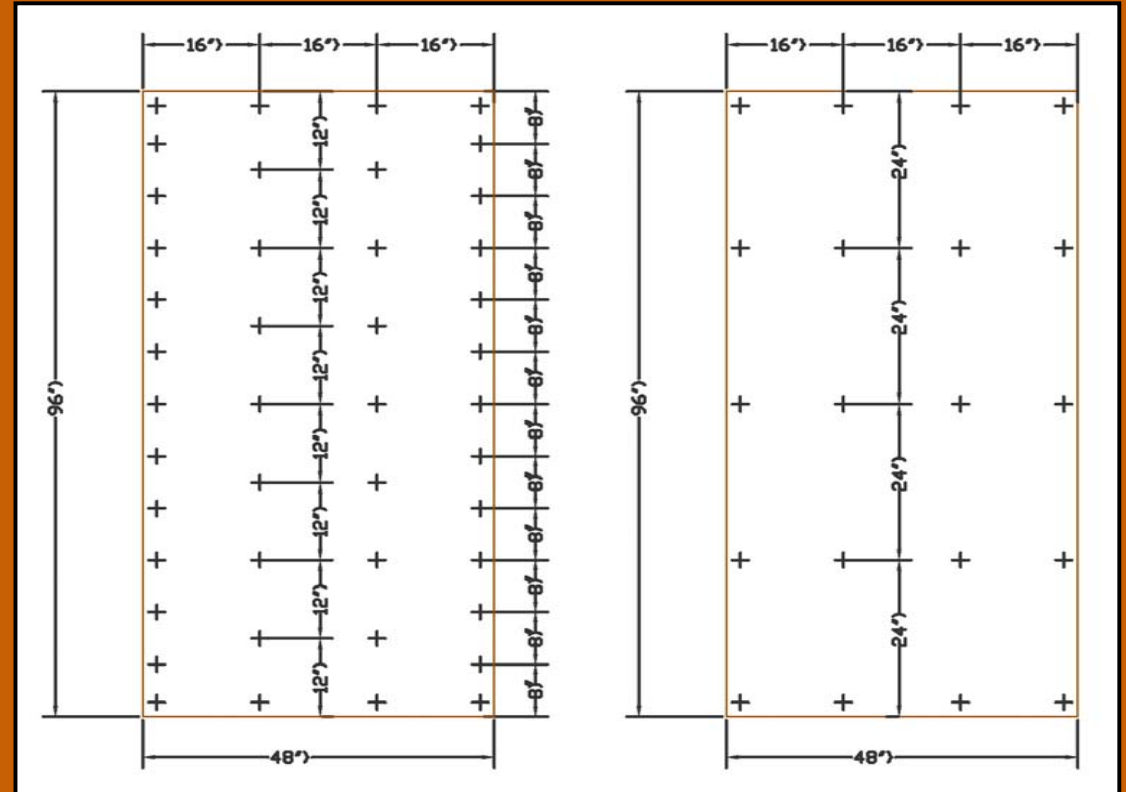
Drainage Mats

- If desired, drainage mats can be added
 - Colbond Enkamat
 - Benjamin Obdyke Homeslicker
 - Foam sill seal spacers
- Attach according to manufacturer's instructions
 - Attach sill seal spacers at framing lines



Mechanical Attachment

- Use only approved fasteners
- Install according to Master Wall's pattern
- Set fasteners just below surface of the insulation board



Wood Substrates

Masonry Substrates



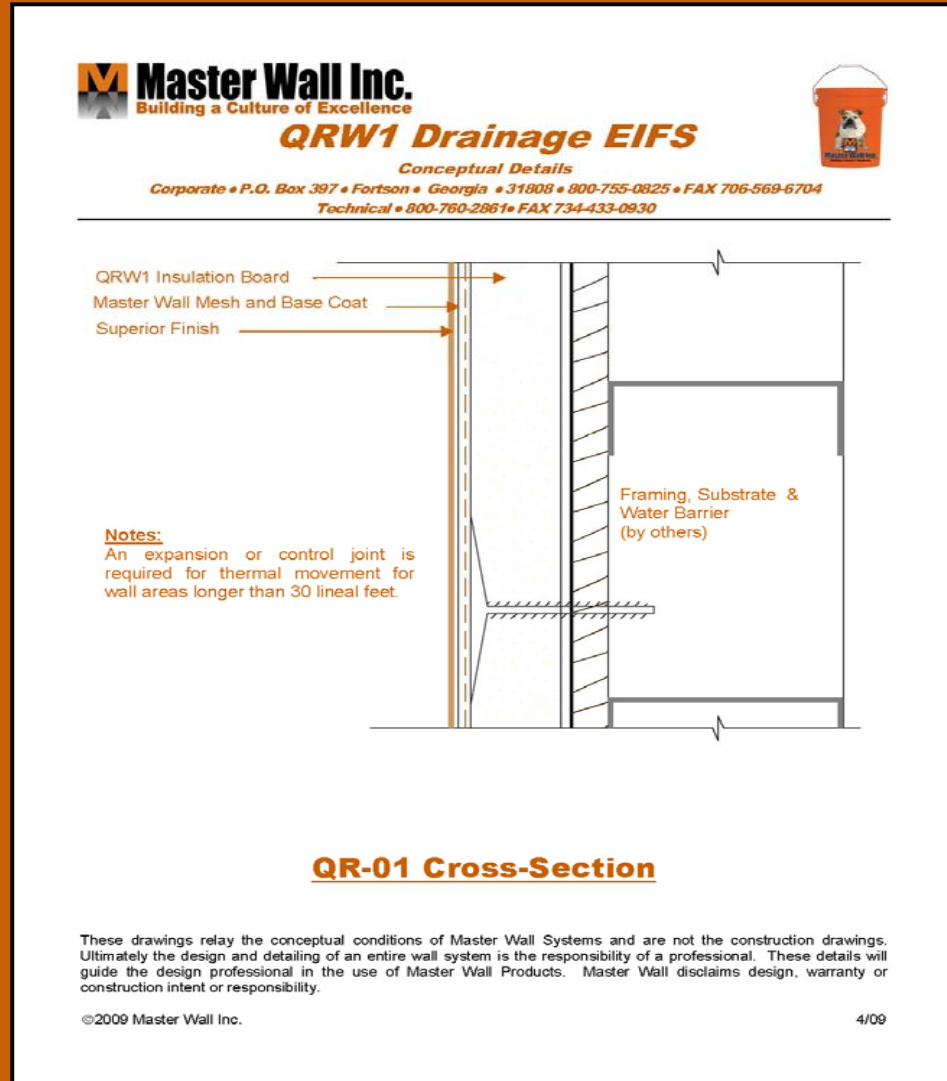
Details

QRW1 Drainage EIFS



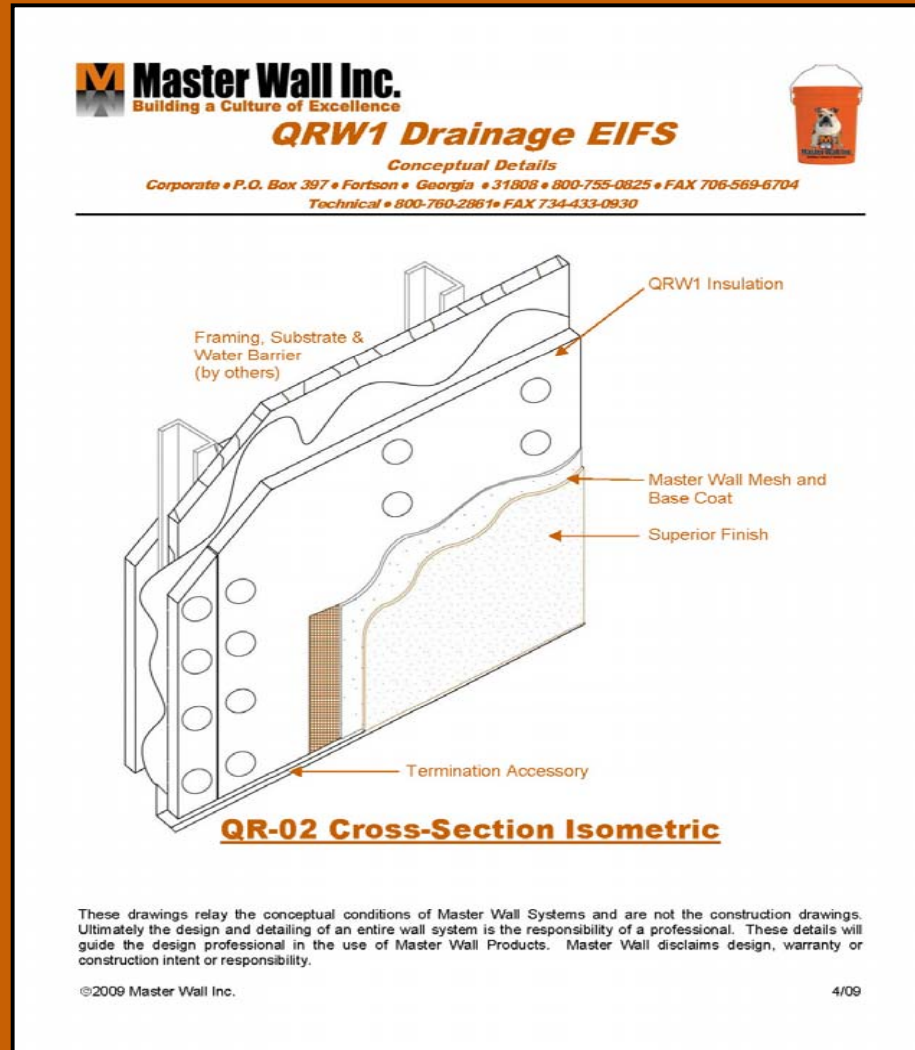
Cross Section

- Typically 5/8" to 2" (1.6-51 mm) insulation thickness




QRW1 Isometric


- Typically Tyvek StuccoWrap is used with flat board
- Drainage mats or spacers may also be used



Insulation Layout

- Insulation applied vertically
- Interlock inside and outside corners
- Plan installation so insulation doesn't line up with window and door corners

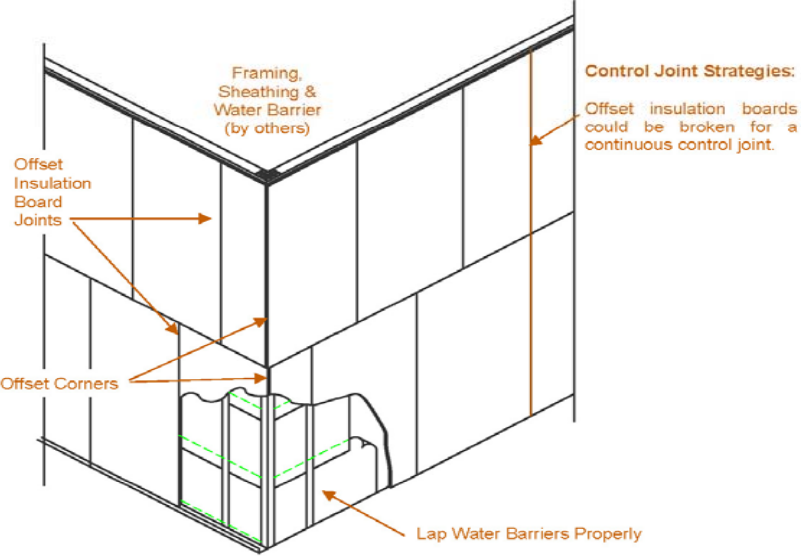
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Control Joint Strategies:
Offset insulation boards could be broken for a continuous control joint.

Offset Insulation Board Joints

Offset Corners

Lap Water Barriers Properly


Framing, Sheathing & Water Barrier (by others)

QR-03 Insulation Board Layout

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Fastening Pattern

- Follow Master Wall recommended pattern
- Use Wind-Lock ULP 302/402 plates or approved equal
- Use appropriate fastener for the substrate



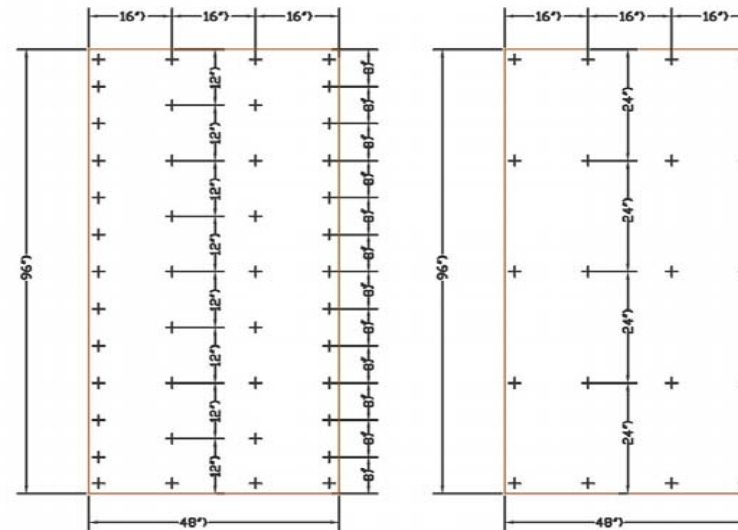
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Wood Substrates

Masonry Substrates


QR-04 Insulation Board Fastening


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Mesh Application

- Lay out your insulation so it doesn't line up with window or door corners
- Reinforce corners with corner "butterfly" mesh

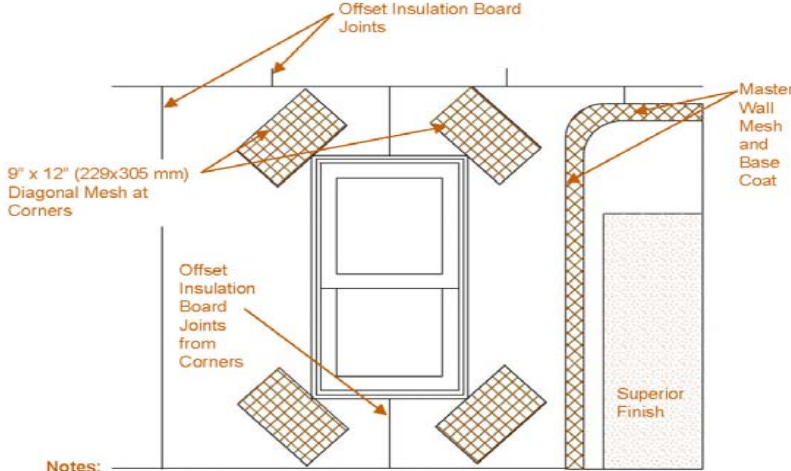
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Offset Insulation Board Joints

9" x 12" (229x305 mm) Diagonal Mesh at Corners

Offset Insulation Board Joints from Corners

Master Wall Mesh and Base Coat

Superior Finish

Notes:

- Typical detailing for windows, doors and other openings
- Designer to size sealant joint for anticipated movement, minimum 1/2" (13 mm) sealant joint by sealant contractor
- Flashing may be required by others

QR-05 Typical Reinforcing Mesh Application

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Foundation Detail

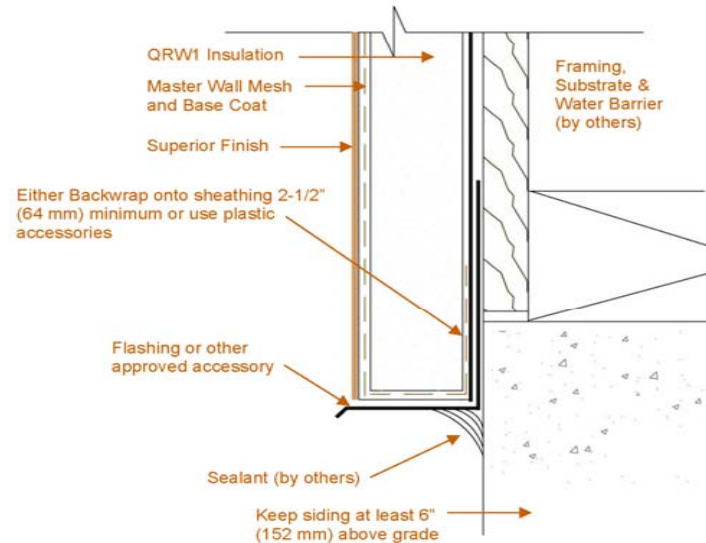
- Level drainage track
- Run Water Barrier into drainage track
- Keep siding at least 6" (152 mm) above grade



QRW1 Drainage EIFS

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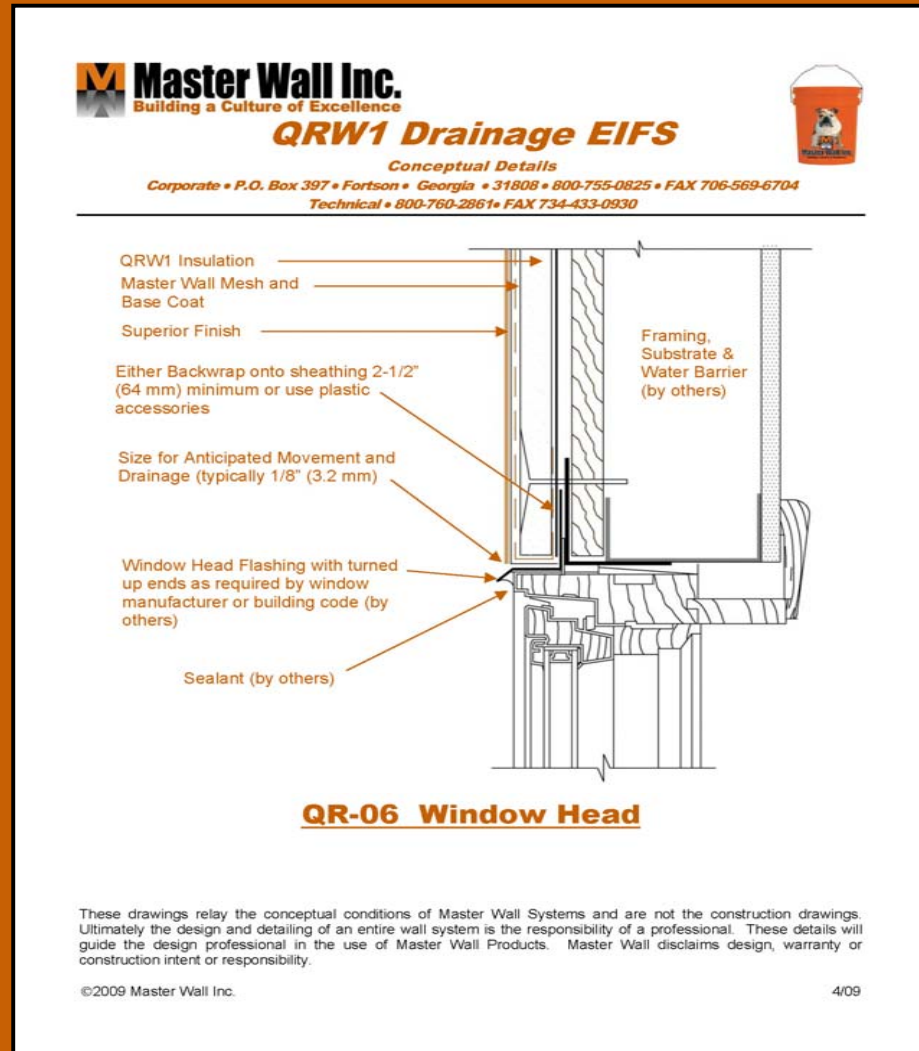
QR-16 Termination at Foundation Detail

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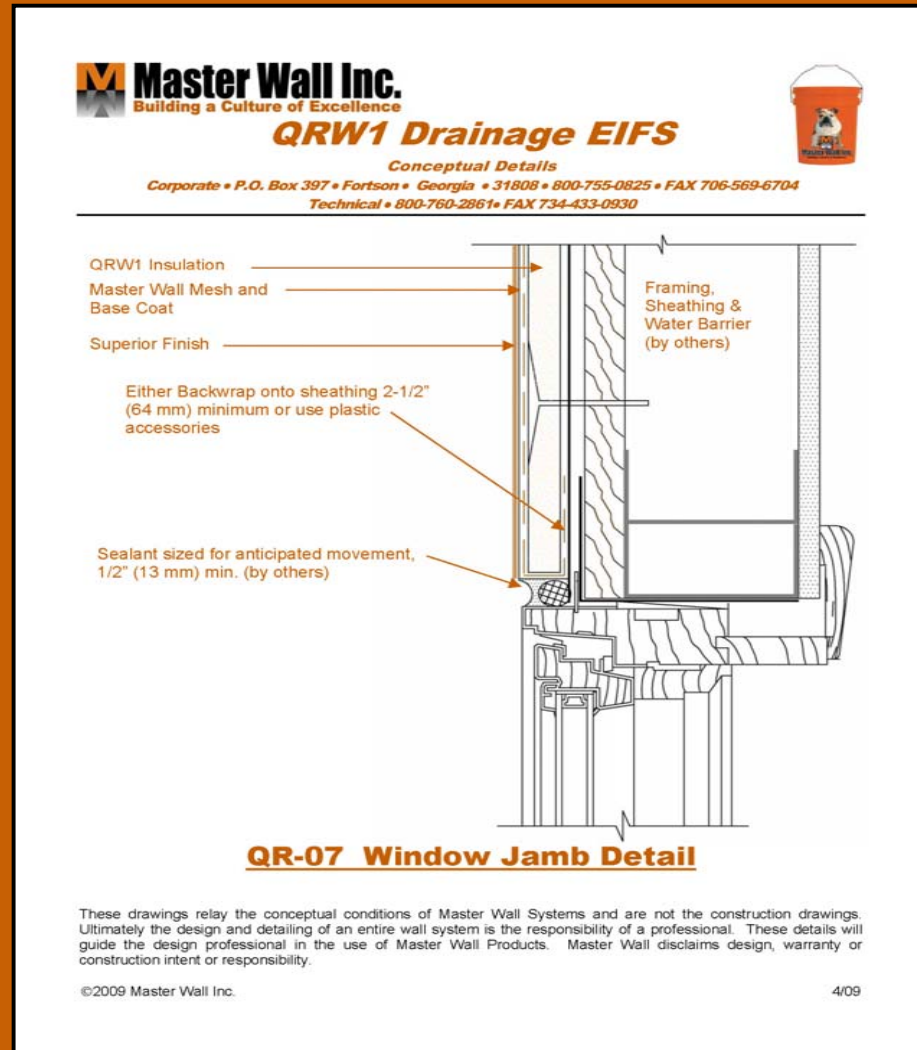
Window Head

- Plastic trim accessories or backwrapping can be used
- Leave a 1/2" (13 mm) minimum expansion joint area for sealants with drainage tracks or seal flashing if backwrapped
- Check to see if head flashing is required by the window manufacturer



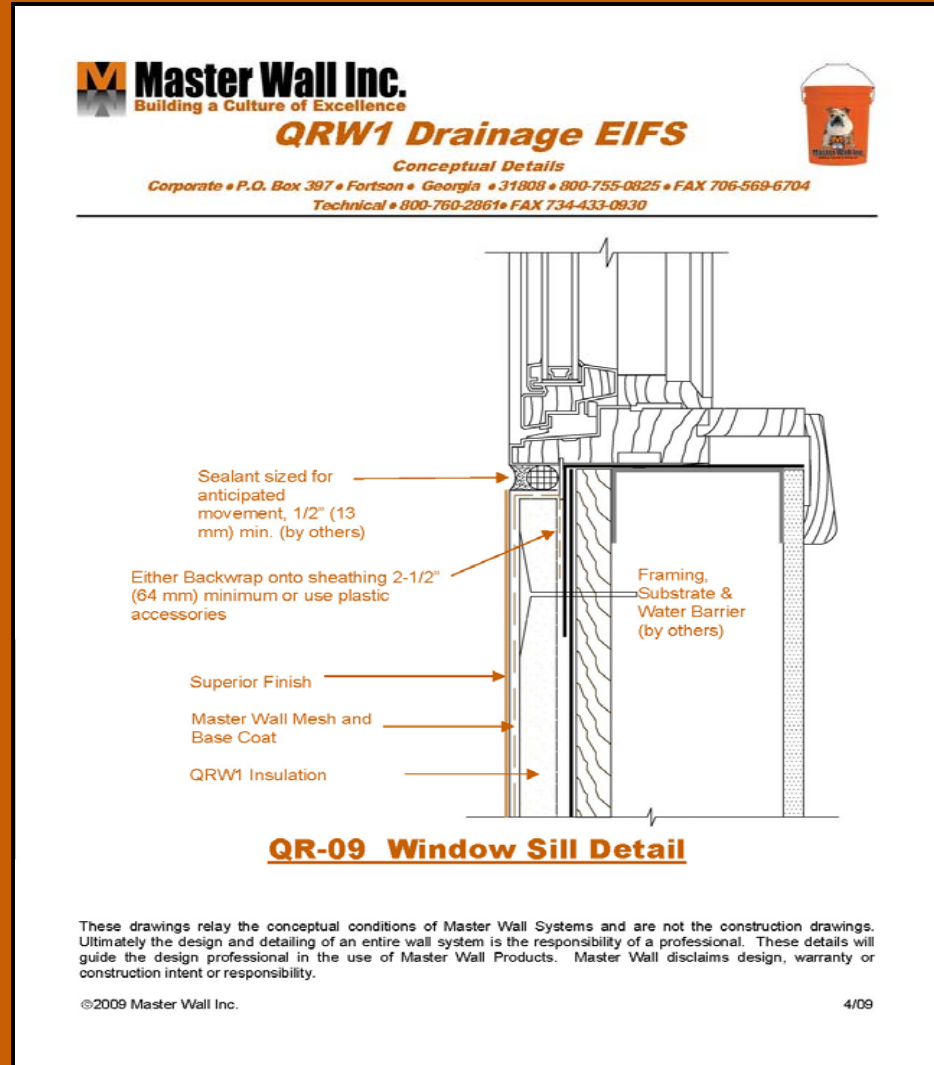
Window Jamb

- Casing Bead is attached to the substrate
- Insulation board is tucked into casing bead
- Leave room for an expansion joint



Window Sill

- Attach casing bead or backwrap allowing for expansion joint width



Window/Door Head

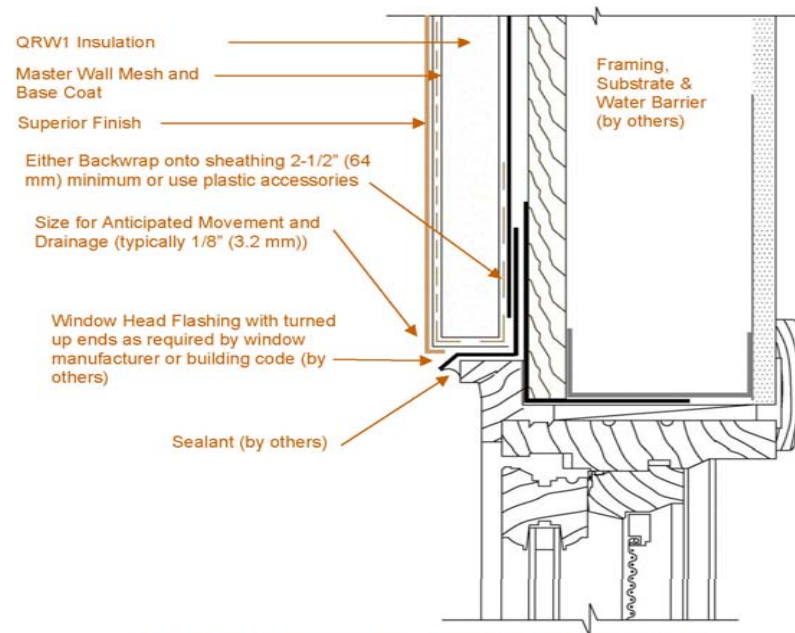
- Use head flashing
- Either casing bead or backwrap

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QRW1 Drainage EIFS

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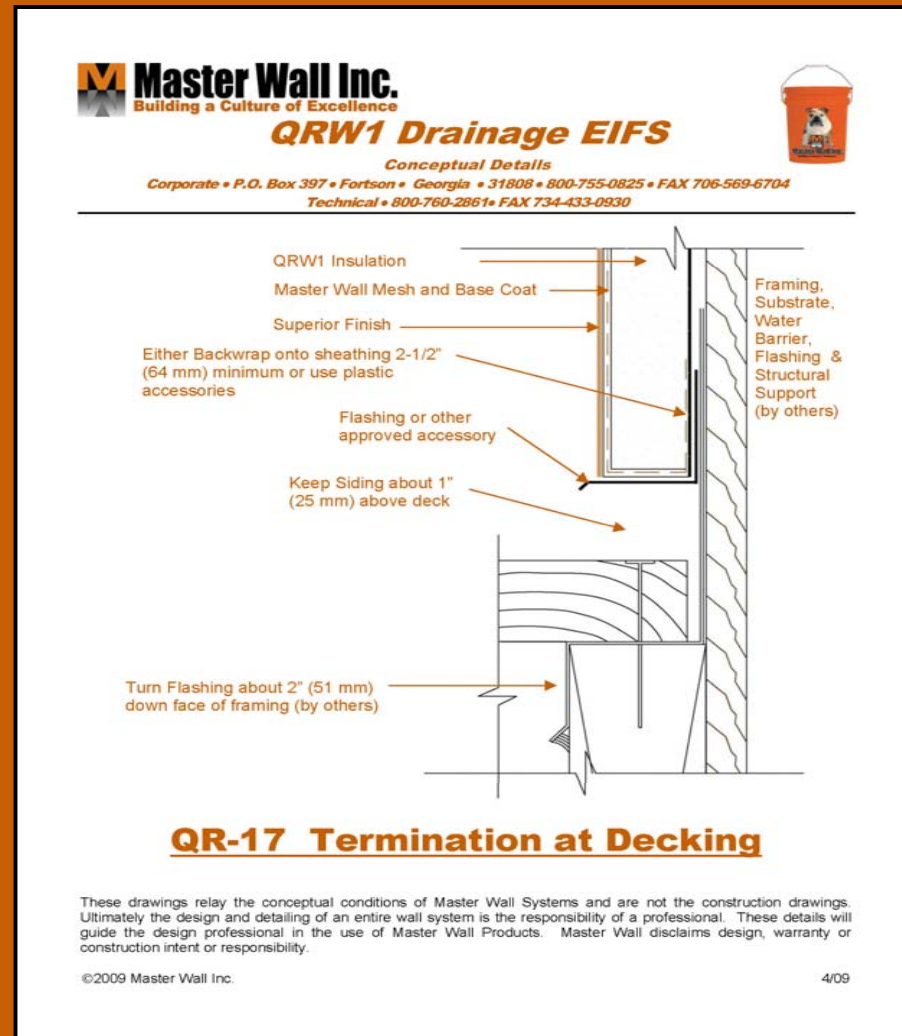
QR-08 Wood Window Head Detail

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Deck Flashing - Upper

- Either casing bead or backwrap termination
- Leave 1"-2" (25-51 mm) above deck for maintenance



Deck Flashing - Lower

- Use flashing to direct water onto the face of the system
- Extend flashing a minimum of 2" (51 mm) and seal the lower edge

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QR-18 Termination Under Deck

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Pipe Penetration

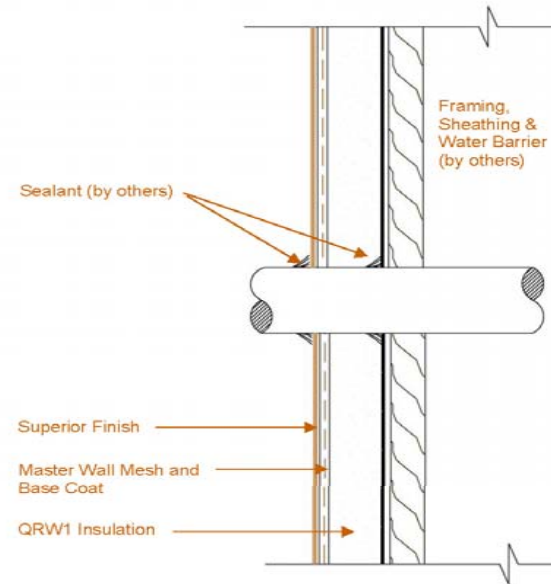
- Pipe should also be sealed to the weather barrier

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QR-12 Pipe Penetration Detail

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Dryer Vent

- Use sleeves and set vent in sealant



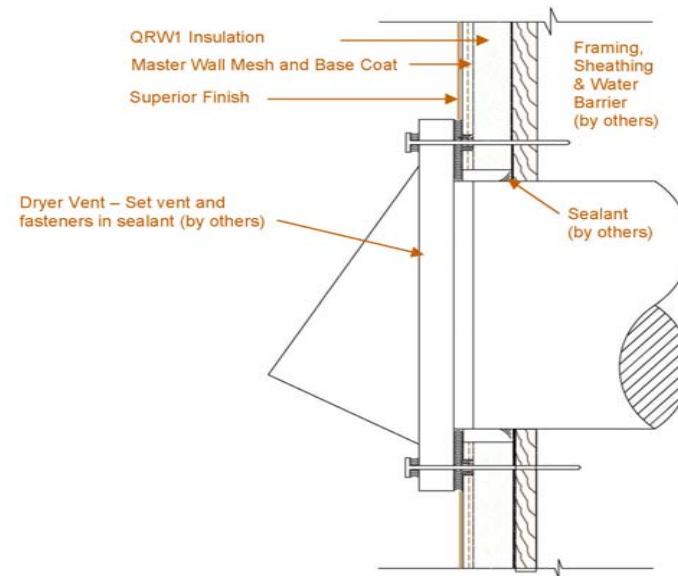
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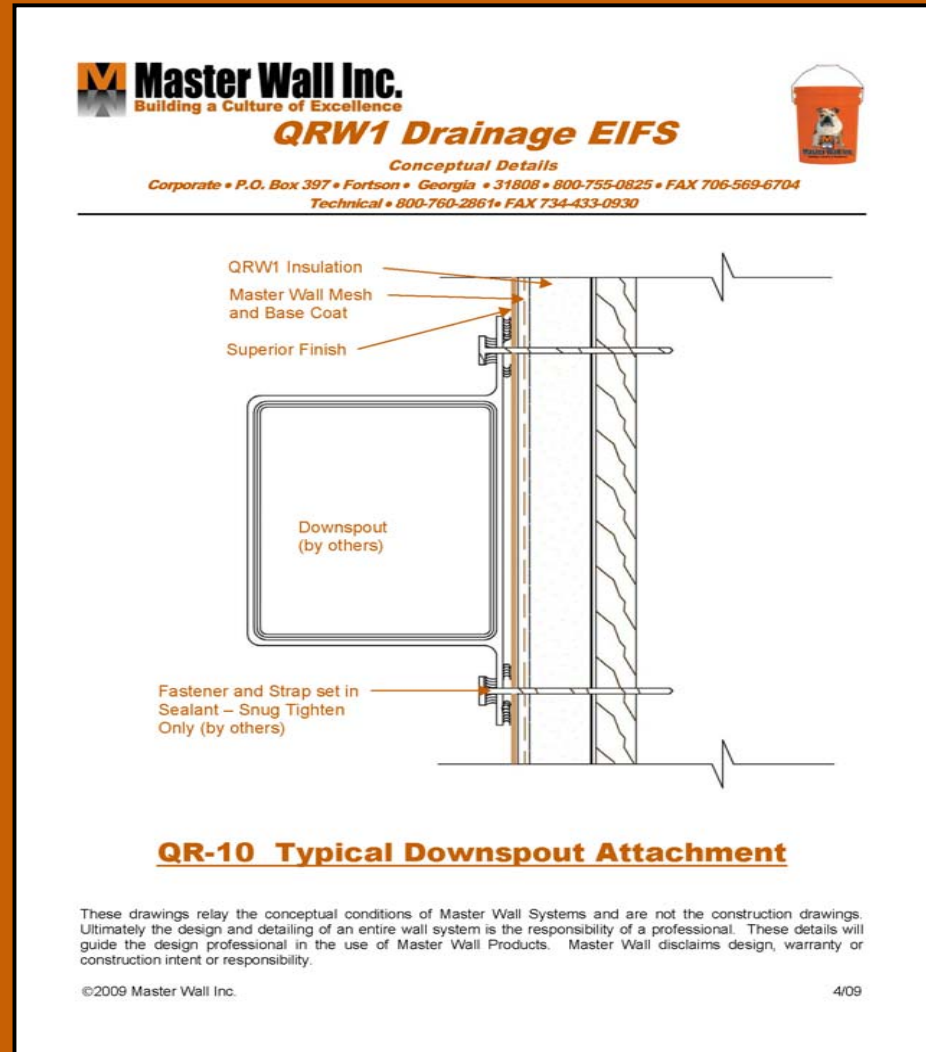
QR-15 Dryer Vent Detail

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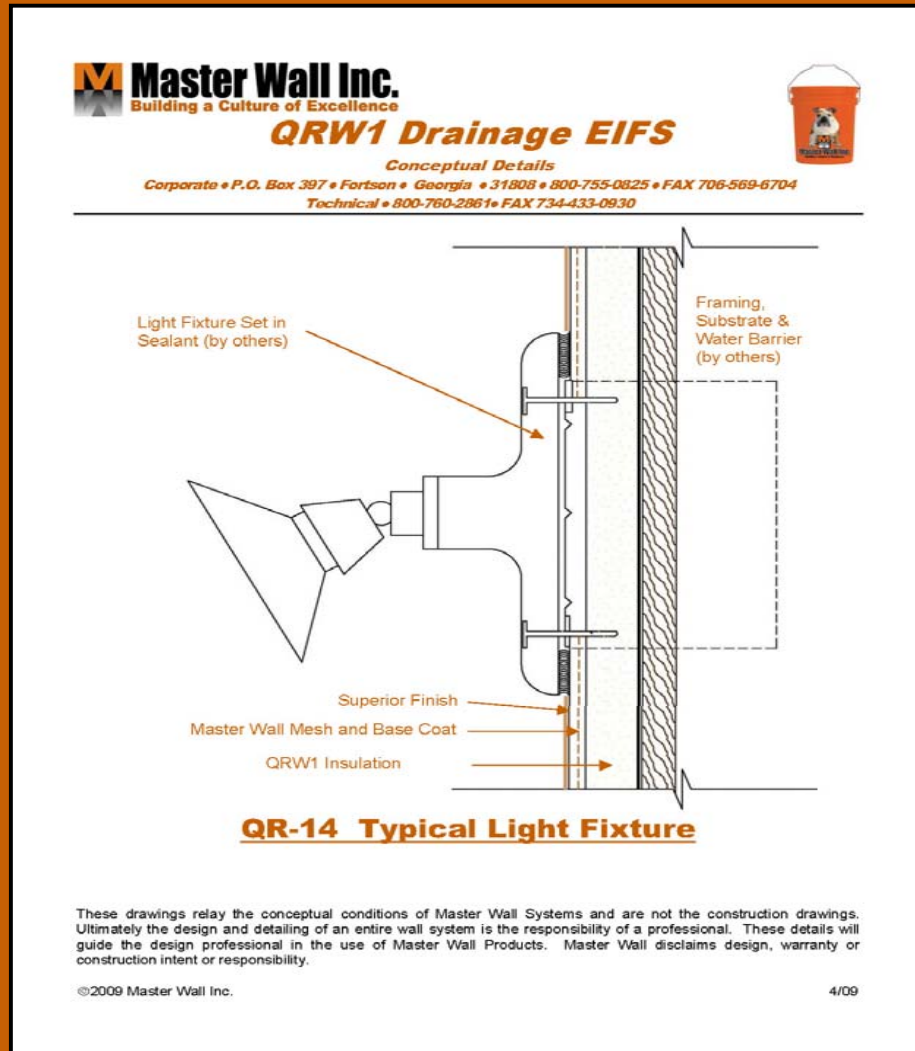
Downspout

- Snug fit or use sleeves to prevent damage to the system
- Set everything in sealant to prevent leaks



Light Fixture

- Seal the system against waterproof box



Floor Line Expansion Joint

- Allows for cross-grain shrinkage in dimensional lumber
- Either casing bead or backwrap termination
- Water barrier runs continuously



