



Project Material and Labor Estimating Guide

I. SYSTEM MATERIALS: COMPONENTS OF PROJECT SECTION

A. TABS II (Heavy Duty) and IP (Light Duty) Panels:

<u>Panel Sizes: (w x h)</u>	<u>(mm x mm)</u>
48" x 16"	1200 x 400
48" x 24"	1200 x 600
48" x 48"	1200 x 1200
48" x Custom (by courses or rows, and custom tabs length 5/16" and 1/2")	

Support Tab Spacing:

(2 5/8" - 66mm)	(3" - 75mm)	(3 1/8" - 80mm)
(4" - 100mm)	(6" - 150mm)	(8" - 200mm)
(11 7/8" - 278mm)	(12" - 300mm)	

Support Tab Lengths:

(5/16") tab for (1/2" to 3/4") thick veneer, and (9/16") additional extended tab for (13/16" to 1 1/4") thick veneer.

B. TABS II and IP Panels with Pre-Applied Veneer:

Panel Size: (w x h)

48" x 16", use in combination with plain panels around openings.

C. Panels Pre-Bent for Corners, Windows, and Door Return:

Panel Sizes: (w x h)

48" x 16" 48" x 24" 48" x 48"

D. Veneers: Supplied by TABS Wall Systems or equal (maximum 1-1/4" thick).

1. Thin brick meeting ASTM C-1088, Decorative Block meeting ASTM C-90, Dimensional Cast Stone meeting ASTM C-1364, along with tile, marble, granite, or natural stone.
2. Additional veneers must be approved by TABS Wall Systems.
3. Saw cut veneers must be clean & free of all residual debris or primed using TABS P150 primer.

- E. **Mastic and Structural Silicone:** TABS brand only.
1. TABS II adhesive in (29oz. – 860ml) tubes, for use with Thin Brick, Decorative Block, and Tile.
 2. TABS II Structural Silicone in (29oz. – 860ml) tubes & primer (32 oz can), for use with Cast Stone, Marble, Granite, and other Natural Materials.
- F. **Mortar:** Supplied by TABS Wall Systems or equal.
1. Type "S" mortar mix required; either pre-blended in a bag, or mortar cement mixed with washed sand, per code standards. Natural Stone and Tile might require stone or tile grout, check first with manufacturer prior using Type "S" mortar mix.
- G. **Mortar Additive:** TABS brand only.
1. Concentrated water-based TABS II acrylic latex bonding agent.
 2. Diluted additive used with S-Grade mortar mix.
- H. **Fasteners:** Supplied by TABS Wall Systems or equal.
1. Non-corrosive #6 or #8 fasteners with a wafer head (or) flat back design. Type and length of fastener will be determined by substrate and overall wall thickness.
- I. **Water Infiltration Barrier:** Supplied by TABS Wall Systems or equal.
1. Green Guard Rain Drop Wrap, supplied by TABS Wall Systems or equal to meet building code, project specification requirements, and TABS requirements.
- J. **Flashings and Trims:** Supplied by TABS Wall Systems or equal.
1. TABS Starter, Top Side, Side Angel Flashing (G90, 22 to 26 gauge w/ Kynar 500 finish) or equal to meet building code and project specification requirements.
 2. If specification is not called out, project needs to meet BIA tech notes 7 - 7A, 7B, 7C and TABS details.
- K. **Cleaning Agent:** Use appropriate type for veneer.
- L. **Caulking:** Material per project specifications and building code.

II. **RELATED PROJECT MATERIALS**

1. Substrate (as needed).

III. SYSTEM MATERIAL PURCHASE GUIDELINES

A. **Panels:** Priced per square foot, various panel sizes, including custom, can be ordered using the same spacing.

1. Average pallet load ~ approximately 2400 sq. ft. (or) 2000 lbs.
2. Order panels using a 2% waste factor, this is based upon wall square footage, with major openings omitted.

B. **Pre-Bent Panels:** Priced per square foot, with 90-degree bends only.

1. Average pallet load, 75 panels.

C. **Veneer:** Can be ordered through TABS Wall Systems or local distributor. Thin brick straights, tile, and stone veneer are priced per square foot, brick corners and special shapes are priced per piece.

Note: When veneer is purchased through TABS, veneer becomes part of the TABS Wall Systems Warranty.

1. To figure the amount of outside veneer corners, for modular size veneer, use total lineal footage and multiply by 4½ pieces per running foot. For other sizes contact distributor.
2. Straight brick waste should be calculated at 3%, and corner brick waste at 5%.
3. Stone veneer waste should be calculated at 3%.

