**KEY CONCEPTS:**

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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.

**ARCHITECTURAL PRECAST WINDOW JAMB AND SILL - OVERALL DETAIL**

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STEP 2: INSTALL THE WINDOW UNIT AND SECURE USING THE STRUCTURAL ELEMENTS SUPPLIED BY THE MANUFACTURER AND REQUIRED BY THE ENGINEER-OF-RECORD. THE STRUCTURAL CONNECTIONS ARE NOT SHOWN AND ARE THE RESPONSIBILITY OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE WINDOWS ARE BEING INSTALLED TO MEET ALL MIND, SEISMIC, BLAST, LIVE LOAD, DEAD LOAD AND OTHER PROJECT AND BUILDING CODE AND LOADING REQUIREMENTS. WINDOWS ARE TO BE DELIVERED TO THE PROJECT WITHOUT THE SNAP COVERS INSTALLED.

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ARCHITECTURAL PRECAST WINDOW JAMB AND SILL - STEP 4

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### ARCHITECTURAL PRECAST WINDOW JAMB AND SILL - STEP 5

**STEP 5:** INSTALL JAMB AND SILL SNAP COVERS. SILL SNAP COVER TO BE NOTCHED OR OTHERWISE WEEPEDE TO ALLOW FOR DRAINAGE OF THE WINDOW SYSTEM.
Step 6: Install low-expansion expanding urethane foam insulation below the sill pan flashing to the back of the supporting structure for the sill pan flashing.

Step 6: Install expanding urethane foam insulation to the back of the backer rod for the sealant, providing continuity of the thermal barrier between the window frame and insulation layer behind the precast. Ensure foam is installed in a controlled manner so as to not have foam installed beyond the point where interior finishes abut the window unit. Install backer rod along the top of the sill flashing so as to not fill the flashing with foam. See head and jamb detail for additional information.

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Architectural Precast Window Jamb and Sill - Step 6

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ARCHITECTURAL PRECAST WINDOW JAMB AND SILL - OVERALL DETAIL

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