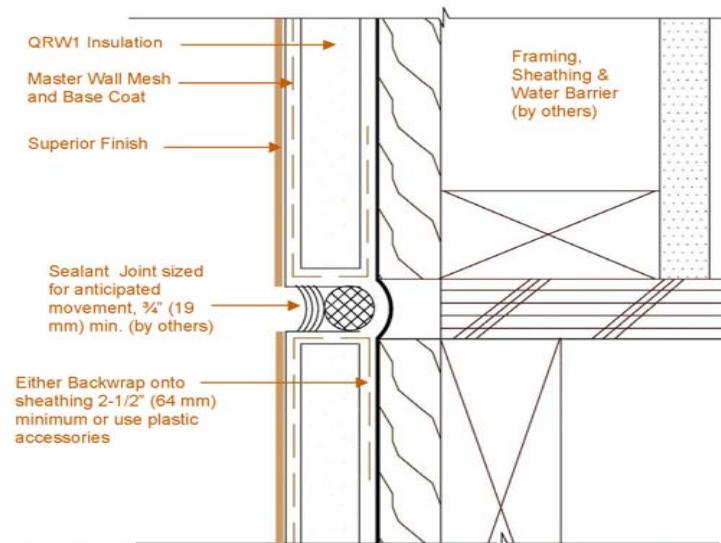
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QR-11 Typical Horizontal Expansion Joint at Floor Line – Wood Frame Construction

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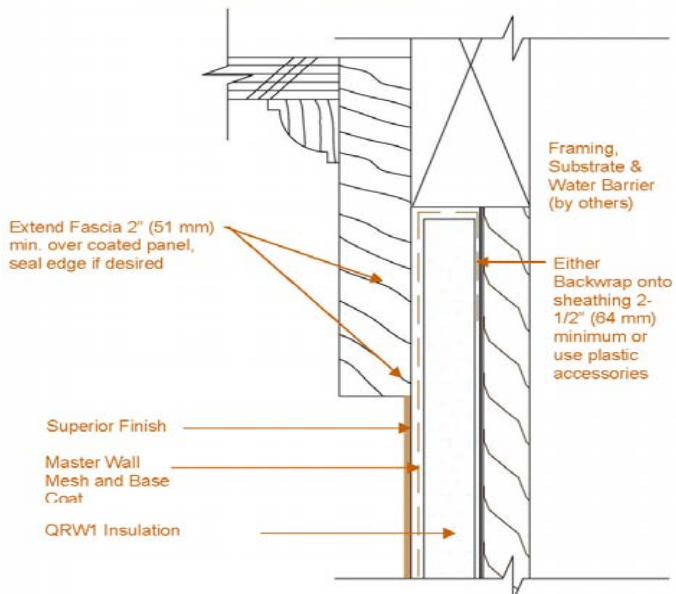
Soffit/Gable

- Casing bead or backwrap termination
- Extend fascia a minimum of 2" (51 mm) over system and seal if desired

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Extend Fascia 2" (51 mm) min. over coated panel, seal edge if desired

Superior Finish

Master Wall Mesh and Base Coat

QRW1 Insulation

Framing, Substrate & Water Barrier (by others)

Either Backwrap onto sheathing 2-1/2" (64 mm) minimum or use plastic accessories

QR-13 Soffit/Gable Termination

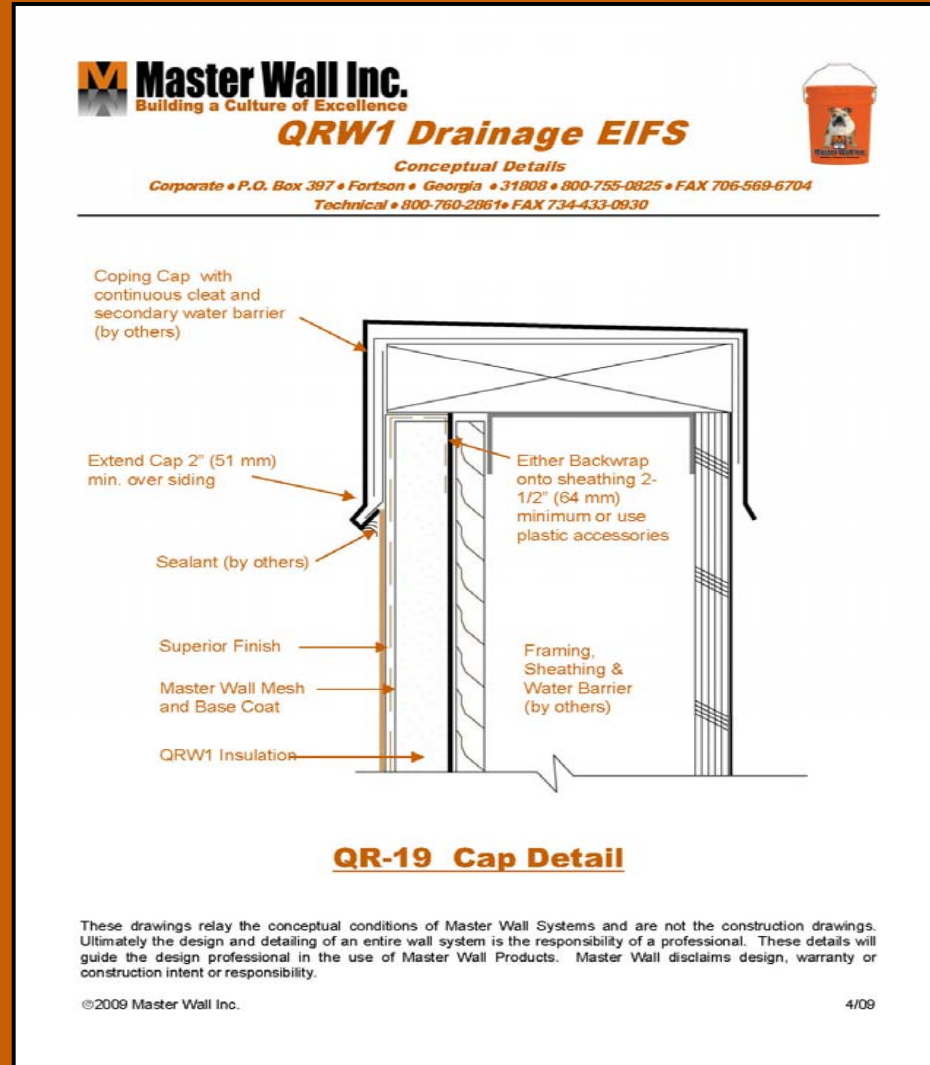
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Parapet Cap

- Casing bead or backwrap termination
- Coping Cap with secondary water barrier
- Extend cap 2" (51 mm) over system and seal the lower edge



Roof Kick Out Flashing

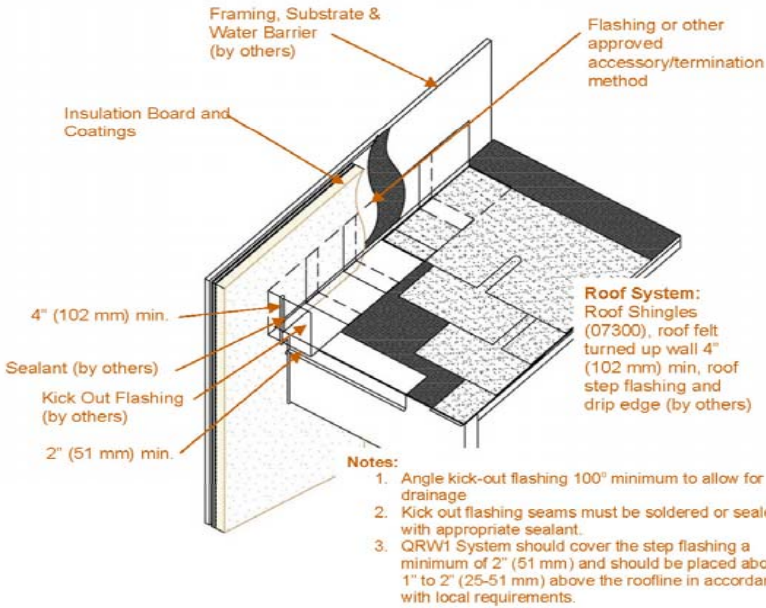
- Directs water to the outer face of the wall
- Set flashing in sealant
- Prefabricated flashings are available

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Framing, Substrate & Water Barrier (by others)

Flashing or other approved accessory/termination method

Insulation Board and Coatings

4" (102 mm) min.

Sealant (by others)

Kick Out Flashing (by others)

2" (51 mm) min.

Roof System:
Roof Shingles (07300), roof felt turned up wall 4" (102 mm) min, roof step flashing and drip edge (by others)

Notes:

1. Angle kick-out flashing 100° minimum to allow for drainage
2. Kick out flashing seams must be soldered or sealed with appropriate sealant.
3. QRW1 System should cover the step flashing a minimum of 2" (51 mm) and should be placed about 1" to 2" (25-51 mm) above the roofline in accordance with local requirements.

QR-22 Typical Roof/Wall Intersection

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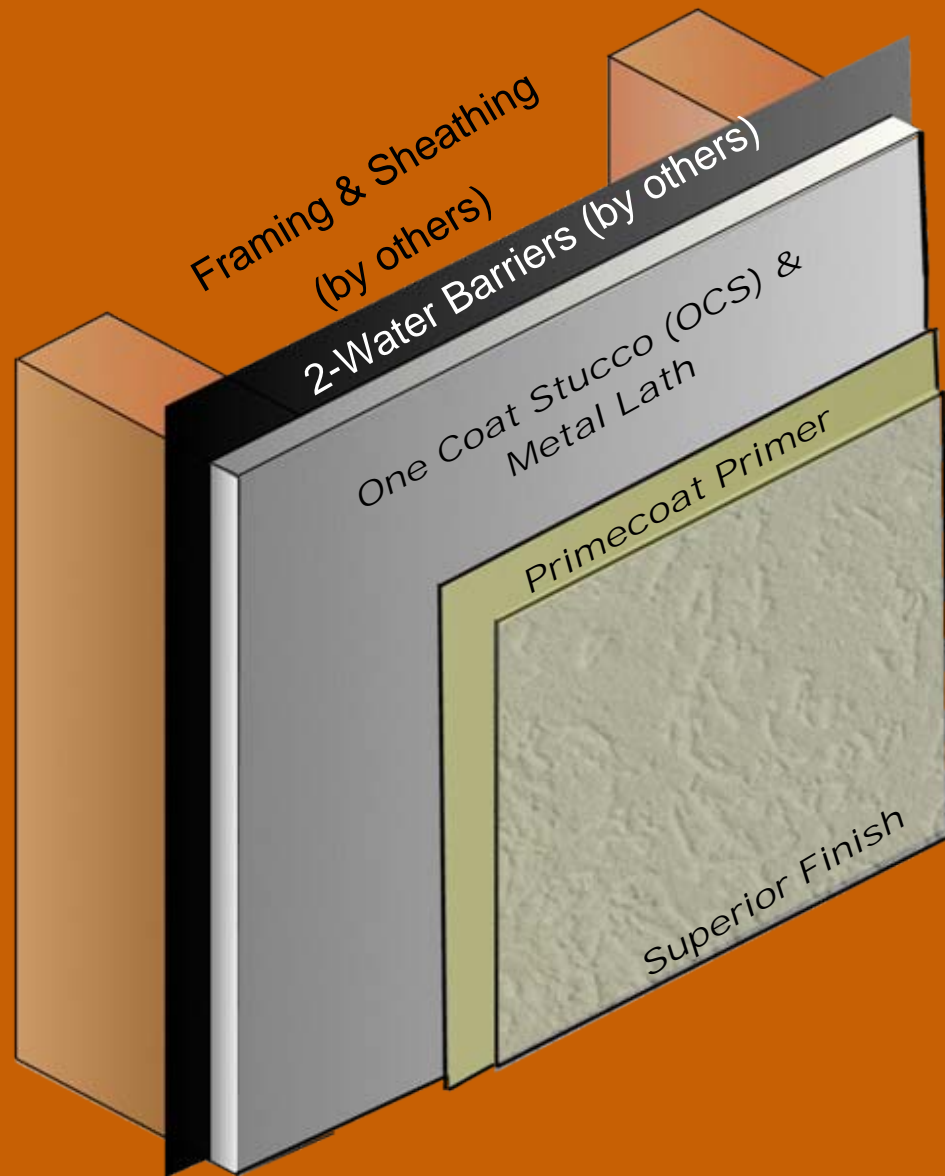


Stucco

One Coat Stucco (OCS) Cemiplaster
Stucco, Finishes over stucco



OCS Components

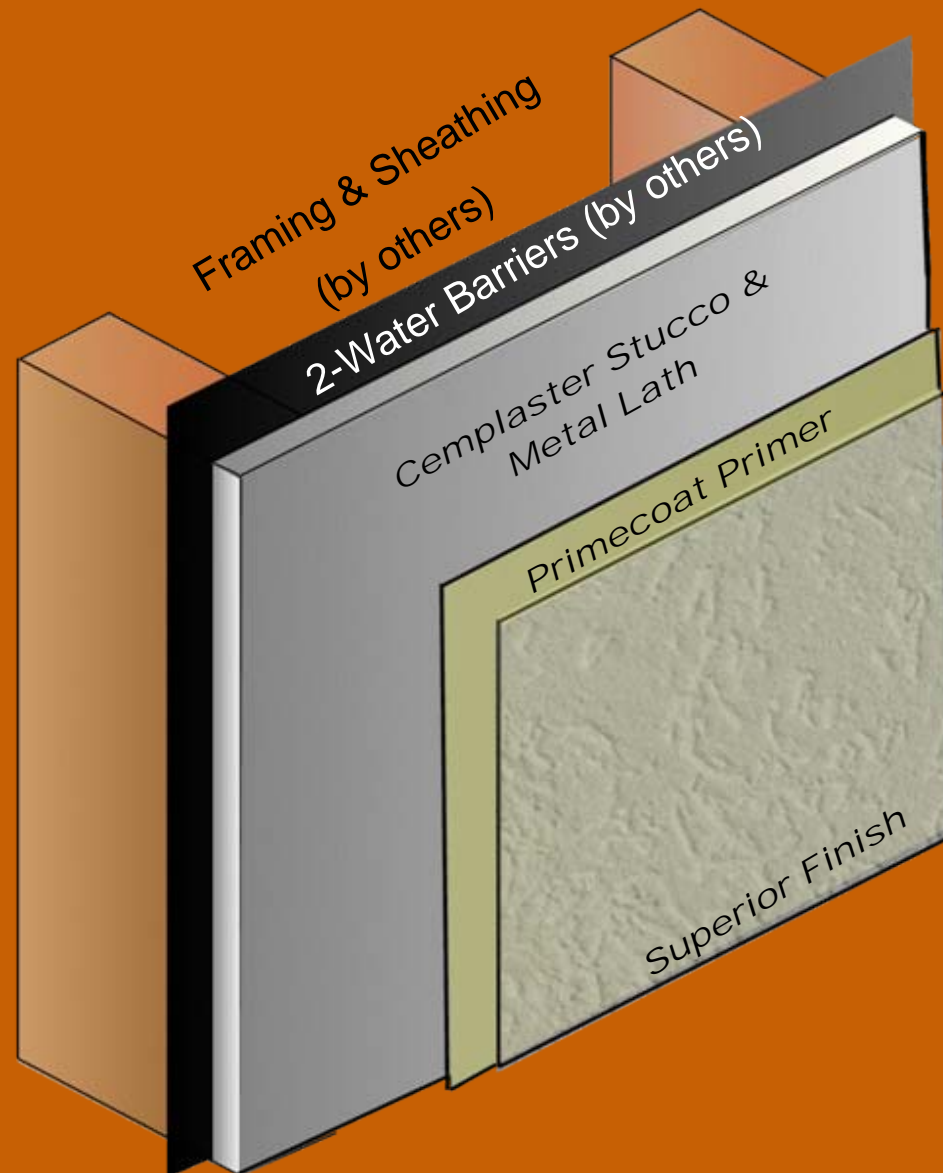


Warranty Options

- Level I
 - OCS and Finish (5-year)
- Level II
 - OCS with Stucco Ad Liquid, Primecoat and Finish (7-year)
- Level III (Option 1)
 - OCS with Stucco Ad Liquid, Leveling Base Coat and Mesh, Primecoat and Finish (10-year)
- Level III (Option 2)
 - OCS with Stucco Ad Liquid, Primecoat and Superior Elastomeric Plus Finish (10-year)
- See sample warranties for specifics



Cemplaster Stucco Components

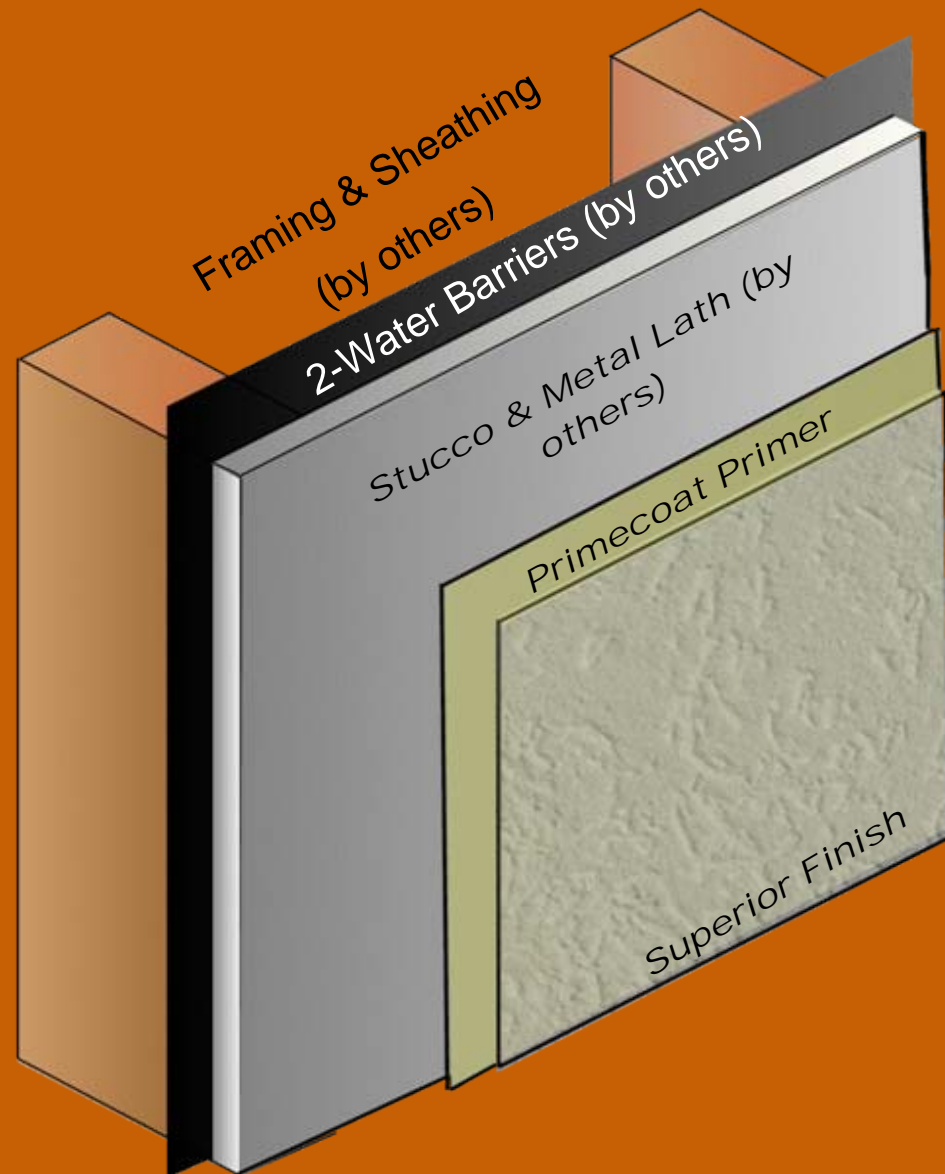


Warranty Options

- Level I
 - Cemplaster Stucco and Finish (5-year)
- Level II
 - Cemplaster Stucco with Stucco Ad Liquid, Primecoat and Finish (7-year)
- Level III (Option 1)
 - Cemplaster Stucco with Stucco Ad Liquid, Leveling Base Coat and Mesh, Primecoat and Finish (10-year)
- Level III (Option 2)
 - Cemplaster Stucco with Stucco Ad Liquid, Primecoat and Superior Elastomeric Plus Finish (10-year)
- See sample warranties for specifics



Finishes over Stucco Components



Finish Options

- Primecoat primer helps equalize finish absorption for a better looking finish
- Superior Elastomeric and Elastomeric Plus are designed to bridge hairline cracking common in stucco



Approved Substrates

- Typical sheathings include brick, masonry, concrete, exterior gypsum sheathing (ASTM C79 and C1177 and plywood/OSB
- Wood sheathing needs to be properly gapped, all sheathings need to be properly fastened
- See product data sheets or contact Master Wall for the appropriate technique
- Substrates not listed in our literature need to be approved in writing



One Coat Stucco System

- Fibered, engineered stucco with a warranty
- Applied thinner than traditional stucco
- For residential or commercial construction



M **One Coat Stucco (OCS) System**
88 24 00 / 09 25 00

Master Wall OCS is an engineered, fiber-reinforced stucco. It offers the durability of traditional stucco with easier application and a thinner cross section.

Common installations include the OCS, some reinforced foam trim aesthetic pieces and a Master Wall Superior Finish. Best of all, the OCS and Finish are both included in our limited warranty.

Features & Benefits

- 5, 7 & 10-year warranties available

Approved Substrate & Framing
2-Weather-Resistive Barriers
One Coat Stucco & Metal Lath
Primecoat Primer (optional)
Superior Finish

available
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030109



One Coat Stucco

- Very hard and durable
- Always over a water barrier when sheathings are used.
- Limited aesthetics compared to EIFS
- Requires more skill in application compared to EIFS
- Acrylic additives improve performance
- Elastomeric finishes work better over cracks



One Coat Stucco Design Principles

- Minimum deflection of $L/360$
- Flashings used to direct water to the exterior
- 2-Weather Barriers (minimum #15 felt)
- Control Joints over sheathing
 - To limit cracking, max. area 144 sf (13.4 sm)
 - Length to width no more than 2.5:1
 - At dissimilar substrates
- Sealant bridges between the One Coat Stucco System and wall penetration
- Plastic or metal trims are used
- Use expansion joints where movement is anticipated



Water Barriers and Substrates

What to look for before you begin work



Review of Substrate/Water Barrier

- Check the following prior to beginning work
 - Substrate smooth, even with $\frac{1}{4}$ " in 10' maximum variation
 - Wood panels properly gapped
 - Water barrier & flashings properly installed to shed water
- Water barriers need to be installed to prevent water entry
- Advise Architect, General Contractor or Owner in writing if these conditions are not met



Details

One Coat Stucco (OCS)



Cross Section

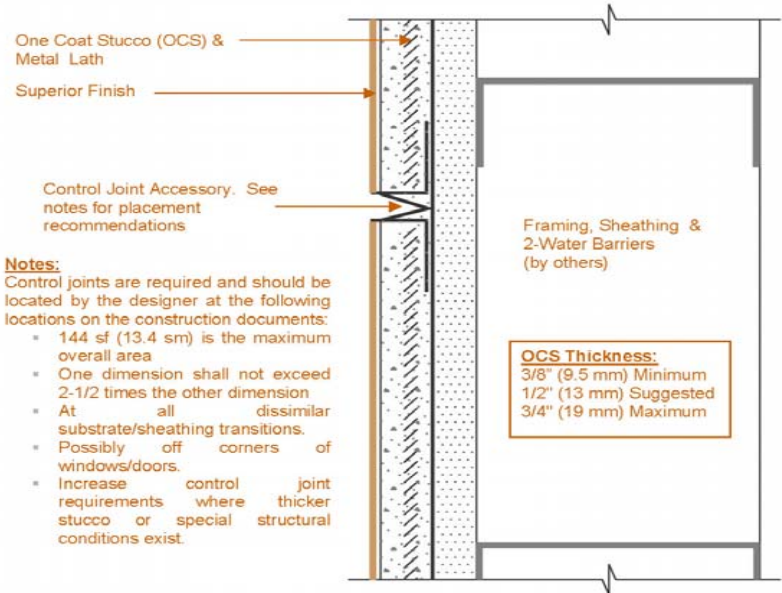
- Designer to locate control joints where needed
- 1/2" (13 mm) is the typical thickness over metal lath

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One Coat Stucco (OCS) & Metal Lath

Superior Finish

Control Joint Accessory. See notes for placement recommendations

Framing, Sheathing & 2-Water Barriers (by others)

OCS Thickness:
3/8" (9.5 mm) Minimum
1/2" (13 mm) Suggested
3/4" (19 mm) Maximum

OCS-01 Cross-Section


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Concrete/Masonry Application

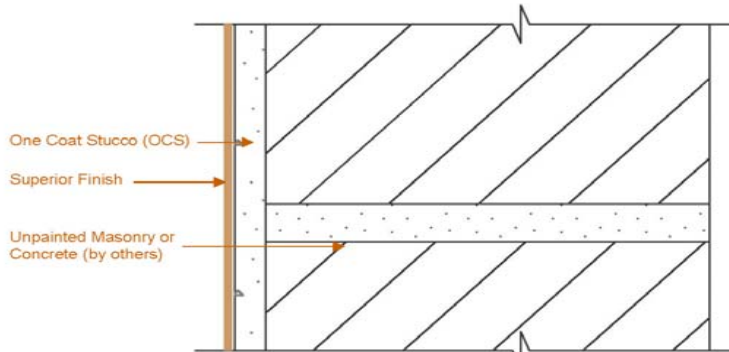
- Masonry joints should be struck flush
- Control joint at masonry/concrete control joint locations
- Typically applied 3/8" (9.5 mm) thick



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One Coat Stucco (OCS)

Superior Finish

Unpainted Masonry or Concrete (by others)

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

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

OCS Thickness:
3/8" (9.5 mm) Minimum
1/2" (13 mm)
5/8" (16 mm) Maximum

OCS-02 Cross-Section

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OCS Isometric

- Primer is optional for the standard application
- Level II option adds Stucco Ad Liquid and Primecoat

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Framing, Sheathing & 2-Water Barriers (by others)

One Coat Stucco (OCS) & Metal Lath

Primecoat Primer
• Optional for Level I
• Required for Level II & III

Superior Finish
• Superior Elastomeric Plus for Level III, Option 2

Termination Accessory

OCS-03 Cross-Section Isometric


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OCS Isometric

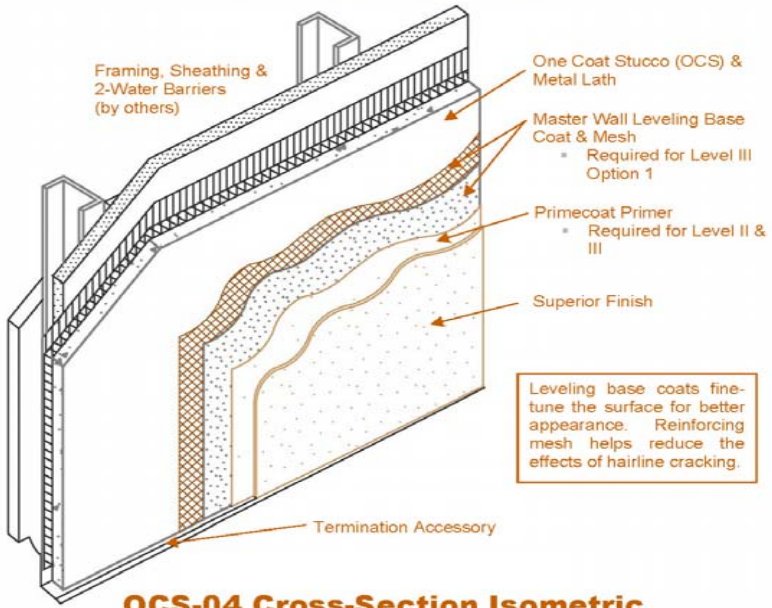
- Leveling base coat and mesh fine-tunes the aesthetics and can help reduce cracking

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OCS-04 Cross-Section Isometric

Leveling base coats fine-tune the surface for better appearance. Reinforcing mesh helps reduce the effects of hairline cracking.

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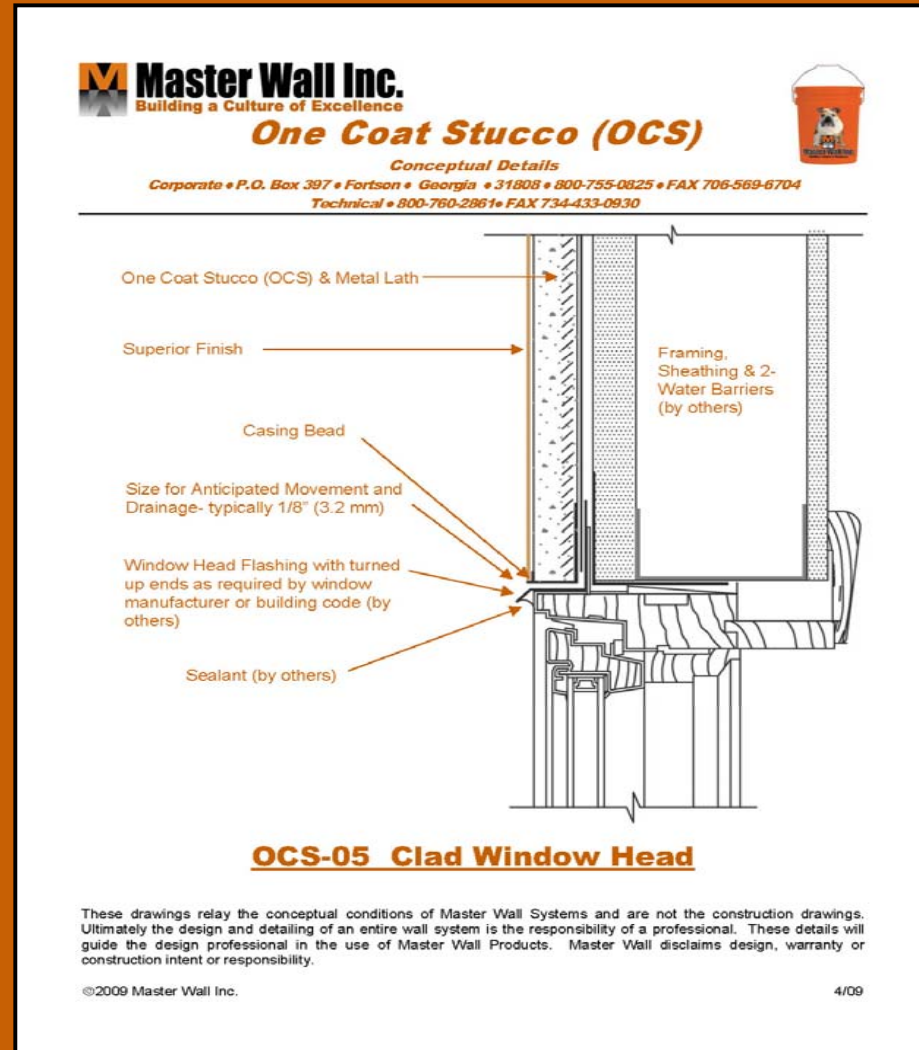
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Clad Window Head

- Use casing beads to terminate OCS
- Leave about 1/8" (3.2 mm) above head flashing for drainage



Wood Window Head

- Use casing beads to end the OCS
- Head flashing is always used
- Leave about 1/8" (3.2 mm) above head flashing for drainage

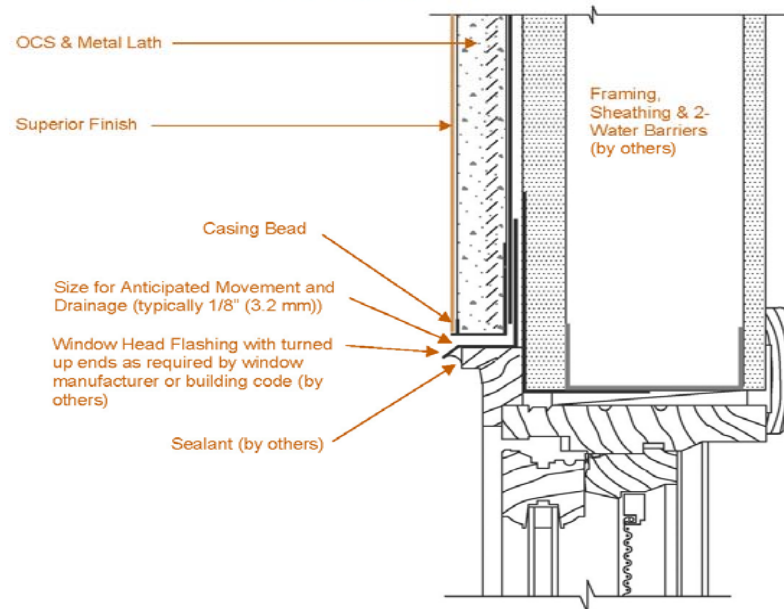
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OCS-06 Typical Wood Window Head Detail

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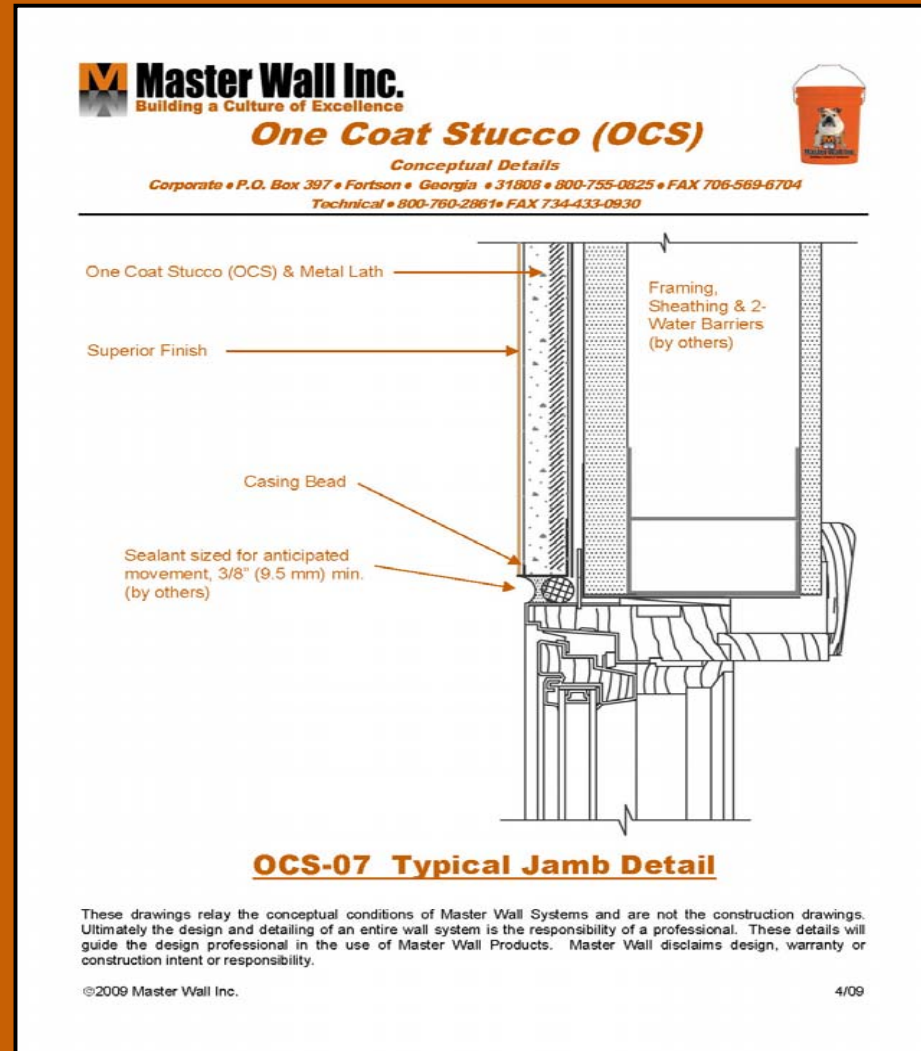
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Window Jamb

- Place casing bead about 3/8" (9.5 mm) away from window
- Seal with quality sealant (by others)
- Fillet-type sealant joints could also be used with a closer spacing



Window Sill

- Place casing bead about 3/8" (9.5 mm) away from window
- Seal with quality sealant (by others)
- Fillet-type sealant joints could also be used with a closer spacing

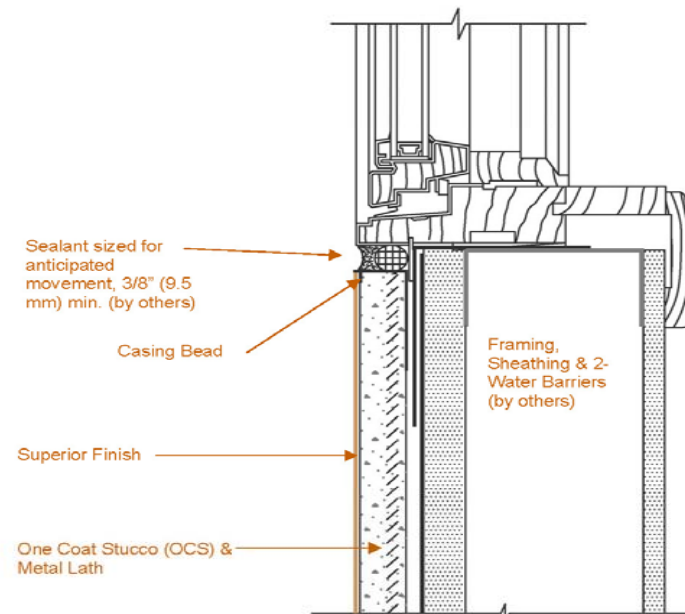


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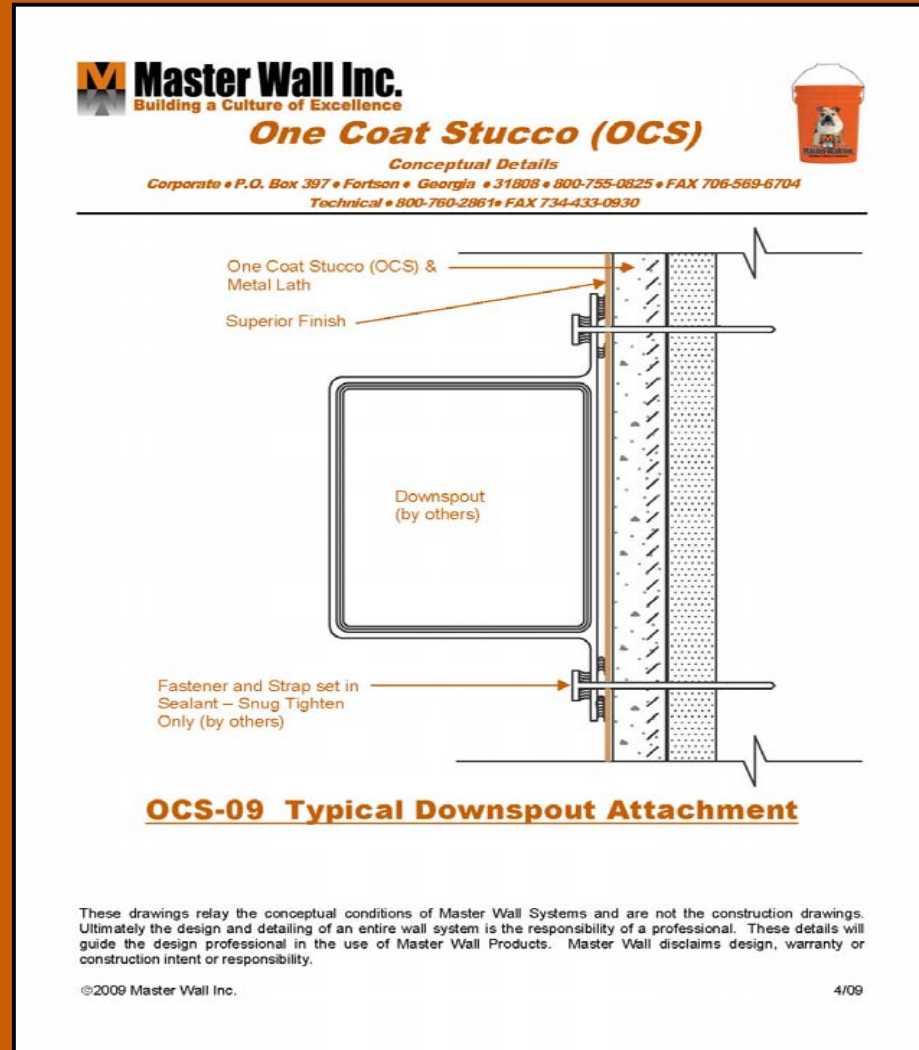
OCS-08 Typical Sill Detail

