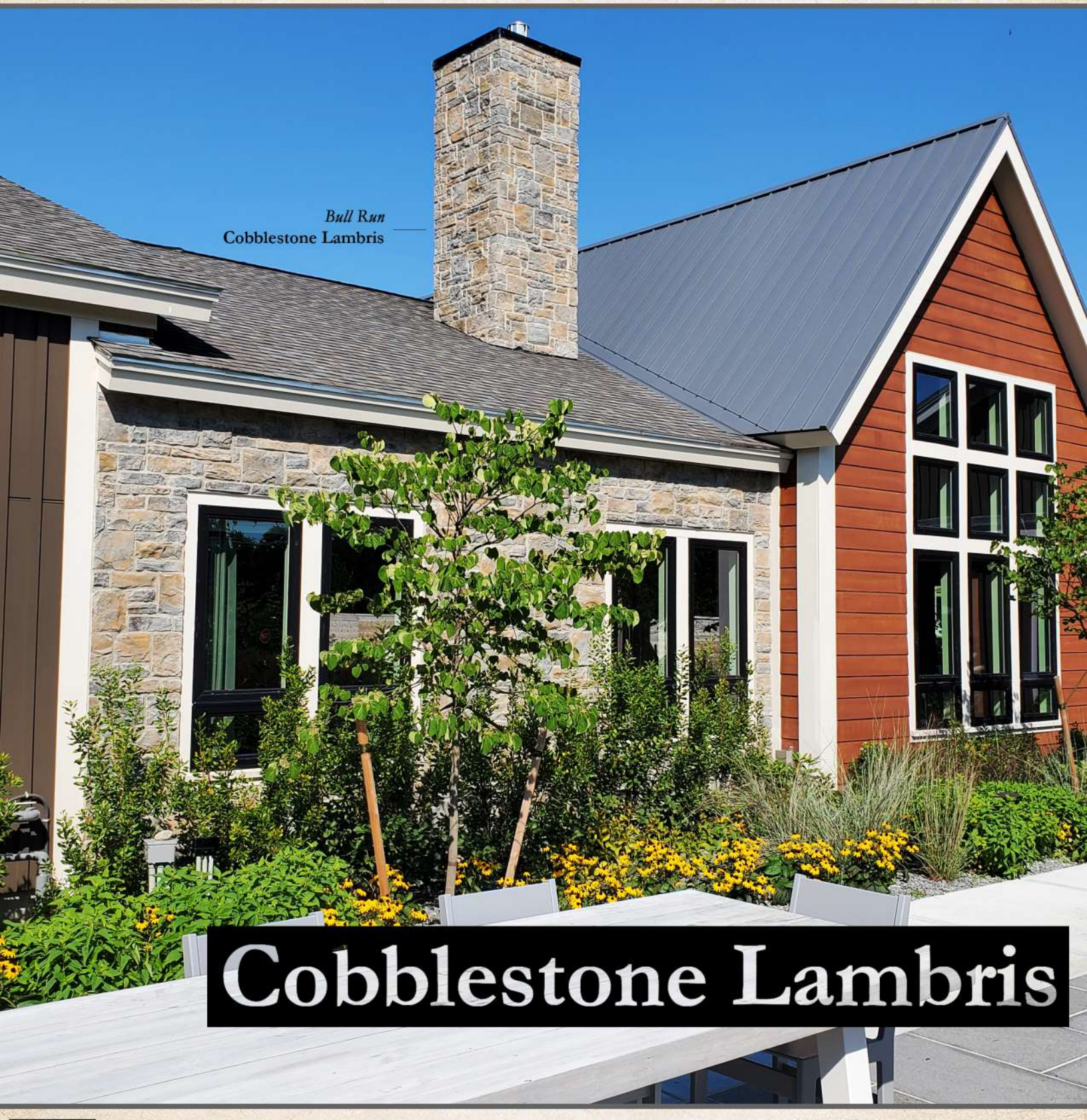
QUALITY STONE VENEER INC
est. 1976

Clip System Installation Guide

For a demonstration video, please visit our website at:
https://www.qualitystoneveneer.com/clip-and-panelized-systems/



Cobblestone Lambris

MADE IN USA

OVER 40 Yrs IN BUSINESS

AIA

www.QualityStoneVeneer.com

Chelmsford
Cobble Lambris

The Quality Stone Veneer Clip System

Started in 1976, Quality Stone Veneer, Inc. has been committed to producing and installing the most durable and aesthetic stone veneer product in the world. Our molds replicate the shapes and textures of natural stone, with profiles hand cast from natural stone itself.
Rooted within our name, we are driven by Quality, Sustainability, Value and Innovation. The Quality Stone Veneer Patented Clip System was designed with these core values in mind.