D. **Mastic:** Sold by the case, 12 - (29 oz. – 860 ml) tubes per case.

1. Each 29 oz. tube of TABS II Adhesive will supply enough coverage for approximately 12 sf to 16 sf of veneer per tube.
2. Each 29 oz. Tube of TABS II Structural Silicone will supply enough coverage for approximately 12 sf to 16 sf of veneer per tube.
3. When using TABS II Structural Silicone, it is required to prime veneer with TABS II P150 Primer (32 oz. can will yield 400 sf per qt.)
4. Corner, sill bricks, and bricks of 1" thickness will use 1.5x more mastic than straight bricks.
5. Extra tubes are recommended for first run projects.

E. **Mortar:** Available through TABS or local distributor.

1. (50) lbs. of S-grade pre-blended mortar mix will cover approximately 30 ~ 35 sq. ft., and (80) lbs. will cover approximately 45 ~ 50 sq. ft.
2. Natural Stone and Tile might require stone or tile grout, check first with

manufacturer prior using Type "S" mortar mix.

3. Pre-blended colored mortar available in 50 lb. bags.

F. Mortar Colorant: If needed.

1. Iron oxide colors are recommended which can be mixed with S-grade mortar.
2. Pre-colored mortar available through distributor.

G. Mortar Additive: Sold by (gallons – liters) 4 gallons/15 liters per box, or (5 gallon – 19 liter) buckets.

1. A gallon of TABS II concentrated mortar additive diluted to a 1:5 ratio (or 1:6 ratio in summer) will cover approximately 200 ~ 240 sq. ft.

H. Fasteners: Supplied by TABS Wall Systems or equal.

1. TABS panel requires minimum (1) fastener per square foot. *Refer to fastener schedule on pg 10.*
2. Non-corrosive #6 or #8 fasteners with a wafer head (or) flat back design.
3. Type and length of fastener will be determined by substrate. Fasteners will extend beyond substrate and into framing as follows; 1" into wood frame, 1/4" (minimum 4 treads) into metal frame, 3/4" to 1" into masonry (not to enter masonry core).
4. Additional fasteners needed for trims and flashing.
5. Fasteners shall be approved by fastener manufacturer with regards to project condition.

I. Water Resistive Barrier:

1. Install per manufacturer, regional building code, and/or project specifications. TABS details and recommendations are available to be submitted to project architect and/or project engineer for approval.

J. Flashing and Trim: Supplied by TABS Wall Systems or equal.

1. Figure lineal footage of flashing, trim, and starter strip if required.
2. Install and fasten per project specifications, TABS details, and code.

K. Cleaning Agents:

1. Detergent type recommended, or per veneer manufacturer requirements.

L. **Material Storage:**

1. All materials shall be kept clean and dry. Mastic and mortar additive are to be stored above 32° Fahrenheit and below 86° Fahrenheit temperatures.

IV. TOOLS AND EQUIPMENT FOR INSTALLATION

A. **Recommended:**

1. Safety glasses, extension cords
2. 4' Level and/or laser level
3. Hammer, drill and/or screw gun
4. Chalk line, utility knife
5. Flat screwdriver, needle nose pliers
6. Tin snips and/or power shears for panel
7. Sawhorse and support planks, and/or work table
8. Ladders, jacks, picks, scaffolding and/or lifts
9. Quart size caulking gun, offset tile nippers
10. Circular saw/masonry blade (or) tile saw
11. Template for cutting and holding brick (if needed)
12. Clean wheel barrel & hoe, or mortar mixer, or (5) gal. bucket and whip.
13. Mortar scoop, plastic mortar tub, dishpan, or kitty litter tub
14. Screen box with ¼" opening, approximately 2' x 1 ½' dimensions
15. Mortar bag and tip, mortar gun, mortar hopper with drill motor (or) pumping system
16. Striker, jointer rounded 1/2" x 5/8"
17. Two gallon water pail with quart measurements
18. Water buckets, (3) – 5 gallon pails
19. Flat, stiff Tampico bristle brush to clean brick surface
20. Acid brush and handle (if needed)
21. Cleaning brush (plastic bristle to clean tools and equipment only)
22. Tampico bristle water brush

V. ESTIMATING INSTALLATION LABOR

A. **Estimation Tables -Labor Force: 3-Man Seasoned Crew:**

Time to Install 100 Sq. Ft. of Material

Material	Time Frame	Man Hours
Apply Panel	3-Man Crew, 20 Minutes	1.00
Adhere Veneer	3-Man Crew, 90 Minutes	4.50
Tuck Point Mortar	3-Man Crew, 90 Minutes	4.50
Clean Brick	3-Man Crew, 20 Minutes	1.00

* Total man-hours per 100 square feet = 11.00 man-hours to apply panel, veneer, tuck point, and clean brick finish.

