

SEALANT OVER BACKER ROD – TWISTED AND UNDERSIZED BACKER ROD NOT ALLOWED. PRIME JOINTS, IF REQUIRED BY THE MANUFACTURER. ENSURE THE SEALANT PROFILE WILL MEET THE MANUFACTURER REQUIREMENTS.

CLADDING – STONE VENEER SHOWN

INSULATION BETWEEN AIR SPACE AND EXTERIOR SHEATHING, FULL THERMAL RESISTANCE OUTBOUND OF BACK-UP WALL.

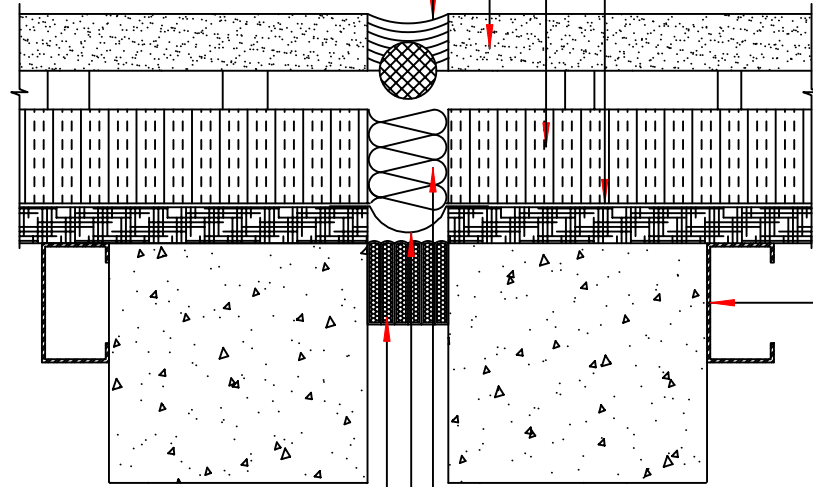
WALL MEMBRANE OVER EXTERIOR SHEATHING.

BACK-UP WALL – STEEL STUDS SHOWN ARE HIGHLY THERMALLY CONDUCTIVE, CAN BECOME A THERMAL SHORT.

COMPRESSIBLE MOISTURE TOLERANT INSULATION

LOOP LOWER PIECE OF WALL MEMBRANE AND 6" MINIMUM ONTO EACH SIDE OF JOINT. SEE OTHER DETAILS FOR FURTHER GUIDANCE. LAP SHINGLE STYLE.

EXPANSION JOINT GLAND BETWEEN COLUMNS. OTHER EXPANSION JOINT LOCATIONS NOT OCCURRING AT COLUMNS SIMILAR.



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.

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.

DIMENSIONS FOR THE EXPANSION JOINT TO BE DETERMINED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. MINIMUM DIMENSION IS TO BE 1-INCH.

INTERIOR DRYWALL NOT SHOWN FOR CLARITY. A PREMANUFACTURED JOINT COVER WILL LIKELY BE NEEDED ON THE INTERIOR SIDE. FASTEN JOINT COVER ON ONE SIDE ONLY.

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. COMPLETE FIELD PEEL-ADHESION TESTING OF INSTALLED JOINT SEALANT BY A QUALIFIED TECHNICAL REPRESENTATIVE OF THE SEALANT MANUFACTURER.

CONCEPTUAL – NOT FOR CONSTRUCTION

VERTICAL EXPANSION JOINT (STONE VENEER SHOWN)

The details, graphics and related information shown above are intended to illustrate basic design concepts and principles only and should be considered collectively with the appropriate narrative sections of the Whole Building Design Guide (WBDG). The information contained herein is not intended for actual construction, and is subject to revision based on changes and/or refinements in local, state and national building codes, emerging building envelope technologies, and advancements in the research and understanding of building envelope failure and failure mechanisms. The actual design and configuration of these and similar details will vary based upon applicable local, state and national building code requirements, climatic considerations, and economic constraints unique to each project. Full compliance with the manufacturer's recommendations and recognized industry standards for each building envelope material, component and system specified for this and similar exterior wall assemblies is recommended, and should be reflected in the appropriate sections of the project specifications.