Quality

Built in Drainage Plane - The Clip System application includes a 1/4" breathable cavity between the weather resistant barrier and the stone panels. Moisture is able to freely drain and exit the system, further adding to the project's longevity and performance on any structure.
Natural Aesthetic – Clip System profiles are hand cast from natural stone, perfectly replicating the face texture of natural stone itself, and leaving no two faces of stone looking exactly alike.

Sustainability

Less Weight – The Clip System is less weight to install and requires no structural cement.
Less Cutting – Preset stone panels ensure a tight fit between units, with less cutting on most projects.

Value

Installation Material – The Clip System eliminates the need for most cement, lath, drain mats and casing beads.
Fewer Weather Limitations – The Clip System can be installed in conditions sub 40 degrees where a traditional mortared application would require heating and tenting.
Ease of Installation – With our patented Clip and Screw technology, the Clip System can be installed more easily than a traditional stone application, and ensures a precise pattern and finish every time.
Installation Time – The Clip System can save a considerable amount of time on installation.
Clean Edges – Precise finish edges can be cut where stone meets dissimilar materials.

Innovation

Controlled Pattern – The many preset panels with varying shapes provide a control over the stone pattern eliminating any guesswork in laying, and provide a finish that is hard to achieve using individual stone units.
Profile Combinations – All Clip System products can be used conjunction with one another to create a building that is diverse in masonry type and color, while still having one continuous drainage plane between the wall and stone.

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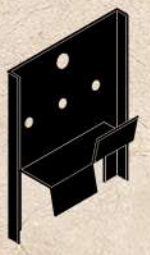
Components



20 gauge Galv. Clip: Minimum 2 clip per sq ft

22 gauge Galv. Clip Starter Strip: Used at base of framed wall, window and door heads and floor to floor horizontal breaks. (10' per piece)

Corrosion Resistant Fastener

Additional Materials:

Approved Weather Resistant Barrier, Self Adhered Flashing, Polymer Modified Mortar, Sealant, Casing Bead

Tools Required:

Dust Mask/Respirator, Safety Glasses, Gloves, Screw Gun, Masonry Saw, Hammer Tacker, Rubber Mallet, Mixing Drill, Trowel, Grout Bag, Joint Slicking Tool, Brush, Tin Snips, Razor Knife, Tape Measure, Pencil, Level/String Line

**For a full list of accessories, please visit our website.*

Light Block

Dryer Vent Block

Receptacle Block

Sandstone Clip Sill

Sandstone Clip Sill w/ Return

Cobblestone Lambris **Panel Sizes:**

24"x16"x1.75" Flat

24"x8"x1.75" Flat

24"x8"x1.75" Corner

16"x8"x1.75" Corner

24"x8"x1.75" Soldier
***Optional**

Installation

Introduction

Clip System installation differs from traditional mortar and wire stone veneer application. The Quality Stone Veneer Clip System is best installed over plywood sheathing. Whether wood or steel studs are used in the construction, the plywood provides the stability for Clips to be installed where they're needed. It is important Clip System products are installated utlizing the Quality Stone Veneer, Inc. materials and procedures referenced in this guide for warranty to apply.

Step 1: Clip Starter Strip:

Determine a level starting point below the foundation plate. Attach corrosion resistant 22 guage galvanized metal Starter Strip to framing using corrosion resistant Clip Screw fastener. Starter Strip to be set 1" minimum below the foundation plate, and at least 4" above finished grade. Follow current NCMA.org installation guidelines for separation distances between other materials such as concrete, pavement, and roofing. Clip Starter Strip includes holes to recieve corrosion resistant fasteners every 8". Fasteners to be used every 16" at minimum.

Step 2: Weather Resistant Barrier

Once installed, bring weather resistant barrier out over the 3 1/2" flange of the Starter Strip. For more details on weather resistant barrier and flashing details, please visit NCMA.org to view the National Concrete Masonry Association installation guide.

Step 3: Self Adhered Flashing

Install 6" self adheared rubber flashing at all vertical transitions.

Installation

Step 4: Installing *Cobblestone Lambris* Via The Quality Stone Veneer Patented Clip System Application

Quality Stone Veneer products have a groove to accept corrosion resistant Clips on all sides. For strength, this groove does not extend to the outer edge of the product. On the first course only, you'll need to make cuts with a masonry saw to extend the grooves through the full length on the bottom of each piece.

