

Board & Batten

Metal Wall Panel System

Installation Manual

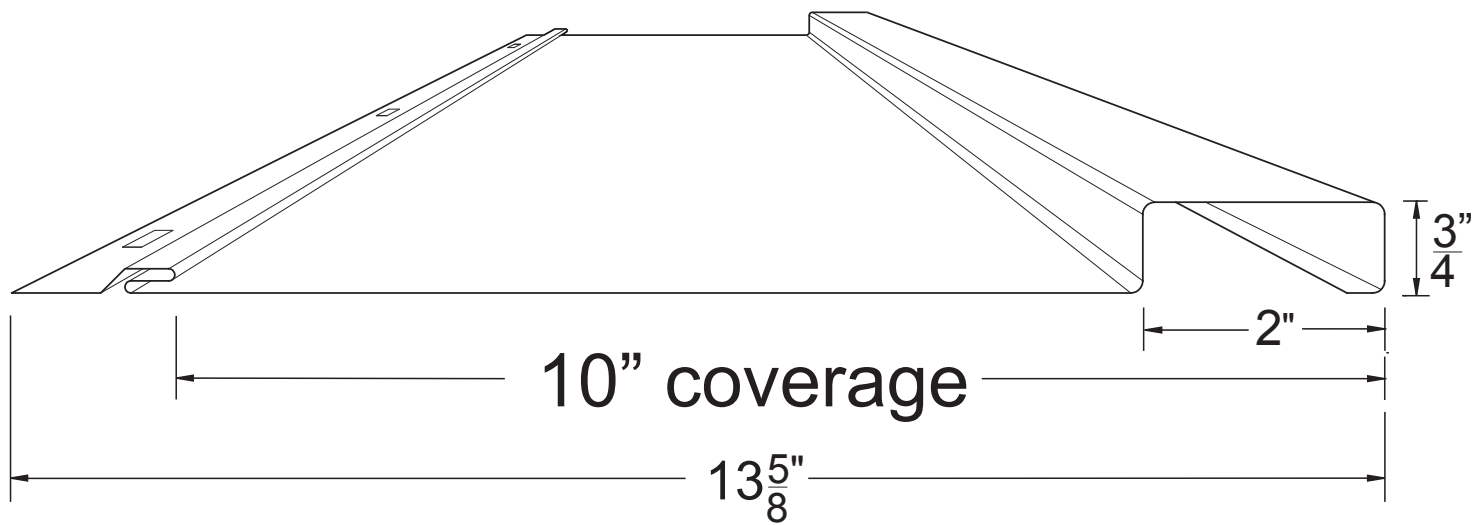
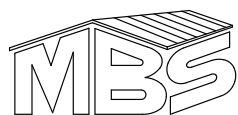


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IMPORTANT INFORMATION

This manual contains suggestions and guidelines on how to install Board & Batten panels. The drawings in this guide are for illustration purposes only and may not apply to all building designs or product applications. The installation details shown are proven methods of construction, but are not intended to cover all instances, building requirements, or codes. It is the responsibility of the designer/installer to ensure that the details meet particular building requirements. The designer/installer must be aware of, and allow for, expansion/contraction of wall panels. The details may require changes or revisions due to each project's conditions.

It is the buyer's responsibility to verify all applicable code requirements, check all measurements, and determine suitability of this product for the job. The buyer is also responsible for determining lengths and quantities needed. Prior to ordering and installing materials, all dimensions should be verified with field measurements. Implied warranties of merchantability and fitness for a particular purpose are disclaimed. All Board & Batten instructions assume that a qualified firm or individual has been contacted regarding application of this product. Failure to comply with stated recommendations relieves the manufacturer of responsibility for any damage or deterioration of the product incurred and voids applicable warranty.

Metal Building Supply, Inc reserves the right to modify, without notice, information in this manual. If you have questions regarding proper installation Board & Batten or need information not included in this manual contact your sales representative or call (800) 467-0626.

While some of the graphics in this document do not show the backer rod for the sake of demonstration, it is our recommendation that a backer rod be installed on every panel. This practice puts a continuous crown in the panel forcing any oil canning to the outside edges. Recommended depth of backer rod is 3/32".

SAFETY

Each job presents unique hazards; therefore it is the responsibility of the buyer/installer to determine the safest way to install Board & Batten based on the recommended instructions in this manual. Crew members **MUST** be provided with proper training and safety equipment.