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Downspout

- Take care not to overdrive fasteners
- Set straps and fasteners in sealant



Floor Line Expansion Joint

- Allows for cross-grain shrinkage in dimensional lumber
- Leave a $\frac{3}{4}$ " (19 mm) minimum gap between boards
- Water barrier runs continuously

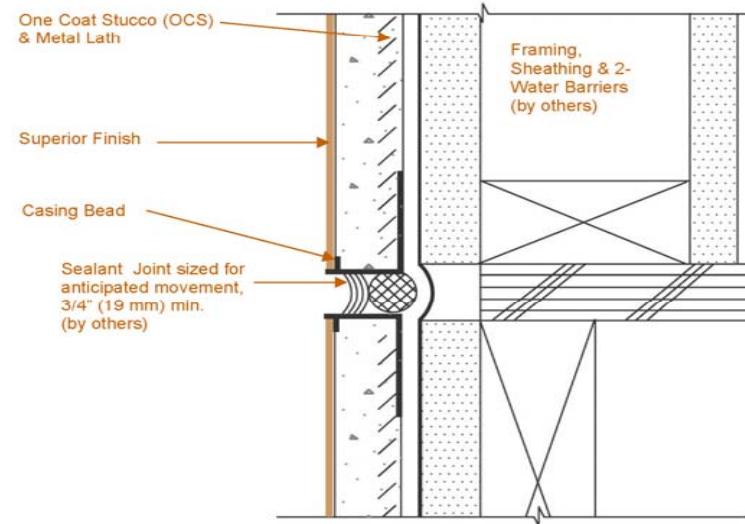
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OCS-10 Typical Horizontal Expansion Joint at Floor Line – Wood Frame Construction

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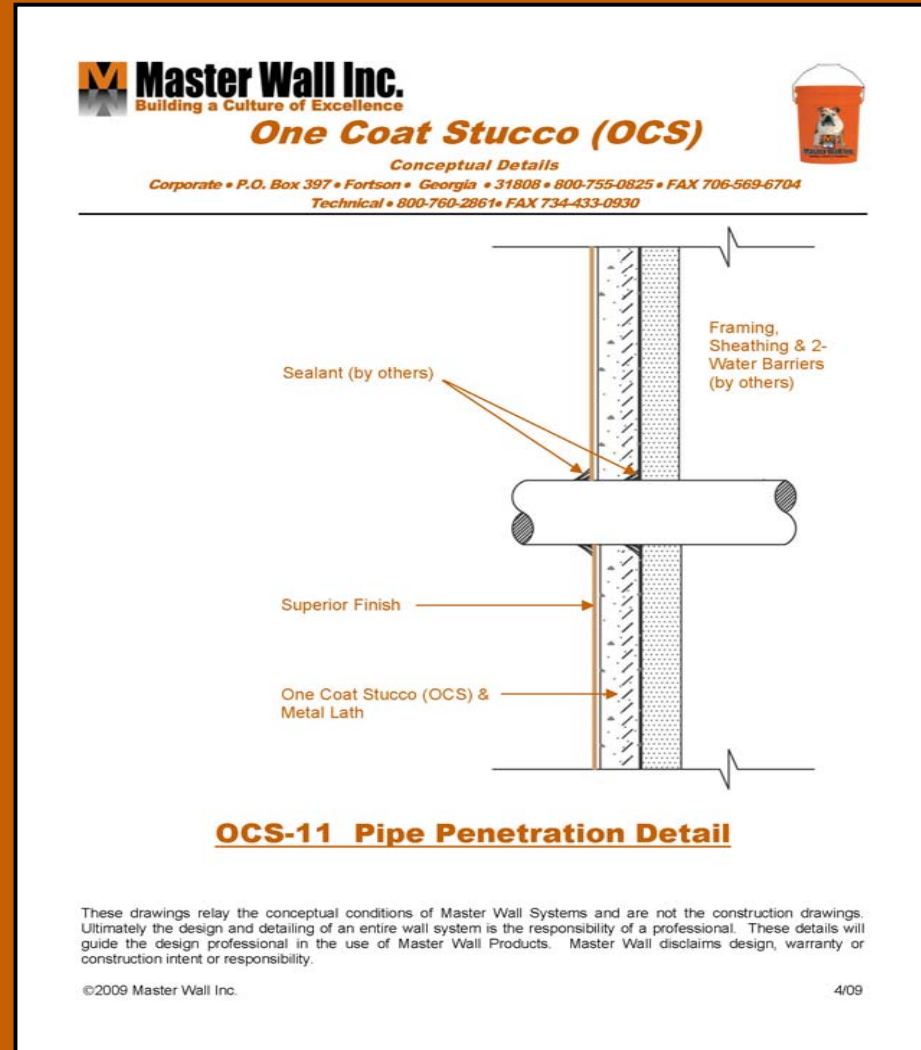
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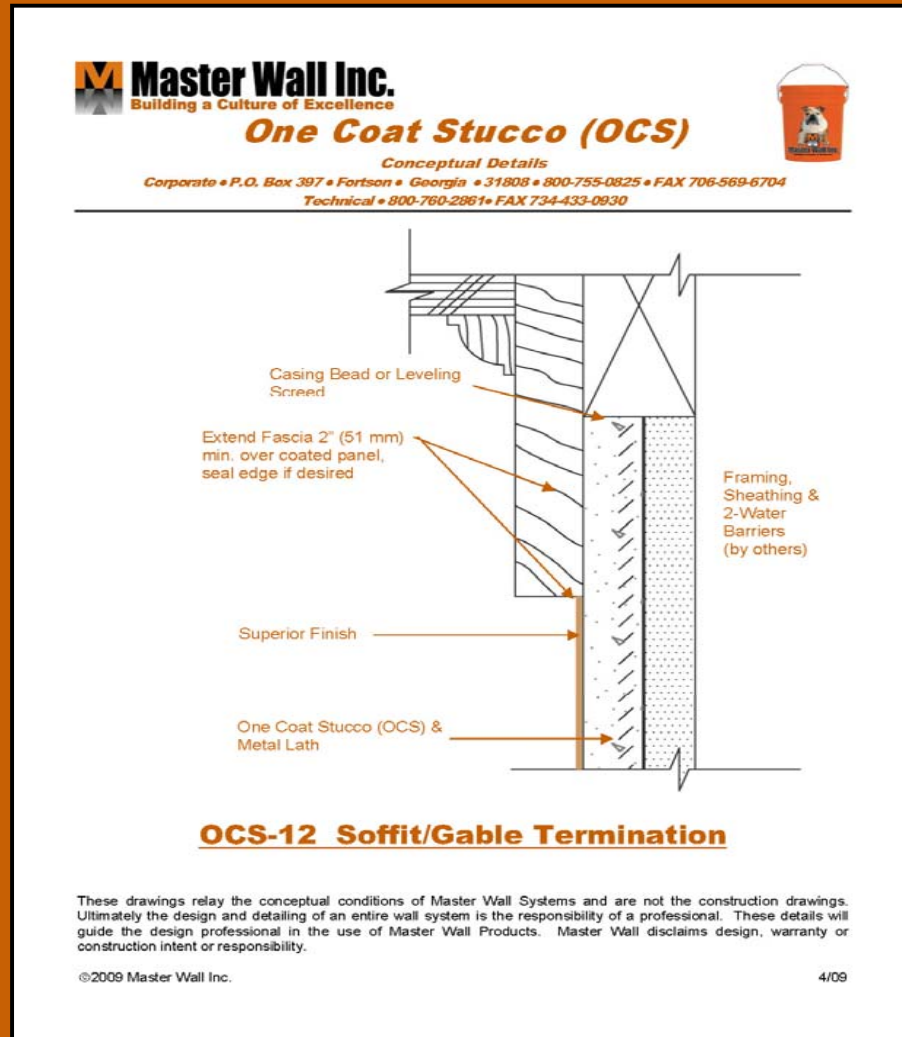
Pipe Penetration

- Place OCS closely to pipe penetration
- Seal both the water barrier and exterior of the pipe (by others)



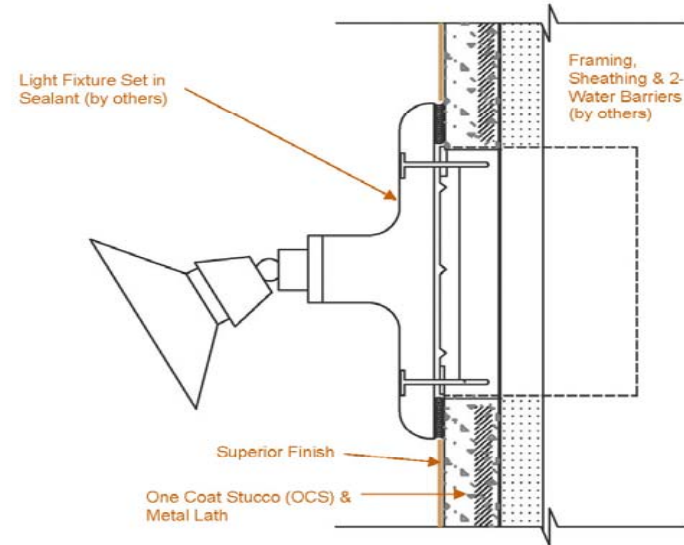
Soffit/Gable Termination

- Extend Fascia or Gable end at least 2" (51 mm) over OCS
- Sealant can be used if needed (by others)



Light Fixture

- Place OCS closely to light box
- Electrical contractor to set light fixture in sealant



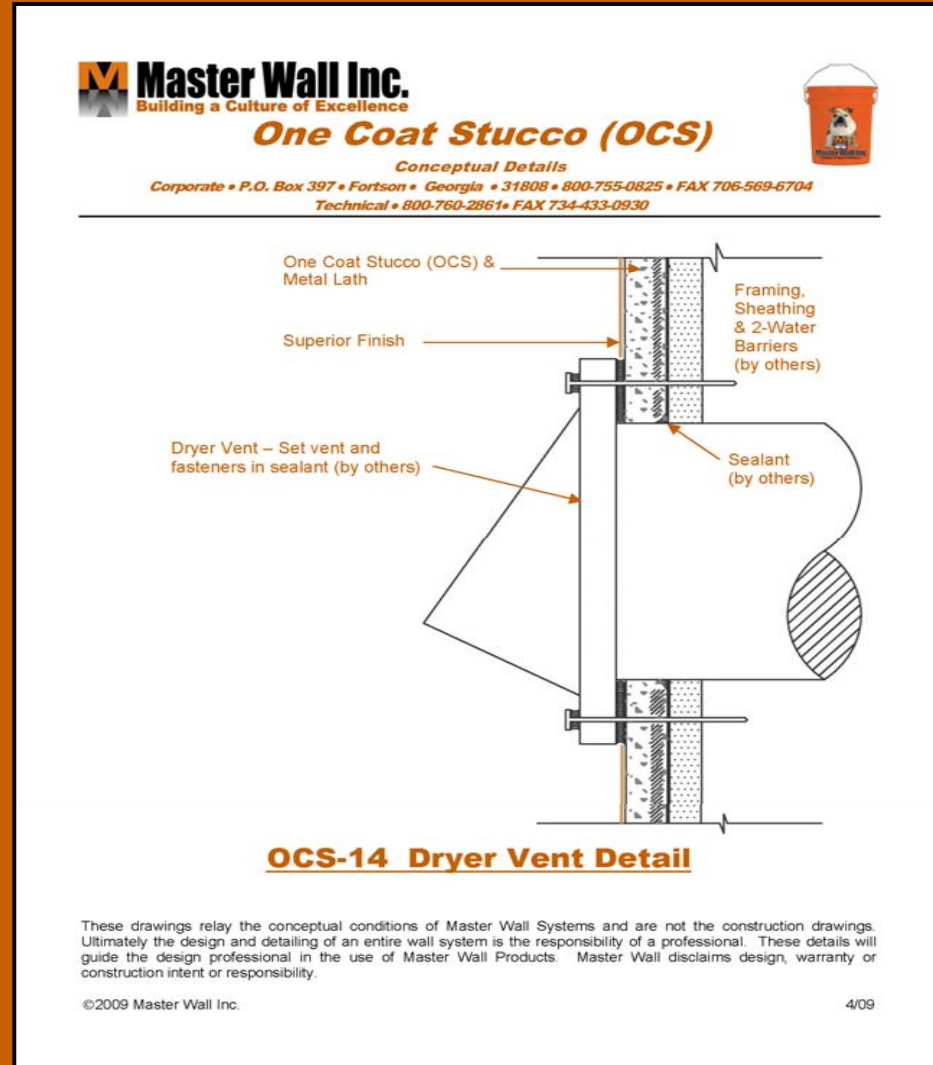
OCS-13 Typical Light Fixture

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Dryer Vent

- Place OCS closely to the dryer vent
- Seal water barrier (by others)
- Set dryer vent and fasteners in sealant



Foundation Detail – Weep Screed

- Level stucco weep screed, place at least 1" (25 mm) over foundation
- Run Water Barrier into weep screed
- Keep siding at least 6" (152 mm) above grade




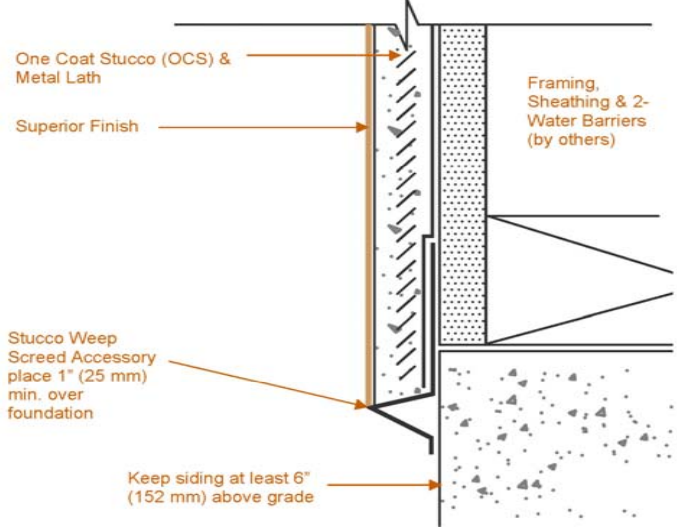
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One Coat Stucco (OCS) & Metal Lath

Superior Finish

Stucco Weep Screed Accessory place 1" (25 mm) min. over foundation


Keep siding at least 6" (152 mm) above grade

Framing, Sheathing & 2-Water Barriers (by others)

OCS-15 Termination at Foundation Detail

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Foundation Detail – Casing Bead

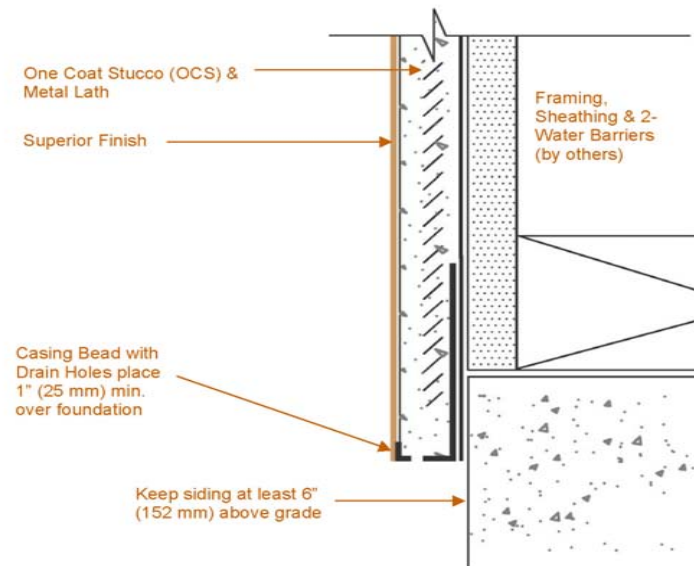
- Level drainage type casing bead, place at least 1" (25 mm) over foundation
- Run water barrier behind casing bead
- Keep siding at least 6" (152 mm) above grade

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OCS-16 Termination at Foundation Detail

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Termination at Deck

- Allow room for deck flashing maintenance



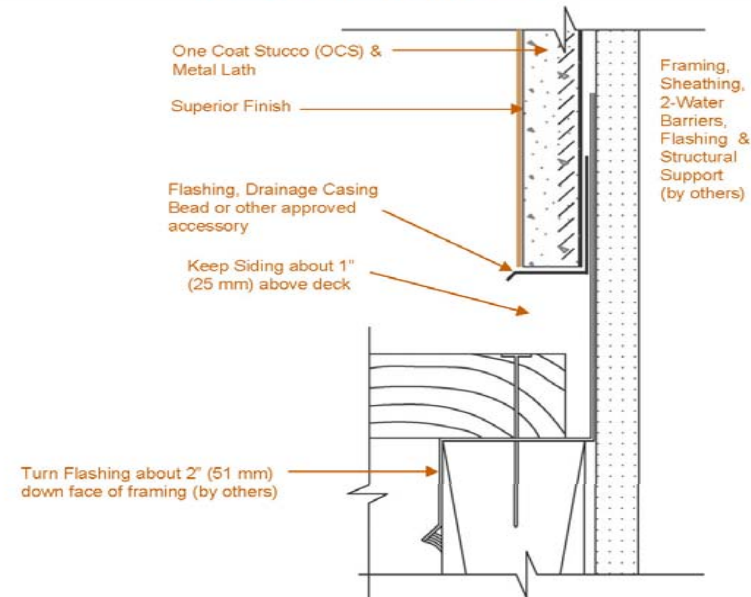
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OCS-17 Termination at Decking

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Termination Under Deck

- Extend deck flashing at least 2" (51 mm) over the cement board, seal the lower edge (by others)

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Framing, Sheathing, 2-Water Barriers, Flashing & Structural Support (by others)

Casing Bead

Turn Flashing about 2" (51 mm) down face of siding, seal lower edge (by others)

Superior Finish

One Coat Stucco (OCS) & Metal Lath

OCS-18 Termination Under Deck

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Coping Cap

- Coping cap extends 2" (51 mm) over OCS
- Seal lower edge (by others)

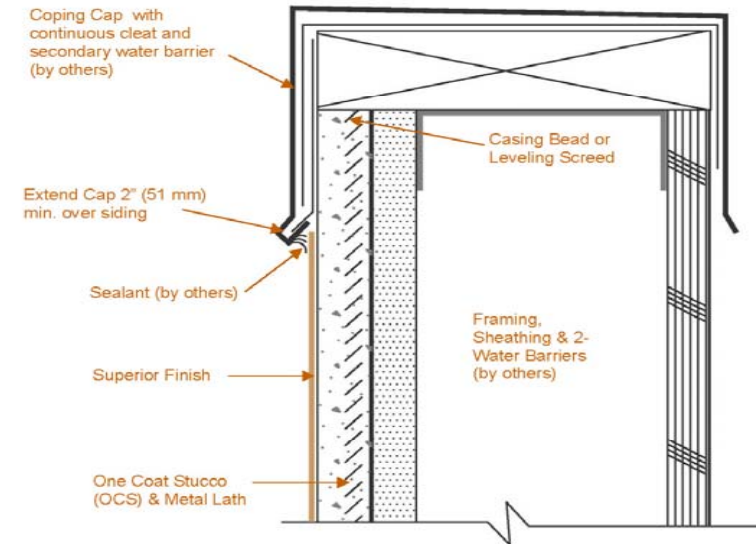
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OCS-19 Cap Detail

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EPS Shape

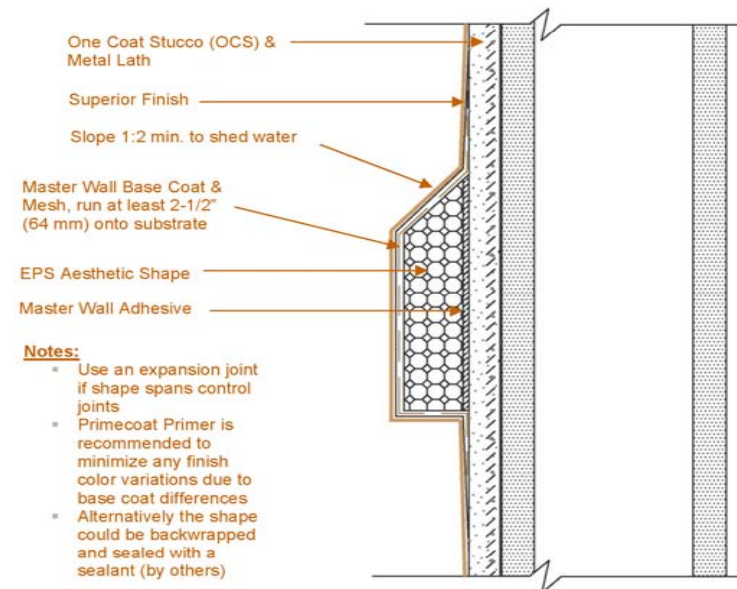
- Adhere foam shape with Master Wall adhesives
- Slope top 1:2 minimum to shed water



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Notes:

- Use an expansion joint if shape spans control joints
- Primecoat Primer is recommended to minimize any finish color variations due to base coat differences
- Alternatively the shape could be backwrapped and sealed with a sealant (by others)

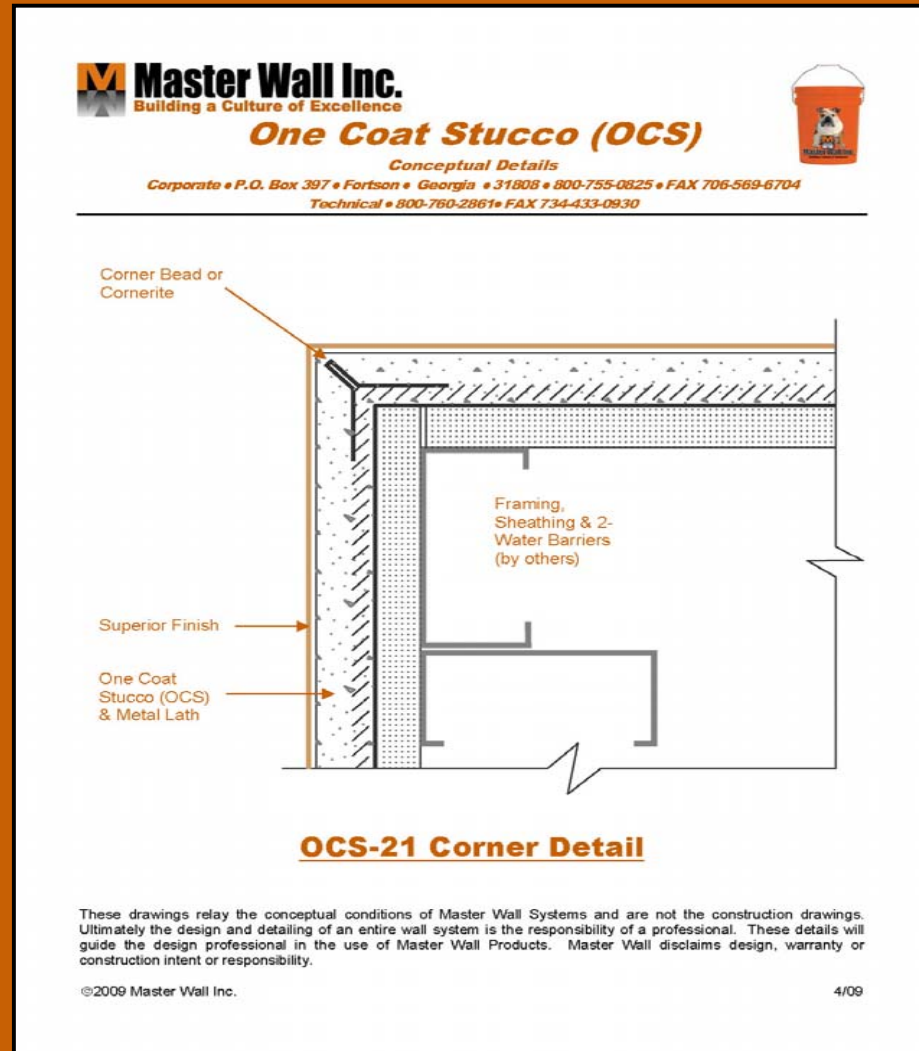
OCS-20 EPS Shape Detail

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Corner Detail

- Use stucco corner bead or corner aid at corners



Roof Kick Out Flashing

- Directs water to the outer face of the wall
- Set flashing in sealant
- Prefabricated flashings are available

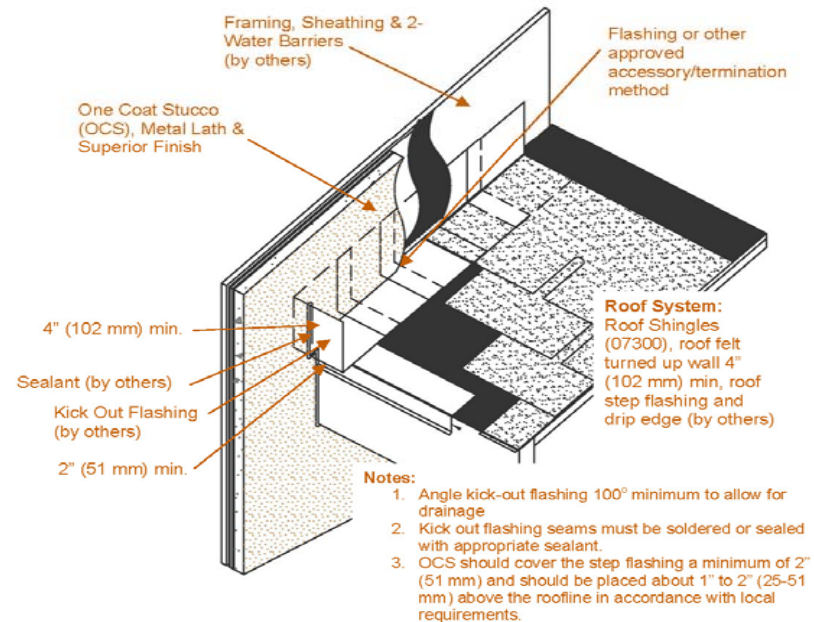


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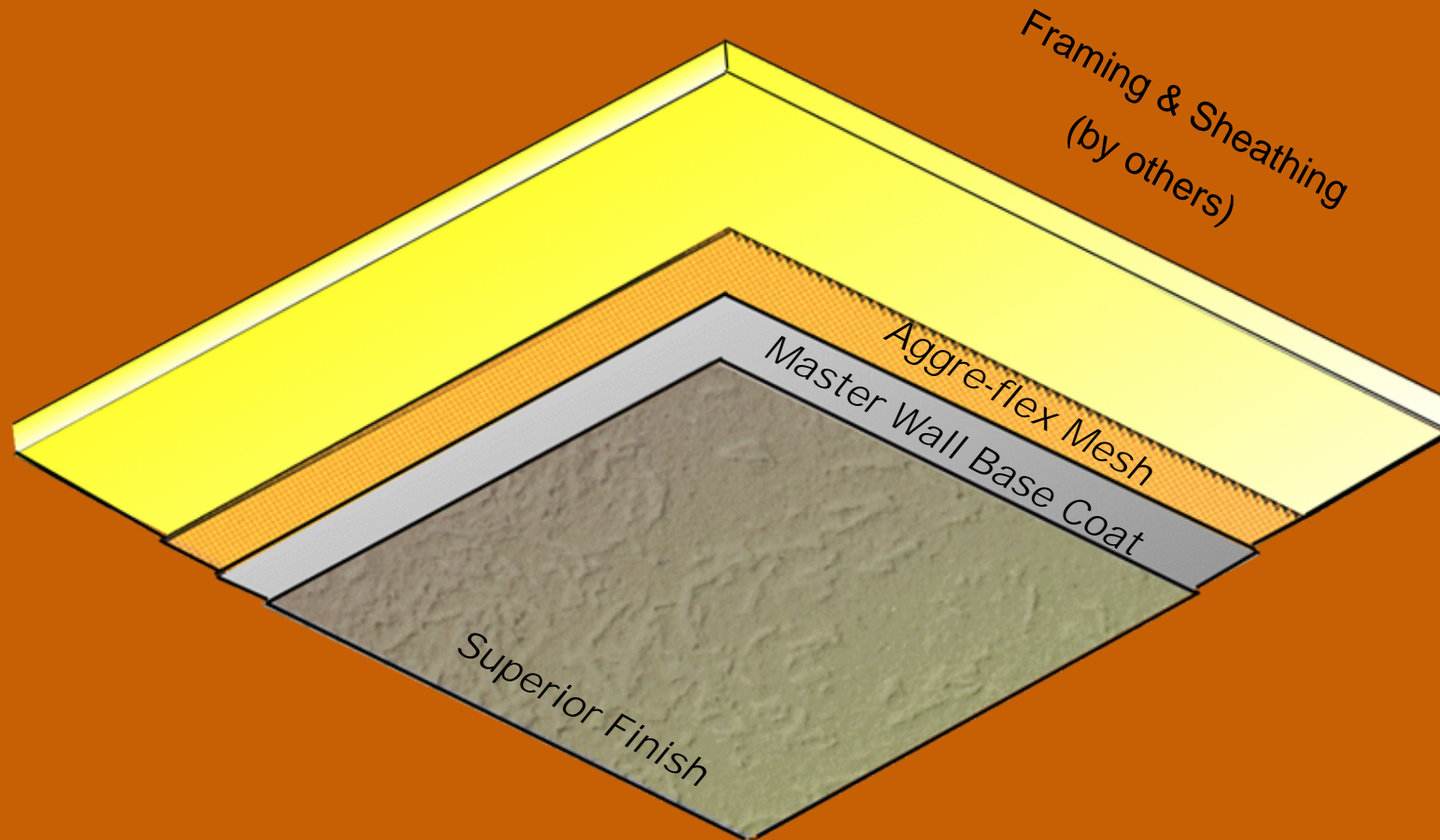


OCS-22 Typical Roof/Wall Intersection

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Soffit System Components



Soffit System Design Principles

- Depending upon control joint manufacturer, sometimes double studs are required under control joints
 - Verify with architect, general contractor or Master Wall in that order
- Expansion joints are required at building expansion joints, prefabricated panel joints, where substrates change, at floor lines in wood framed construction and where structural movement is anticipated



Soffit System Design Principles

- Substrate deflection $L/360$ or less
- System breaks at penetrations
- Sealant bridges between the Soffit System and wall penetration
- Plastic trims are usually used to end the system at terminations
- Control joints are required at the following locations
 - No more than 20 lineal feet (6.1 m) in any direction
 - 160 square feet (15 sm) maximum overall area
 - One dimension shall not exceed 2-1/2 times the other
 - At all dissimilar substrate transitions




Details

Soffit System




Cross Section

- Designer to locate control joints where needed



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Soffit System

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Framing & Sheathing (by others)

Plastic Control Joint Accessory, Plastic Components 22027-16 or equal. See notes for placement recommendations

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

- Maximum length shall not exceed 20 lineal feet (6.1 m) in any direction
- 160 sf (15 sm) is the maximum overall area
- One dimension shall not exceed 2-1/2 times the other dimension

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


Superior Finish

Master Wall Mesh and Base Coat

SOF-01 Cross-Section and Control Joints


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Angled Termination

- Angled casing bead is used at termination

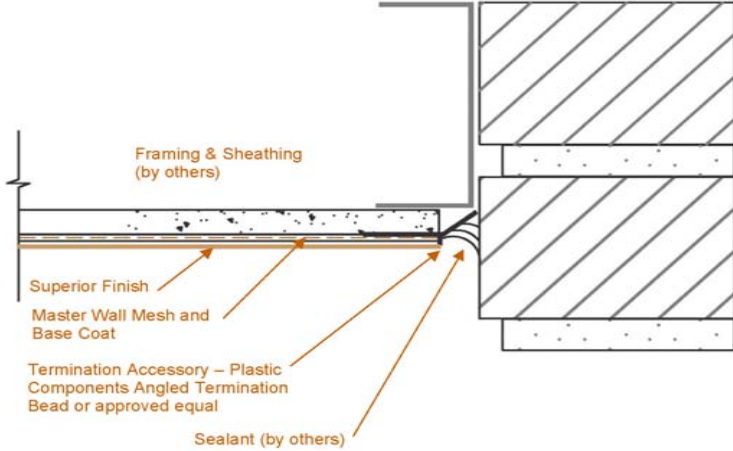
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Soffit System

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SOF-02 Termination with Accessory

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J Termination

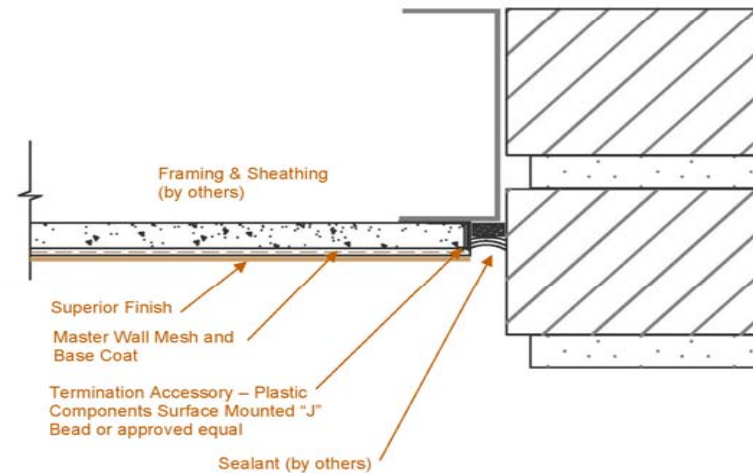
- J type casing used to terminate the system



Soffit System

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SOF-03 Termination with Accessory


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Backwrap Termination

- Base coat and mesh are used to encapsulate the board ends

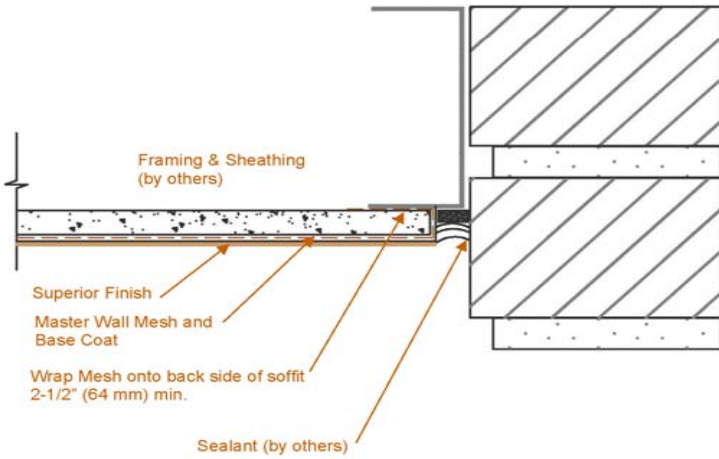
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Soffit System

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Framing & Sheathing
(by others)

Superior Finish

Master Wall Mesh and
Base Coat

Wrap Mesh onto back side of soffit
2-1/2" (64 mm) min.


