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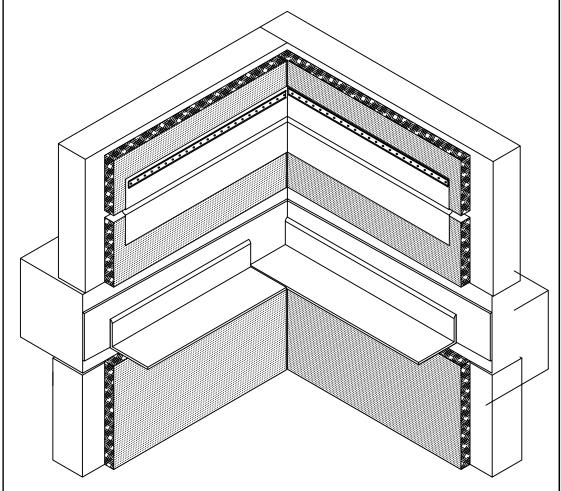
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The air barrier can either be formed by an exterior side air barrier or by employing the interior side airtight drywall approach.

The location of or need for a vapor retarder within wall assemblies will vary based upon climate, and can be significantly influenced by the storage capacity and vapor permeance of the materials selected for each layer of the wall system. A climate-specific, hygrothermal analysis for any wall assembly should be considered to further evaluate this concern.

See the General section of the WBDG for additional information and guidance.

STONE VENEER INSIDE CORNER -OVERALL DETAIL



STEP 1: INSTALL GLASS MAT FACED EXTERIOR SHEATHING OVER BACK-UP WALL. INSTALL FOLLOWING ALL MANUFACTURER INSTRUCTIONS.

INSTALL HORIZONTAL JOINT SEAL (PEEL-AND-STICK MEMBRANE SHOWN) SECURE PER MANUFACTURER INSTRUCTIONS. ENSURE ALL SURFACES ARE PRIMED PRIOR TO INSTALLING VERTICAL JOINT SEAL. THE LOCATION OF THE JOINTS SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE INTENDED TO CONVEY EXTERIOR SHEATHING JOINT SEALING CONCEPTS.

INSTALL WALL MEMBRANE PRODUCT BELOW THE RELIEVING ANGLE OR INDIVIDUAL RELIEVING CONNECTIONS. INDIVIDUAL CONNECTIONS ARE TYPICALLY USED INSTEAD OF A FULL RELIEVING ANGLE. THE WALL DRAINAGE PLANE PRODUCT SHOULD BE CARRIED BEHIND THESE CONNECTIONS AND CARRIED ABOVE THEM A MINIMUM OF 6-INCHES. SEE THE 2-DIMENSIONAL DETAILS CONTAINED WITHIN THE STONE SECTION IN THE WBDG FOR MORE INFORMATION. THE JOINT BETWEEN THE SHEATHING AND SLAB IS TO BE SEALED WITH A HORIZONTAL JOINT SEAL (SELF-ADHESIVE FLASHING) TO PROVIDE AIR BARRIER CONTINUITY AT THIS INTERFACE. DEPENDING ON THE DRAINAGE PLANE PRODUCT, THIS PRODUCT MAY BE USED TO PROVIDE FOR THE AIR BARRIER CONTINUITY AT THIS INTERFACE. A DETAIL SHOULD BE INCLUDED IN THE DRAWINGS FOR THE PROJECT SHOWING WHAT METHOD IS TO BE USED AT THIS INTERFACE TO PROVIDE AIR BARRIER CONTINUITY. THE DETAILS IN THIS SET SHOW THIS USING THE DRAINAGE PLANE PRODUCT.