**Installation on Single and Multi-Story Projects
Man Hours per 100 Sq. Ft. of TABS System**

Wall Height	w/Screws	w/Masonry Anchors
Single-Story	11	13
Multi-Story	12	14

B. Supplemental Labor Guideline:

1. Cutting, add (1) man hour for each 10 linear feet of possible cutting.
2. Natural Stone, add (1) man hour for applying TABS Primer "P"
3. Ashlar Patterns, add (1) man hour for layout of pattern.

VI. PROJECT PARAMETERS

The following are not included in estimating materials and labor for installing the TABS II and TABS IP system.

1. Scaffolding or support mechanism and the placement of such.
2. Wall preparation; wall shall be flat and meet the design requirement of L/360 and code standards.
3. Control or expansion joints are to be called out on the prints and placed accordingly.
4. All sheathing materials and/or water infiltration barriers are in place.
5. All flashings and/or trims are in place (check project specs and/or code for details).
6. The finished system follows the surface of the supplied wall, if in doubt as to meeting finished surface requirements, notify owner or owner's representative.

Note: The above information is for use with TABS II (Heavy Duty) and TABS IP (Light Duty) "Moisture Control" Panel Systems. Additional materials and guidelines must be added, when installing "TABS II Plus, TABS IP Plus, TABS TI and TABS TI Plus" Panel Systems. Prior to installing these additional systems, be sure to refer to your TABS Wall Systems PDF Details, or contact TABS Wall Systems.

When the "Plus" is added next to the TABS Panels description (ie. TABS "II" Plus or "IP" Plus), this indicates the addition of TABS "Rain Screen Wrap", which must be installed before the TABS Panel and after the building substrate and water infiltration barrier. TABS Rain Screen Wrap is available in Economy 3mm thickness, Standard 5mm thickness, & Canadian Coastal 10mm thickness. When installing TABS "Rain Screen Wrap" be sure to installed 1/8" above all rigid flashing located above all window

heads, door heads, and horizontal control joints. Additional materials needed are: TABS Rain Screen Wrap, 9" Flashing Tape, and SuperStretch Tape (all provided by TABS).

When the "TI" is added next to the name TABS (ie. TABS "TI"), this indicates the addition of TABS "Rigid Insulation Panel", which must be installed before the TABS Panel and after the building substrate and water infiltration barrier. Additional materials needed are: TABS supplied insulation (1", 1 1/2", or 2") & TABS II Rigid Starter Flashing . Maximum overall thickness of TABS TI system can not exceed 3 1/4 inches (including but not limited to; veneer, rainscreen, insulation, etc.).

Insulation Chart

Veneer Thickness	Maximum Insulation	R Value
up to 1/2"	up to 2"	up to R-10
up to 3/4"	up to 2"	up to R-10
up to 1"	up to 1 1/2" (up to 2" with TABS approval)	up to R-7.5(R-10)
up to 1-1/4"	up to 1/2" (up to 2" with TABS approval)	up to R-5 (R-10)

INSTALLATION INSTRUCTIONS

VII. WALL PREPARATION/CONDITIONING:

1. Structurally sound wall; if in doubt, get owner or engineer's approval prior to installation. Framing for control or expansion joints are in place.
2. Substrate will have a recommended deflection design of no greater than L/360 unless consent is given by TABS WALL SYSTEMS.
3. Corners are to be braced to meet code and design requirements in order to alleviate shrinkage, raking, settling and movement. Wall is to be flat within 1/4" per 10 lineal feet. The TABS WALL system follows the contour of the wall. If it is not flat, notify the owner or project manager prior to starting. Walls can be shimmed with felt or foam to obtain desired results.
4. Sheathing will be of approved type for installation and code equal and installed to sheathing manufacturers recommendations and specifications.
5. Water or air infiltration barrier in place, if needed, with any openings or tears repaired.
6. Starter angles, flashing, and trim in place as per detail drawings to be approved by project architect, project engineer.
7. TABS Wall Systems recommend that the location of vertical control joints should be 2' on both sides of all outside corners, then 20' to 25' for wood stud framing (and/or) 25' to 30' for steel stud framing. At inside corners, where unlike materials contact system components and if needed. Where by stress caused by heat, cold, moisture or building, movement needs to be relieved.
8. TABS Wall Systems recommend that the location of horizontal control joints should be every one to two stories for steel stud framing and every one story

for wood stud framing. **Control joints should be to regional building code standards**, but not to exceed 24' in height.

VIII. LAYOUT:

A. Control Areas

1. Stop panel and veneer at building control joints.
2. Install vertical control or expansion joints at 2' on both sides of all outside corners then every 20' to 25' (and/or) 25' to 30' depending on building frame (see above).
3. Install horizontal control or expansion joints at least every 1 to 2 stories depending on building frame (see above).
4. Stop panel and veneer 1/4" to 3/8" away from doors, windows, and overhead door openings (See Details).
5. Stop panel and veneer 1/4" to 3/8" from inside corners.
6. Control joints should be 3/8" wide to accommodate movement of veneer and panel. Larger joints may be needed to accommodate building movement. These should be specified by the designer or engineer.
7. For ease of installation, window or door frames should be within 3" of surface, for veneer returns using outside corners pieces.
8. If window sill is to be angled by using outside corner piece, frame should be within 2 1/2" of outside surface (See Details).
9. Lowest common corner of building is starting point. Then level corner to corner.
10. Align tabs at corners and all joints.
11. Adjust panel, if possible, so full course fits under or over windows, doors, or openings (cut as little as possible).
12. If a full course is not possible, use soldier coursing or trims.