Sealant (by others)

SOF-04 Termination with Backwrap

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Miter Termination

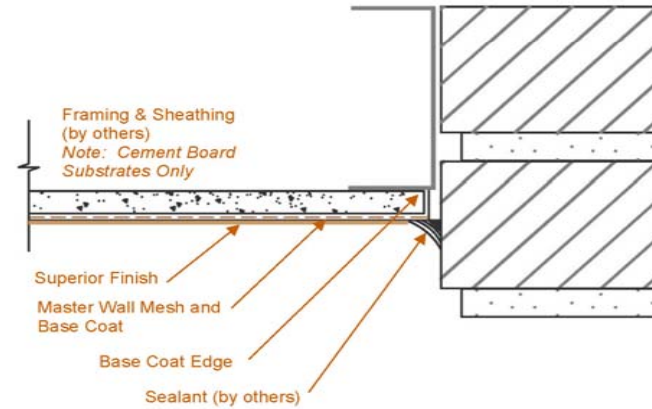
- If cement board is used edges can be coated
- Termination is sealed with a fillet-type sealant joint



Soffit System

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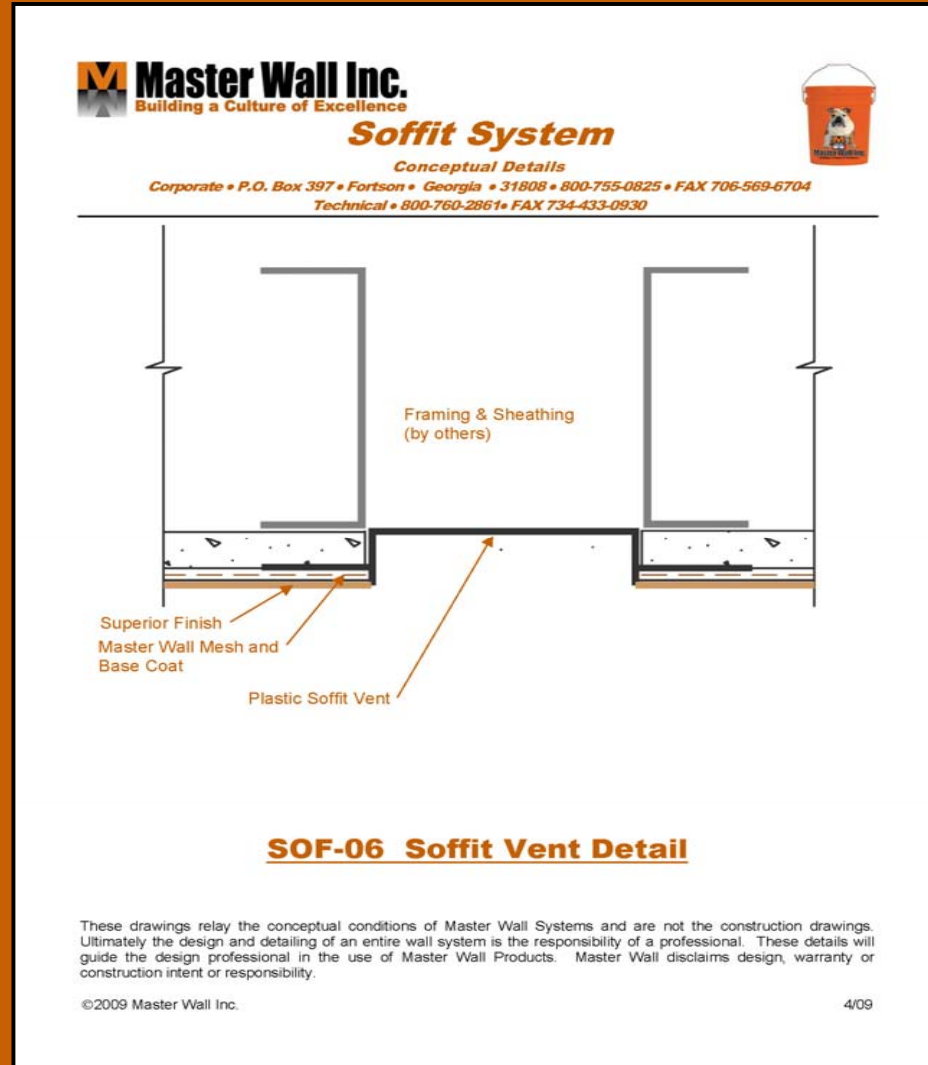
SOF-05 Miter Termination

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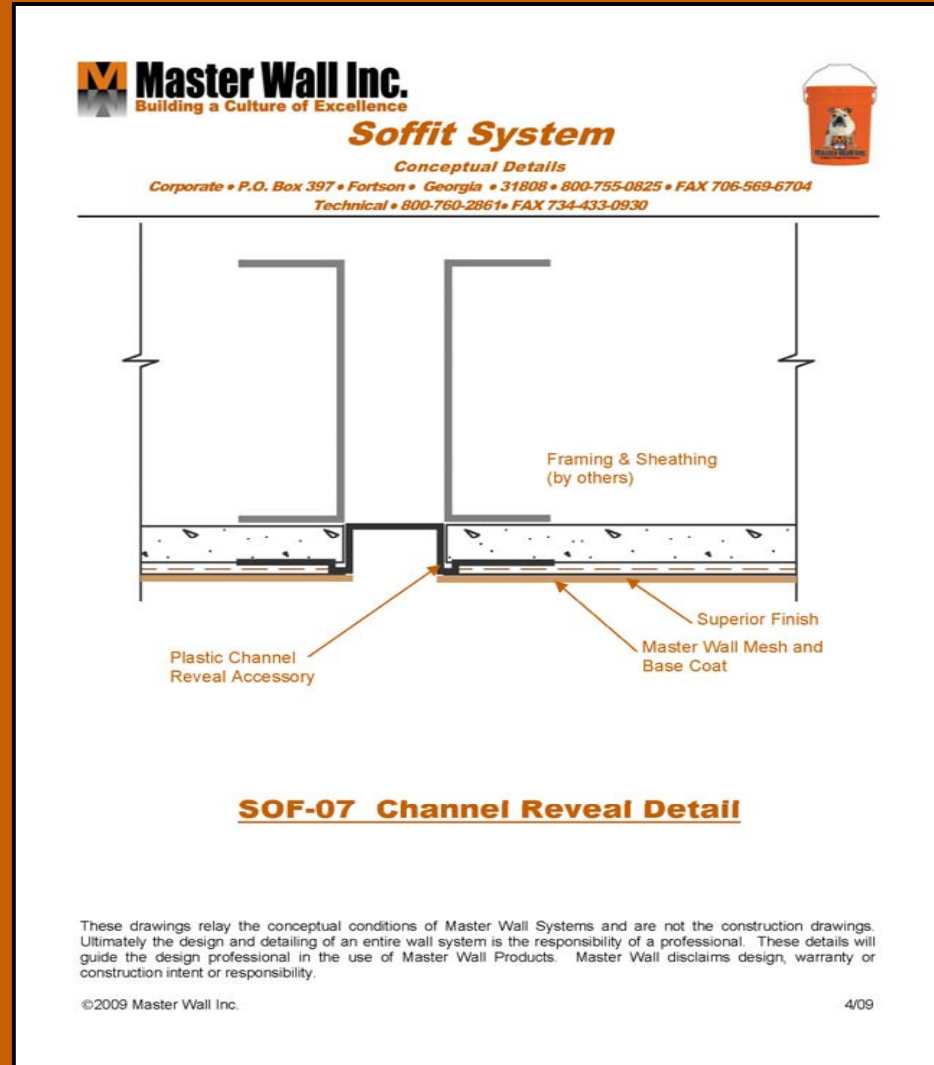
Soffit Vent Detail

- Plastic soffit vent is incorporated into the soffit
- Note double studs for support



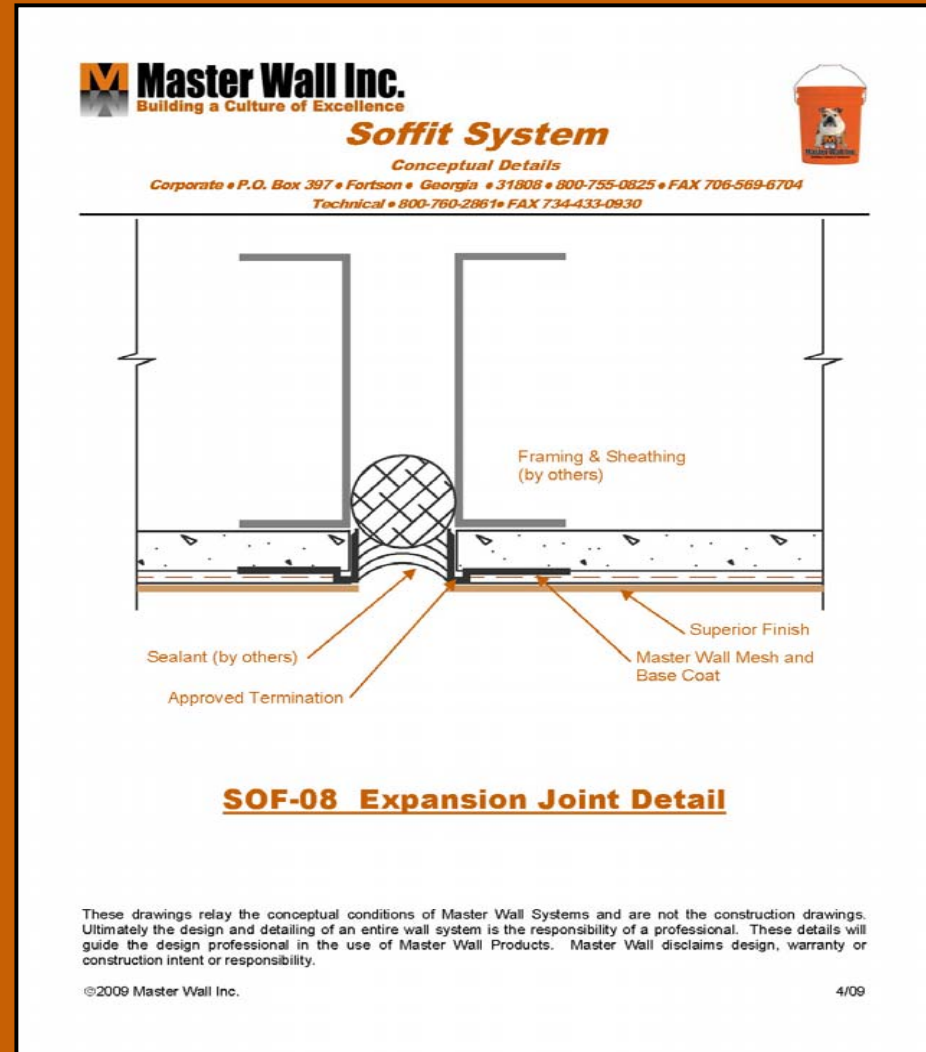
Channel Reveal

- Decorative element easily added to the soffit
- Various widths are available

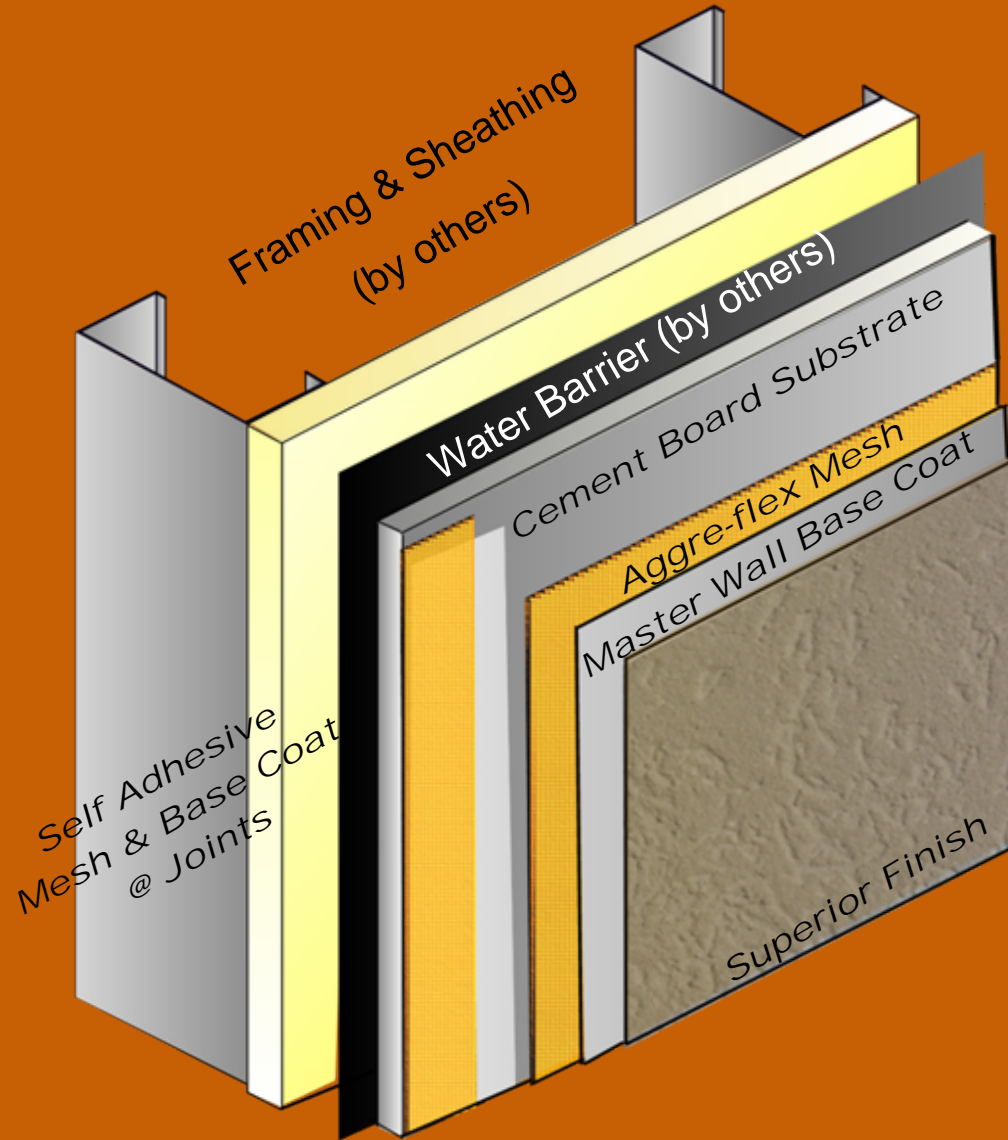


Expansion Joint

- Required where building expansion occurs



Stucco Cement Board Coating Components



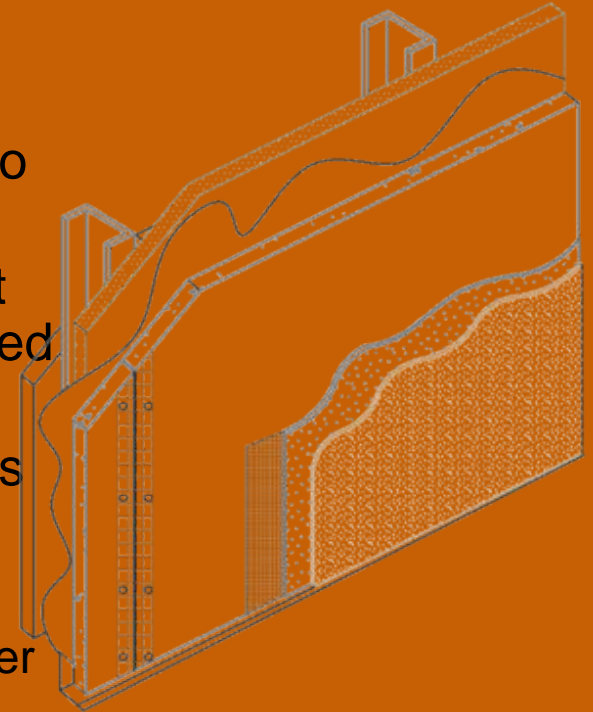
Cement Board Stucco Coatings Design Principles

- Depending upon control joint manufacturer, sometimes double studs are required under control joints
 - Verify with architect, general contractor or Master Wall in that order
- Expansion joints are required at building expansion joints, prefabricated panel joints, where substrates change, at floor lines in wood framed construction and where structural movement is anticipated
- Applications below the 4000 heating degree day line may be applied over framing and water barrier if appropriate lateral resistance is incorporated into the wall framing



Cement Board Stucco Coatings Design Principles

- Substrate deflection $L/360$ or less
- System breaks at penetrations
- Sealant bridges between the Cement Board Stucco Coatings and wall penetration
- Usually substrate edges are coated with base coat but drainage-type plastic trims are occasionally used depending upon the design
- Control joints are required at the following locations
 - No more than 20 lineal feet in any direction
 - 160 square feet maximum overall area
 - One dimension shall not exceed 2-1/2 times the other
 - At all dissimilar substrate transitions



Review of Substrate/Water Barrier

- Check the following prior to beginning work
 - Substrate smooth, even with $\frac{1}{4}$ " in 10' maximum variation
 - Wood panels properly gapped
 - Water barrier & flashings properly installed to shed water
- Water barriers need to be installed to prevent water entry
- Advise Architect, General Contractor or Owner in writing if these conditions are not met



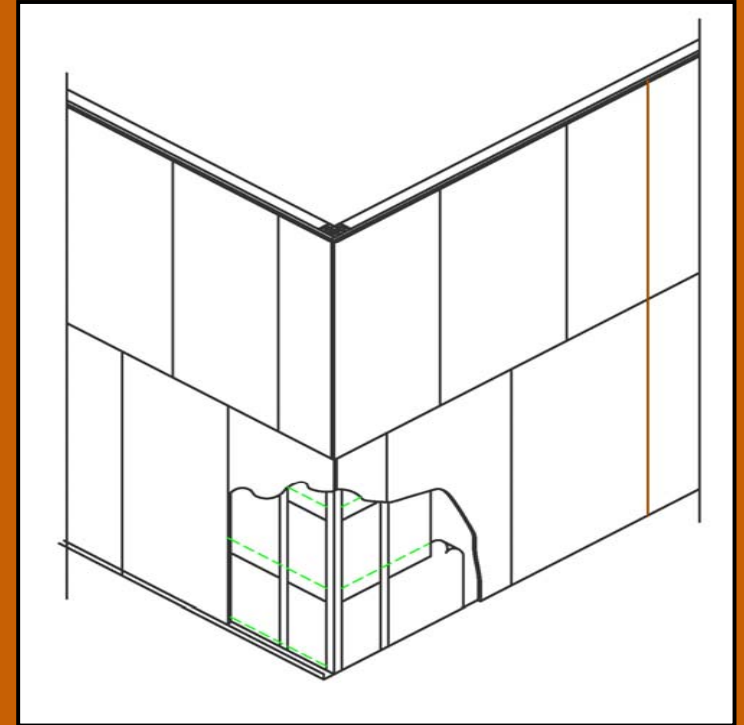
Attach Drainage Track or Flashing

- Drainage tracks are available in different styles
- Attach drainage track at the bottom of the assembly and fasten every 6" to 8" (152-204 mm)
- Run track onto foundation at least 1" (25 mm)
- Lap water barrier into the drainage track
- Attach casing bead at other terminations in a similar manner



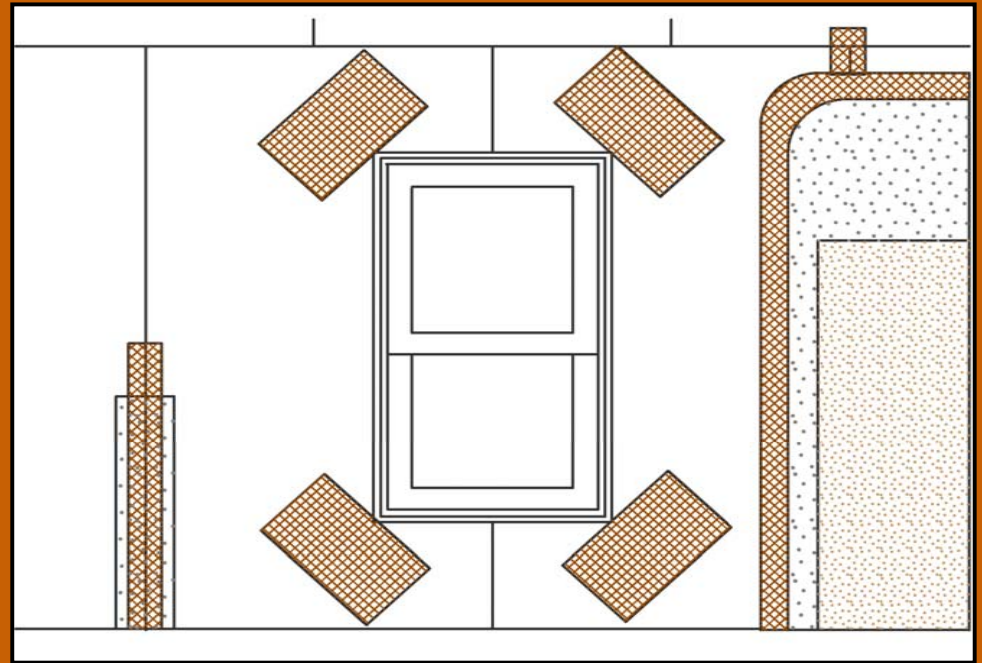
Cement Board Layout

- Install cement board vertically
- Offset cement boards from the corners of openings
- Stagger the cement board joints from the sheathing joints by at least 6" (152 mm)
- Stagger upper and lower cement board joints



Cement Board Application

- Cut your cement board to width so the joints will not align with heads and sills of openings
- Interlock the inside and outside corners



Details


Stucco Cement Board Coatings



Cross Section

- Designer to locate control joints where needed

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Stucco Cement Board Coatings

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Cement Board Substrate

Master Wall Mesh and Base Coat

Superior Finish

Plastic Control Joint
Accessory, Plastic
Components 22027-16 or
equal. See notes for
placement recommendations

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

- Maximum length shall not exceed 20 lineal feet in any direction
- 160 sf is the maximum overall area
- One dimension shall not exceed 2-1/2 times the other dimension
- At all dissimilar substrate/sheathing transitions

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



SC-01 Cross-Section

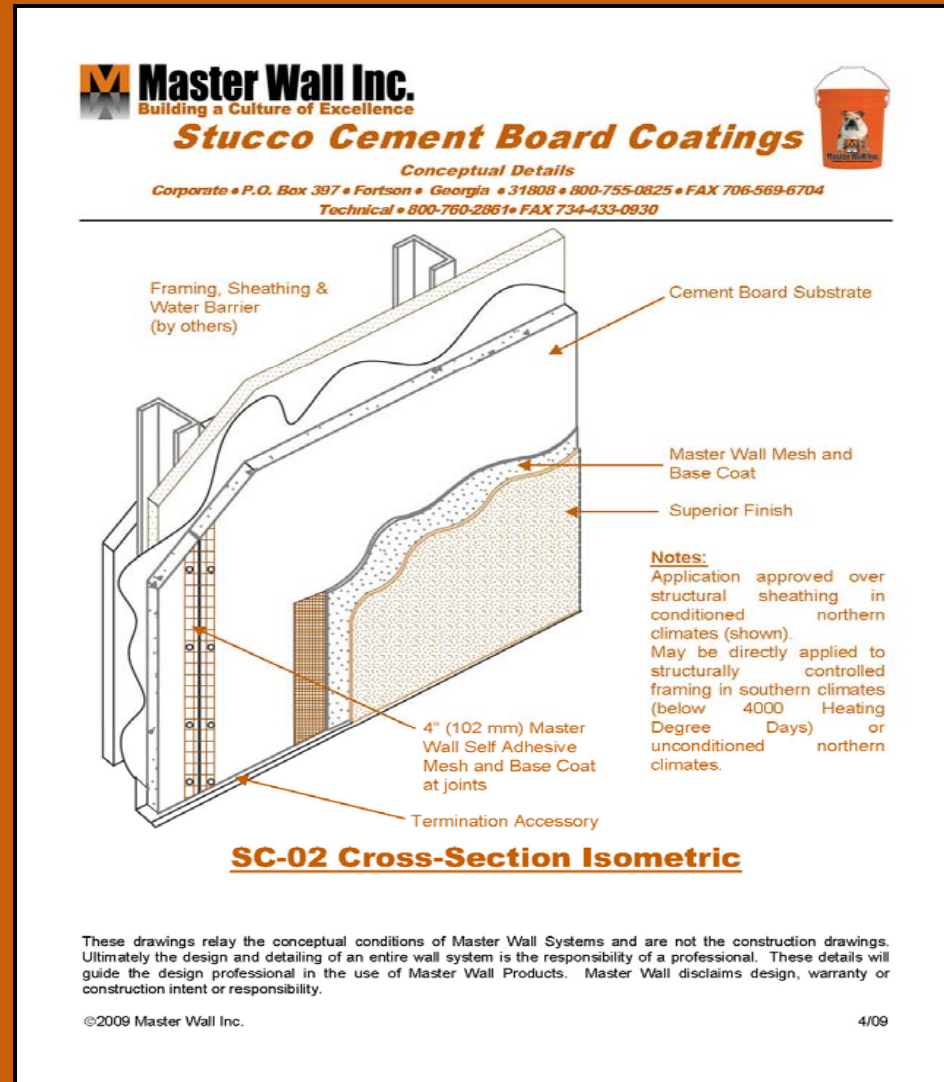
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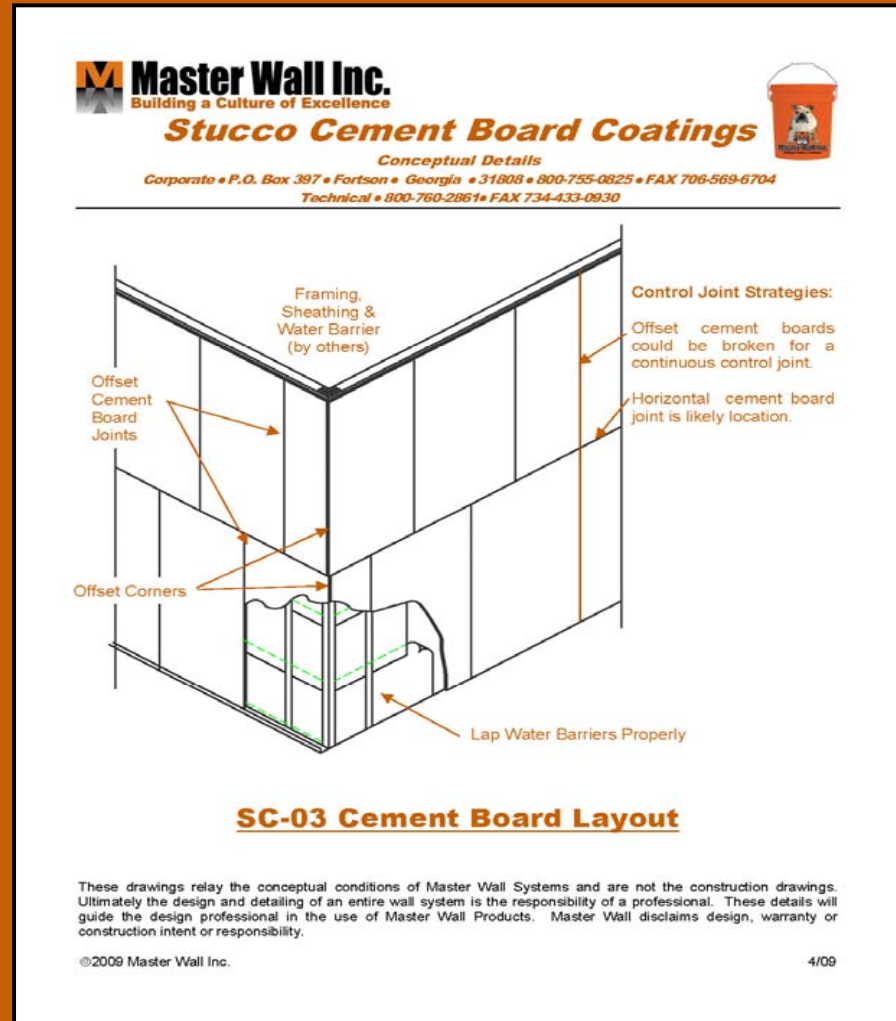
Stucco Cement Board Isometric

- Cement board is installed over framing, sheathing and a water barrier
- Depending upon climate a sheathing may not be necessary



Cement Board Layout

- Install cement boards vertically
- Interlock inside and outside corners
- Plan installation so cement boards do not line up with window and door corners
- Stagger cement board joints above



Reinforcing Mesh

- Apply 4" (102 mm) Self Adhesive Mesh and base coat at board joints
- Reinforce corners of openings
- Apply full layer of base coat and Standard Mesh

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Offset Cement Board Joints

9" x 12" (229x305 mm) Diagonal Mesh at Corners

4" (102 mm) Master Wall Self Adhesive Mesh and Base Coat

Offset Cement Board Joints from Corners

Master Wall Mesh and Base Coat

Superior Finish

Notes:

- Typical detailing for windows, doors and other openings
- Designer to size sealant joint for anticipated movement, minimum 3/8" (9.5 mm) sealant joint by sealant contractor
- Flashing may be required by others

SC-04 Typical Reinforcing Mesh Application

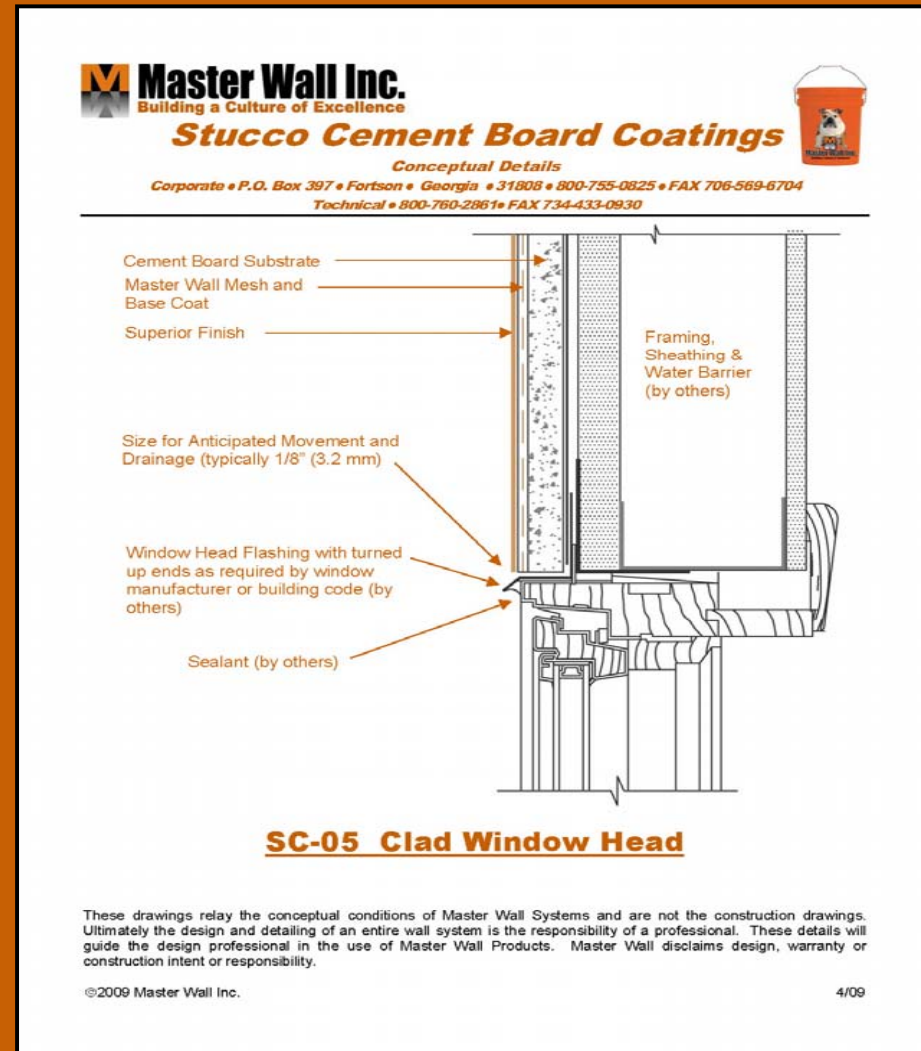
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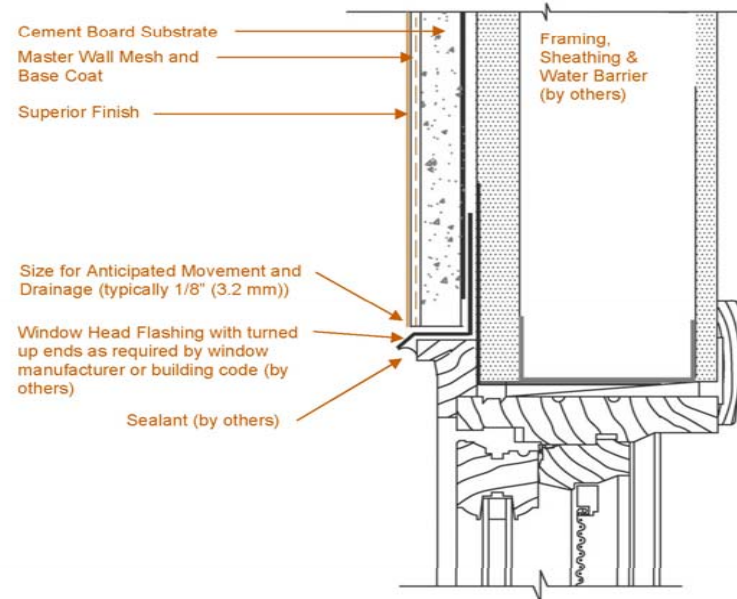
Clad Window Head

- Plastic trim accessories could be used
- Leave about 1/8" (3.2 mm) above head flashing for drainage



Wood Window Head

- Plastic trim accessories could be used
- Leave about 1/8" (3.2 mm) above head flashing for drainage



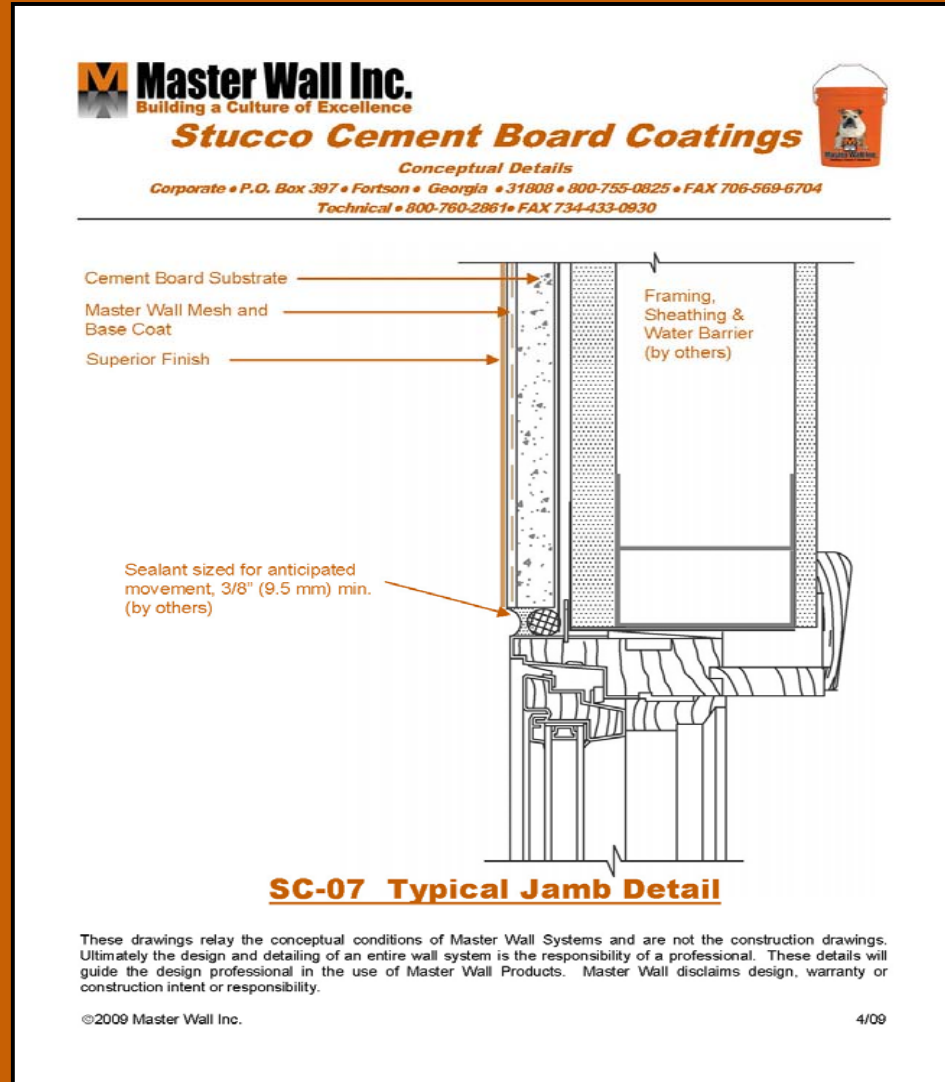
SC-06 Typical Wood Window Head Detail

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Window Jamb

- Keep cement board about 3/8" (9.5 mm) away from window
- Seal with quality sealant (by others)
- Fillet-type sealant joints could also be used with a closer spacing



Window Sill

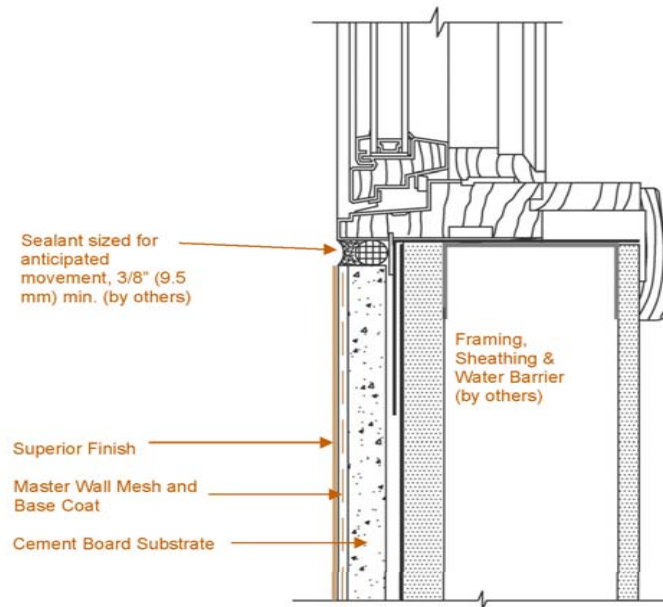
- Keep cement board about 3/8" (9.5 mm) away from window
- Seal with quality sealant (by others)
- Fillet-type sealant joints could also be used with a closer spacing

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Stucco Cement Board Coatings

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SC-08 Typical Sill Detail

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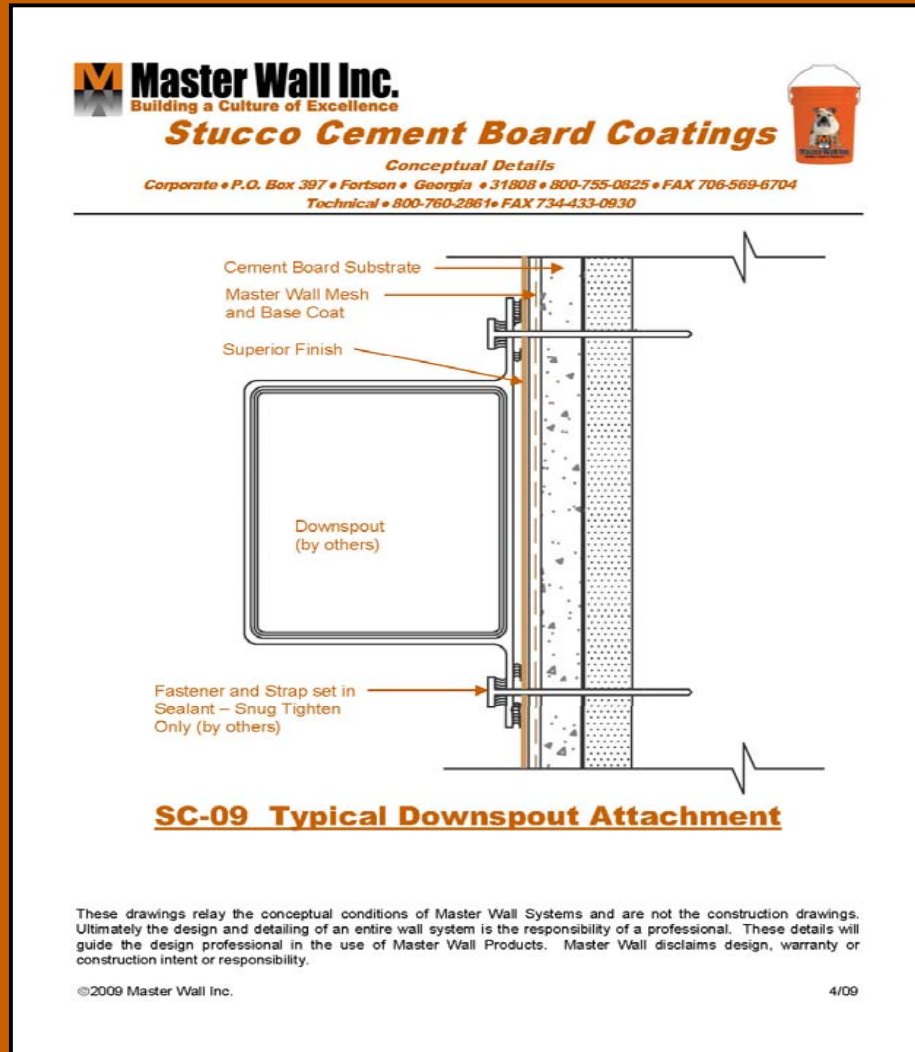
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Downspout

- Take care not to overdrive fasteners
- Set straps and fasteners in sealant



Floor Line Expansion Joint

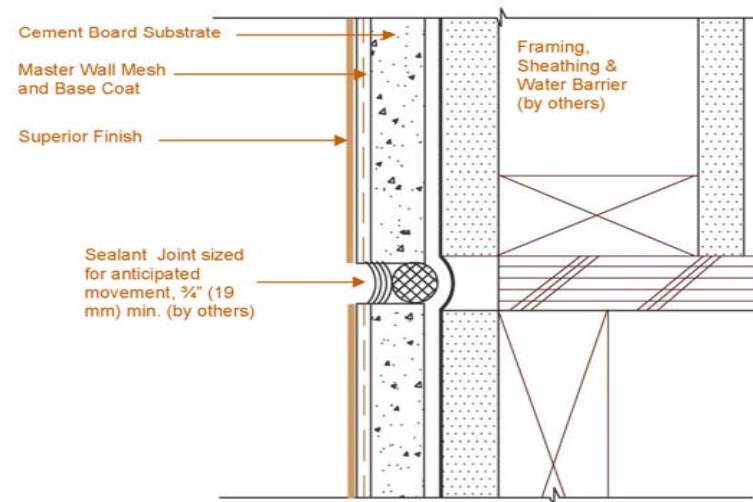
- Allows for cross-grain shrinkage in dimensional lumber
- Leave a $\frac{3}{4}$ " (19 mm) minimum gap between boards
- Water barrier runs continuously



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SC-10 Typical Horizontal Expansion Joint at Floor Line – Wood Frame Construction

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Pipe Penetration

- Butt cement boards closely to pipe penetration
- Seal both the water barrier and exterior of the pipe (by others)

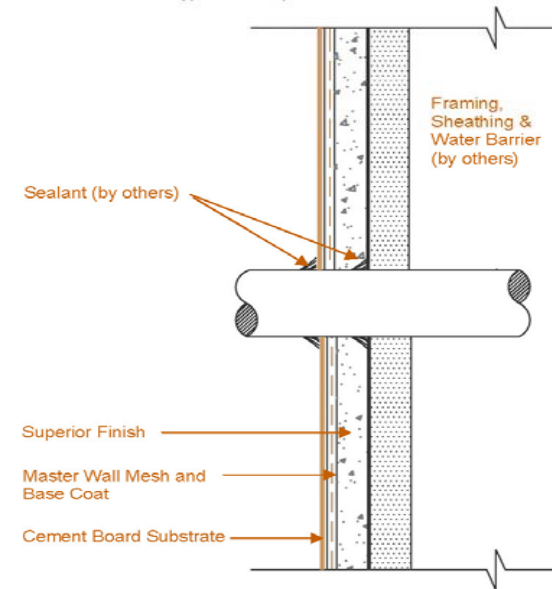
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SC-11 Pipe Penetration Detail

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Soffit/Gable Termination

- Extend Fascia or Gable end at least 2" (51 mm) over the cement board
- Sealant can be used if needed (by others)