Always wear appropriate gloves when handling steel panels and trim to avoid cuts from sharp edges. Always wear appropriate eye protection when cutting or drilling steel panels and trim to avoid injury from flying metal fragments.



OSHA safety regulations should be complied with at all times.



FASTENER SPACING

DECK THICKNESS	SPACING
7/16".....	18" o.c. (on center)
5/8".....	24" o.c.
3/4".....	24" o.c.

*slot on leg may not coincide with above chart

TOOLS AND EQUIPMENT

- Snips*
- Tape Measure
- Electric Metal Shear*
- Caulking Gun
- Cordless Drill
- Blind Rivet Tool
- Gloves*
- Eye Protection

*Available from MBS

We recommend the installer have prior experience and knowledge of the listed tools and their uses in working with metal siding.

We do NOT recommend use of a power circular saw to cut panels or trim. Use of a power saw could:

- Increase the instance of edge rust.
- Cause hot metal shavings on panel surface to damage panel or trim surface



PANEL INSTALLATION - Overview

Familiarize yourself with all installation instructions before starting work. Before beginning installation, you should examine the substrate and framing to ensure that all supporting members are straight, level, and plumb to avoid any panel distortion. Substructures should be designed to meet all necessary code requirements.

Some field cutting and fitting of panels and trims is to be expected by the installer and minor field corrections are a part of normal installation work.

It is the responsibility of the installer to ensure a suitable substrate prior to the application of Board & Batten. Underlayment must be nailed or stapled down. Distortion in the panel caused by uneven substrate, ripples, or laps in the vapor barrier, debris, protruding nails, staples, button cap nails, etc, are not defects in the materials and are not the responsibility of Metal Building Supply, Inc.

All trims, closures, and accessories shown in the installation drawings are available from Metal Building Supply, Inc. unless otherwise noted.

Oil Canning in the flat area of the panels is common to the industry and does not affect the integrity of the panel. Therefore, oil canning is not a reason for rejection.

Panels should be installed plumb, straight, and square. To keep the bottom edge of the wall perfectly straight and even, the panels must be installed square to the bottom edge. Begin by checking the wall for square. If it is square then you may pull the layout marks directly from the edge of the wall.

Remove protective film from panels before installation



Protective film must be removed within 30 days of manufacture date. Film left on for more than 30 days may become hard to peel off and is not a reason for refund or replacement.

TRIM INSTALLATION - Overview

Runs of more than 10' 3" that require more than 1 piece of trim, overlap the pieces by 3". The material is thin enough that the overlaps are not noticeable. Trim is attached with wafer screws or rivets. Take care to tighten fasteners enough to secure and seal the part, but not enough to deflect or warp wall or trim.



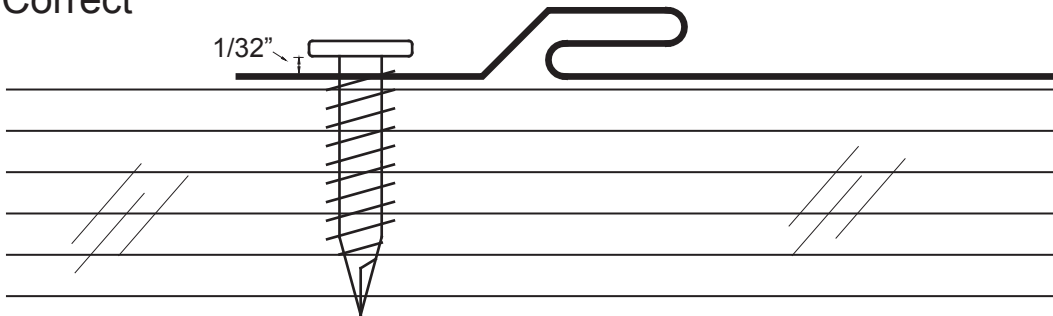
PANEL INSTALLATION - Fastener

When installing Board & Batten panels it is crucial to leave enough space for vertical expansion.