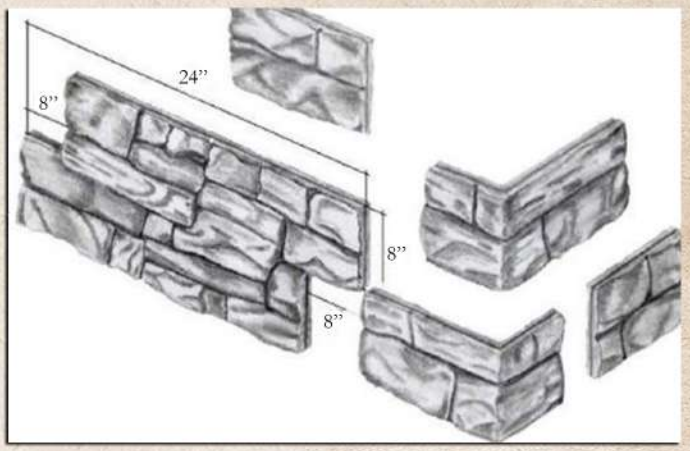
Step 5: First Course of Stone

Starting from the right side, place the 16"x8" small corner piece down onto the Clip Starter Strip. Place 2 Clips overtop corner and firmly attach the Clips to the plywood sheathing using corrosion resistant screw. Set the first 24"x16" large piece down onto the corner, interlocking them together. Place and attach 2 Clips on the top edge of the piece, and 1 Clip on the offset leg to the left, hitting studs where possible.

Step 6: Pattern for *Cobblestone Lambris*

Continue the first course of stone moving left with the 24"x8" piece. Place a bead of cement around the edge of each installed piece before setting the next peice. This firms up the joint between pieces and reduces shadow lines.

*Note: This step is not necessary at the Clip Starter Strip, or the first 6" to 8" vertical joint between pieces, to promote better moisture release.



Installation

Step 7: Continue Pattern
Once the first course is installed, the larger 24”x16” piece will infill the wall until you’ve reached the top, or opposing corner. In these areas, a masonry saw can be used to cut the 24”x16”, or 24”x8” to the desired length or height.

*Note: Grooves can be cut in place to recieve Clips where needed. Be sure to gap all openings and dissimmilar materials by 3/8”. Reference the NCMA.org install guide for all other clearances.

Step 8: Install Accessories
When installing Clip Sills or accessories, use a full 1/2” bed of cement behind the products in combination with the Clips. Wire lath can also be used in place of the Clips, if preferred. These installation practices will add an additional firmness to the products that are often subject to fixture attachment and contact.

Step 9: Grouting
Quality Stone Veneer products are to be grouted using a polymer modified stone veneer mortar. Using a grout bag, fill the joints and let cure until they are thumb print hard. Then, tool and brush the joints as desired.

*Note: All Quality Stone Veneer Clip System products can also be direct applied using cement and wire lath. This is most common over masonry, although some framed wall systems can be better fastened to using wire lath.