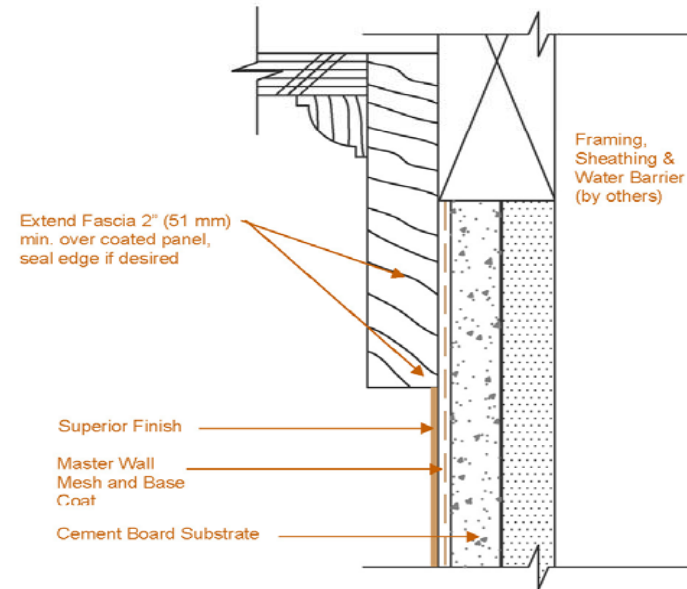
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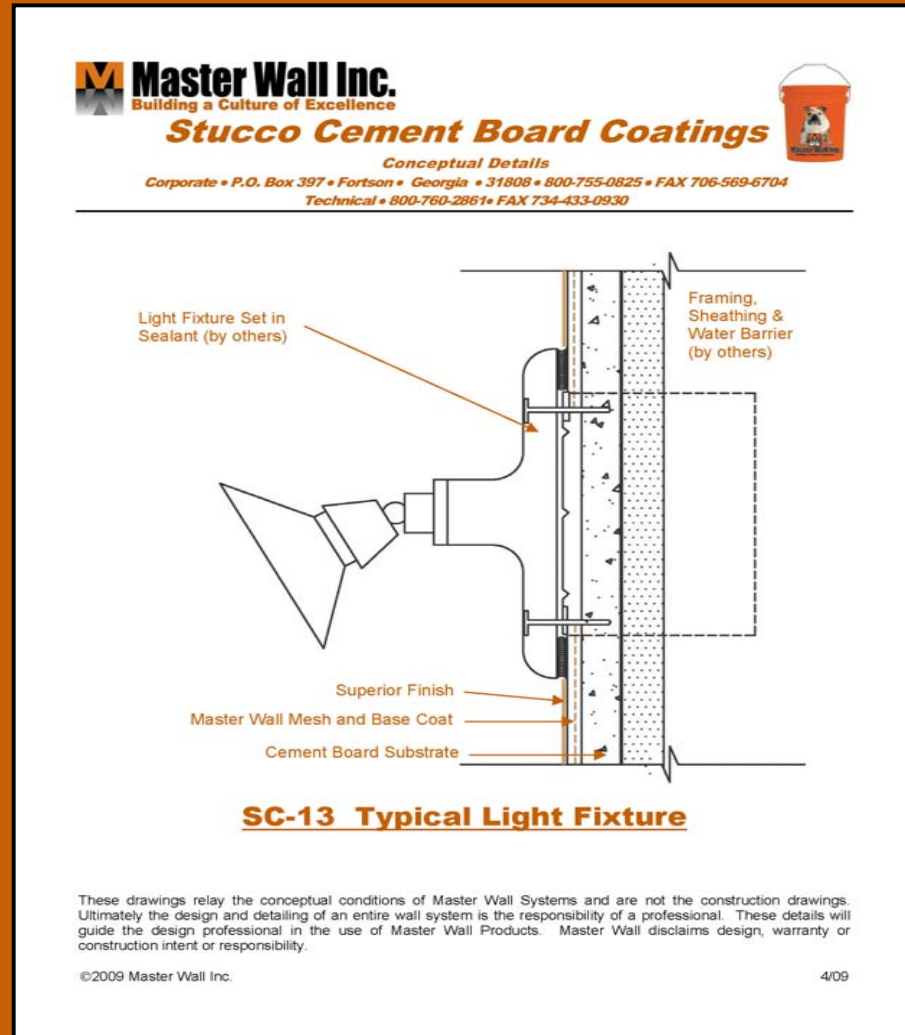
SC-12 Soffit/Gable Termination

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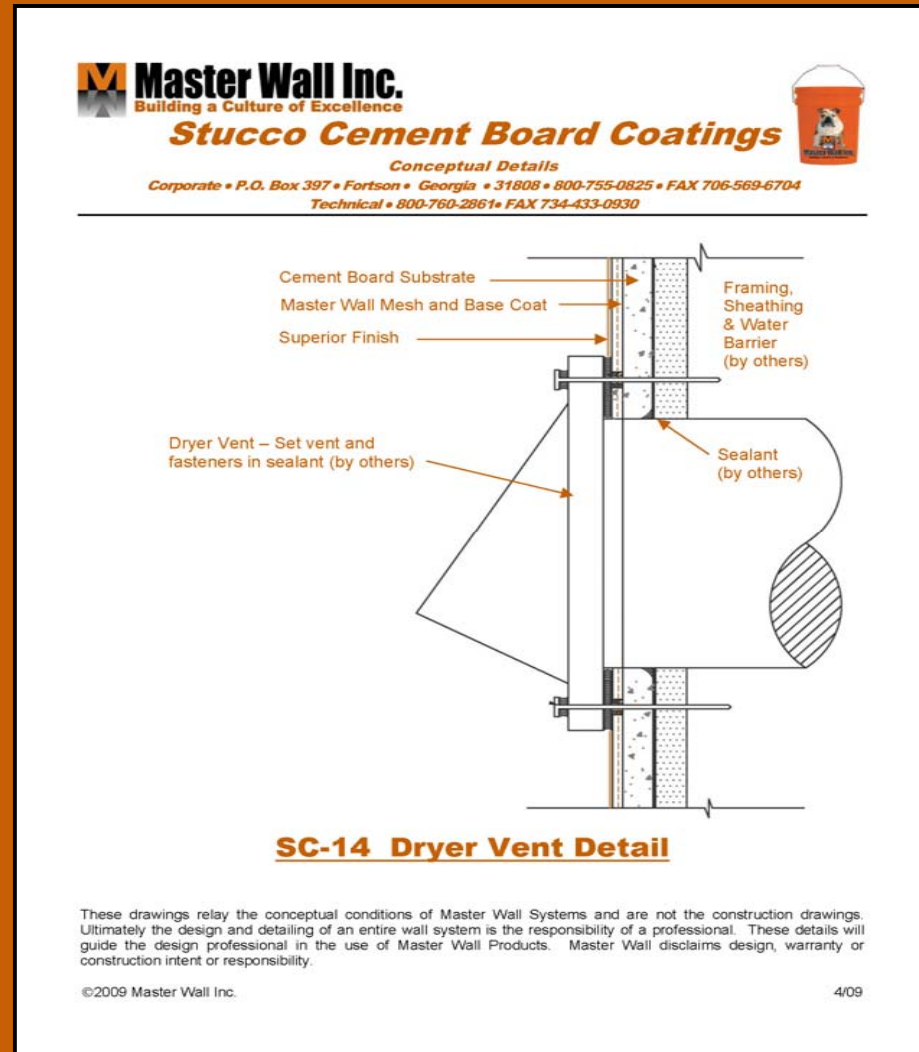
Light Fixture

- Butt cement boards closely to light box
- Electrical contractor to set light fixture in sealant



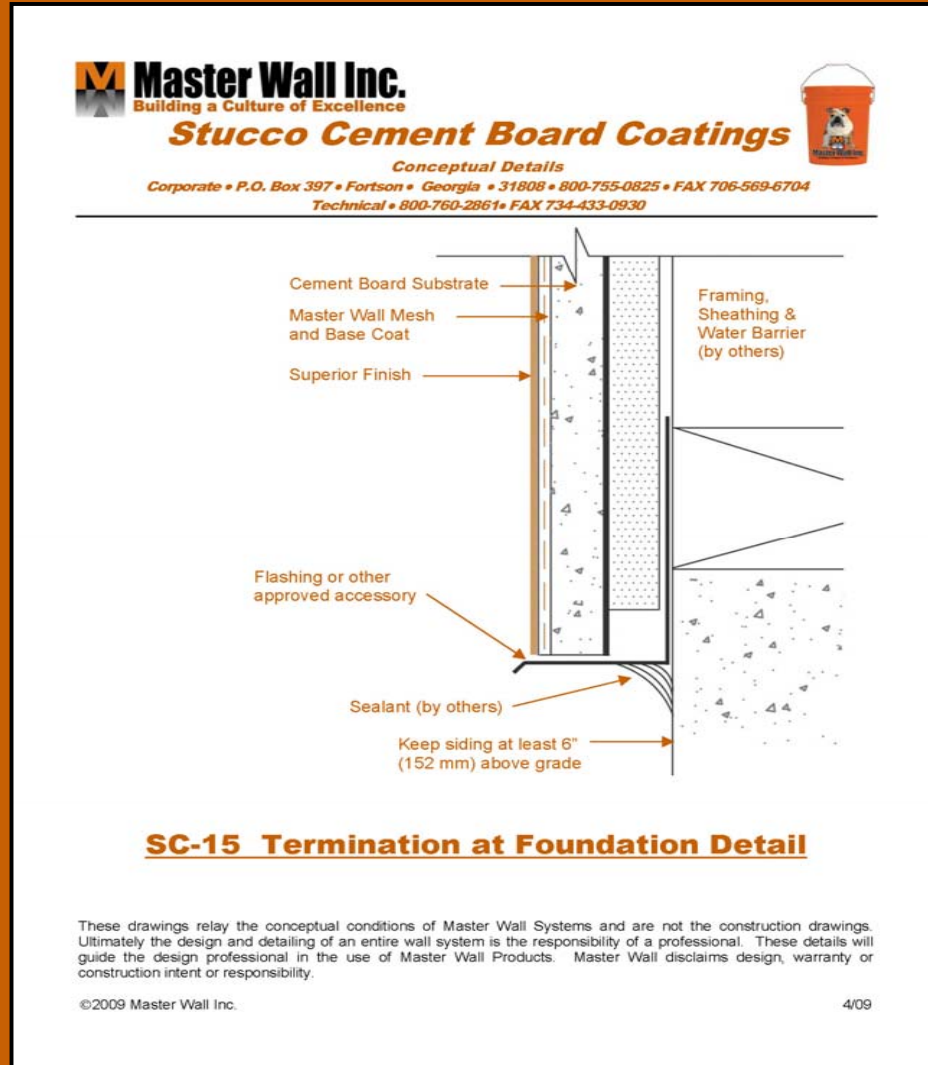
Dryer Vent

- Butt cement boards closely to the dryer vent
- Seal water barrier (by others)
- Set dryer vent and fasteners in sealant



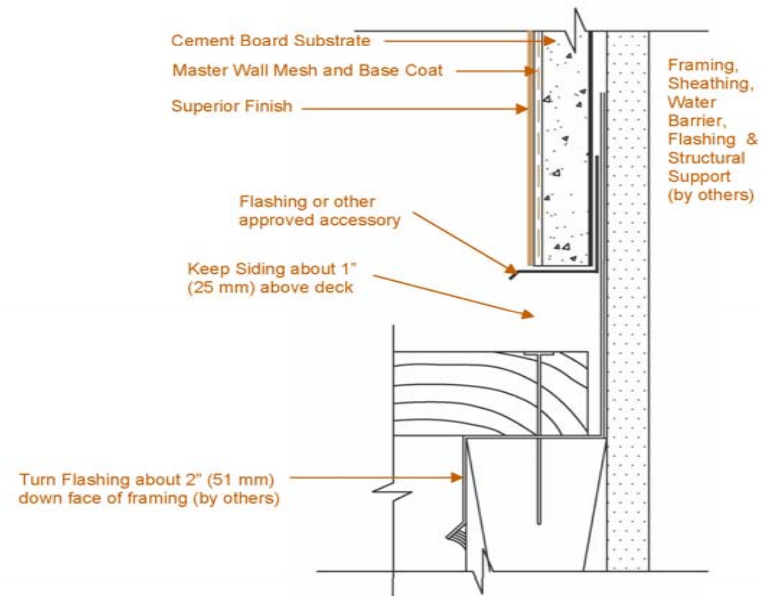
Foundation Detail

- Level drainage track
- Run Water Barrier into drainage track
- Keep siding at least 6" (152 mm) above grade



Termination at Deck

- Allow room for deck flashing maintenance




SC-16 Termination at Decking


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Termination Under Deck

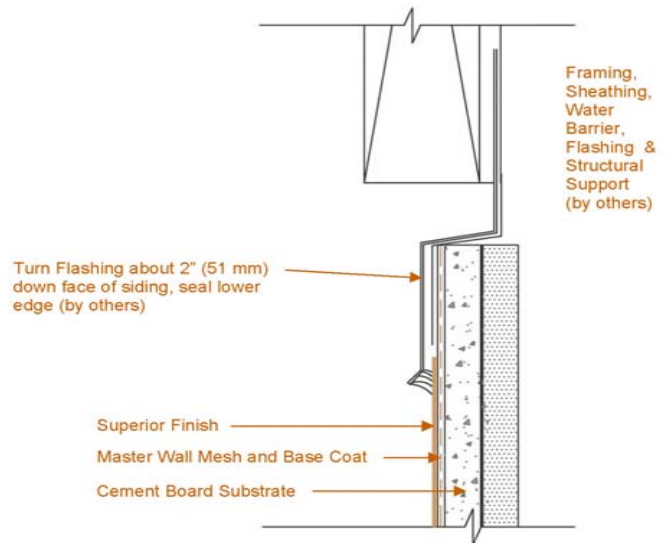
- Extend deck flashing at least 2" over the cement board, seal the lower edge (by others)

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Stucco Cement Board Coatings

Conceptual Details
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SC-17 Termination Under Deck

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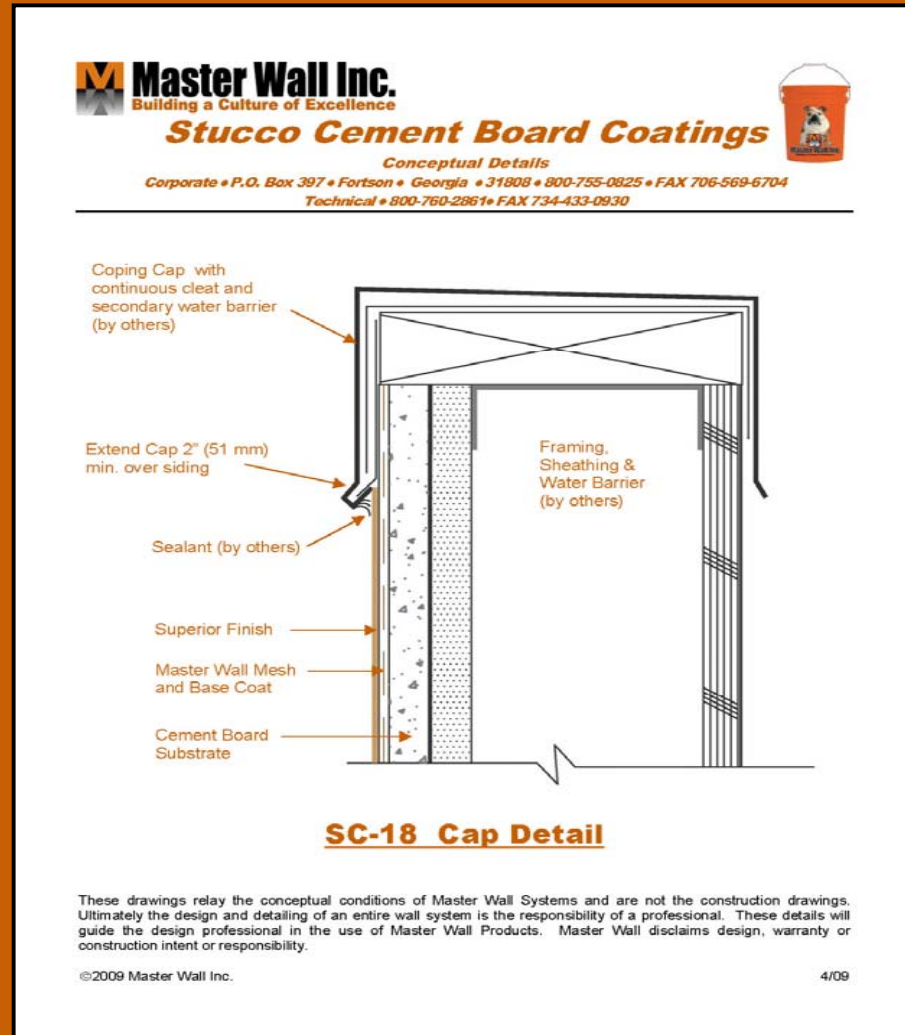
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Coping Cap

- Coping cap extends 2" (51 mm) over cement boards
- Seal lower edge (by others)



EPS Shape

- Adhere foam shape with Master Wall adhesives
- Slope top 1:2 minimum to shed water

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Cement Board Substrate

Master Wall Mesh and Base Coat

Superior Finish

Slope 1:2 min. to shed water

EPS Aesthetic Shape

Master Wall Adhesive

Framing, Sheathing & Water Barrier (by others)

Note:
Use an expansion joint if shape spans control joints

SC-19 EPS Shape Detail

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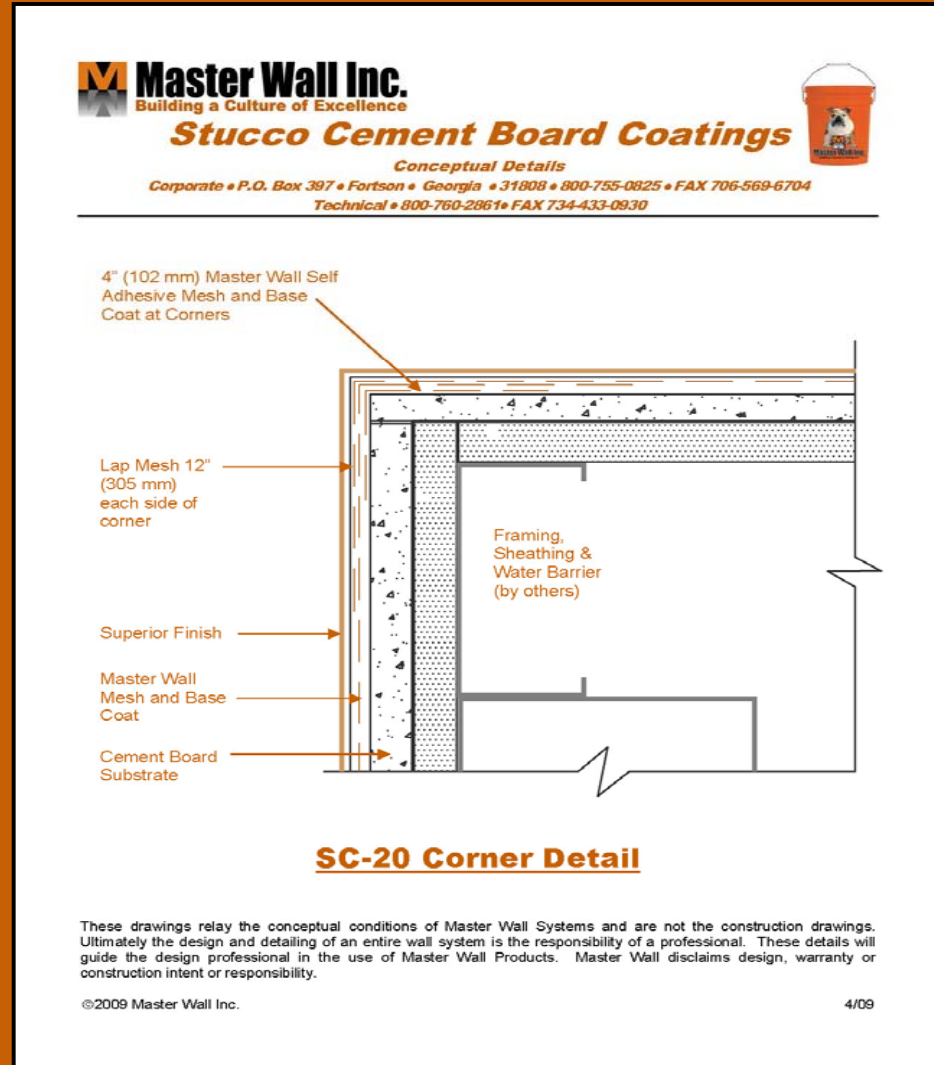
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Corner Detail


- 4" (102 mm) Master Wall Self Adhesive Mesh and Base Coat are used at the corner
- Overlap mesh 12" (305 mm) at corners



Roof Kick Out Flashing

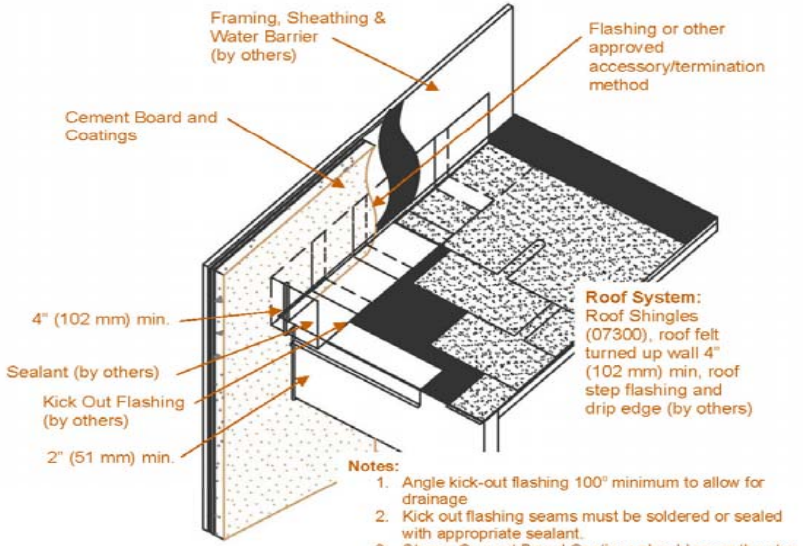
- Directs water to the outer face of the wall
- Set flashing in sealant
- Prefabricated flashings are available

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Roof System:
Roof Shingles (07300), roof felt turned up wall 4" (102 mm) min, roof step flashing and drip edge (by others)

Notes:

1. Angle kick-out flashing 100° minimum to allow for drainage
2. Kick out flashing seams must be soldered or sealed with appropriate sealant.
3. Stucco Cement Board Coatings should cover the step flashing a minimum of 2" (51 mm) and should be placed about 1" to 2" (25-51 mm) above the roofline in accordance with local requirements.

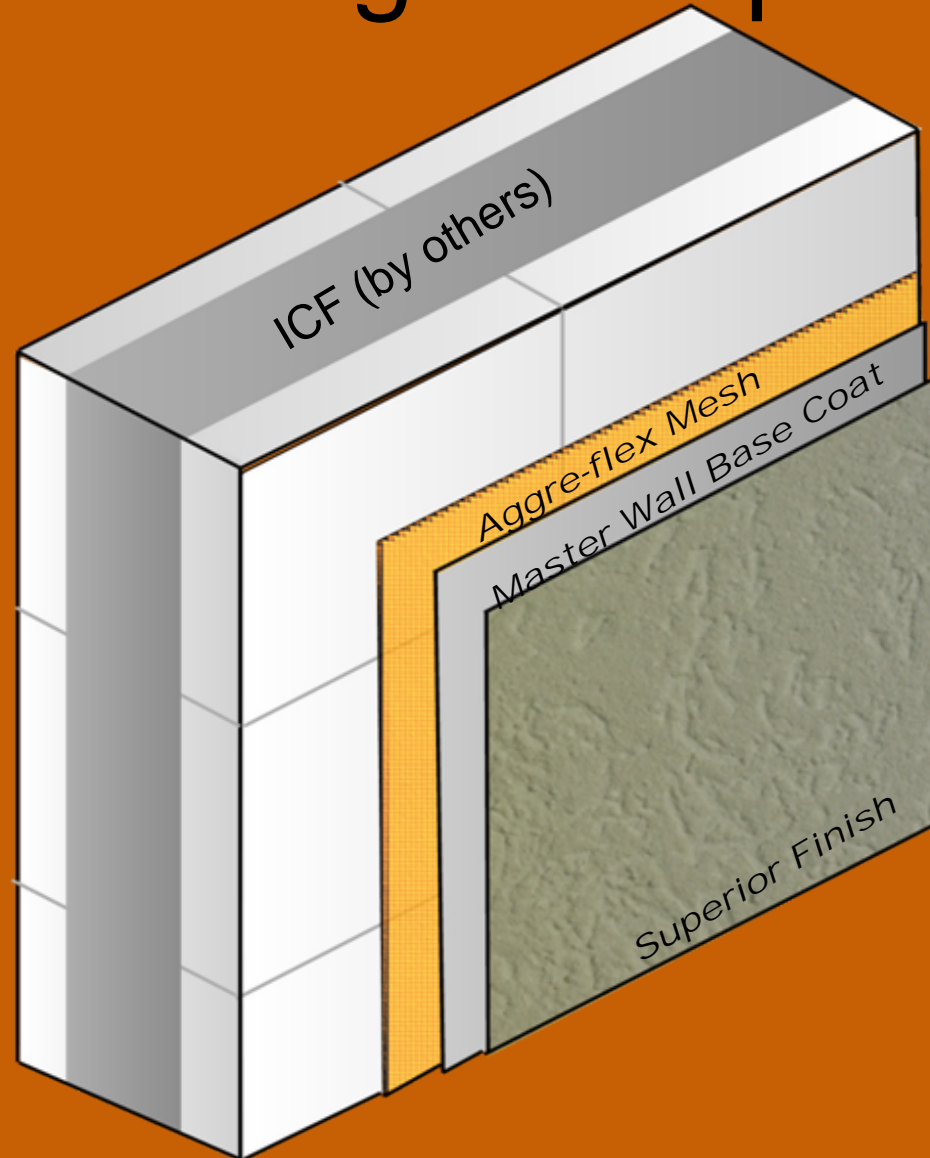
SC-21 Typical Roof/Wall Intersection

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ICF Coatings Components



Details

Insulated Concrete Form (ICF) Coatings



Cross Section

- ICF's with exposed ties require a layer of insulation board
- ICF's with internal ties can be rasped level then coated

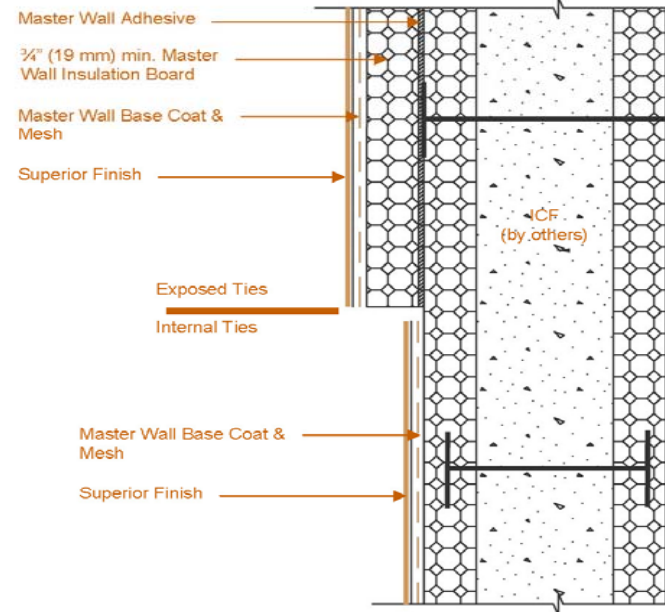


Insulated Concrete Form (ICF) Coatings

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ICF-01 Cross-Section


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Cross Section

- Base coat, mesh and finish are easily applied to internal tie ICF's

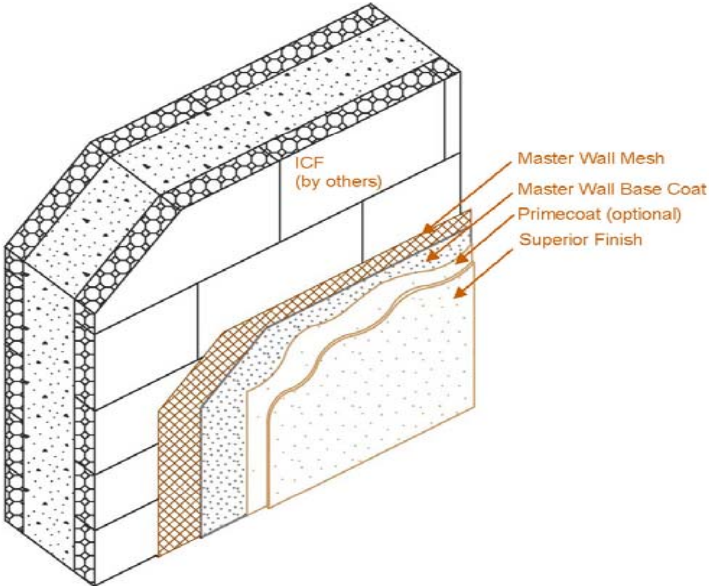
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Insulated Concrete Form (ICF) Coatings

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The diagram is a 3D isometric cross-section of an ICF wall. It shows a central concrete core with vertical internal ties. The exterior surface is coated with several layers: a mesh, a base coat, an optional primecoat, and a superior finish. Arrows point from the labels to these layers.

ICF-02 Cross-Section Isometric

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Window Head Detail

- Allow room for an expansion joint, typically 1/2" (13 mm) wide
- Flash as required by the window manufacturer

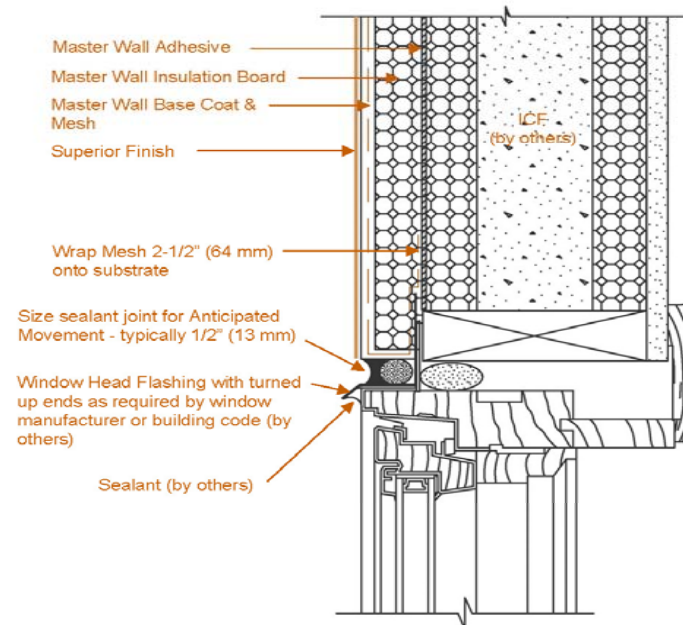


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ICF-03 Clad Window Head

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Window Head Detail

- Adhere trim piece to ICF
- Slope top 1:2 minimum

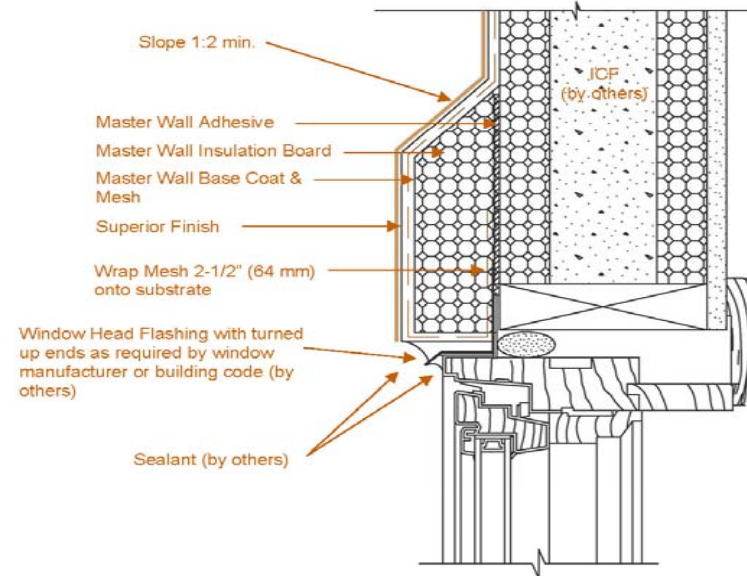


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ICF-04 Clad Window Head with Trim

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Wood Window Head

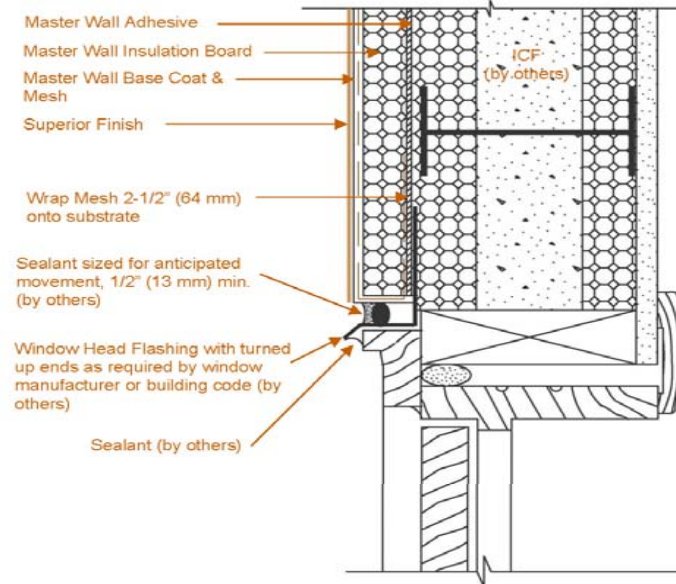
- Always use a head flashing with wood windows
- Provide a sealant joint, typically 1/2" (13 mm) wide



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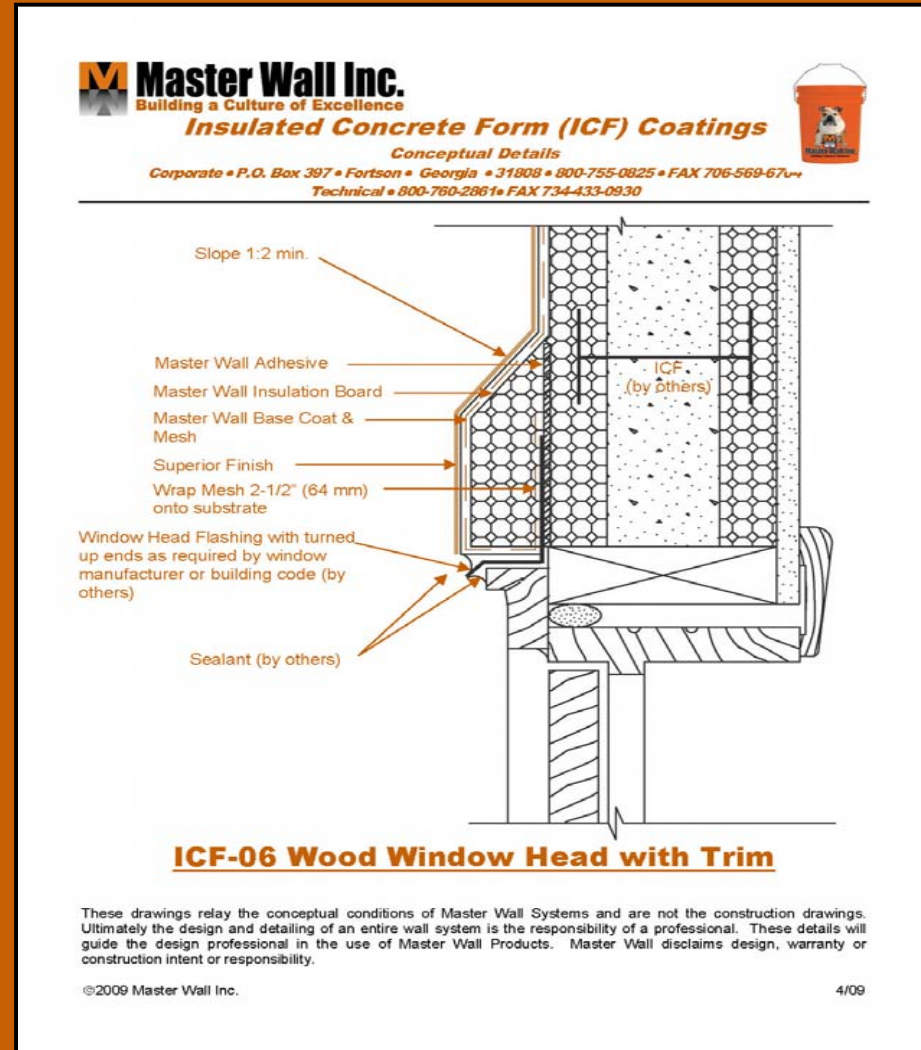
ICF-05 Wood Window Head (Door Similar)

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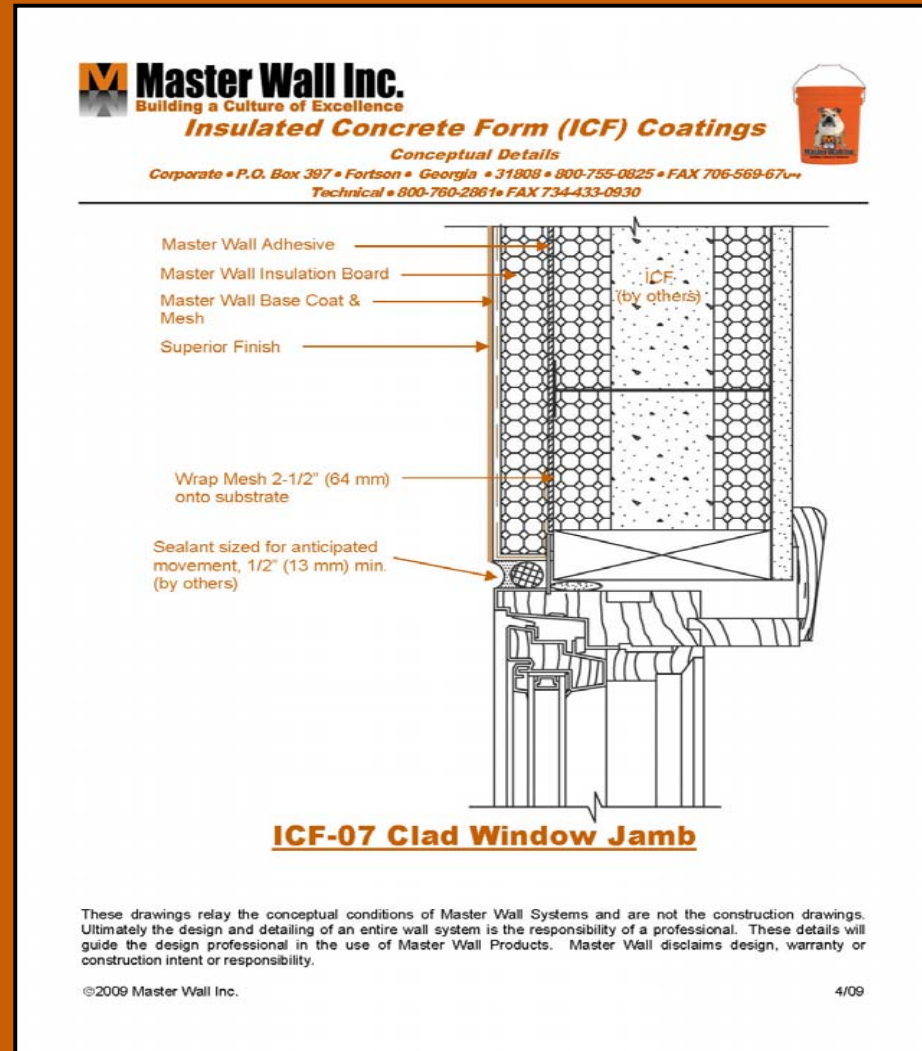
Wood Window Head with Trim

- Always use a head flashing with wood windows
- Adhere trim piece to ICF
- Slope top 1:2 minimum