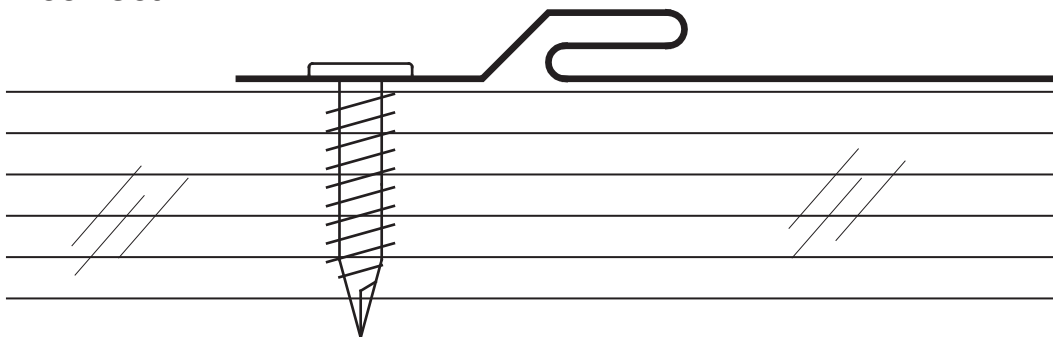
Do NOT over-tighten the fasteners. Panels MUST be fastened loosely, so they can hover against the substrate. Center the fasteners within the nail flanges and drive them STRAIGHT. Driving them at an angle can cause “oil canning”. You MUST ensure there is approximately 1/32” gap between the head of the fastener and the nailing flange (see illustration below).

It is strongly recommended to install Board & Batten panels over a minimum 7/16” OSB substrate.

Correct



Incorrect

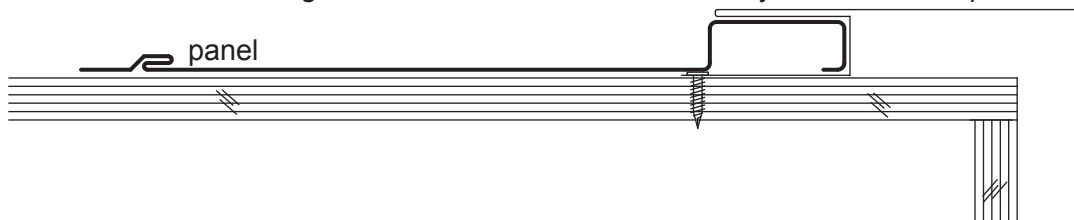


PANEL INSTALLATION - Vertical Wall Edge Termination

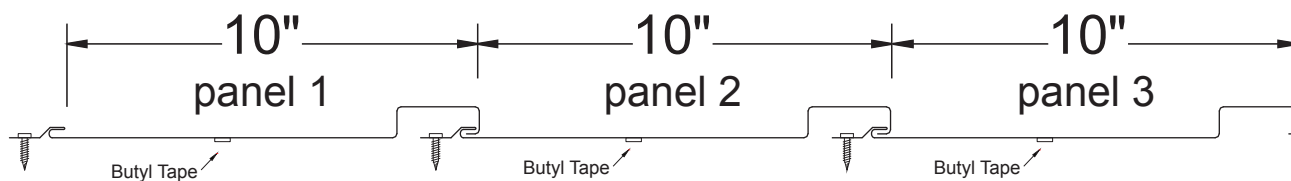
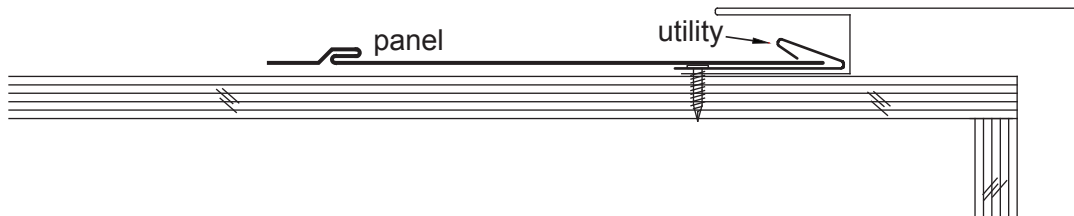
Where a Board & Batten wall terminates in a vertical edge (ie wall corners and framed openings) Utility trim may or may NOT be needed depending on Batten location. If the vertical edge terminates with a Batten (see illustration below) then Utility trim is NOT needed. If the vertical edge does NOT terminate with a Batten then Utility trim is needed. Alternate method using J-trim instead of Utility trim listed on page 16.