CONCEPTUAL - NOT FOR CONSTRUCTION

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STONE VENEER INSIDE CORNER -STEP 1

# STEP 2: -INSTALL VERTICAL CORNER JOINT SEAL (PEEL-AND-STICK MEMBRANE

INSTALL VERTICAL CORNER JOINT SEAL (PEEL-AND-STICK MEMBRANE SHOWN) SECURE PER MANUFACTURER INSTRUCTIONS. ENSURE ALL SURFACES ARE PRIMED PRIOR TO INSTALLING JOINT SEAL. INSTALL THE LOWER MATERIAL FIRST LAPPED ONTO THE RELIEVING ANGLE AND THE UPPER MATERIAL INSTALLED OVERLAPPING THE ANGLE PER THE MANUFACTURER'S MINIMUM PLUS 1-INCH.

THE JOINT BETWEEN THE SHEATHING AND SLAB IS TO BE SEALED WITH A HORIZONTAL JOINT SEAL (SELF-ADHESIVE FLASHING) TO PROVIDE AIR BARRIER CONTINUITY AT THIS INTERFACE. DEPENDING ON THE DRAINAGE PLANE PRODUCT, THIS PRODUCT MAY BE USED TO PROVIDE FOR THE AIR BARRIER CONTINUITY AT THIS INTERFACE. A DETAIL SHOULD BE INCLUDED IN THE DRAWINGS FOR THE PROJECT SHOWING WHAT METHOD IS TO BE USED AT THIS INTERFACE TO PROVIDE AIR BARRIER CONTINUITY. THE DETAILS IN THIS SET SHOW THIS USING THE DRAINAGE PLANE PRODUCT.

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STONE VENEER INSIDE CORNER -STEP 2

# STEP 3: INSTALL LOWER DRAINAGE MATERIAL AND LAP ONTO RELIEVING ANGLE PER THE MANUFACTURER'S MINIMUM PLUS 1-INCH.

NOTE: ENSURE ALL SHEATHING/CONCRETE/CMU SURFACES ARE PROPERLY PREPARED AND PRIMED IN ACCORDANCE WITH THE MANUFACTURER REQUIREMENTS PRIOR TO INSTALLING THE WALL DRAINAGE PLANE PRODUCT. DETAIL THE DRAINAGE PLANE PRODUCT TO PREVENT WATER INFILTRATION AT THE STONE VENEER ANCHORS AND OTHER PENETRATIONS. THE VARIOUS PRODUCTS THAT CAN BE USED FOR THE DRAINAGE PLANE MATERIAL HAVE A WIDE RANGE OF AIR AND VAPOR PERMEANCE VALUES; SEE THE TABLES AND THE GENERAL SECTION CONTAINED WITHIN THE WALL PORTION OF THE WBDG FOR MORE SPECIFIC INFORMATION WITH REGARDS TO VAPOR RETARDERS AND AIR BARRIERS.

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STONE VENEER INSIDE CORNER -STEP 3

# STEP 4: INSTALL THE STONE ANCHORS/STRAP FOR THE STONE BELOW THE SLAB LINE AS WELL AS THE INSULATION SECUREMENT DEVICES (IMPALING PINS OR OTHER APPROVED METHOD). IF A TROWEL-APPLIED PRODUCT IS USED INSTEAD OF A WALL MEMBRANE OR SHEET PRODUCT, THE TROWEL-APPLIED PRODUCT MAY BE USED AS AN INSULATION ADHESIVE IN ADDITION TO THE

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STONE VENEER INSIDE CORNER -STEP 4

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MECHANICAL ADHESION METHOD SHOWN. CHECK WITH THE MANUFACTURER FOR ALL REQUIREMENTS. ALL METAL ACCESSORIES IN DIRECT CONTACT WITH NATURAL STONE VENEERS SHALL BE

NON-CORROSIVE, 300 SERIES STAINLESS STEEL OR AN EQUIVALENT

# STEP 5: INSTALL THE INSULATION (RIGID INSULATION SHOWN, SEMI-RIGID INSULATION MAY ALSO BE APPROPRIATE) AND SECURE WITH THE IMPALING PIN CAPS OR OTHER APPROVED METHOD, MAKING SURE ALL SHARP ENDS ARE CUT. SOME IMPALING PIN PRODUCTS ELIMINATE THE SHARP END CONCERN. SOME FOAM-APPLIED AND OTHER INSULATION PRODUCTS MAY BE APPROPRIATE FOR USE IN THE DRAINAGE CAVITY. CHECK WITH THE MANUFACTURER TO DETERMINE THE APPROPRIATENESS OF THE PRODUCT FOR USE WITHIN THE WET ZONE OF THE ASSEMBLY. INSULATING OUTBOUND OF THE BACK-UP WALL WITH THE FULL R-VALUE OF THE WALL IS MUCH MORE THERMALLY EFFICIENT.