B. STANDARD PANELS:

(If using TABS II Plus, IP Plus or TI Systems, prior installing the TABS II or IP Panel, first install TABS Rain Screen Wrap or GreenBoard SL over the building substrate and water infiltration barrier). Be sure to install TABS Rain Screen Wrap 1/8" above all window heads, door heads and horizontal control joints.

1. Clean panel, if necessary, with non-oil base cleaner of any dirt, film, or residue that interferes with adhesion of mastic or mortar.
2. Install panel in upright position, with control date on bottom center of panel or punched openings above tab.

3. Panel edges to end or begin on stud or girt.
4. Start at outside corner;
 - a. panel may be custom bent or wrapped around corner for additional bracing.
 - b. stagger panel joints over joints in sheathing.
 - c. stagger panel joints if possible (this will help brace the wall);
 - d. panels are butted at edges; for optimal stress relief, a 1/16" gap between panels is recommended.
5. Panel should be fastened as flat as possible; fasten down center then work out to edges. Apply adhesive to areas behind panel that may flex too much or install additional fasteners to pull panel flat to wall.
6. Panel may be cut with tin snips or power shears.

C. PRE-GLUED PANEL:

1. Install panel with tabs under the Brick.
2. Panel edges to begin and end on stud or girt.
3. Place pre-glued panels to stagger joints.
4. Panels are butted at top and bottom edges.
5. Panels have a gap of 1/16" at sides.
6. Panels should be fastened from bottom center continuing to top.
7. Cut pre-glued panels metal side up with metal blade, turn over then cut through brick with masonry blade or use blank filler panels.

D. FASTENER:

1. Shall be a non-corrosive type with a flat or wafer head design.
2. Fasteners will extend beyond substrate and into framing as follows; 1" into Wood frame, 1/4" (minimum 4 treads) into metal frame, 1" into masonry (not to enter masonry core).
3. Fastening schedule of 1/4" from edge and every 8" on studs into 16" on center studs, or 5 1/4" on stud into 24 on center studs, through panel's pre-drilled holes. Additional fasteners can be used around perimeter of panel and cut edges (if pre-drilled hole is not accessible, fastener can be installed through panel, providing fastener is installed in between mortar joint and not behind thin veneer material). For masonry substrates use a minimum of one (1) fastener per square foot. *For additional fastener schedules, please refer to Appendix A (Additional Fastener Schedules) on page 14 of this document.*

E. VENEER:

1. Veneer colors vary in shades and textures from veneer to veneer and process to process.
2. Order full veneer range (5 pieces) before placing order, if in doubt as to color range or texture.
3. Bricks, tile, or stone should be applied to wall out of several boxes at one time, so that a blend of color ranges may be achieved.

F. STARTING POINT (INSTALL MASTER ROW):

1. Start at outside corner of wall.
2. Apply corner bricks to wall, alternating long and short leg, for running bond pattern. Apply stone veneers with corner edge protruding the thickness of the return veneer.
3. Run one row of veneer the length of wall to next outside or inside corner under or over window or door line, with a 3/8" joint opening between veneers.
4. The position of the veneer on the panel to the double tabs will be the same on every other course.
5. Adjust tabs, if necessary, to keep course level.
6. Engage TABS II's mortar tie, by pressing mortar tie in downward motion over top of each brick.
7. For brick walls not using outside corner pieces, wall will be started with a Full brick for die master row; the next course is started with a half brick.
8. To install brick vertically, creating a soldier course flatten 2 rows of tabs into their openings. Rest bricks vertically on tabs.
9. Veneers should be stopped 1/4" to 3/8" from door and window trims.

G. CUTTING:

1. Score brick or to 1/4" depth with masonry blade, circular or cut off saw on face of brick. Break scored pieces with offset tile nippers.
2. Tile, Marble and granite must be cut all the way through with a tile saw.
3. Install factory edge toward window and door moldings -when edge is concealed by trim, place factory edge to be seen. Apply full pieces first, and then cut pieces.
4. Window and door head openings should be finished as shown in details.
5. If possible, grout joints should not be placed directly over panel seams or joints.