Bull Run
Cobblestone Lambris

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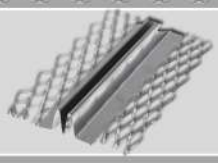
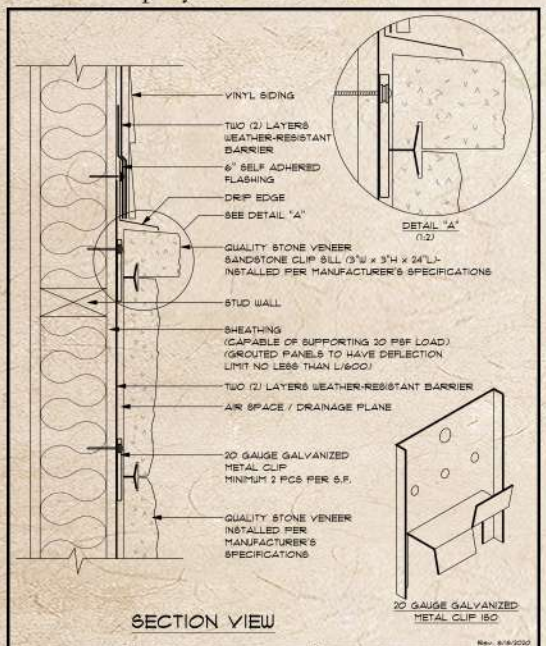
Cobblestone Lambris - **Installation Materials in Clip System Areas:**		
Intallation Material	**Photo**	**Best Estimating Practice**
*Installation of the Clip System requires a substrate that will carry a load of 25 pounds per square foot. *Areas of insulation require a layer of plywood sheathing over the ridigd insulation to meet load requirement.		
Water Resistant Barrier		Figured for the total stone square footage area.
Flashing, Self-Adhered		Figured around all windows, doors, MEP openings, Vertical transitions in stonework.
Wire Lath		1 Piece figured per 500 square feet of stone installed. Wire used to install precast accessories. (Sills, Outlet blocks, etc.)
Expansion Joint		Figured for vertical control joints every 144 square feet of stone installed.
Clip Starter Strip (10' - 22 Gauge Galv.)		Calculated per the linear footage at the base of stud walls, LF at roof lines with stone above, LF at window heads and LF at door heads. Clip Starter Strips are 10' long. Add LF of Clip Starter Strip at rim joist level of floor to floor transition as panels continue up the walls. If stone continues to the foundation, then Clip Starter Strip will be used at the sill plate as described in this guide and an extra run of self-adhered flashing is to be figured with this type of transition.
Standard Clip (20 Gauge Galv.)		Take Building SF (Estimated Field Measurement) x 2.3. Subtract the LF of Clip Starter Strip. Add 2 Clips per 2' sill. When Clip Soldier courses are used on the building, add 2 Clips per 2' soldier piece. Total those numbers for total Standard Clip quantity.
Fasteners, Clip Screws		Include the Clip Screws at 1 screw per Clip and 1 screw per LF of Clip Starter Strip. There are 127 Clip Screws per pound.
Coil nails (Or Self-tapping Screws)		Figured for the wire lath per specified wall type. Fasteners at wood stud walls must penetrate wood studs ¾". Fasteners at steel stud walls must penetrate three screw threads into the metal studs.
Polymer Modified Mortar		Figured for panel jointing, direct application areas over masonry, application of precast accessories. (To be compliant with ANSI A118.4 or ANSI A118.15)

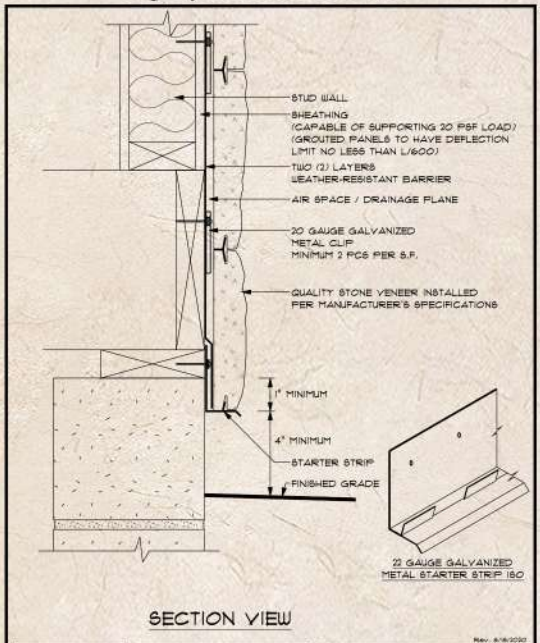
Clip System Details

Clip System at Kneewall



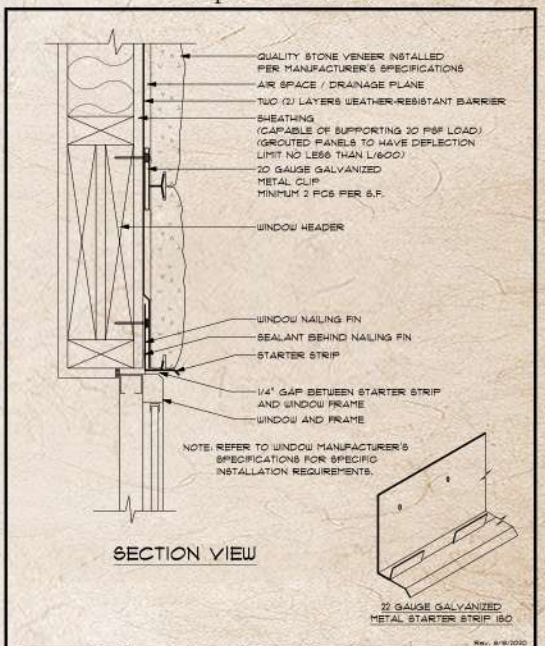
QSV-31.0 | SCALE: 3" = 1'-0" | MANUFACTURED STONE CLIP SYSTEM AT KNEE WALL | FOR STUCCO, MASONITE, WOOD & VINYL SIDING