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STONE VENEER INSIDE CORNER -STEP 5

CONCEPTUAL - NOT FOR CONSTRUCTION

# STEP 6: INSTALL STONE VENEER CLADDING BELOW THE RELIEVING ANGLE WITH APPROPRIATE HANGERS. STONE ANCHORING ASSEMBLY TO BE DESIGNED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. PROVIDE ALLOWANCE FOR THERMAL MOVEMENT OF THE STONE BOTH VERTICALLY AND HORIZONTALLY, INCLUDING SUFFICIENT GAP BETWEEN THE STONE AND THE RELIEVING ANGLE.

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STONE VENEER INSIDE CORNER -STEP 6

CONCEPTUAL - NOT FOR CONSTRUCTION

# STEP 7:

# STEP 7: INSTALL CORROSION—RESISTANT METAL THROUGH—WALL FLASHING. LEAVE SUFFICIENT GAP AT CORNER TO ALLOW FOR CONTRACTION AND EXPANSION OF THE FLASHING MATERIAL. NOTCH NEAR CORNER TO ALLOW INSTALLATION OF OTHER SIDE. THE THROUGH—WALL FLASHING MATERIAL SHOWN ON THIS AND SIMILAR EXTERIOR WALL DETAILS AND ASSEMBLIES MUST INCLUDE FULLY SEALED, WATER—TIGHT END—DAMS AT ALL EXTERIOR WALL PENETRATION AND FLASHING TERMINATIONS AS NECESSARY TO COLLECT AND DRAIN RAINWATER AND/OR CONDENSATION TO THE BUILDING EXTERIOR.

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STONE VENEER INSIDE CORNER -STEP 7

CONCEPTUAL - NOT FOR CONSTRUCTION

# STEP 8: INSTALL OPPOSITE SIDE CORROSION-RESISTANT METAL THROUGH-WALL FLASHING ON TOP OF OTHER SIDE. LEAVE SUFFICIENT GAP AT CORNER TO ALLOW FOR CONTRACTION AND EXPANSION OF THE FLASHING MATERIAL. NOTCH NEAR CORNER. THE THROUGH-WALL FLASHING MATERIAL SHOWN ON THIS AND SIMILAR EXTERIOR WALL DETAILS AND ASSEMBLIES MUST INCLUDE FULLY SEALED, WATER-TIGHT END-DAMS AT ALL EXTERIOR WALL PENETRATION AND FLASHING TERMINATIONS AS NECESSARY TO COLLECT AND DRAIN RAINWATER AND/OR CONDENSATION TO THE BUILDING EXTERIOR.

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STONE VENEER INSIDE CORNER -STEP 8

CONCEPTUAL - NOT FOR CONSTRUCTION

# STEP 9: -INSTALL CORNER SECTION OF CORROSION-RESISTANT METAL THROUGH-WALL FLASHING. NOTE: THE PRESENCE OF A CONTINUOUS RELIEVING ANGLE AND FLASHING AS SHOWN IS NOT REPRESENTATIVE OF

TYPICAL STONE VENEER CONSTRUCTION,

ANCHORING SYSTEM THAT MINIMIZES OR

PENETRATIONS THROUGH THE FLASHING

AND ARE INTENDED TO CONVEY THE IMPORTANCE OF DESIGNING AN

FLIMINATES THE NEED FOR

CONSTRUCTION.