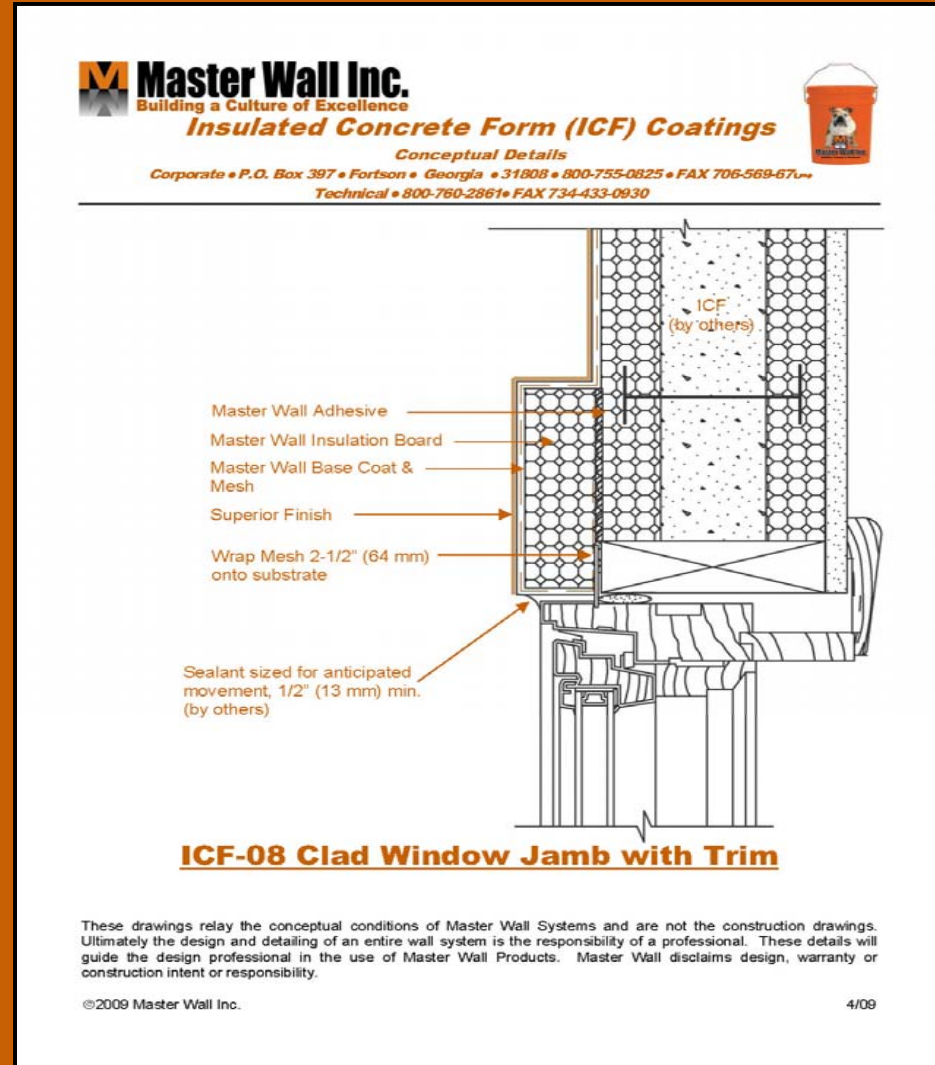
Window Jamb

- Provide a sealant joint between window and insulation, typically 1/2" (13 mm) wide



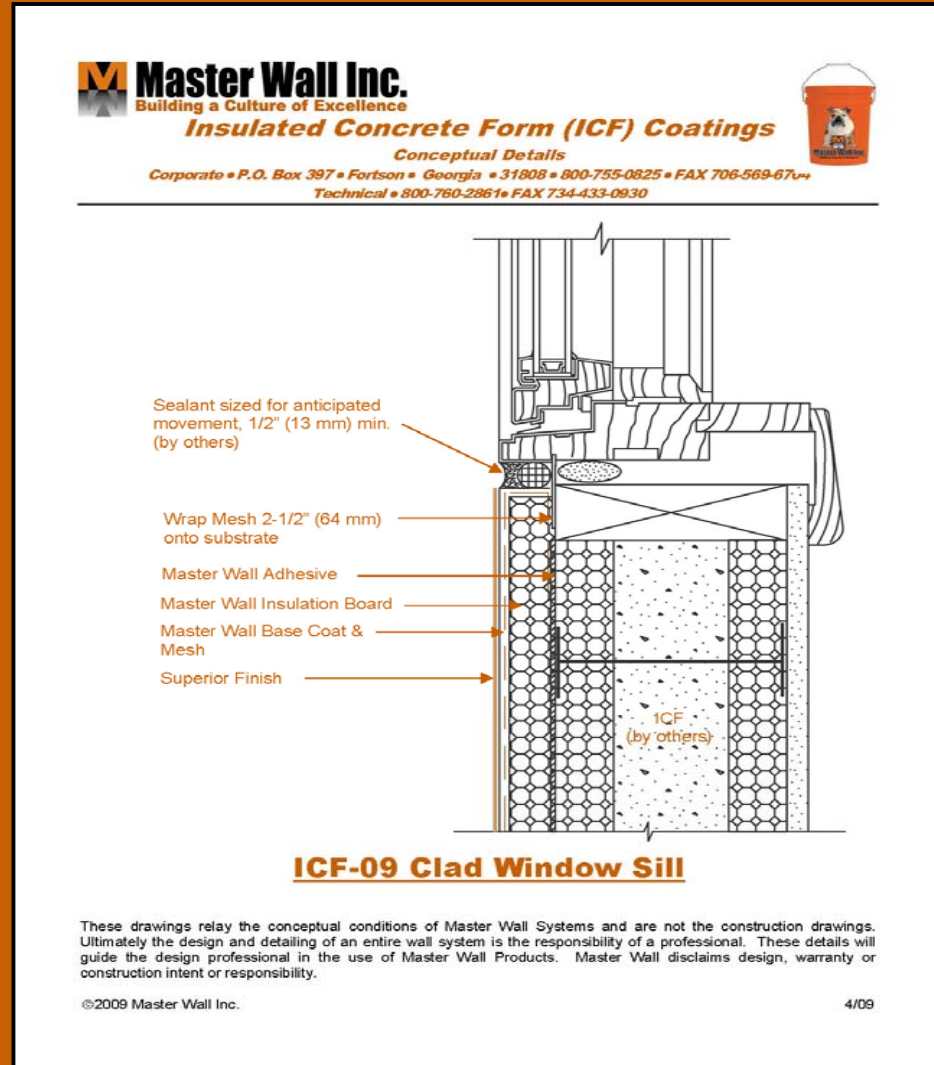
Window Jamb with Trim

- Adhere foam trim and backwrap with base coat and mesh
- Leave a 1/2" (13 mm) minimum expansion joint area for sealants



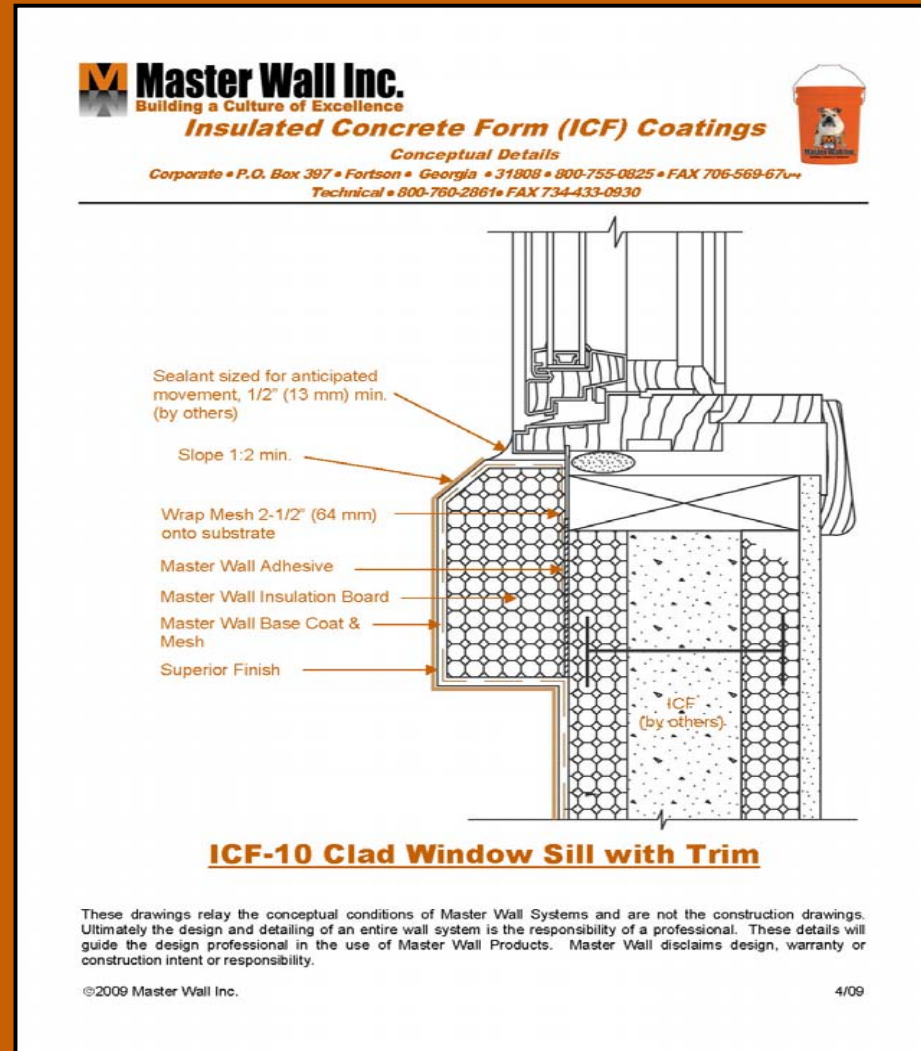
Window Sill

- Provide a 1/2" (13 mm) minimum expansion joint at window
- Verify that additional flashing isn't needed from the window manufacturer



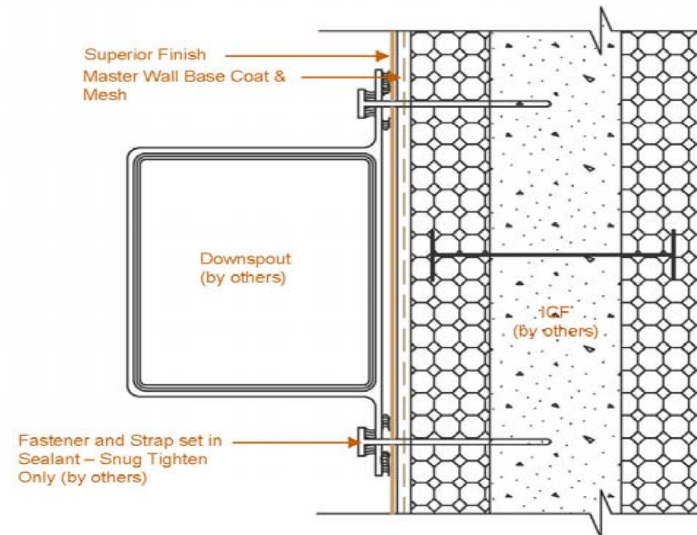
Window Sill with Trim

- Backwrap and adhere foam shape with Master Wall Adhesive
- Slope sills a minimum of 1:2
- Seal between window and wall.



Downspout Attachment

- Set fasteners and straps in sealant
- Snug tighten only or the ICF's will deform



ICF-11 Typical Downspout Attachment



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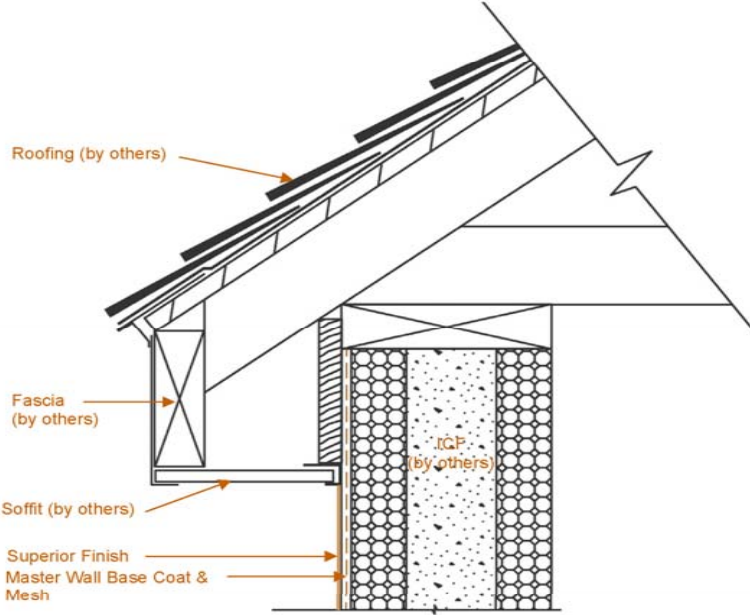


Soffit Transition

- Cover exposed insulation with base coat and mesh
- Soffit could be sealed to the wall if desired

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ICF-12 Typical ICF to Soffit Transition

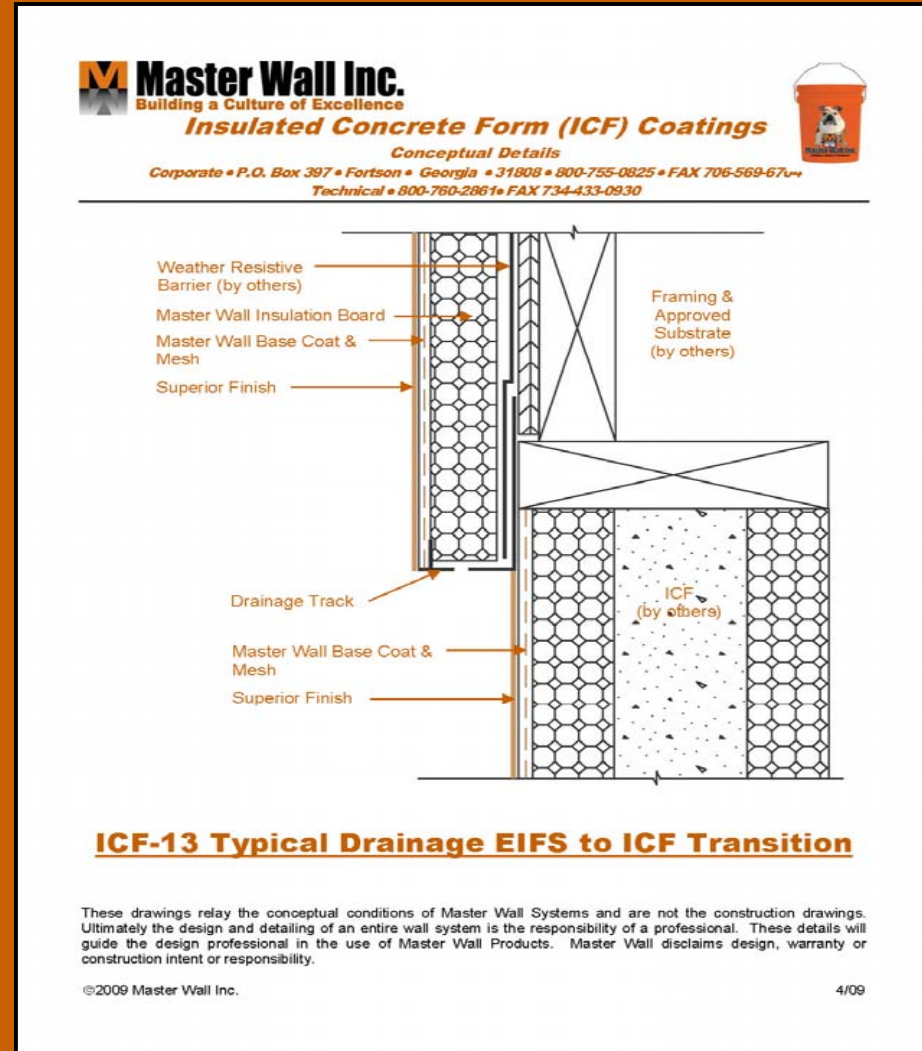
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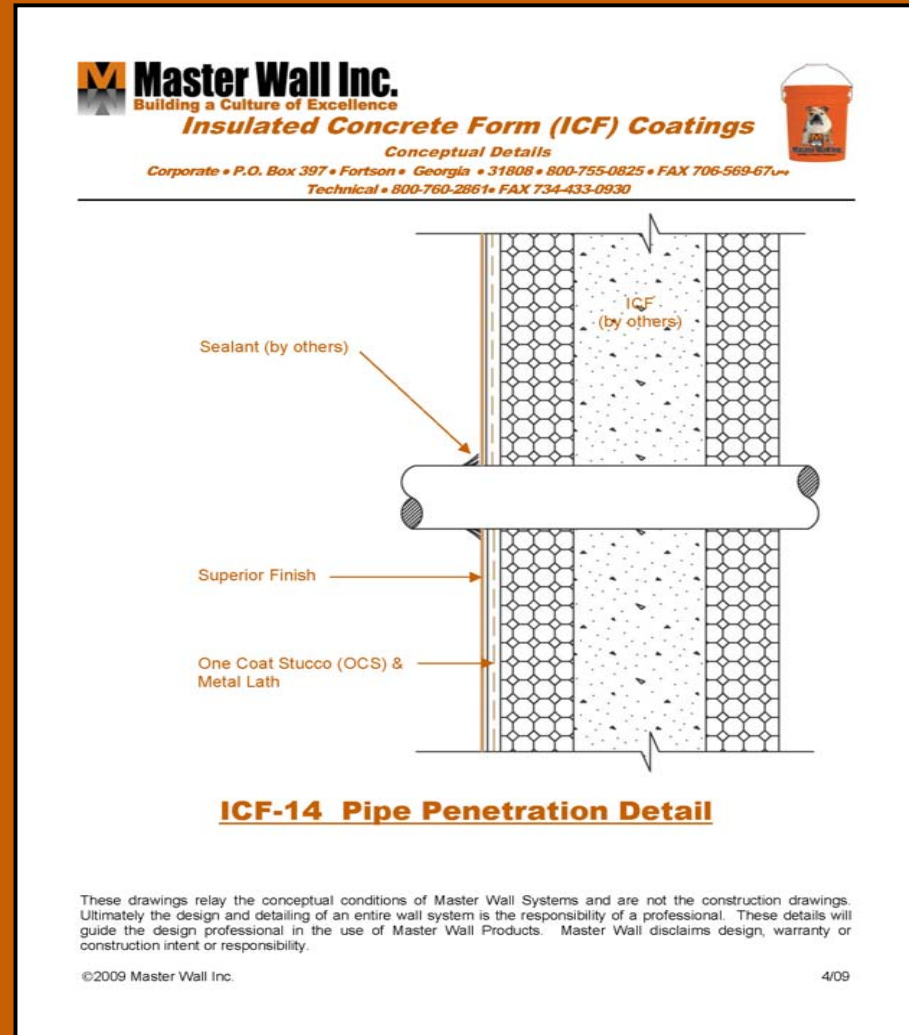
Drainage EIFS Transition

- Suitable for wood-framed construction above ICF
- Allows for drainage as required by building codes



Pipe Penetration

- Apply base coat and mesh close to the penetration
- Sealant contractor seals the opening



Light Fixture

- Run coatings to light fixture opening
- Electrical contractor to set the fixture in sealant

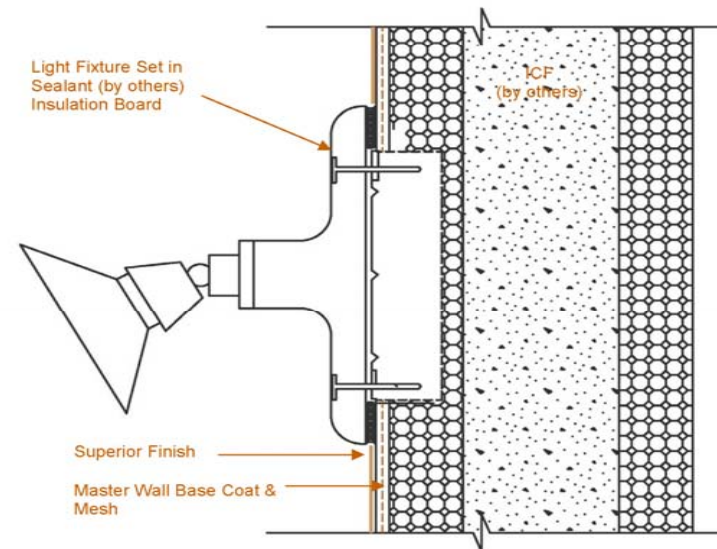
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ICF-15 Typical Light Fixture

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Dryer Vent

- Run coatings to dryer vent opening
- Set the vent in sealant

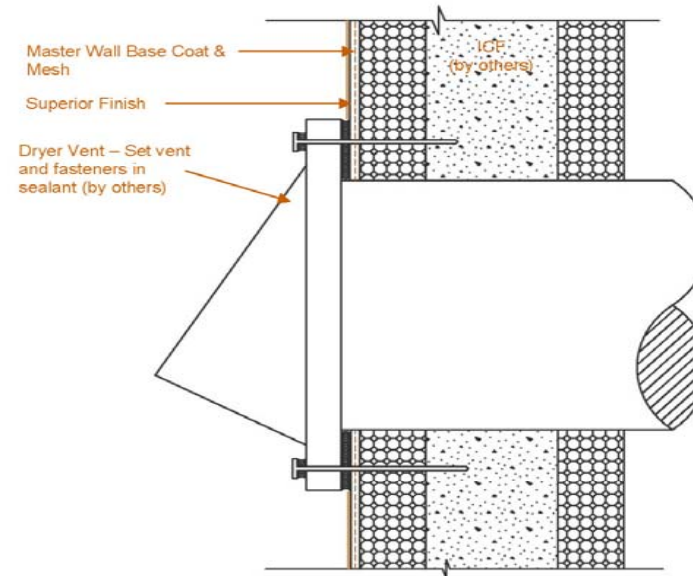
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ICF-16 Dryer Vent Detail

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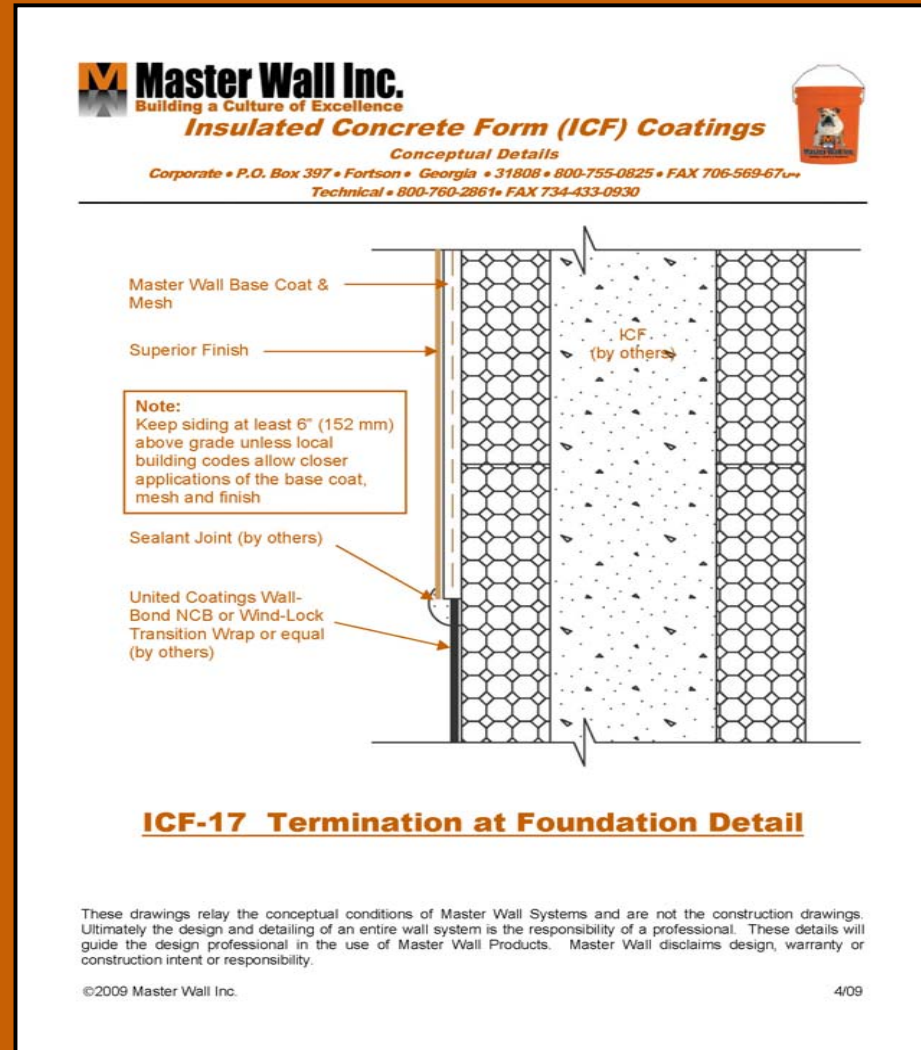
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Termination at Foundation

- Per code, keep coatings at least 6” (152 mm) above grade
- If allowed by code, coatings can be run to grade
- Seal transitions with sealant



Deck Termination

- End coatings at deck transition
- Use a transition wrap or similar flashing at deck transition

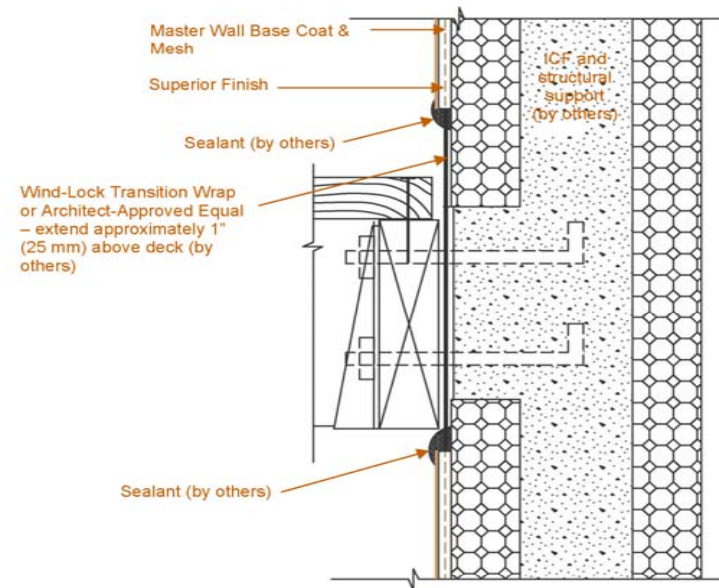
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ICF-18 Termination at Decking

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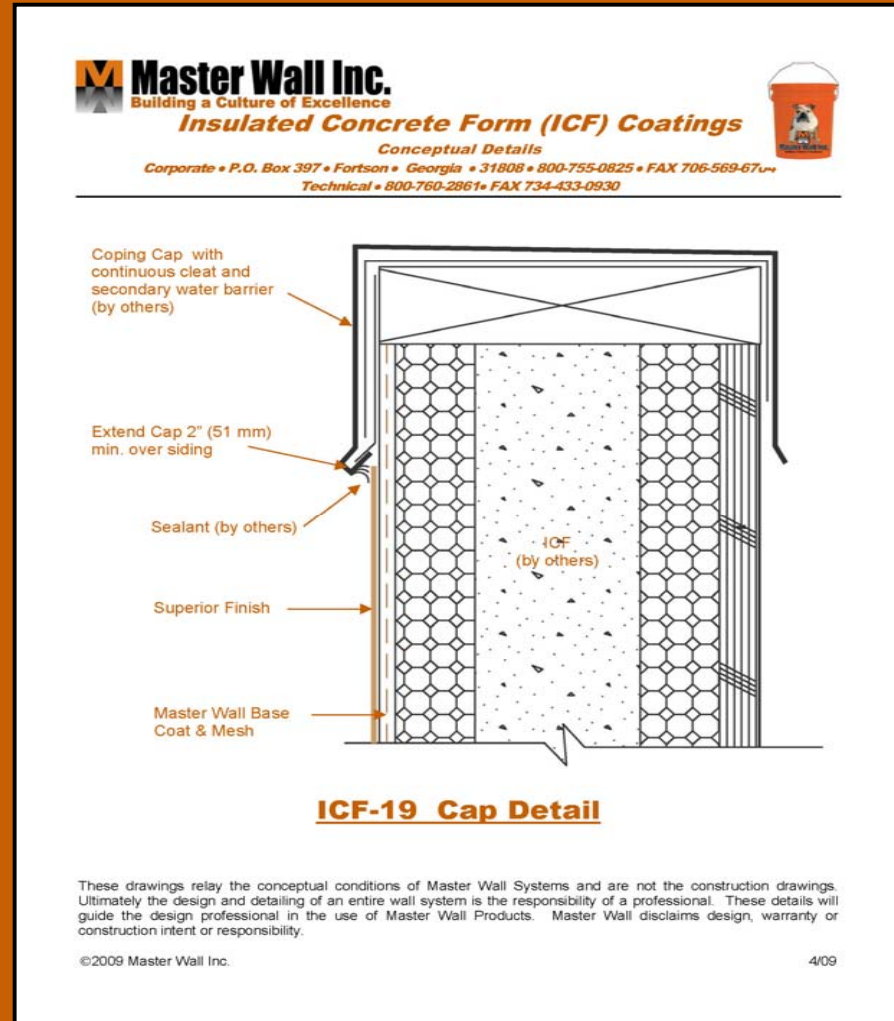
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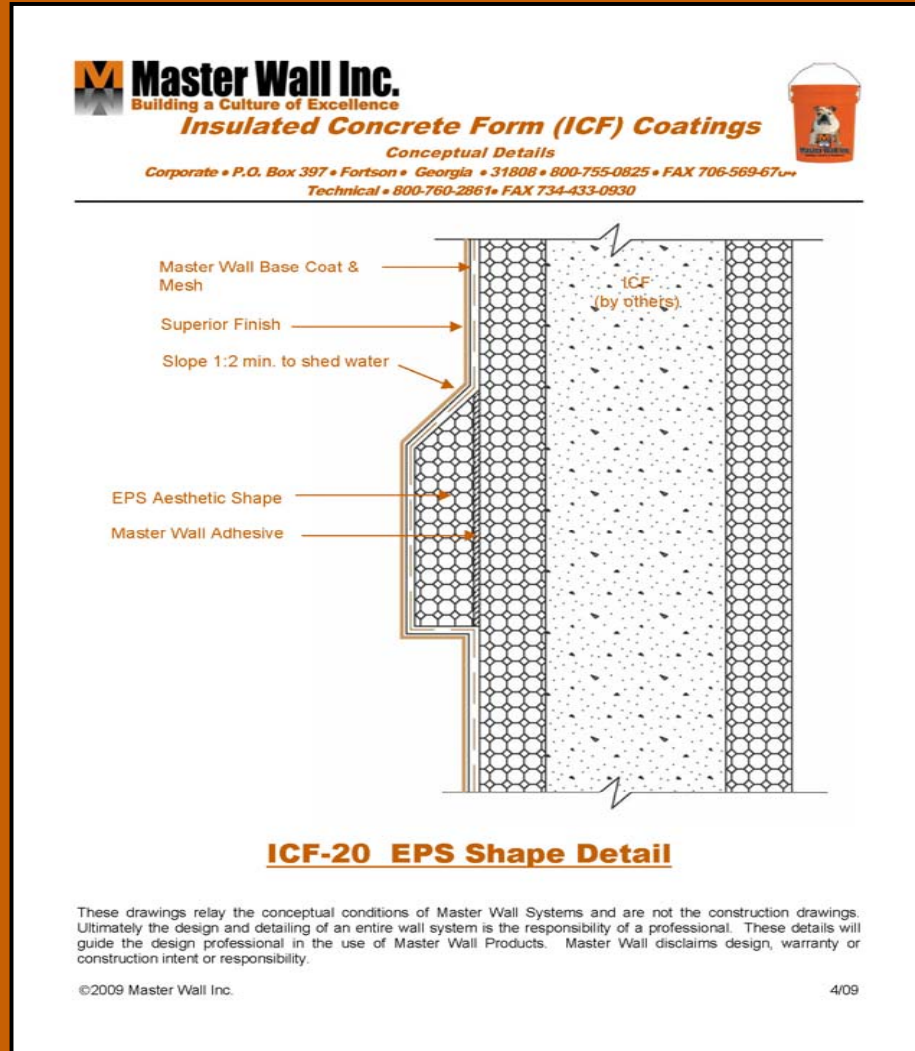
Coping Cap Detail

- Cover exposed insulation with base coat and mesh
- Extend coping cap at least 2" (51 mm) over siding
- Seal the lower edge



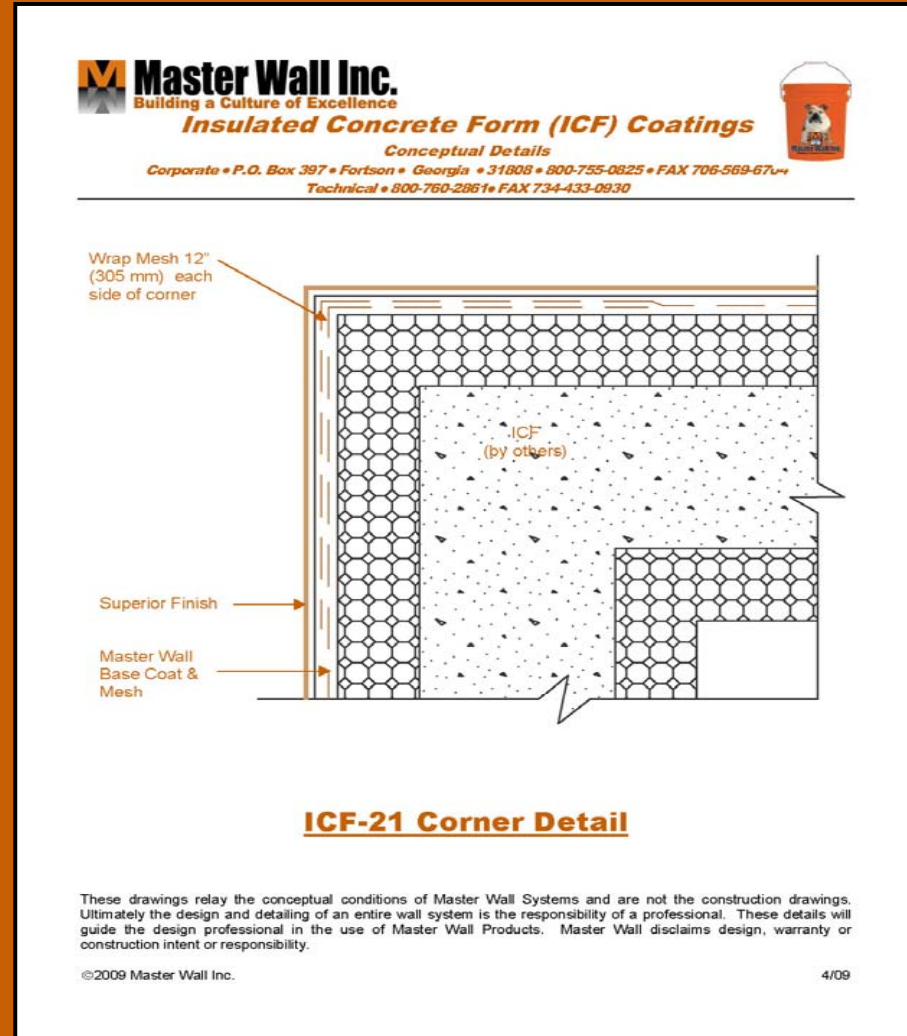
Aesthetic Shape

- Adhere shapes with Master Wall adhesive
- Slope top of shape a minimum of 1:2 to shed water
- Coat with wall coatings



Corner Detail

- Wrap mesh at least 12" (305 mm) either side of the corner



Roof/Wall Intersection

- Encapsulate the step flashing in a trim band
- Set end flashing in sealant or use Kick Out flashing if "Exposed Tie" Application (by others)

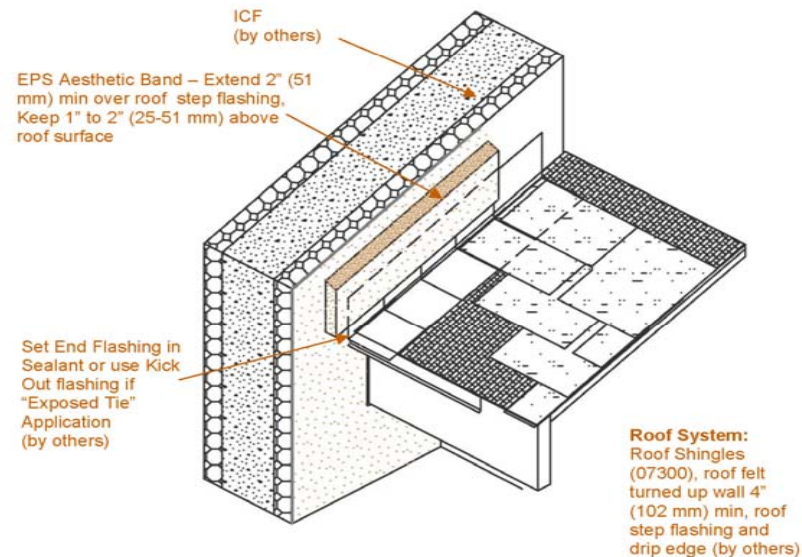
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ICF-22 Typical Roof/Wall Intersection