H. MASTIC:

1. Apply mastic in dabs about the size of a quarter to the back of the brick on either end or on the panel so that each brick receives two dabs of mastic. You may also apply vertical strips of mastic at each end of the brick.
2. Apply mastic to corner bricks with 2 dabs or strips on the long leg and 1 dab or strip on the short leg.
3. Do not run a continuous horizontal bead of mastic on the panel, you will use more than what is needed and will hinder moisture movement on the face of the panel.
4. Mastic, if kept warm, can be applied to brick or panel at 32 degrees F, facilitating year around installation.
5. Too much mastic will tend to push brick away from the wall. Air mastic by pulling brick away from panel for a few seconds; then push back into place. This allows solvent to escape faster and the mastic to become stickier.
6. Mastic in hot weather can hasten a film. Slide brick on panel to break surface film and achieve a good bond. In direct summer heat, mastic will most likely have to be aired to release solvent faster to allow mastic to have a tackier set.
7. For tile and stone veneers, structural silicone should be applied in 3/8" vertical beads every 3" to 4" apart to panel or back of veneer. *See Appendix B located on page 16 for proper use of Tabs Structural Silicone.*

I. FIELD MIX FORMULAS:

1. Formulas – Type "S" Mortar Mix

Mix #1: 1 part Portland Type 1, 1/2 part hydrated lime, 2 to 3 parts sand.

Mix #2: 1 part pre-mixed Type "S" masonry mix.

Mix #3: 1 80 lb. Bag of mortar mix Type "S", 2 to 3 parts sand.

2. Screen mortar mix, dry, through 1/4" screen cloth. This will stop lumps or stones from plugging the tip of the grout bag or applicator.
3. Add colorant, if required, to dry mix, then mix well dry.
4. Add 1 quart TABS latex to 5 quarts water. Add this liquid mixture to the dry mortar ingredients. In summer add 1 qt latex to 6 qt, re-temper as needed.
5. Screen part of the wet mortar mix through a 1/4" screen cloth into a mortar tub to screen out any lumps.
6. Add additional water to screened mortar mixture, if needed, so the consistency is that of (a milkshake), or so it just drips through the tip of the grout bag.
7. Fill 4 feet of horizontal courses first. After every 4th row, fill vertical joints; this will allow wall to dry evenly. Fill in all voids with damp mortar previously struck from wall.

8. Over-fill joint with mortar, as mortar dries; it shrinks due to water volume loss. Note: normal slicker may penetrate to far, use modified slicker or a 6-9" piece of 1 1/2" to 2" ID pipe.
9. When mortar is thumb print dry to the touch (like wet beach sand), strike joint with slicker or jointer tool to pack mortar into the joint.
10. Struck mortar should be dry enough to fall away clean and tooled to a dull gritty finish, not wet and shiny.
11. Upon initial set, brush excess mortar off of brick face, if necessary, with a flat natural bristle brush. Be careful not to drag mortar out of joint, or smear wet mortar onto brick surface.
12. Setting time will depend on drying conditions. In very hot weather, dampen brick to prevent rapid absorbency of moisture from mortar. When starting a new day, break cold mortar tips before continuation of tuckpointing.
13. Natural Stone and Tile might require stone or tile grout, check first with manufacturer prior using Type S mortar mix.

J. CLEANING:

1. TABS Wall Systems recommends cleaning veneer between 5 and 7 days (never to exceed 10 days). In the event brick is cleaned after 10 days and you experience difficulty in cleaning excess mortar from the brick, contact TABS for the appropriate "Latex Stain Remover".
2. For additional methods on how to veneer, contact thin veneer distributor or manufacturer.