IN CAVITY-TYPE EXTERIOR WALL

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STONE VENEER INSIDE CORNER -STEP 9

# INSTALL THE MEMBRANE FLASHING ABOVE THE METAL THROUGH-WALL FLASHING AND SECURE WITH A CONTINUOUSLY SEALED TERMINATION BAR AT THE UPPER EDGE. INSTALL FOLLOWING ALL MANUFACTURER GUIDELINES. CARRY ONTO THROUGH-WALL FLASHING PER THE MANUFACTURERS MINIMUM DISTANCE PLUS 1-INCH AND SECURE PER MANUFACTURER REQUIREMENTS. TREAT ALL JOINTS AND EDGES PER MANUFACTURER REQUIREMENTS (MASTIC OR OTHER REQUIRED

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STONE VENEER INSIDE CORNER -STEP 10

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PRODUCT) AND OVERLAP ALL JOINTS A MINIMUM OF 2-INCHES

MORE THAN THAT REQUIRED BY THE MANUFACTURER.

# INSTALL THE WALL MEMBRANE ABOVE THE MEMBRANE FLASHING, AND CARRY ONTO MEMBRANE FLASHING PER THE MANUFACTURERS MINIMUM DISTANCE PLUS 1-INCH AND SECURE PER MANUFACTURER REQUIREMENTS.

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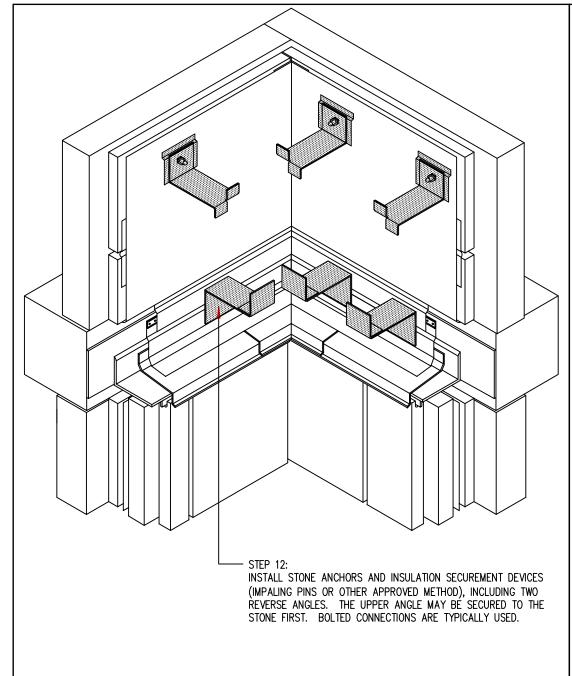
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STONE VENEER INSIDE CORNER -STEP 11



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STONE VENEER INSIDE CORNER -STEP 12

CONCEPTUAL - NOT FOR CONSTRUCTION

# **STEP 13:** INSTALL RIGID INSULATION IN CAVITY, SECURING WITH THE IMPALING PIN COVERS, OR OTHER APPROVED INSTALLATION METHOD. CUT ALL SHARP EDGES. OTHER INSULATION PRODUCTS SHOULD BE EXAMINED FOR THEIR MOISTURE TOLERANCE AND APPROPRIATENESS FOR USE FOR THIS PLANE IF CONSIDERING USING THEM WITHIN THE CAVITY. SOME SPRAY APPLIED INSULATION PRODUCTS MAY ALSO BE APPROPRIATE.

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STONE VENEER INSIDE CORNER -STEP 13

CONCEPTUAL - NOT FOR CONSTRUCTION

# INSTALL THE STONE VENEER ABOVE THE THROUGH WALL FLASHING. PROVIDE ALLOWANCE FOR THERMAL MOVEMENT OF THE STONE BOTH VERTICALLY AND HORIZONTALLY.

