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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 SILL AND JAMB FLASHING - STEP 1

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STONE VENEER
SILL AND JAMB
FLASHING -
STEP 2

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STEP 3:
INSTALL DRAINAGE PLANE MATERIAL BELOW WINDOW. DEPENDING ON THE ATTACHMENT METHOD FOR THE INSULATION, THE INSULATION ATTACHMENT DEVICES MAY NEED TO BE INSTALLED PRIOR TO SECURING THE DRAINAGE PLANE MATERIAL. THE CLADDING SUPPORT ELEMENTS (TIES, ANGLES, ETC.) WILL ALSO LIKELY REQUIRE ATTACHMENT PRIOR TO SECURING THE DRAINAGE MATERIAL. TREAT ALL PENETRATIONS THROUGH THE DRAINAGE LAYER PER THE MANUFACTURER'S REQUIREMENTS. THIS LAYER IS THE HARD SEPARATION BETWEEN THE WET AND DRY ZONES.

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
SILL AND JAMB FLASHING -
STEP 3

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STONE VENEER SILL AND JAMB FLASHING - STEP 4

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STONE VENEER
SILL AND JAMB
FLASHING -
STEP 5

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STEP 6:
INSTALL DRAINAGE PLANE MATERIAL ALONG THE CAVITY END DAM, AND LAP ONTO SECTION INSTALLED BELOW WINDOW A MINIMUM OF 6-INCHES. THE DRAINAGE PLANE MATERIAL NEEDS TO OVERLAP ONTO THE RETURN LEG OF THE CAVITY END-DAM. SECURE PER MANUFACTURER INSTRUCTIONS. DEPENDING ON THE MEMBRANE PRODUCT USED, IMPALING PINS MAY BE NECESSARY TO SECURE THE RIGID INSULATION OUTBOUND OF THE CAVITY. SOME TROWEL-APPLIED PRODUCTS THAT CAN BE USED IN LIEU OF THE MEMBRANE MAY BE ABLE TO BE USED ALSO AS AN INSULATION ADHESIVE. VERIFY WITH THE MANUFACTURER. INSTALL IMPALING PINS, STONE ANCHORS AND MEMBRANE COVER STRIPS OVER THE ANCHORS AND IMPALING CLIPS.

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STONE VENEER SILL AND JAMB FLASHING - STEP 6

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STONE VENEER
SILL AND JAMB
FLASHING -
STEP 7

CONCEPTUAL – NOT FOR CONSTRUCTION

STEP 7:
INSTALL RIGID INSULATION IN CAVITY.
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 SILL AND JAMB FLASHING - STEP 8

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STEP 9:
INSTALL A CONTINUOUS JAMB FLASHING,
OVERLAP AND NOTCH AT SILL. THE JAMB
FLASHING MATERIAL WILL HAVE TWO
PURPOSES; TO SEPARATE POTENTIAL
DISSIMILAR METAL CONTACT BETWEEN THE
STAINLESS STEEL CAVITY END-DAM AND
THE ALUMINUM SILL PAN AND ALSO TO
DRAIN AND REDIRECT WATER THAT GETS IN
AT THE JAMB BACK INTO THE SILL PAN.
THE OVERLAP AT SILL SHOULD BE A
MINIMUM OF 2-INCHES. SECURE PER
MANUFACTURER INSTRUCTIONS. INSTALL A
BED OF SEALANT AND OTHER SUPPORT
DEVICES FOR THE SILL FLASHING.

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retarder within wall assemblies will
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STONE VENEER
SILL AND JAMB
FLASHING

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STEP 11:
INSTALL BACKER ROD AND SEALANT AT ALL JOINTS. TWISTED AND UNDERSIZED BACKER ROD MUST NOT BE USED. PRIME JOINTS, IF REQUIRED BY THE MANUFACTURER. ENSURE THE SEALANT PROFILE WILL MEET THE MANUFACTURER REQUIREMENTS. ALL JOINT SEALANT IN CONTACT WITH NATURAL STONE CLADDING SHALL BE TESTED PRIOR TO CONSTRUCTION FOR ADHESION, MOVEMENT CAPACITY, AND STAIN RESPONSE IN ACCORDANCE WITH APPLICABLE ASTM STANDARDS. FIELD PEEL-ADHESION TESTING OF INSTALLED JOINT SEALANT BY A QUALIFIED TECHNICAL REPRESENTATIVE OF THE SEALANT MANUFACTURER.

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STONE VENEER
SILL AND JAMB FLASHING - STEP 11

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STONE VENEER
SILL AND JAMB
FLASHING -
STEP 12

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STEP 11:
INSTALL THE WINDOW AND INTERIOR AND EXTERIOR SEALANT BEADS. THE SILL BEAD WILL REQUIRE WEEP HOLES. DO NOT SEAL TO SNAP-COVERS.
NOTE:
WINDOW UNIT NOT
SHOWN FOR CLARITY

DRAINAGE CAVITY
END-DAM

JAMB FLASHING

JAMB-TO-SILL
TRANSITION MEMBRANE

SILL FLASHING WITH RETURN
AND END-DAMS

SUB-SILL MEMBRANE
FLASHING

BACK-UP WALL

EXTERIOR-GRADE (GLASS-MAT
SHOWN) SHEATHING

WALL MEMBRANE

JOINT SEALANT

RIGID OR OTHER
MOISTURE-TOLERANT
INSULATION

THIN-STONE VENEER

CONCEPTUAL — NOT FOR CONSTRUCTION

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STONE VENEER
SILL AND JAMB
FLASHING —
OVERALL DETAIL

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