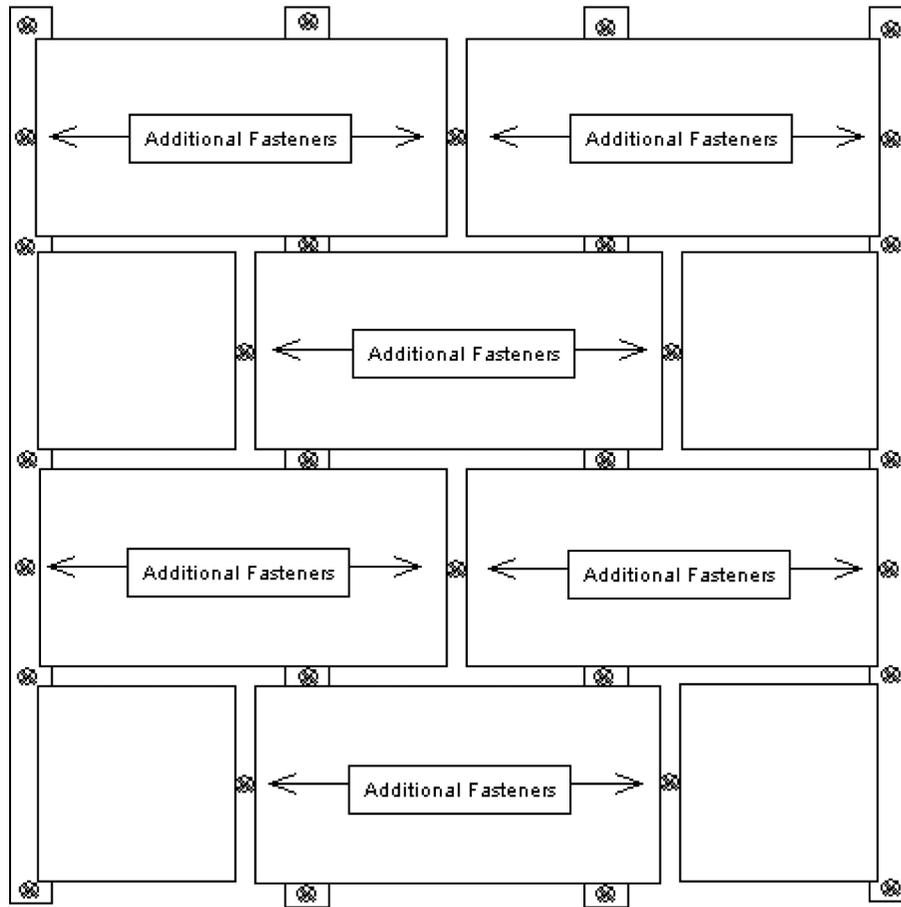
K. CAUTION:

1. TABS Wall Systems does not recommend acid based cleaners. Prior cleaning thin veneer, check with the thin veneer manufacturer, for their recommendation on what cleaner to use.

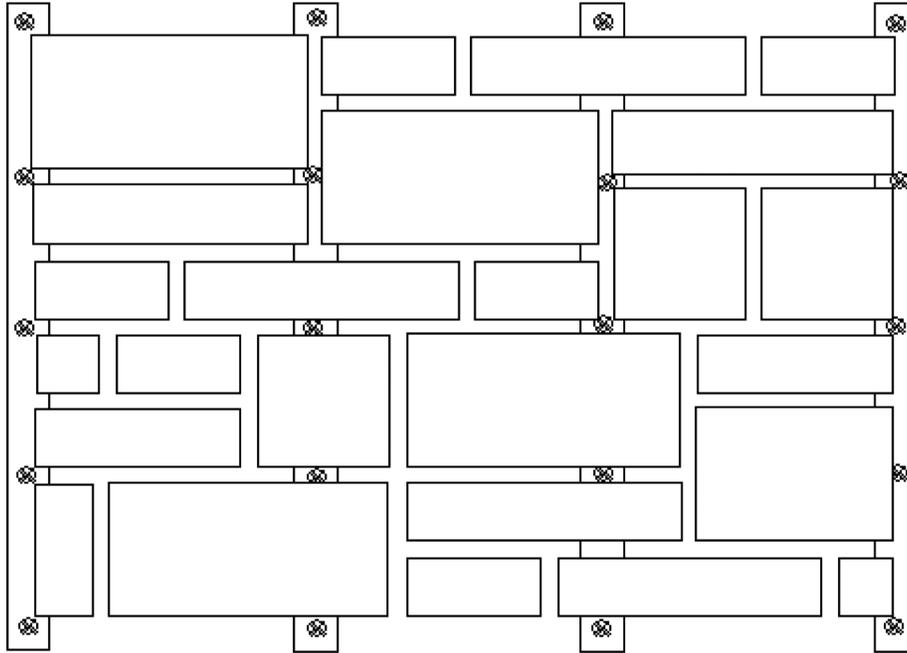
Appendix A

L. ADDITIONAL FASTENER SCHEDULE:

1. When installing veneers greater than 8" in height and longer than 16" in length (example: TABS Stone units 1-1/4" x 11-5/8" x 23-5/8"), it is necessary to install additional fasteners in between veneer to assure TABS Panels are installed properly to substrate. *Note: Never install fasteners behind veneer! In addition, when using this fastener schedule it is recommended to install TABS II Heavy Duty Panel over exterior plywood, cement board, or masonry substrates. If installing over Dens-Glass Gold, Exterior Gypsum Board, or similar sheathing, *additional fasteners must include toggle wing nut.*