Clip System at Stud Wall



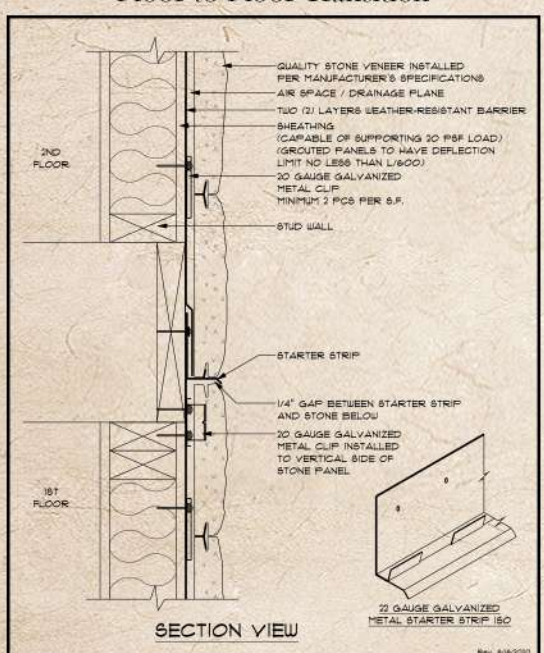
QSV-32.0 | SCALE: 3" = 1'-0" | MANUFACTURED STONE CLIP SYSTEM ON STUD WALL | STARTER STRIP INSTALLED AT C.M.U.

Top of Window



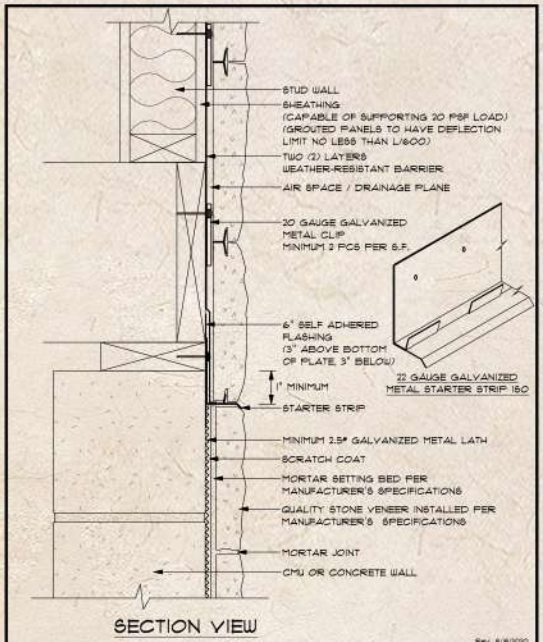
QSV-33.0 | SCALE: 3" = 1'-0" | TOP OF WINDOW DETAIL AT MANUFACTURED STONE W/ CLIP SYSTEM | INSTALLATION AT STUD WALL

Floor to Floor Transition



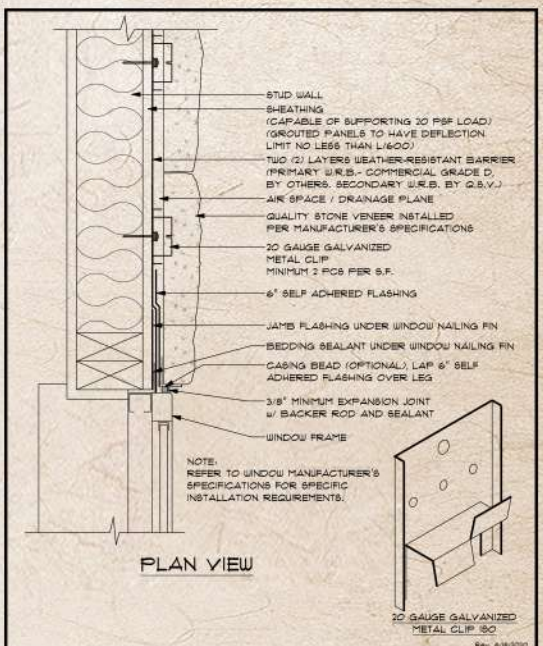
QSV-34.0 | SCALE: 3" = 1'-0" | TRANSITION BETWEEN EACH FLOOR MANUFACTURED STONE W/ CLIP SYSTEM | INSTALLATION AT STUD WALL

Stud Wall to Foundation Wall



QSV-35.0 | SCALE: 3" = 1'-0" | MANUFACTURED STONE CLIP SYSTEM ON STUD WALL AND MANUFACTURED STONE AT FOUNDATION WALL | STARTER STRIP INSTALLED AT C.M.U.

Side of Window



QSV-36.0 | SCALE: 3" = 1'-0" | SIDE OF WINDOW DETAIL WITH MANUFACTURED STONE CLIP SYSTEM