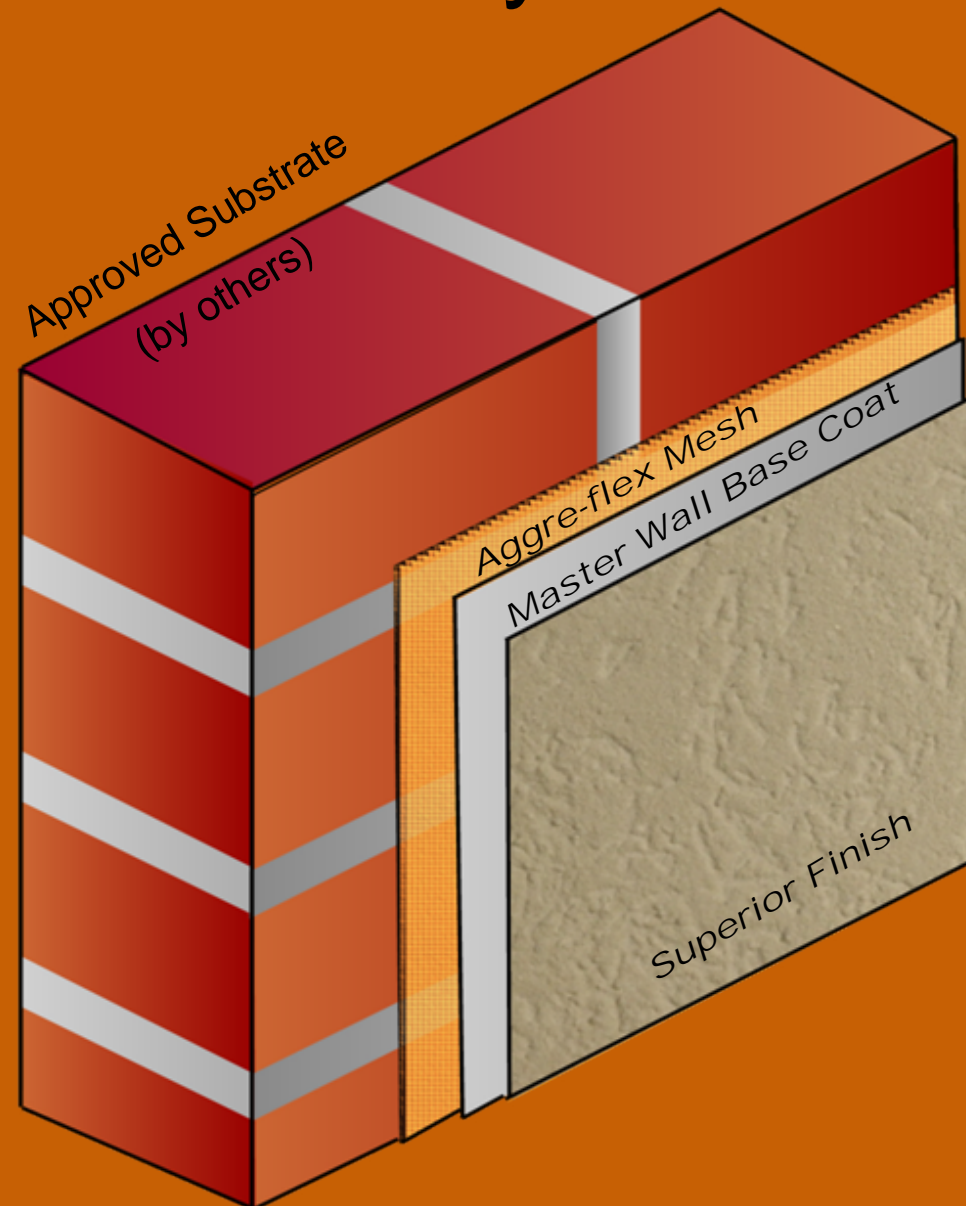
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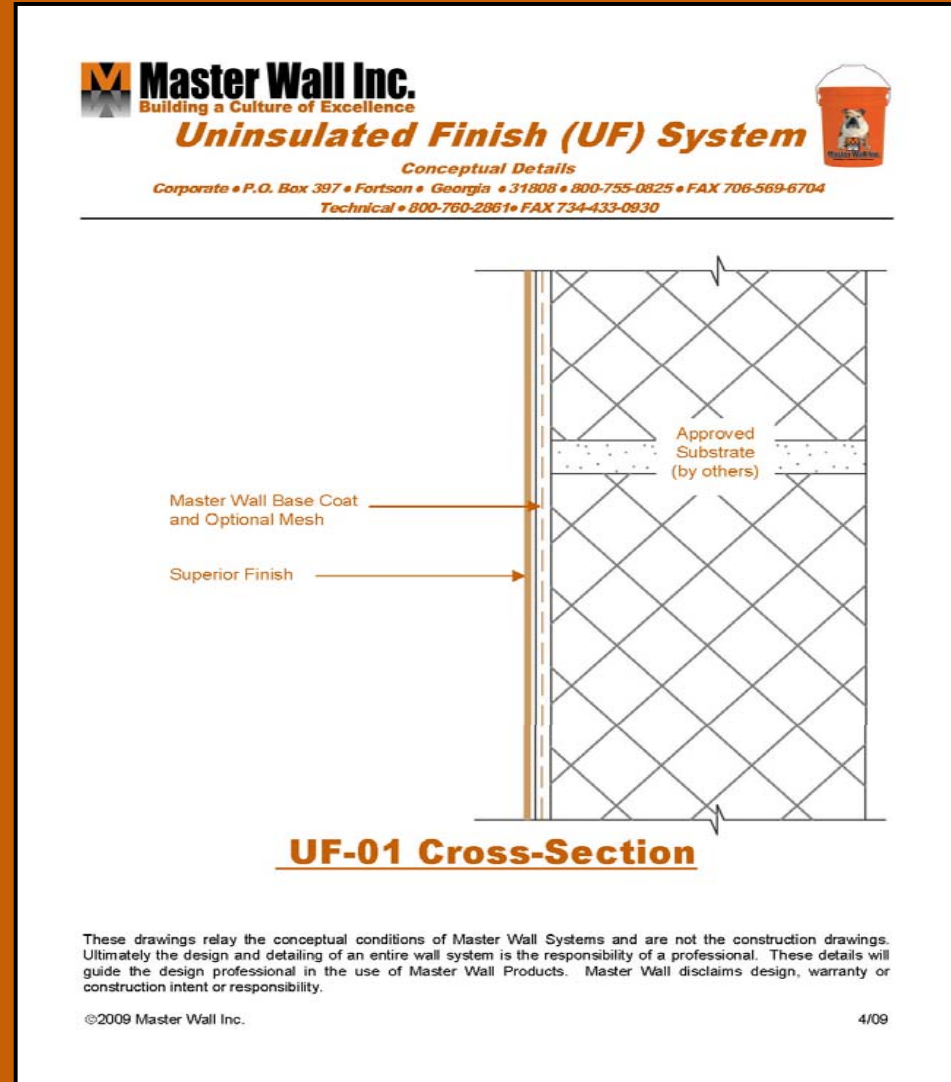


Uninsulated Finish System Components



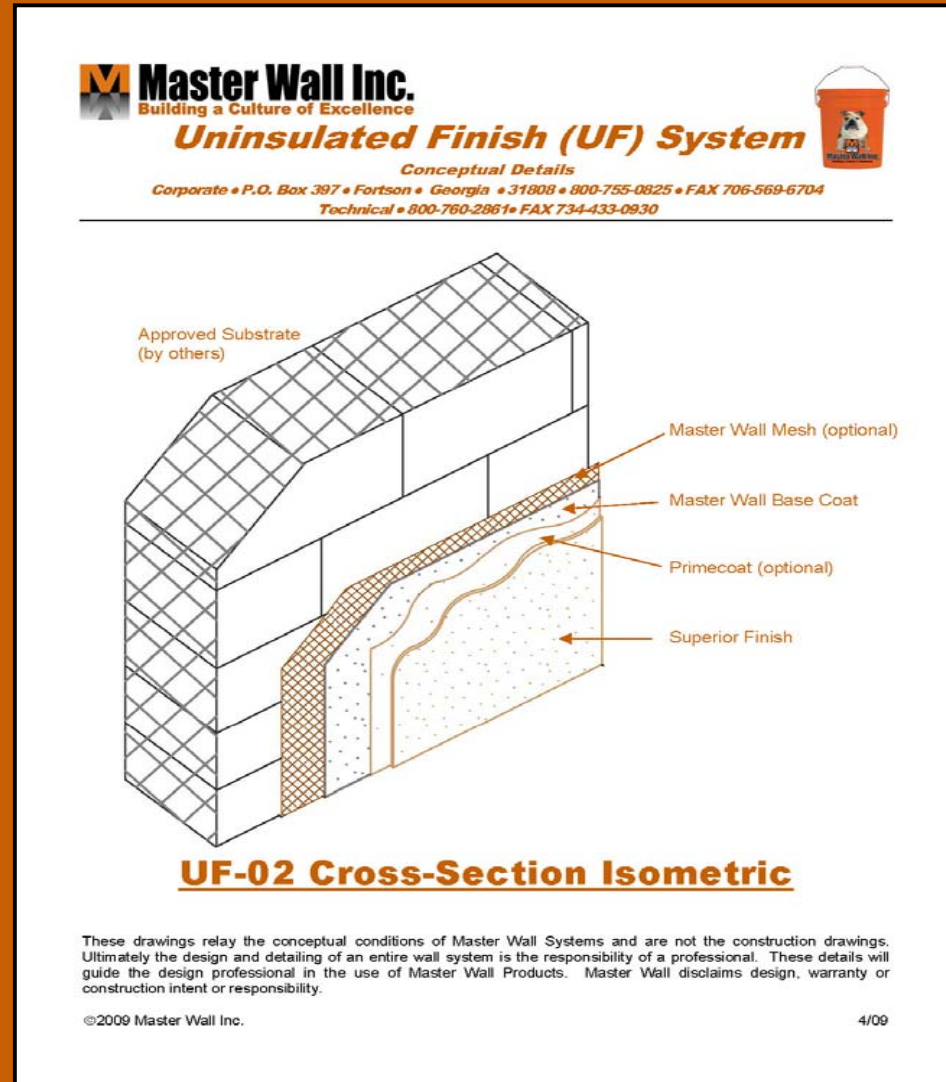
Cross Section

- Mesh is optional but helps to level the surface
- Higher build F&M Plus is recommended as a base coat



Isometric

- Primecoat primer makes the finishes look better





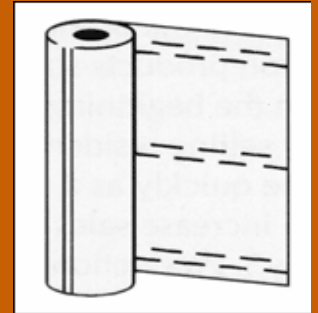
Weather Resistant Barriers

General Overview and Installation



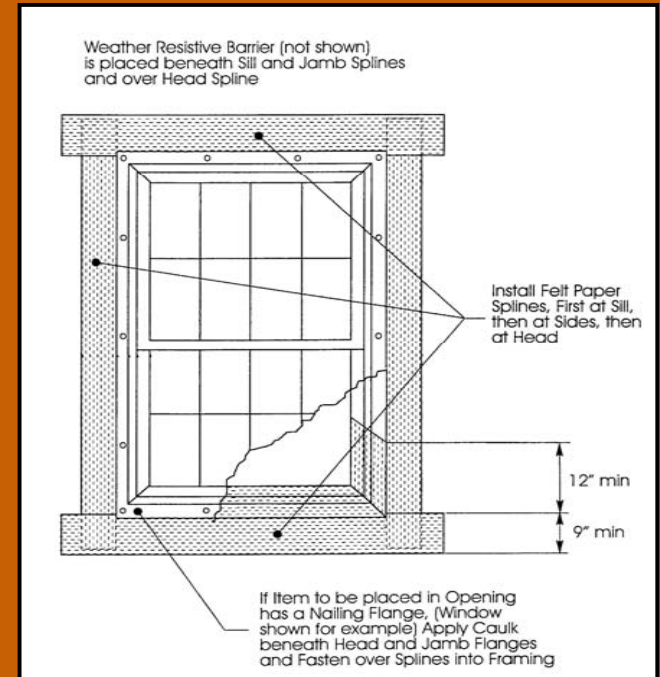
What Makes a Weather Resistive Barrier

- Is it even called a Weather Resistive Barrier? Some common names are weather barrier, tarpaper, water barrier, building felt or the common name “Tyvek”
- In general, a Weather Resistive Barrier should meet or exceed ASTM D-226 requirements.
- Some code areas require two layers or an equivalent. Check with your local building department.



Window/Door Splining

- Splining is a flashing method that helps protect the framing from leaky windows or doors
- They are installed by the window contractor at the time of window/door installation
- A full pan flashing may also be used and should be used on solid wood windows



Sill Spline

- Size the spline to cover the framing and turn down the face at least 9”
- It extends up the window jambs at least 12”
- Do not nail down the outside portion of the spline



Jamb Spline

- Jamb splines are run up each side
- Again the outside is left loose for “weaving” the asphalt weather-resistive barrier
- Turn the jamb splines about 12” onto the window head



Spline Head

- The head spline is nailed onto the substrate and turned into the opening



Window Installation

- The windows is installed according to manufacturer's directions



Weather-Resistive Barrier

- Start at the bottom of the wall, felt is run into plastic drainage-type EIFS track, stucco weep screed or ending trim piece
- Run felt, lapping at least 2”



Weaving the Weather-resistive Barrier

- Slide the barrier under the sill spline, at least 6" of lap
- At the jambs, the lower part of the barrier is installed under the jamb spline to about midpoint of the window and then over the spline for the upper part of the window
- At the head, the weather-resistive barrier runs over the head spline



Repairing Tears

- Tears are common in asphalt felt installations
- Cut a piece sized for at least 6" overlap on either side of the tear
- Tuck the felt under the tear so that it will shed water



Detailing & Flashing

- The weather resistive barrier provides secondary protection
- The flashing directs any incidental water to the outside of the building
- Basically, these two items keep the building watertight
 - If not properly detailed you have an unacceptable condition



Window/Door Head Flashing

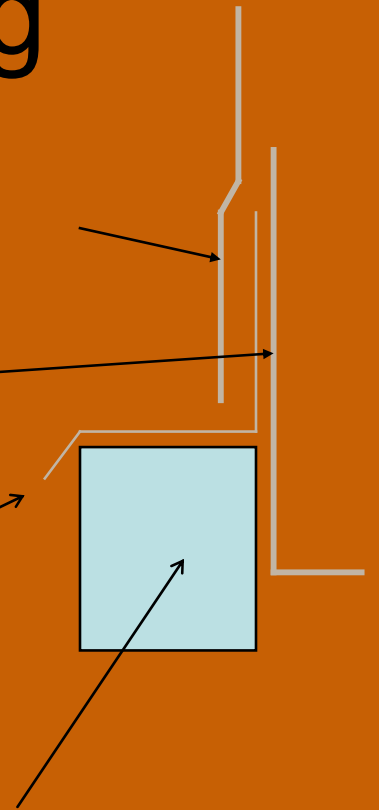
- Head flashing is usually necessary at window and door heads
- Some windows are self-flashing and do not require flashing (check with manufacturer)
- Run weather resistive barrier onto head flashing
- Turn up ends of head flashing to direct water outward

Weather resistive barrier

Spline

Head Flashing

Window/Door Casing



Products



Superior Finishes

- All finishes are Dirt Pickup Resistant (DPR)
- Use 100% pure acrylic polymers
- Different textures and custom/standard colors



Superior Elastomeric Finishes

- Elastomeric polymers stretch to bridge minor cracks in stuccos
- Factory mixed
- Available in all colors and textures



Superior Elastomeric

Master Wall Superior Elastomeric
Finishes are formulated with 100% Factory Added Elastomeric Polymer pure acrylics for durability and long life. Superior Elastomeric Finishes are factory added to our Superior Finish line and is available in all colors and textures. The elastomeric polymer helps bridge minor hairline cracking, yet is breathable. Superior Elastomeric is available in five-gallon (19L) pails and contains DPR (Dirt Pickup Resistance) Technology.



Finish Properties
Meets or Exceeds:
 ASTM E94 Surface Burning
 ASTM C67 Freeze/Thaw
 ASTM D2247 Humidity
 ASTM D3273 Mold/Mildew
 ASTM D969 Abrasion
 ASTM B117 Salt Spray
 ASTM G53 Weathering
 ASTM G23 Weathering

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

Application Procedure

Job Conditions - Air and substrate temperature for application of Superior Elastomeric 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 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.

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 Elastomeric Finish. Substrates of brick, masonry or concrete should be leveled smooth using either Master Wall base coats or stucco.

Mixing - Thoroughly stir Superior Elastomeric Finish using a heavy duty 1/2" (12.7 mm) drill at 400 - 500 rpm and a heavy duty mixing paddle. Small amounts of clean, potable water may be added to obtain a workable consistency. To avoid color variations, add the same amount of water to each pail. Do not exceed 24 ounces (0.7L) of water per pail of finish.

Application —Apply a uniform thickness (about 1/16", 1.6 mm) of Superior Elastomeric 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.

For Professional Results

- Apply finish coats away from direct sunlight. Cold joints or color variations can occur if the finish dries too quickly.
- Consider priming stucco surfaces with Primecoat to even out finish absorption.
- Surfaces exposed to the weather must be sloped (6:12 minimum).
- Finishes are intended for the approved substrates listed above and should not be applied directly to gypsum board or insulation board products.

Statistics
Coverage (Estimated/Varies)
 Per Pail: See Superior Finishes data sheet
 Pail Weight: 70 lbs (32kg)
 Working Time: 1 1/4 hour @ room temperature
 Drying Time: 8-12 hours to set, 48-72 hours to dry @ room temperature
 Application Range: 40°-110°F (5°-43°C)
 Shelf Life: 2 years

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



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Superior Elastomeric Plus

- Higher level of elastomeric polymers
- Feels stretchy when dry
- Bridges minor cracks in stuccos
- Factory mixed
- Available in all colors and textures except Refinish



Superior Elastomeric Plus

Superior Finishes

Master Wall Superior Elastomeric Plus Finishes are formulated with the highest level of 100% pure acrylic elastomeric polymers. Superior Elastomeric Plus Finishes are factory added to our Superior Finish line and is available in all colors and textures (except Refinish). The high elastomeric polymer content allows extreme movement capability to bridge minor cracking, yet is breathable. Superior Elastomeric Plus is available in five-gallon (19L) pails and contains DPR (Dirt Pickup Resistance) Technology.

Finish Properties
Meets or Exceeds:
ASTM E84 Surface Burning
ASTM C67 Freeze/Thaw
ASTMD2247 Humidity
ASTM D3273 Mold/Mildew
ASTM D968 Abrasion
ASTM B117 Salt Spray
ASTM G53 Weathering
ASTM G23 Weathering

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

Statistics
Coverage (Estimated/Varies)
See Superior Finishes Data Sheet
Pail Weight: 70 lbs (32kg)
Working Time: 1/4 hour @ room temperature
Drying Time: 8-12 hours to set, 48-72 hours to dry @ room temperature
Application Range: 40°-110°F (5°-43°C)
Shelf Life: 2 years

Application Procedure
Job Conditions - Air and substrate temperature for application of Superior Elastomeric Plus 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 fastenings, 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 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.

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 Elastomeric Plus Finish. Substrates of brick, masonry or concrete should be leveled smooth using either Master Wall base coats or stucco.

Mixing - Thoroughly stir Superior Elastomeric Plus Finish using a heavy duty 1/2" (12.7 mm) drill at 400-500 rpm and a heavy duty mixing paddle. Small amounts of clean, potable water may be added to obtain a workable consistency. To avoid color variations, add the same amount of water to each pail. Do not exceed 24 ounces (0.7L) of water per pail of finish.

Application— Apply a uniform thickness (about 1/16", 1.6 mm) of Superior Elastomeric Plus 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.

For Professional Results

- Apply finish coats away from direct sunlight. Cold joints or color variations can occur if the finish dries too quickly.
- Consider priming stucco surfaces with Primecoat to even out finish absorption.
- Surfaces exposed to the weather must be sloped (6:12 minimum).
- 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 Elastomeric Plus Finish is still wet.





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Silicone Coat

- Adds silicone to the finishes
- Doesn't reduce the acrylic content (durability) of the finishes
- Must be factory ordered



Silicone Coat

Master Wall Silicone Coat **Master Wall Finishes**
is a factory added siloxane **Factory Added Silicone**

that helps keep buildings cleaner with a protective barrier. Water and dirt won't stick to the silicone which helps keep buildings cleaner. Silicone Coat is an available option in all our Superior, Superior Elastomeric, and Superior Elastomeric Plus Finishes in all textures.



Master Wall Inc.

Features & Benefits

- Increased water and dirt-repellence.
- Silicone Coat is does not reduce the acrylic polymer levels in the finish.
- Increased resistance to soiling.
- Improved resistance to the affects of mold, mildew and algae.
- Vapor Permeable.
- Best for areas where water is a concern.
- Can be tinted any color.
- Can be recoated with other Silicone Coat products.
- Does not affect workability, application or performance of the finishes.

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Excel Mildew Enhancement

- Extends mildew performance
- Factory added
- Great for northern exposures, wooded locations or areas that don't see much sunlight



Excel

Master Wall Finishes Factory Added Mildew Enhancement

It can happen in certain environments. Dirt deposits on textured finishes start growing mold. This can also occur on areas that receive little sunlight or low air movement. Excel is a factory added mildew enhancement that extends the finish performance beyond ASTM D-3273 mildew resistance requirements. Excel is an available option in all our Superior, Superior Elastomeric, and Superior Elastomeric Plus Finishes in all textures.



Features & Benefits

- **Increased mildew resistance, exceeding ASTM D-3273 requirements.**
- **Excel does not reduce the acrylic polymer levels in the finish.**
- **Improves resistance to the affects of mold, mildew and algae in tough environments.**
- **Vapor Permeable.**
- **Best for areas where high humidity or low air movement is a concern.**
- **Can be tinted any color.**
- **Does not affect workability, application or performance of the finishes.**

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Superior Stone

- Granite look finish
- 9 standard colors
- Color of beads can be changed for custom colors
- Primecoat is needed
- Trowel or spray first coat, spray second coat



Aggrestone

- Bolder, textured version or our stone finish
- Primecoat is needed
- Trowel or spray first coat, spray second coat
- Colors are custom, order samples by color mix



Primecoat

- Tinted primer for stucco or EIFS
- Increases finish coverage and equalizes absorption
- Spray, brush or roller applied

Primecoat

Primecoat is a 100% pure acrylic tinted primer with very good hiding power. It is designed for compatibility with Master Wall Superior Finishes, base coats, traditional stucco and One Coat Stuccos.

Primecoat is available in all Master Wall colors and custom colors delivered in five-gallon (19L) pails.

Approved Substrates
Master Wall Base Coats
Concrete
Brick
Masonry
Stucco
One Coat Stucco
Others approved in writing

Application Procedure
Job Conditions - Air and substrate temperature for application of Primecoat must be 40°F (5°C) or higher and must remain 40°F (5°C) or higher for a minimum of 24 hours. Provide temporary protection to protect the wall system from damage until permanent flashings, caps and sealants are installed. Store materials within prescribed temperature limits and out of direct sunlight. Working and drying times are based upon normal room temperature conditions and will vary with temperature and humidity.
Preparation - The substrate must be approved by Master Wall Inc., clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds or anything that would affect bond. Painted surfaces are not acceptable and must be removed.
Concrete - Must have cured a minimum of 28 days prior to the application of Primecoat. If form release agents or curing compounds exist on the surface, they must be removed with a solution of muriatic acid or similar product (with appropriate precautions). Remove any residual acid by flushing with water. All projections must be removed and any voids filled with F&M, F&M Plus, or MBB.
Masonry - Skim coat with F&M, F&M Plus, or MBB to achieve a smooth level surface. If joints are not struck flush, multiple coats may be required. Contact Master Wall for more information.
Stucco - Must have cured for a minimum of 7-14 days and be clean, dry and hard prior to the application of Primecoat. If additives were used in the stucco, it is recommended that a test patch be made to evaluate bond strength of the Primecoat to the stucco.
Master Wall EIFS—Install and prepare according to published guidelines.
Mixing - Thoroughly stir Primecoat into a homogenous consistency. Small amounts of clean, potable water may be added to obtain a workable consistency. Do not over mix. Do not exceed 24 ounces (0.7L) of water per pail. Do not add accelerators or retarders to Primecoat.
Application - Primecoat can be applied by brush, roller, or airless spray equipment. When using a roller, a maximum 3/4" (19 mm) nap is recommended. Apply Primecoat in an even, continuous coat, maintaining a wet edge.
Clean Up
Tools and equipment can be cleaned with soapy water when Primecoat is wet.
Limitations
Primecoat is not intended for use as the final finish coat over Master Wall base coats or other approved substrates.

Statistics
Coverage (Estimated/Varies)
1-Coat: 1000-1200 sq ft (93-112 sq m)
Pail Weight: 53 lbs (24kg)
Dry to Touch: 1 hour @ room temperature
Recoat Time: 2 hours @ room temperature
Drying Time: 12 hours @ room temperature
Application Range: 40°-110°F (5°-43°C)
Shelf Life: 2 years

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Sanded Primecoat

- Tinted primer for stucco or EIFS
- Sand adds tooth for finish applications
- Increases finish coverage and equalizes absorption
- Spray, brush or roller applied

Sanded Primecoat

Stucco & Base Coat Primer
Integrally Colored

Sanded Primecoat is a 100% pure acrylic formulated tinted primer with very good hiding power. It is designed for compatibility with Master Wall Superior Finishes, base coats, traditional stucco and One Coat Stuccos. Sanded Primecoat is available in all Master Wall colors and custom colors delivered in five-gallon (19L) pails.

Approved Substrates
Master Wall Base Coats
Concrete
Masonry
Stucco
One Coat Stucco
Others approved in writing

Application Procedure

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

Preparation - The substrate must be approved by Master Wall Inc., clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds or anything that would affect bond. Painted surfaces are not acceptable and must be removed.

Concrete - Must have cured a minimum of 28 days prior to the application of *Sanded Primecoat*. If form release agents or curing compounds exist on the surface, they must be removed with a solution of muriatic acid or similar product (with appropriate precautions). Remove any residual acid by flushing with water. All projections must be removed and any voids filled with F&M, F&M Plus, or MBB.

Masonry - Skim coat with F&M, F&M Plus, or MBB to achieve a smooth level surface. If joints are not struck flush, multiple coats may be required. Contact Master Wall for more information.

Stucco - Must have cured for a minimum of 7-14 days and be clean, dry and hard prior to the application of *Sanded Primecoat*. If additives were used in the stucco, it is recommended that a test patch be made to evaluate bond strength of the *Sanded Primecoat* to the stucco.

Master Wall EIFS - Install and prepare according to published guidelines.

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

Application - *Sanded Primecoat* can be applied by brush, roller, or airless spray equipment. When using a roller, a maximum 1/4" (19 mm) nap is recommended. Apply *Sanded Primecoat* in an even, continuous coat, maintaining a wet edge.

Clean Up
Tools and equipment can be cleaned with soapy water when *Sanded Primecoat* is wet.

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

Statistics
Coverage (Estimated/Varies)
Per Pail: 1000-1200 sf (93-112 sm)
Pail Weight: 53 lbs (24 kg)
Dry to Touch: 12 hour @ room temperature
Recoat Time: 2 hours @ room temperature
Drying Time: 12 hours @ room temperature
Application Range: 40°-110°F (5°-43°C)
Shelf Life: 2 years

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Roller-flex

- Top quality 100% pure acrylic coating
- For re-coating Master Wall Finishes or accent stripes
- Two coats recommended, spray, brush or roller applied



Roller-flex

Acrylic Coating

Integrally Colored

Roller-flex is a durable decorative architectural coating with excellent hiding power and workability. Roller-flex may be used to change colors of Master Wall Systems, as a coating over stucco products or as an accent color on decorative stucco trim pieces. Roller-flex is available in five-gallon (19L) pails and may be tinted to all Master Wall colors or custom colors and dries to a beautiful flat finish.

Approved Substrates
Concrete
Masonry
Stucco
Superior Finishes
Previously Painted Surfaces
Others approved in writing

Application Procedure

Job Conditions - Air and substrate temperature for application of Roller-flex 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 until Roller-flex is fully dried. 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. On previously painted surfaces, all loose, peeling and chalking paint must be removed. Any glossy surfaces must be sanded to provide appropriate bond.

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

Masonry - Skim coat with stucco to achieve a smooth level surface, if desired. If joints are not struck flush, multiple coats may be required. Contact Master Wall for more information.

Stucco - Must have cured, dry and ready for the application of Roller-flex. If additives were used in the stucco, it is recommended that a test patch be made to evaluate bond strength of the Roller-flex to the stucco.

Master Wall Superior Finishes—Clean and dry

Priming—Prime surfaces such as concrete, masonry and stucco with Master Wall Primecoat if required to equalize substrate absorption. Priming is not necessary over Master Wall Superior Finishes.

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

Application - Roller-flex can be applied by brush, roller, or airless spray equipment. When using a roller, a maximum 1/2" (19 mm) nap is recommended. Apply Roller-flex in an even, continuous coat, maintaining a wet edge. For professional results, two (2) coats of Roller-flex are recommended—especially when changing colors.

Clean Up
Tools and equipment can be cleaned with soapy water when Roller-flex is wet.

Limitations
Do not use Roller-flex as a finish directly over any Master Wall base coat.

Statistics

Coverage (Estimated/Varies)
1 coat: 1000-1200 sf (93-112sm)
Pail Weight: 53 lbs (24 kg)
Dry to Touch: 1/2 hour @ room temperature
Recoat: 2 hours @ room temperature
Drying Time: 12 hours @ room temperature
Application Range: 40°-110°F (5°-43°C)
Shelf Life: 2 years

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Elasto-flex

- Elastomeric acrylic coating
- Designed to bridge minor hairline cracks common in stucco
- 10 mil dry thickness recommended, typically 1-2 coats



Elasto-flex

Elasto-flex is a durable elastomeric architectural coating designed to bridge the minor cracking common in stucco applications. When dry it forms a stretchy rubber like film on the surface yet is vapor permeable. Elasto-flex is available in all Master Wall colors and custom colors delivered in five-gallon (19L) pails.

Approved Substrates
Superior Finishes
Stucco
Concrete
Brick
Masonry
Others approved in writing

Application Procedure

Job Conditions - Air and substrate temperature for application of *Elasto-flex* must be 50°F (10°C) or higher and must remain 50°F (10°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.

Surface Preparation - Surface temperature must be above 50°F (10°C). Surface must be clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents, and curing compounds. On previously painted surfaces, all loose, peeling and chalking paint must be removed. Any glossy areas must be sanded.

Concrete - Must have cured a minimum of 28 days prior to the application of *Elasto-flex*. If form release agents or curing compounds exist on the surface, they must be removed with an appropriate solution. Remove any residual solution by flushing with water.

Masonry - Clean, cured, dry and unpainted.

Stucco - Must be cured, dry and unpainted. If additives were used in the stucco, it is recommended that a test patch be made to evaluate bond strength of the *Elasto-flex* to the stucco.

Master Wall Superior Finishes - Clean and dry.

Priming - Prime new surfaces such as concrete, masonry and stucco with Master Wall *Primecoat* to equalize substrate absorption. Priming is not necessary over Master Wall Superior Finishes.

Mixing - Thoroughly stir *Elasto-flex* into a homogenous consistency. Small amounts of clean, potable water may be added to obtain a workable consistency. Do not over mix. Do not exceed 12 ounces (0.35L) of water per pail. Do not add accelerators or retarders to *Elasto-flex*.

Application - *Elasto-flex* can be applied by brush, roller, or airless spray equipment. When using a roller, a maximum 3/4" nap is recommended. Apply *Elasto-flex* in an even, continuous coat, maintaining a wet edge of 20 mils wet for a dry thickness of 10 mils.

Clean Up
Tools and equipment can be cleaned with soapy water when *Elasto-flex* is wet.

Limitations
Do not use *Elasto-flex* as a finish directly over any Master Wall base coat.

Statistics


Coverage (Estimated/Varies)
One Coat : 375-400 sf (34-37 sm)
Pail Weight: 53 lbs (24 kg)
Dry to Touch: 2-4 hours @ room temperature
Recoat Time: 8 hours @ room temperature
Application Range: 50°-110°F (5°-43°C)
Shelf Life: 2 years

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Vintage

- Antiquing accent for Master Wall finishes
- Spray on wall with garden-type sprayer and rub, sponge or brush to desired appearance
- Available in all standard Master Wall colors



Foam & Mesh Adhesive (F&M)

- Adhesive & Base Coat
- “Pail Base”
- Used as the base coat in the Aggre-flex Drainage System



F&M

Foam & Mesh Adhesive & Base Coat

Foam & Mesh Adhesive (F&M) is a high performance base coat and adhesive used in Master Wall Systems or over prepared substrates including brick, masonry, concrete and stucco. F&M is available in five-gallon (19L) pails and is mixed 1:1 with Portland cement to a creamy consistency. F&M trowels out smoothly with a stainless steel trowel and is the premium choice for embedding mesh or leveling walls.

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 II Portland cement to the half pail of F&M in a ratio of one-to-one by weight and mix to a homogeneous 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" (9.5 mm) stainless steel notched trowel with the ribbons no further than 3/4" (19 mm) o.c. 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.

Approved Substrates

Exterior gypsum sheathing (ASTM C79)

Dens Glass Gold®

GlasRoc®

FiberBond®

Gold Bond 4" xp®

Durock®

PemaBase®

Concrete

Brick

Masonry

Metal Lath

Others approved in writing

Statistics

Coverage (Estimated/Varies)

Adhesive & Standard Base: 120 sf (11 sm)

Single Layer Mesh Only: 240-280 sf (22-26 sm)

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

Notched Trowel Only: 135 sf (12.5 sm)

Pail Weight: 60 lbs (27kg)

Working Time: 1 hour @ room temperature

Drying Time: 12 hours @ room temperature

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

Shelf Life: 2 years

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



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F&M Mixing

- Mixed 1:1 with Portland cement. Mix the pail, split in half, fill to the top with cement and mix
- Let set 3-5 minutes then re-mix to a creamy consistency
- Add water as needed for workability – do not exceed 30 ounces of water per half pail



Master Wall Bagged Base (MBB)

- Dry base coat – won't freeze in dry form
- Just add water and go
- Add some water to the bottom of the pail
- Pour in MBB and mix – let set 3-5 minutes
- Remix and add water as needed for workability



MBB

Master Wall Bagged Base

(MBB) is a dry version of our Foam & Mesh Adhesive (F&M). Use MBB as an adhesive or base coat in Master Wall Systems or over prepared substrates including brick, masonry, concrete and stucco. MBB is freeze stable in dry form and is easily mixed with clean potable water to a creamy consistency.

Approved Substrates

- Exterior gypsum sheathing (ASTM C79)
- Dens Glass Gold®
- GlasRoc®
- FiberBond®
- Gold Bond e'xp®
- Durock®
- PermaBase®
- Concrete
- Brick
- Masonry
- Metal Lath
- Others approved in writing

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" (12.7 mm) 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" (9.5 mm) notched trowel with the ribbons no further than 3/4" (19 mm) o.c. 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 5 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.

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 resped 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 on 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.

Statistics

Coverage (Estimated/Varies)

- A-9 Resive & Standard Esbe: 50-60 sf (4.6-5.6 sm)
- Single Layer Mesh Only: 100-125 sf (9-11.5 sm)
- Double Layer Mesh Only: 30-110 sf (2.5-10 sm)
- Notched Trowel Only: 56 sf (5.2 sm)


Bag Weight: 50 lbs (22.7kg)

Working Time: 1 hour @ room temperature

Drying Time: 12 hours @ room temperature

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

Shelf Life: 1 year



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F&M Plus

- High build adhesive and base coat with fibers for durability
- Use in areas that require a lot of leveling – can be applied up to 1/4" thick
- Mixed same as F&M, 1:1 with Portland cement



F&M Plus

High Build Foam & Mesh
Adhesive & Base Coat

F&M Plus is the high-build version of our Foam & Mesh

Adhesive (F&M) used in Master Wall Systems or over prepared substrates. Fibered F&M Plus is available in five-gallon (19L) pails and is mixed 1:1 with Portland cement to a creamy consistency. F&M Plus trowels out smoothly with a stainless steel trowel to provide superior leveling capability up to 1/4" (6.4 mm) thickness.

Application Procedure

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

Preparation - The substrate must be approved by Master Wall Inc., clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds or anything that would affect bond. Painted surfaces are not acceptable and must be removed.

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

Application

Adhesive application - Over gypsum substrates, apply the F&M Plus mixture directly to the back of the insulation board using a 3/8" (9.5 mm) notched trowel with the ribbons no further than 3/4" (19 mm) o.c. With the trowel at a 45° angle, cover the entire back of the insulation board with full beads of adhesive. Apply the adhesive so the ribbons run vertically when applied to the wall.

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

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

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

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

Statistics

Coverage (Estimated/Varies)

Adhesive & Standard Base: 120 sf (11 sm)

Single Layer Mesh Only: 240-280 sf (22-26 sm)

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

Notched Trowel Only: 135 sf (12.5 sm)

Pail Weight: 60 lbs (27kg)

Working Time: 1 hour @ room temperature

Drying Time: 12 hours @ room temperature

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

Shelf Life: 2 years

Approved Substrates

- Exterior gypsum sheathing (ASTM C79)
- Dens Glass Gold®
- GlasRoc®
- FiberBond®
- Gold Bond e'xp®
- Durock®
- PermaBase®
- Concrete
- Brick
- Masonry
- Metal Lath
- Others approved in writing



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Guardian

- Waterproof base coat and adhesive with fibers
- Mixed 1:1 with Portland cement just like F&M but pail is lighter – use 22-1/2 lbs of cement
- Use it where you need extra water protection such as large slopes and parapet caps
- Dries darker than F&M. Sometimes a skim coat of F&M is needed to minimize color variations



Guardian

Guardian is used as a fibered, flexible Waterproof Coating adhesive, sealer and/or base coat in Master Wall Systems or over prepared substrates including brick, masonry, concrete and stucco. It may also be used as a protective base coat on sloped surfaces or below grade waterproofing conditions when applied as a sealer. Guardian is available in five-gallon (19L) pails and is mixed 1:1 with Portland cement to a creamy consistency.

Approved Substrates
Exterior gypsum sheathing (ASTM C79)
Dens Glass Gold®
GlasRoc®
FiberBond®
Gold Bond e'xp®
Durock®
PermaBase®
Concrete
Brick
Masonry
Metal Lath
Others approved in writing

Application Procedure
Job Conditions - Air and substrate temperature for application of Guardian must be 40°F (5°C) or higher and must remain 40°F (5°C) or higher for a minimum of 24 hours. Provide temporary protection to protect the wall system from damage until permanent flashings, caps and sealants are installed. Store materials within prescribed temperature limits and out of direct sunlight. Working and drying times are based upon normal room temperature conditions and will vary with temperature and humidity.
Preparation - The substrate must be approved by Master Wall Inc., clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds or anything that would affect bond. Painted surfaces are not acceptable and must be removed.
Mixing - Thoroughly stir Guardian using a heavy duty 1/2" (12.7 mm) drill at 400 - 500 rpm and a heavy duty mixing paddle. Pour half of the stirred Guardian (22-1/2 lbs, 10.2 kg) into a clean plastic pail. Add Type I or I-II Portland cement in a ratio of one-to-one by weight (22-1/2 lbs, 10.2 kg) and mix to a homogenous consistency. Let the mixture stand for 3 to 5 minutes, and then stir to a creamy consistency. Up to 18 ounces (0.5L) of clean, potable water may be added to a half pail to adjust workability. Do not over mix as faster setting or reduced working time can occur. Do not add accelerators or retarders to the Guardian mixture.
Application
Adhesive/Sealer application - Apply the Guardian mixture approximately 1/8" (3.2 mm) thick directly to the approved substrate using a stainless steel trowel. If used to adhere insulation, stipple the Guardian adhesive coat by pressing the trowel into the wet adhesive and then pulling it away from surface. Immediately apply the insulation board to the wet adhesive. Make sure that all edges of the insulation board are abutted tightly and that no Guardian mixture gets into the board joints. Do not allow the Guardian mixture to form a skin prior to placing the insulation board on the substrate.
For base coat application - All imperfections in the insulation board must be rasped flush and any gaps in the insulation board must be filled with slivers of insulation. Apply the Guardian mixture over the entire surface of the insulation board in a thickness greater than that of the reinforcing fabric being used (approximately 1/16" (1.6 mm) for standard mesh and 3/32" (2.4 mm) for Ultra Mesh). Immediately embed the reinforcing fabric into the wet Guardian mixture and smooth from the center to the edge to avoid wrinkles. The reinforcing fabric must be continuous at all corners and lapped or abutted in accordance to Master Wall specifications. The color of the mesh shall not be visible but a slight mesh pattern may be visible.
For Sloped Surfaces—Embed reinforcing mesh in Guardian as noted in the base coat application. If Guardian is used on the sloped surface only, consider a skim coat of the wall base coat to equalize finish absorption and color. Minimum recommended slope is 1:2 and maximum run is 18" (0.46m) with two-layers of Standard Mesh. Consult Master Wall and local code requirements for specifics.
Clean Up—Tools and equipment can be cleaned with soapy water while the Guardian is still wet.

Statistics
Coverage (Estimated/Varies)
1/8" (3.2 mm) sealer: 80-90 sf (7.5-8.3 sm)
1/16" (1.6 mm) base coat: 160-180 sf (15-17 sm)
Pail Weight: 45 lbs (20.4 kg)
Working Time: 1 hour @ room temperature
Drying Time: 12 hours @ room temperature
Application Range: 40°-110°F (5°-43°C)
Shelf Life: 2 years

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Quick Set MBB

- Quick setting bagged base coat and adhesive
- Mixes and works the same as MBB with the opportunity to adhere and base in the same day



Quick Set MBB

Fast Set Master Wall Bagged Base Adhesive & Base Coat

Master Wall Quick Set Bagged Base (QSMBB) is a fast-setting dry version of our Foam & Mesh Adhesive (F&M). Use QSMBB as an adhesive or base coat in Master Wall Systems or over prepared substrates including brick, masonry, concrete and stucco. QSMBB is freeze stable in dry form and is easily mixed with clean potable water to a creamy consistency.

Application Procedure

Job Conditions - Air and substrate temperature for application of QSMBB 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 QSMBB slowly while stirring using a heavy-duty 1/2" (12.7 mm) 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 QSMBB mixture.

Application

Adhesive application - Over gypsum substrates, apply the QSMBB mixture directly to the back of the insulation board using a 3/8" (9.5 mm) notched trowel with the ribbons no further than 3/4" (19 mm) o.c. 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 QSMBB mixture around the entire perimeter of the insulation board. Place 8 dabs of the QSMBB 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 QSMBB mixture gets into the board joints. Do not allow the QSMBB mixture to form a skin prior to placing the insulation board on the substrate. Do not apply the QSMBB 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 QSMBB 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 QSMBB 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 QSMBB is still wet.