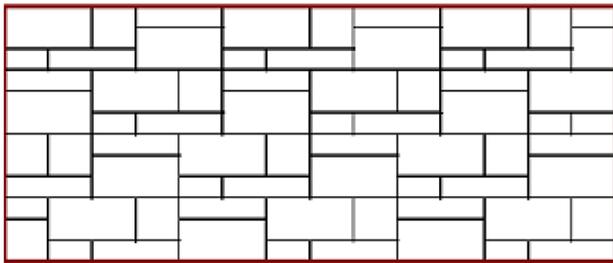
2. When installing TABS Patterned &/or Random Ashlar Stone System, install fasteners in accordance with TABS Wall Systems fastener schedule mentioned on page 10. (Fastening schedule of 1/4" from edge and every 8" on studs into 16" on center studs, or 5 1/4" on stud into 24 on center studs, through panel's pre-drilled holes. Additional fasteners can be used around perimeter of panel and cut edges (if pre-drilled hole is not accessible, fastener can be installed through panel, providing fastener is installed in between mortar joint and not behind thin veneer material).
3. Due to the nature of the Ashlar patterns having random heights & lengths, on occasion it will be necessary to remove fasteners, which lie beneath veneer & relocate them in between veneers at its closest proximity. To prevent frequent relocation of fasteners, it is recommended that before installing TABS Panel to layout fastener schedule & pattern design.



TABS Recommended Ashlar Patterns

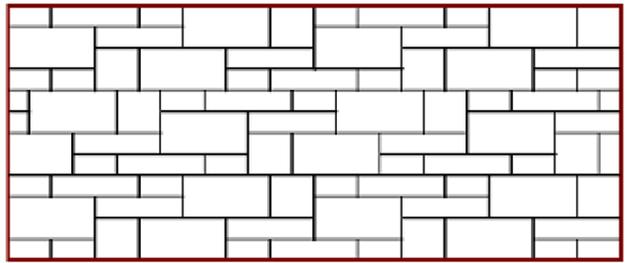
Patterned Ashlar -Type 1

(1) 4x8, (2) 4x16, (1) 8x8, (2) 8x16"



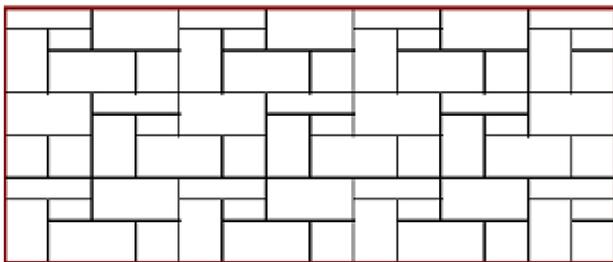
Random Ashlar - Type 1

(4) 4x8, (4) 4x16, (2) 8x8, (3) 8x16"



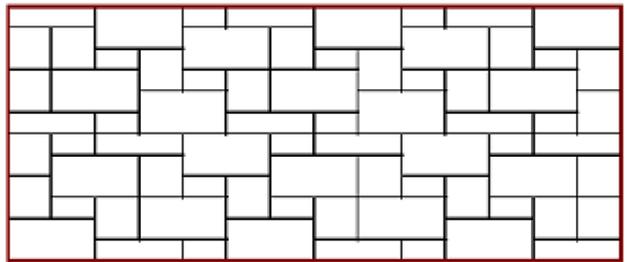
Patterned Ashlar -Type 2

(1) 4x8, (1) 4x16, (1) 8x8, (1) 8x12, (2) 8x16"



Random Ashlar - Type 2

(4) 4x8, (2) 4x16, (3) 8x8, (4) 8x16"

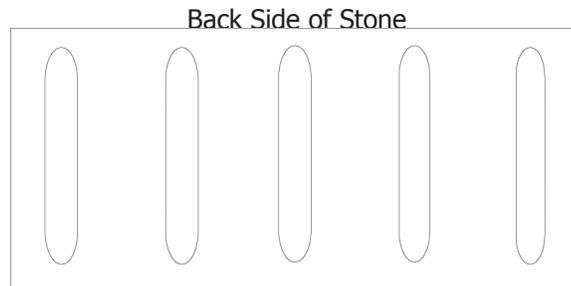


Note: Other Ashlar Patterns Available Upon Request

Appendix B

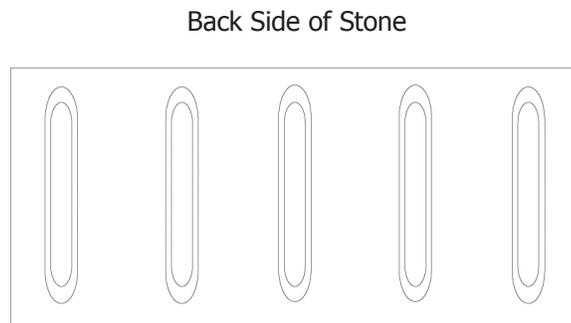
M. PROPER USE OF TABS STRUCTURAL SILICONE:

1. When applying TABS Structural Silicone to natural stone veneers, the stone must be properly prepped using TABS "Primer P" applied using a one inch paint brush in vertical strips 2 to 3 inches apart.



1" Vertical painted
strips of TABS Primer "P"

2. Once primer has completely dried TABS Structural Silicone can then be applied using 1/2" to 3/4" vertical beads on top of TABS Primer "P".