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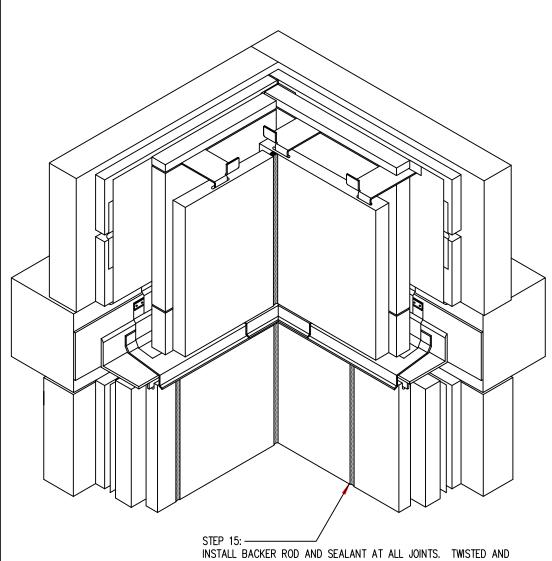
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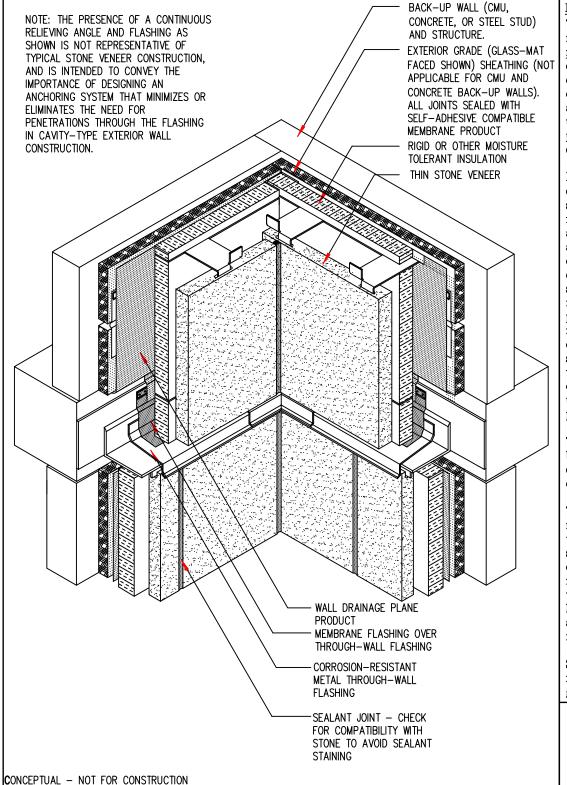
Interface conditions between building envelope materials, components and systems should be fully detailed in a manner that is both technically sound and serviceable. Detailing should, at a minimum, allow for coordination of drainage planes when two or more different wall types are used in the same facade; allow for thermal and moisture-induced changes in material properties and differential thermal movement; and allow for in-service deflection, shrinkage, creep and similar behavior considered to be within the allowable structural limits of the project without compromise to the weather-tight integrity and thermal performance of the building envelope.

The air barrier can either be formed by an exterior side air barrier or by employing the interior side airtight drywall approach.

The location of or need for a vapor retarder within wall assemblies will vary based upon climate, and can be significantly influenced by the storage capacity and vapor permeance of the materials selected for each layer of the wall system. A climate-specific, hygrothermal analysis for any wall assembly should be considered to further evaluate this concern.

See the General section of the WBDG for additional information and guidance.

STONE VENEER INSIDE CORNER -STEP 15



# **KEY CONCEPTS:**

The dimensions and material relationships shown in this detail are not to scale and have been exaggerated for clarity. Actual dimensions will vary, and should be carefully coordinated with sequencing and construction tolerances to ensure the long-term durability and performance of this and similar exterior wall details.

Interface conditions between building envelope materials, components and systems should be fully detailed in a manner that is both technically sound and serviceable. Detailing should, at a minimum, allow for coordination of drainage planes when two or more different wall types are used in the same facade; allow for thermal and moisture-induced changes in material properties and differential thermal movement; and allow for in-service deflection, shrinkage, creep and similar behavior considered to be within the allowable structural limits of the project without compromise to the weather-tight integrity and thermal performance of the building envelope.

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STONE VENEER INSIDE CORNER -OVERALL DETAIL