Approved Substrates

- Exterior gypsum sheathing (ASTM C79)
- Dens Glass Gold™
- GlasRoc™
- FiberBond™
- Gold Bond e'xp™
- Durock™
- PermaBase™
- Concrete
- Brick
- Masonry
- Metal Lath
- Others approved in writing

Statistics

Coverage (Estimated/Varies)

Adhesive & Standard Base: 50-60 sf (4.6-5.6 sm)

Single Layer Mesh Only: 100-125 sf (9-11.5 sm)

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

Notched Trowel Only: 56 sf (5.2 sm)

Bag Weight: 50 lbs (22.7kg)

Working Time: 3/4 hour @ room temperature

Drying Time: 3-4 hours (adhesive), 2 hours (base coat) @ room temperature

Application Range: 40°-70°F (5°-21°C)

Shelf Life: 1 year

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Expanded PolyStyrene Adhesive (EPSA)

- Ready to use adhesive for wood-based and gypsum sheathing
- Does not contain cement
- Creamy, easy to mix with good initial grab
- Uses 3/8" x 1/2" U-notched trowel
- Not for treated wood (fire, decay, etc.)



Expanded PolyStyrene Adhesive

Expanded **Expanded PolyStyrene Adhesive** **Non-cement Adhesive**

PolyStyrene Adhesive (EPSA) is a one-part adhesive used in Master Wall Systems or over prepared approved substrates. EPSA is available in five-gallon (19L) pails and offers excellent initial grab with strong long term bond.

Approved Substrates
Exterior gypsum sheathing (ASTM C79)
Dens Glass Gold®
GlasRoc®
FiberBond®
Exterior Plywood
Oriented Strand Board
Others approved in writing

Application Procedure

Job Conditions - Air and substrate temperature for application of EPSA must be 45°F (7°C) or higher and must remain 45°F (7°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 or treated wood panels are not acceptable. For installation of wood-based sheathings, follow the American Plywood Association guidelines.

Mixing - Thoroughly stir EPSA using a heavy duty 1/2" (12.7 mm) drill at 400 - 500 rpm and a heavy duty mixing paddle. Do not add water.

Application

Adhesive application - Apply the EPSA directly to the back of the insulation board using a 3/8" x 1/2" (9.5 mm x 12.7 mm) U-notched trowel with the ribbons no further than 2" (50.8 mm) o.c. With the trowel at a 45° angle, cover the entire surface of the back of the insulation board with full beads of adhesive formed by the notched trowel.

Immediately place the prepared insulation board on the substrate. Make sure that all edges of the insulation board are abutted tightly and that no EPSA gets into the board joints. Do not allow the EPSA mixture to form a skin prior to placing the insulation board on the substrate. Apply firm pressure to the entire surface of the insulation board to ensure solid contact between the insulation board and the substrate. Do not apply the EPSA mixture directly onto the substrate.

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

Statistics

Coverage (Estimated/Varies)

Pail Pail: 150-225 sf (14-21 sm)
Pail Weight: 45 lbs (20kg)

Working Time: 1hr @ room temperature

Drying Time: 24 hours @ room temperature

Application Range: 45°-110°F (7°-43°C)

Shelf Life: 2 years

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Expanded PolyStyrene Base (EPSB)

- Ready to use base coat
- Does not contain cement
- Has fibers for durability
- Mix and go
- Put a lid on it if you have a partial pail at the end of the day



Expanded PolyStyrene Base

Non-cement Base Coat

Expanded PolyStyrene
Base (EPSB) is a fibered non-cement base coat for Master Wall Systems. It's ready to use out of the pail after pre-mixing and is available in five-gallon (19L) pails. EPSB dries to a durable, flexible off-white base coat that can be tinted.

Approved Substrates
Master Wall Insulation Board
Others approved in writing

Application Procedure

Job Conditions - Air and substrate temperature for application of EPSB must be 45°F (7°C) or higher and must remain 45°F (7°C) or higher for a minimum of 24 hours. Working and drying times are based upon normal room temperature conditions and will vary with temperature and humidity.

Temporary Protection - Must be provided at all times until the EIF System, including flashings, caps, and sealants, is completed to provide protection from climatic conditions and other potential damage.

Surface Preparation - The Master Wall insulation board must be well adhered to the substrate. All imperfections in the insulation board must be rasped flush and any gaps in the insulation board must be filled with slivers of insulation. Surface temperature must be above 45°F (7°C).

Mixing - Thoroughly stir EPSB using a heavy duty 1/2" (12.7 mm) drill at 400 - 500 rpm and a heavy duty mixer. Small amounts of clean, potable water may be added to obtain a workable consistency. Do not over mix. Do not exceed 12 ounces (0.35L) of water per pail. Do not add accelerators or retarders to EPSB.

Application - Apply the EPSB 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 EPSB 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 when the EPSB is wet.

Limitations
Do not over mix.


Make sure that the EPSB coat is completely dry prior to the application of Master Wall Superior Finish Coat. Slope surfaces a minimum of 1:2 to shed water. While drying, the EPSB coat must not be in contact with any moisture or localized delamination may occur.

Statistics

Coverage (Estimated/Varies)

Single Layer Mesh Only: 110-130 sf (10-12 sqm)
Pail Weight: 60 lbs (27 kg)

Working Time: 1 hour @ room temperature
Drying Time: 12 hours @ room temperature
Application Range: 45°-110°F (7°-43°C)
Shelf Life: 2 years



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One Coat Stucco (OCS)

- Fibered stucco concentrate
- Applied thinner than traditional stucco
- Add water and 200# sand
- Finish with Superior Finishes



OCS

One Coat Stucco

Concentrate: Add Sand & Water

Master Wall OCS is a fibered type Portland cement-based bagged stucco with exceptional workability, open working time, water retention, early strength, shrinkage resistance and long-term durability. OCS is typically applied thinner than traditional stucco and is mixed at time of use with sand and water.

Application Procedure

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

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

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

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

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

Application
Apply OCS by hand or machine to a minimum nominal thickness of 3/8" (9.5 mm) for masonry, concrete and stucco applications. Measure stucco coat thickness from the back of the metal plaster base not including ribs and dimples or from the face of solid substrates exclusive of texture variations. Where plaster abuts dissimilar materials, provide for separation. To avoid cold joints the application should stop at corner angles, rustications, openings and control joints.

On metal plaster bases, apply OCS with sufficient material and pressure to totally embed the metal base. A second pass may be required to obtain the minimum thickness of 3/8" (9.5 mm), 1/2" (12.7 mm) suggested for better lath coverage. Rod or straight edge the surface to provide an even base for the Superior Finish.

On solid plaster bases, dampen high-suction bases with clean water, BA57 or Stucco Ad-Liquid prior to the application of OCS. Rod or straight edge the surface to provide an even base for the Superior Finish.

Approved Substrates

(2.5Mil self-furring metal lath)
Exterior gypsum sheathing
(ASTM C79)
Dens Glass Gold®
GlasRoc®
FiberBond®
Durock®
PermaBase®
OSB/Plywood
(Direct Applications)
Concrete
Brick
Masonry
Others approved in writing

Statistics

Coverage (Estimated/Varies)

3/8" (9.5 mm) thick: 80 sf (7.4 sm)
1/2" (12.7 mm) thick: 70 sf (6.5 sm)
3/4" (19 mm) thick: 40 sf (3.7 sm)

Bag Weight: 80 lbs (36 kg)

Working Time: 1-1/2 hours @ room temperature

Curing Time: 24 hours @ room temperature

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

Shelf Life: 1 year

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Ready OCS

- Ready-mixed version of One Coat Stucco
- Just add water and mix to a trowel-grade consistency



Ready OCS

One Coat Stucco

Add Water

Master Wall Ready OCS is a fibered type Portland cement-based bagged stucco with exceptional workability, open working time, water retention, early strength, shrinkage resistance and long-term durability. OCS is typically applied thinner than traditional stucco and is mixed at time of use with water.

Approved Substrates
(2 mils self-furring metal lath)
Exterior gypsum sheathing (ASTM C79)
Dens Glass Gold®
GlasRoc®
FiberBond®
Durock®
PermaBase®
OSB/Plywood
(Direct Applications)
Concrete
Brick
Masonry
Others approved in writing

Application Procedure

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

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

Prepare smooth or non-absorbent solid substrates by one of the following methods or a combination: Sandblasting, chipping or acid etching. A dash-bond coat applied forcefully, bonding compounds such as Master Wall Stucco Ad-Liquid or BAS7, Furred or self-furring metal plaster bases as per ASTM C1063.

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

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

Application
Apply OCS by hand or machine to a minimum nominal thickness of 3/8" (9.5 mm) for masonry, concrete and stucco applications. Measure stucco coat thickness from the back of the metal plaster base not including ribs and dimples or from the face of solid substrates, exclusive of texture variations. Where plaster abuts dissimilar materials, provide for separation. To avoid cold joints the application should stop at corner angles, rustications, openings and control joints.

On metal plaster bases, apply Ready OCS with sufficient material and pressure to totally embed the metal base. A second pass may be required to obtain the minimum thickness of 3/8" (9.5 mm), 1/2" (12.7 mm) suggested for better lath coverage. Rod or straight edge the surface to provide an even base for the Superior Finish.

On solid plaster bases, dampen high-suction bases with clean water, BAS7 or Stucco Ad-Liquid prior to the application of Ready OCS. Rod or straight edge the surface to provide an even base for the Superior Finish.

Curing—Most cure using fogging, plastic films or other method acceptable to the design professional for 48-72 hours. Mixes with Stucco Ad-Liquid do not need moist curing. Allow to fully cure until clean, dry and hard before finishing—typically 7-14 days. See Master Wall Technical Bulletins and data sheets for additional curing, drying and application recommendations.

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

Statistics

Coverage (Estimated/Varies)

3/8" (9.5 mm) thick: 22 sf (2 sm)
1/2" (12.7 mm) thick: 20 sf (1.8 sm)
3/4" (19 mm) thick: 11 sf (1 sm)

Bag Weight: 80 lbs (36 kg)

Working Time: 1.5 hours @ room temperature

Drying Time: 24 hours @ room temperature

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

Shelf Life: 1 year

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Cemplaster Stucco

- Traditional stucco with a Master Wall warranty
- Mixed with water and 200# sand
- Fibers added for durability

Cemplaster Stucco

Bag Mix Concentrate

Add Sand and Water

Master Wall Cemplaster Stucco is a fibered type Portland cement-based bagged stucco meeting ASTM C926 and related building code standards. It offers exceptional workability, open working time, water retention, early strength, shrinkage resistance and long-term durability.

Approved Substrates
(2" heavy self-furring metal lath)
Exterior gypsum sheathing (ASTM C79)
Dens-Glass Gold®
GlasRoc®
FiberBond®
Durock®
PermaBase®
OSB/Plywood
(Direct Applications)
Concrete
Brick
Masonry
Others approved in writing

Application Procedure

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

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

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

Mixing - Each bag of Cemplaster Stucco is mixed with 200 lbs (90.7 kg) of sand aggregate (ASTM C-897 or ASTM C-144) and clean, potable water, 200 lbs is roughly 2.5 cubic feet (0.07 cubic meters) of clean, damp-loose sand or 2-3/4 Master Wall pails, filled. Using a clean mixer, first add 1/2 to 2/3 the water required, 1/2 the sand, 1 bag Cemplaster Stucco, then the rest of the sand and water to achieve the desired workability. Mix materials for 3 to 5 minutes after all materials are in the mixer. Total water content can vary between 4 to 6.5 gallons (15-24.5L). Stucco Ad-Liquid may also be used instead of an equal amount of water. See system data sheet for specific levels required for increased warranties.

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

Application

Apply Cemplaster Stucco by hand or machine to a nominal thickness of 3/8" (9.5 mm) for direct applications, 3/4" (19 mm) over metal plaster bases (for a nominal thickness of 7/8" (22.2 mm) with Superior Finishes). Apply according to ASTM C926 and C1063 requirements. When base (scratch) application has firmed enough to support a second coat, finish to desired base coat thickness. Where plaster abuts dissimilar materials, provide for separation. To avoid cold joints the application should stop at corner angles, rustications, openings and control joints.

Curing—Moist cure using fogging, plastic films or other method acceptable to the design professional for 48-72 hours. Mixes with Stucco Ad-Liquid do not need moist curing. Allow to fully cure until clean, dry and hard before finishing—typically 7-14 days. See Master Wall Technical Bulletins and data sheets for additional curing, drying and application recommendations.

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

Statistics

Coverage (Estimated/Varies)
3/8" (9.5 mm) Thick: 80 sf (7.4 sm)
1/2" (12.7 mm) Thick: 70 sf (6.5 sm)
3/4" (19 mm) Thick: 40 sf (3.7 sm)

Bag Weight: 80 lbs (36 kg)

Working Time: 1-1/2 hours @ room temperature

Drying Time: 24 hours @ room temperature

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

Shelf Life: 1 year

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Ready Cemplaster Stucco

- Ready to use
- Just add water and mix to a trowel grade consistency

Ready Cemplaster Stucco

Master Wall Ready Cemplaster Stucco is a Ready Mix Stucco
fibered type Portland cement-based Add Water

bagged stucco meeting ASTM C926 and related building code standards. It offers exceptional workability, open working time, water retention, early strength, shrinkage resistance and long-term durability. Use Ready Cemplaster Stucco as an alternative to the concentrate version in the Cemplaster Stucco System.

Approved Substrates
(2 Satisfy self-furring metal lath)
Exterior gypsum sheathing (ASTM C79)
Dens Glass Gold®
GlasRoc®
FiberBond®
Durock®
PermaBase®
OSB/Plywood (Direct Applications)
Concrete
Brick
Masonry
Others approved in writing

Application Procedure

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

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

Prepare smooth or non-absorbent solid substrates by one of the following methods or a combination; Sandblasting, chipping or acid etching. A dash-bond coat applied forcefully, bonding compounds such as Master Wall Stucco Ad Liquid or BAS7, Furred or self-furring metal plaster bases as per ASTM C1063.

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

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

Application

Apply Ready Cemplaster Stucco by hand or machine to a nominal thickness of 3/8" (9.5 mm) for direct applications, 3/4" (19 mm) over metal plaster bases (for a nominal thickness of 7/8" (22.2 mm) with Superior Finishes). Apply according to ASTM C926 and C1063 requirements. When base (scratch) application has firmed enough to support a second coat, finish to desired base coat thickness. Where plaster abuts dissimilar materials, provide for separation. To avoid cold joints the application should stop at corner angles, rustications, openings and control joints.

Curing—Moist cure using fogging plastic films or other method acceptable to the design professional for 48-72 hours. Mixes with Stucco Ad-Liquid do not need moist curing. Allow to fully cure until clean, dry and hard before finishing—typically 7-14 days. See Master Wall Technical Bulletins and data sheets for additional curing, drying and application recommendations.

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

Statistics

Coverage (Estimated/Varies)

3/8" (9.5 mm) thick: 22 sf (2 sm)
1/2" (12.7 mm) thick: 20 sf (1.8 sm)
3/4" (19 mm) thick: 11 sf (1 sm)

Bag Weight: 80 lbs (36 kg)

Working Time: 1.5 hours @ room temperature

Drying Time: 24 hours @ room temperature

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

Shelf Life: 1 year

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Aggre-flex Mesh

- Reinforces the Master Wall System
- Many different mesh weights are available depending upon the needs
- Detail mesh is soft and pliable for backwrapping or special details



Aggre-flex Mesh

Glass Fiber
Master Wall Systems

Master Wall Aggre-flex Mesh is a specially woven, treated glass fiber mesh that is specially coated for compatibility with Master Wall base coats. These smooth working meshes give Master Wall Systems crack and impact resistance while helping smooth the base coat during application.

General	Mesh	Weight	Roll Size	Coverage*
Mesh Properties	Detail	4.5 oz/sy (113 g/sm)	9.5' x 150' (96.5cm x 45.7m)	119 sf (11 sm)
ASTM D76	Standard	4.5 oz/sy (113 g/sm)	38' x 150' (96.5cm x 45.7m)	475 sf (44.1 sm)
ASTM D579	Hi-Tech	6.0 oz/sy (202 g/sm)	38' x 150' (96.5cm x 45.7m)	475 sf (44.1 sm)
ASTM D5035	Medium	10.4 oz/sy (261 g/sm)	38' x 75' (96.5cm x 22.8m)	238 sf (22.1 sm)
MIL-Y-1140	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)

Weave: Leno *Allow about 10% waste for lapping all meshes (Strong and Ultra Meshes are butted). Coverage will vary.

Mesh Types

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 with Standard Mesh Hi-Tech Mesh, or Medium Mesh.

Application Procedure

Job Conditions - Air and substrate temperature for application 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 Mesh or Ultra 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.

Impact (EIMA 101.86)	Medium Impact Resistance	50-89 in-lbs (5.7-10 J)
Standard Mesh	Medium Impact Resistance	50-89 in-lbs (5.7-10 J)
Hi Tech Mesh	Medium Impact Resistance	50-89 in-lbs (5.7-10 J)
Medium Mesh	Medium Impact Resistance	50-89 in-lbs (5.7-10 J)
Medium & Standard	High Impact Resistance	90-150 in-lbs (10.2-17.0 J)
Strong & Standard	High Impact Resistance	90-150 in-lbs (10.2-17.0 J)
Ultra & Standard	Ultra High Impact Resistance	150+ in-lbs (over 17.0 J)



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Self-Adhesive Mesh

- Self adhesive mesh for use with WeatherStop
- Not for standard system applications

Self-Adhesive Mesh

Master Wall Self-Adhesive Mesh is a woven, Standard Mesh treated glass fiber mesh that is specially coated for compatibility with Master Wall products. The self-adhesive properties allow easier application of Master Wall decorative trim pieces over a fully-reinforced Master Wall System or stucco wall decorations as well as part of the WeatherStop water barrier application.

With Adhesive Coating

Application Procedure

General—The substrate must be clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds. Painted surfaces are not acceptable and the paint must be removed.

Job Conditions - Air and substrate temperature for application of the *Self-Adhesive Mesh* must be 40°F (5°C) or higher and must remain 40°F (5°C) or higher for a minimum of 24 hours.

Mesh Properties

ASTM D76
ASTM D579
ASTM D5035
MIL-Y-1140

Weave: Leno
Weight: 4.5 oz/sy (120 g/sm)

Tensile Strength

Warp/fill: 140/170 lb/in

Impact Resistance

Medium (EIMA 101.86)
50-89 in-lbs (10.2-17.0J)

Widths & Packaging

4' x 150' (10.2 cm x 45.7 m)
24 rolls/case, 8 cases/pallet

9.5' x 150' (24.1 cm x 45.7 m)
12 rolls/case, 8 cases/pallet

18" x 150' (45.7 cm x 45.7 m)
4 rolls/case, 9 cases/pallet

36" x 150' (96.5 cm x 45.7 m)
4 rolls/case, 9 cases/pallet

Temporary Protection

Must be provided at all times until the wall system, including flashings, caps, and sealants, is completed to provide protection from climatic conditions and other potential damage.

Installation

Apply *Self-Adhesive Mesh* according to Master Wall Specifications. In general, *Self-Adhesive Mesh* is centered on the approved sheathing joints, corners, etc. prior to the application of *WeatherStop* or other approved Master Wall base coat or weather barrier. Lap *Self-Adhesive Mesh* a minimum of 2-1/2" (63.5 mm).

Limitations

Self-Adhesive Mesh is not intended for use as the exterior or primary reinforcement of any Master Wall Systems. For decorative shapes, a full layer of Standard Mesh should be used under the shapes when using Master Wall EIF Systems.

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Rollershield Mesh

- Lightweight mesh for use at sheathing joints and terminations
- Self Adhesive



Rollershield Mesh

Master Wall Rollershield Mesh is a Lightweight Mesh self-adhesive mesh is a lightweight woven, glass fiber mesh that is specially coated for compatibility with Master Wall Rollershield. The self-adhesive properties allow easier application with Rollershield.

Mesh Properties
ASTM C474
ASTM C475
Weave: 20x10

Widths & Packaging
1-7/8" x 300' (47.6 mm x 91.4 m)

Application Procedure
General—The substrate must be clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds. Painted surfaces are not acceptable and the paint must be removed.
Job Conditions - Air and substrate temperature for application of the *Rollershield Mesh* must be 40°F (5°C) or higher and must remain 40°F (5°C) or higher for a minimum of 24 hours.

Temporary Protection - Must be provided at all times until the wall system, including flashings, caps, and sealants, is completed to provide protection from climatic conditions and other potential damage.

Installation - Apply *Rollershield Mesh* according to Master Wall Specifications. In general, *Rollershield Mesh* is centered on the approved sheathing joints, corners, substrate transitions, etc. prior to the application of *Rollershield* weather barrier. Apply *Rollershield Mesh* and immediately paint or trowel *Rollershield* to hold it in place. See *Rollershield* Data Sheet for specific instructions. Lap *Rollershield Mesh* a minimum of 2-1/2" (63.5 mm).

Limitations
Rollershield Mesh is not intended for use as the exterior or primary reinforcement of any Master Wall Systems or for use with any other water barriers or base coats except *Rollershield*.

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Aggre-flex Insulation

- High performance insulation made to Master Wall standards
- R-value is about R-4 per inch
- Come in 2'x4' sheets and Master Wall bags



Insulation Board

Manufactured for Master Wall Systems
Molded Expanded Polystyrene

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.

Properties
Meets or Exceeds:
ASTM C578, ASTM C273, ASTM D1623
Classification: Type I
Density, lb/ft³ (kg/m³):
0.95 (15.2) min., 1.25 (20.0) max.
Thermal Resistance per inch (25.4mm) thickness, min. FR: h/Btu (K·m²/W):
@40°F (4.4°C) 4.00 (0.70)
@75°F (23.9°C) 3.60 (0.63)
Compressive strength, min., PSI (kPa): 10.0 (69)
Tensile strength min., PSI (kPa): 15.0 (103)
Flexural Strength, min., PSI (kPa): 25.0 (172)
Shear modulus, max., PSI (kPa): 400 (2758)
Water Vapor Permeance of 1.00 in (25.2 mm) thickness, max., perm (ng/Pa.s.m²): 5.0 (2.87)
Water absorption by total immersion, max., volume, %: 2.5
Dimensional stability (change in dimensions), max., %: 2.0
Oxygen index, min., volume, %: 24.0
Flame spread, max.: 25.0
Smoke development, max. 450
Board thickness:
Maximum 4" (102mm)
Minimum 3/4" (19.1mm)
Drainage Board min. 1-1/2" (38.2 mm)
Board width, max.: 24" (610mm)
Board length, max.: 48" (1219mm)

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 MEPS 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.

Estimated Coverage by Thickness
Varies by manufacturer facility:
• 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, 48 sf (4.46 sm)
• 4" (101.6 mm): 5 pcs, 40 sf (3.72 sm)

Limitations
• The minimum required thickness for MEPS in the Master Wall Aggre-flex PB EIF System is 3/4" (19.2 mm) at any location on the wall.
• The maximum thickness for MEPS is 4" (102 mm) as set by most building code agencies.
• MEPS shall not be used in interior applications.
• Residential applications require a secondary water barrier and mechanical attachment with the option of flat or drainage insulation board. See Aggre-flex Drainage Details for insulation board construction.

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Stucco Ad-Liquid

- 100% acrylic modifier for stucco
- Improves crack resistance, eliminates the need to fog the wall
- Improves the freeze/thaw stability of the stucco
- Use right from the pail as a substitute for water or dilute
- Available in 5-gallon pails or 55 gallon drums

Stucco Ad-Liquid

Stucco Additive
100% Acrylic

Approved For
Portland Cement Plaster
(Stucco)
One Coat Stucco (OCS)
Others approved in writing

Stucco Ad-Liquid is an easy to use polymer modifier that is added directly to the stucco or One Coat Stucco (OCS) mix to improve the overall quality of the material. Stucco Ad-Liquid improves stucco freeze/thaw stability, adhesion, cohesion, tensile strength, compressive strength and flexural strength. Helps to reduce shrinkage and drying cracks and, in most cases, fogging walls can be eliminated. Stucco Ad-Liquid is available in five-gallon (19L) pails and 55 gallon (208L) drums weighing 462 lbs (210 kg).

Application Procedure

Job Conditions - Air and substrate temperature for application of *Stucco Ad-Liquid* must be 40°F (5°C) or higher and must remain 40°F (5°C) or higher for a minimum of 24 hours.

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

Surface Preparation - Surface temperature must be above 40°F (5°C). Surface must be clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents, paint and curing compounds.

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

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

Application

Apply stucco mix according to locally, regionally and nationally accepted practices to the specified thicknesses. When drying, *Stucco Ad-Liquid* forms a film or sheen that aids in the hydration of the stucco. Where approved locally, fogging the wall to aid in stucco curing may be eliminated.

For Professional Results

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

Clean Up

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

Statistics

Suggested Levels (Varies)
One Coat Stucco (OCS): 3 quarts to 5 gallons (2.8-19L) per mix
Stucco: 6 quarts to 5 gallons (5.6-19L) per mix
Pail Weight: 42 lbs (19 kg)
Drum Weight: 462 lbs (210 kg)
Application Range: 40°-110°F (5°-43°C)
Shelf Life: 2 years

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BA57

- Bonding agent for stucco or exterior gypsum sheathing
- Primer for WeatherStop flashing and sheathing tapes
- Translucent



BA57

Bonding Agent

100% Acrylic

Approved Substrates
Exterior gypsum sheathing (ASTM C79)
Dens Glass Gold®
GlasRod®
FiberBond®
Gold Bond e²xp®
Durock®
PermaBase®
Concrete
Brick
Masonry
Stucco/One Coat Stucco
Others approved in writing

BA57 is a 100% acrylic bonding agent used to prepare surfaces of concrete, masonry, stucco, and exterior gypsum sheathing to help enhance the bond of Master Wall products or traditional stucco. It helps to control excessive absorption of stuccos and One Coat Stuccos over highly porous surfaces and improves bond of Master Wall WeatherStop Tapes. BA57 is available in five-gallon (19L) pails and is typically applied with a brush, roller or spray equipment.

Application Procedure
Job Conditions - Air and substrate temperature for application of BA57 must be 40°F (5°C) or higher and must remain 40°F (5°C) or higher for a minimum of 24 hours.

Temporary Protection - Must be provided at all times until the BA57 has dried or is ready for application.

Surface Preparation - Surface temperature must be above 40°F (5°C). Surface must be clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents, and curing compounds. On previously painted surfaces, all loose, peeling and chalking paint must be removed. Any gummy areas must be sanded.

Concrete - Must have cured a minimum of 28 days prior to the application of BA57. If form release agents or curing compounds exist on the surface, they must be removed with a solution of muriatic acid or similar product (with appropriate precautions). Remove any residual acid by flushing with water.

Masonry - must be dry, clean and prepared. Flush masonry joints are preferred. Contact Master Wall for more information.

Stucco - Must have been cured. Dry and ready to receive BA57. If additives were used in the stucco, it is recommended that a test patch be made to evaluate bond strength of the BA57 to the stucco.

Exterior Gypsum Sheathing—Install and prepare according to accepted practices. BA57 may be reduced with 1 part water to 1 part BA57 over gypsum substrates.

Bonding Agent for WeatherStop Flashing Tapes—Clean & Dry

Mixing - Thoroughly stir BA57 into a homogenous consistency. Avoid introducing air into the coating. Do not over mix. Do not add accelerators or retarders to BA57.

Application - BA57 can be applied by brush, roller, or airless spray equipment. When using a roller, a maximum 3/8" nap is recommended. Apply BA57 in an even, continuous coat, maintaining a wet edge. When used as a bonding agent, allow to tackify prior to application of stucco.

Clean Up
Tools and equipment can be cleaned with water when BA57 is wet.

Limitations
BA57 should not be used as a primer color coat.

Statistics
Coverage (Estimated/Varies)
Per Pail: 1000-1200 sf (74-112 sm)
Pail Weight: 40 lbs (18 kg)
Dry to Touch: 1/2 hour @ room temperature
Recoat: 6 hours @ room temperature
Application Range: 40°-110°F (5°-43°C)
Shelf Life: 2 years

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Rollershield

- Acrylic air and water barrier
- Use Rollershield Mesh and Rollershield at joints, spot fasteners
- Roll, trowel or spray a full layer of Rollershield over the entire surface with no voids or pinholes



Rollershield

Rollershield is a high quality 100% acrylic Air/Water Barrier roll applied flexible air and water barrier. Roller or Spray Application

Easily applied with brush, roller or airless sprayer, it helps protect approved substrates from incidental water damage. Rollershield is available in five-gallon (19L) pails and is ready for use after pre-mixing.

Approved Substrates
Exterior gypsum sheathing (ASTM C79)
Dens Glass Gold®
GlasRoc®
FiberBond®
Gold Bond e'xp®
Durock®
PermaBase®
Concrete
Brick
Masonry
Exterior Plywood
Oriented Strand Board
Others approved in writing

Application Procedure
Job Conditions - Air and substrate temperature for application of Rollershield must be 40°F (5°C) or higher and must remain 40°F (5°C) or higher for a minimum of 24 hours. Provide temporary protection to protect the wall system from damage until permanent flashings, caps and sealants are installed. Store materials within prescribed temperature limits and out of direct sunlight. Working and drying times are based upon normal room temperature conditions and will vary with temperature and humidity.
Preparation - The substrate must be approved by Master Wall Inc., clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds or anything that would affect bond. Painted surfaces are not acceptable and must be removed. Substrates must be flat and free of fins or planar irregularities greater than 1/4" in 10'-0" (6.35 mm in 3.05m).
Concrete - Must have cured a minimum of 28 days prior to the application of Rollershield. If form release agents or curing compounds exist on the surface, they must be removed with a solution of muriatic acid or similar product (with appropriate precautions). Remove any residual acid by flushing with water.
Brick/Masonry - If joints are not struck flush, multiple coats may be required. Contact Master Wall for more information.
Sheathing Applications - Sheathing gaps must be less than 1/4" (6.4 mm). For gaps larger than 1/4" (6.4 mm) WeatherStop Sheathing Tape may be used. Gap wood-based sheathing per manufacturers recommendations, typically 1/8" (3.2 mm) minimum.
Mixing - Thoroughly stir Rollershield into a homogenous consistency. Do not add water, over mix, or add accelerators or retarders to Rollershield.
Application - Rollershield is applied by first treating the joints and fastener locations, then coating the entire surface using brush, roller, or airless spray equipment techniques. When using a foam roller, a maximum 3/4" (19 mm) nap is recommended. Apply Rollershield in an even, continuous coat, maintaining a wet edge of approximately 15 mils thickness. Oriented Strand Board and other porous substrates require two (2) coats of Rollershield. For moisture protection, Rollershield must be applied as a continuous barrier of 10 mils dry thickness with no breaks or skips, although some areas will appear lighter than others due to the application process. The Rollershield application need not look like a painted surface.
Joint Treatment - Place and center Rollershield Mesh over all joints, corners and gaps in the substrate. Immediately embed Rollershield into the reinforcing mesh and spot fasteners using a paint brush and allow to dry. Rollershield may be flashed into window, door and other openings using the same techniques. Any remaining gaps should be filled with Master Wall Trowelshield or Trowelshield and Mesh may be used as the joint treatment.
Wall Treatment - Apply Rollershield to the wall surface using the foam roller or by spray applying and backrolling to a uniform thickness of 10 mils with no pinholes or voids.
Clean Up - Tools and equipment can be cleaned with soapy water when Rollershield is wet.
Limitations - Not for use as an exterior finish.

Statistics
Coverage (Estimated/Varies)
Per Pail: 450-500 sf (42-46 sm)
Pail Weight: 60 lbs (27kg)
Dry to Touch: 1 hour @ room temperature
Recoat Time: 2 hours @ room temperature
Drying Time: 12 hours @ room temperature
Application Range: 40°-110°F (5°-43°C)
Exposure: 30 days maximum
Shelf Life: 2 years

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Trowelshield

- Heavy bodied, trowel grade version of Rollershield
- Used for filling larger gaps in the sheathing or when forming window flashing



Trowelshield

Trowelshield is a high quality, flexible Air/Water Barrier trowel grade version of Rollershield that helps protect approved substrates from incidental water penetration. Trowelshield is easily applied with a stainless steel trowel to fill larger gaps in approved substrates and is available in five-gallon (19L) pails.

Approved Substrates
Exterior gypsum sheathing (ASTM C79)
Dens Glass Gold®
GlasRoc®
FiberBond®
Gold Bond e'xp®
Durock®
PermaBase®
Concrete
Brick
Masonry
Exterior Plywood
Oriented Strand Board (OSB)
Others approved in writing

Application Procedure

Job Conditions - Air and substrate temperature for application of *Trowelshield* must be 40° F (5°C) or higher and must remain 40° F (5°C) or higher for a minimum of 24 hours.

Temporary Protection - Must be provided at all times until the *Trowelshield* has dried.

Surface Preparation - Surface must be clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents, and curing compounds. On previously painted surfaces, all loose, peeling and chalking paint must be removed. Any glossy areas must be sanded. Substrates must be flat and free of fins or planar irregularities greater than 1/4" in 10'-0" (6.4 mm in 3.05 m).

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

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

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

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

Application - *Trowelshield* is typically applied to the sheathing joints as part of a *Rollershield* application, but may be used as a weather-resistive barrier when applied a minimum 1/16" (1.6 mm) thick. Apply *Trowelshield* using a stainless steel trowel. For moisture protection, *Trowelshield/Rollershield* must be applied as a continuous barrier with no breaks or skips or as part of a *Rollershield* water resistive barrier installation.

Joint Treatment—Place and center *Rollershield Mesh* over all joints, corners and gaps in the substrate. Immediately embed *Trowelshield* into the reinforcing mesh and spot fasteners using a trowel or paint brush and allow to dry. Any remaining gaps should be filled with Master Wall *Trowelshield*.

Wall Treatment—Apply *Trowelshield* to the wall surface using a stainless steel trowel to a minimum nominal thickness of 1/16" (1.6 mm).

Clean Up
Tools and equipment can be cleaned with soapy water when *Trowelshield* is wet.

Limitations
Not for use as an exterior finish.

Statistics

Coverage (Estimated/Varies by thickness)
Per Pail: 110-130 sf (10-12 sm)
Pail Weight: 60 lbs (27kg)
Working Time: 1 hour @ room temperature
Drying Time: 2 hours @ room temperature (thin applications)
Application Range: 40°-110°F (5°-43°C)
Shelf Life: 2 years

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WeatherStop

- Flexible, trowel-on air and water barrier
- With fibers for durability
- Mixes 1:1 with Portland cement
- Joints are prepared with self-stick WeatherStop Mesh, Standard, Detail Mesh or WeatherStop Tape



WeatherStop

WeatherStop is a flexible, fibered 100% pure acrylic trowel applied air and water barrier for use with Master Wall Systems. WeatherStop is available in five-gallon (19L) pails and is mixed 1:1 with Portland cement to a creamy consistency.

Air & Water Barrier
Trowel Applied

Approved Substrates
Exterior gypsum sheathing (ASTM C79)
Dens Glass Gold®
GlasRoc®
FiberBond®
Gold Bond e'xp®
Durock®
PermaBase®
Concrete
Brick
Masonry
Others approved in writing

Application Procedure

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

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 WeatherStop using a heavy duty 1/2" (12.7 mm) drill at 400 - 500 rpm and a heavy duty mixing paddle. Pour half of the stirred WeatherStop into a clean plastic pail. Up to 12 ounces (0.35L) of clean, potable water may be added to adjust workability. Add Type I or I-II Portland cement to the half pail of WeatherStop 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. Do not exceed 24 ounces (0.7L) per pail. Do not over mix as faster setting or reduced working time can occur. Do not add accelerators or retarders to the WeatherStop mixture.

Application

For sheathing substrates—Apply one of the sheathing board joint reinforcing methods noted below:

- Apply 4" (102 mm) Master Wall Self-Adhesive Mesh over the sheathing board joints or embed 4" (102 mm) minimum wide Master Wall Standard or Detail Mesh in WeatherStop. Cover all joints with an initial coating of WeatherStop and allow to dry to the touch.
- Prime joints with BA57 and allow to dry to the touch. Apply 4" (102 mm) WeatherStop Tape on the sheathing board joints.

Water barrier application—Apply the WeatherStop mixture over the entire surface of the approved substrate in a thickness of approximately 1/16" (1.6 mm). Allow to cure completely before proceeding the Aggre-flex or Aggre-flex Commercial Drainage EIFS or other approved applications.

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

Statistics

Coverage (Estimated/Varies)
1/16" (1.6 mm) thick: 180-200 sf (15-18.6 sm)
Pail Weight: 60 lbs (27kg)

Working Time: 1 hour @ room temperature
Drying Time: 12 hours @ room temperature
Application Range: 40°-110°F (5°-43°C)
Exposure: 30 days maximum
Shelf Life: 2 years

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WeatherStop Flashing Tape

- Peel & Stick flashing tape
- Low initial grab for easy positioning
- Self-sealing for punctures
- Adhesives stick to polyester facing on the tape
- Prime surfaces with BA57



WeatherStop Tapes

WeatherStop Tapes are a peel and stick type flashing with self-sealing properties and a polyester scrim facing designed for use with Master Wall Systems. The tapes feature low initial grab for repositioning that gradually increases over time.

Tape Sizes
WeatherStop Tapes are available in the following size rolls:
4'x100' (10.2cm x 30.5m)
6'x100' (15.2cm x 30.5m)
12'x100' (30.5cm x 30.5m)

Weight & Packaging
Weather Stop Flashing Tape is packaged in cases weighing 82 lbs (37.2kg).
4" (10.2cm) Wide:
12 rolls/case
18 cases/pallet
6" (15.2 cm) Wide:
8 rolls/case
18 cases/pallet
12" (30.5 cm) Wide:
4 rolls/case
18 cases/pallet

Approved Substrates—Include Exterior gypsum sheathing (ASTM C79), Dens Glass Gold®, GlasRoc®, FiberBond®, Durock®, PermaBase®, Concrete, Brick, Masonry, Wood, Exterior Plywood, Oriented Strand Board and Metal. Contact Master Wall for other approved substrates.

Priming – Prime all surfaces except metal with Bond Coat and allow to dry to the touch.

Installation – Plan the work from the bottom up in a shingle-fashion installation. Size the piece of flashing so that it is easy to handle. Start by removing about 12 inches (305 mm) of the release paper and placing it over the area being sealed. Firmly press WeatherStop Flashing Tape into place, rolling out any bubbles and smoothing it into the surface. Continue pulling off the release paper and smoothing the tape into place.

Limitations
WeatherStop Flashing Tape is a vapor barrier. The dew point must be engineered if it is used as a continuous air/water barrier.

Application Procedure

General—The substrate must be clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds. Painted surfaces are not acceptable and the paint must be removed.

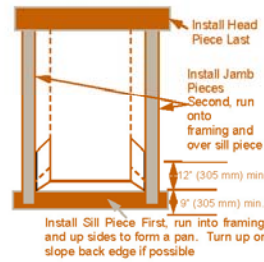
Job Conditions - Air and substrate temperature for application of WeatherStop Tapes must be 40°F (5°C) or higher.

Temporary Protection – Do not expose to direct sunlight for more than six weeks after installation.

Surface Preparation - Surface temperature must be above 40°F (5°C). Surface must be cured, clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents, and curing compounds.

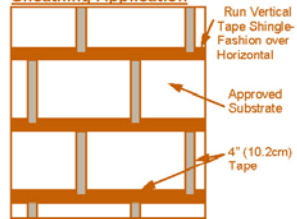
Window Flashing Application

Weather Resistive barrier (not shown) is placed over head flashing and under jamb and sill flashing.




Install Head Piece Last
Install Jamb Pieces
Second, run onto framing and over sill piece
1 1/2" (305 mm) min.
9" (305 mm) min.
Install Sill Piece First, run into framing and up sides to form a pan. Turn up or slope back edge if possible

Sheathing Application



Run Vertical Tape Shingle-Fashion over Horizontal
Approved Substrate
4" (10.2cm) Tape



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Thank You



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