Apply 3/8" to 1/2" Vertical
strips of TABS Structural Silicone

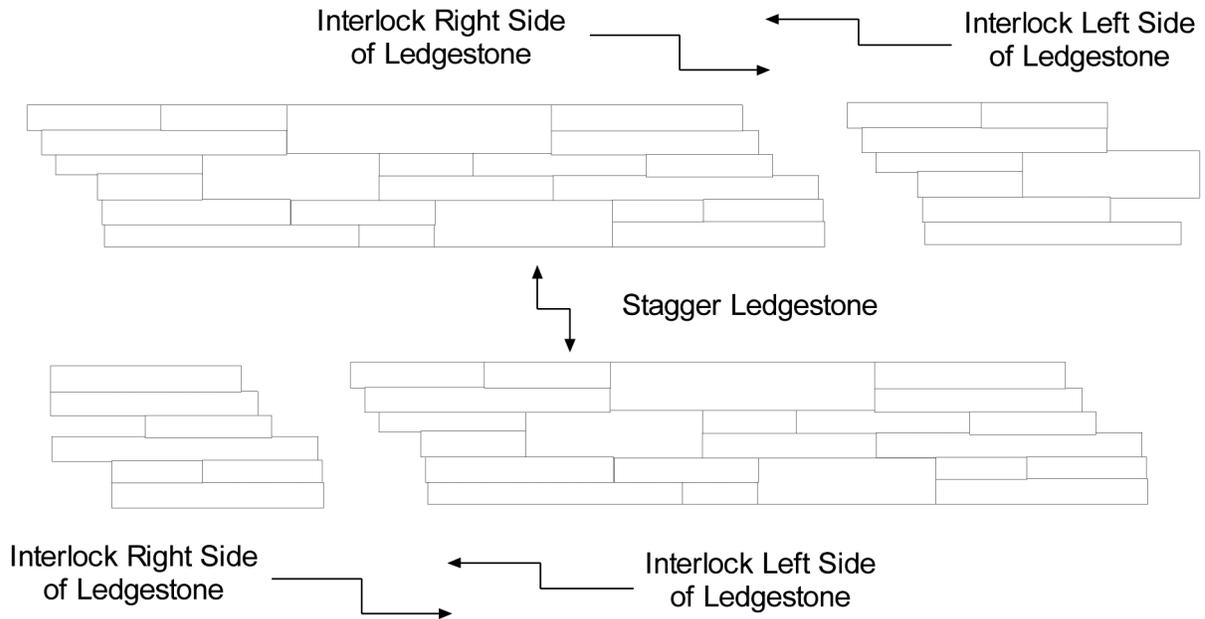
3. Before veneer can be applied to TABS panel you must allow silicone to set up approximately 60-90 seconds or, until silicone sets up enough for veneer to hold on to panel.

If you have any technical questions regarding the application of TABS "Primer P" & TABS Structural Silicone, please do not hesitate to call your local TABS distributor or call TABS Wall Systems direct at (616) 554-5400.

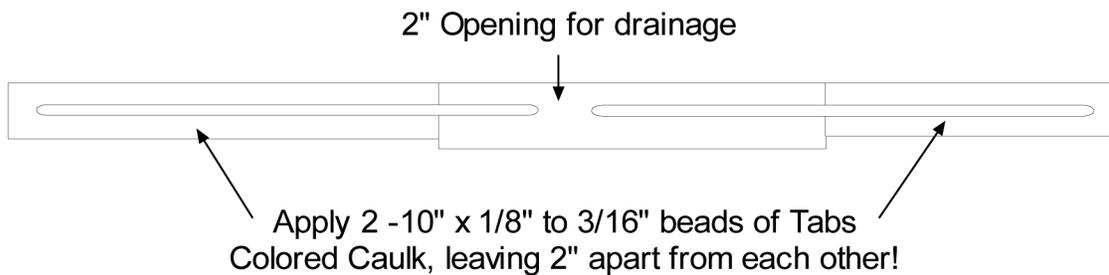
Appendix C

N. INTERLOCKING TABS 6" x 24" LEDGSTONE ASSEMBLY:

1. Install bottom row of tabs 6" x 24" LedgeStone section on to TABS panel interlocking next section hand tight applying TABS "Primer P" & TABS Structural Silicone as mentioned in Appendix B.



2. Apply thin bead (1/8" to 3/16") of TABS colored caulk over center of top row approximately 10" across, leaving 2" space between beads. Note: TABS caulk is colored to match color of stone, this will prevent seeing TABS panel from peaking through, after installation.



Note: To allow proper drainage of TABS System; Be careful not over apply caulk on top row & do not apply any caulk in between stone when interlocking left & right sections together.

3. Install following rows staggering in running bond pattern.

(Revised 6-12)