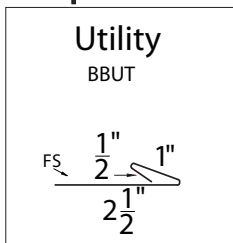
If vertical wall edge terminates in a Batten, then Utility trim is NOT required.



If vertical wall edge does NOT terminate in a Batten, then Utility trim is required.

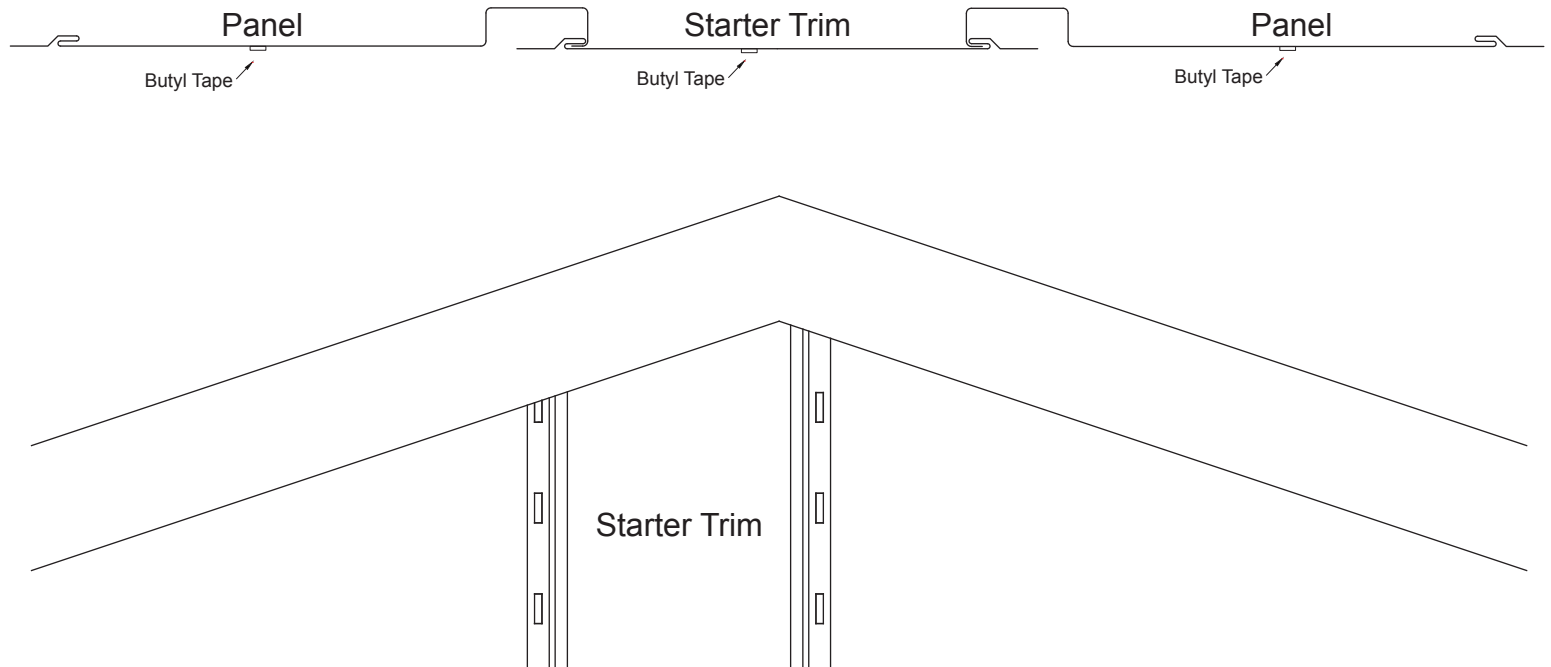


Required Trims:

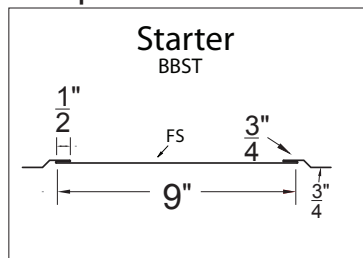


PANEL INSTALLATION - Gable

To properly install on a gable end it is important to align a batten center with the center of the gable. The installation should start from the center and then move outward to both left and right sides. To achieve this use Starter trim and install so one of the batten centers falls center of the gable.



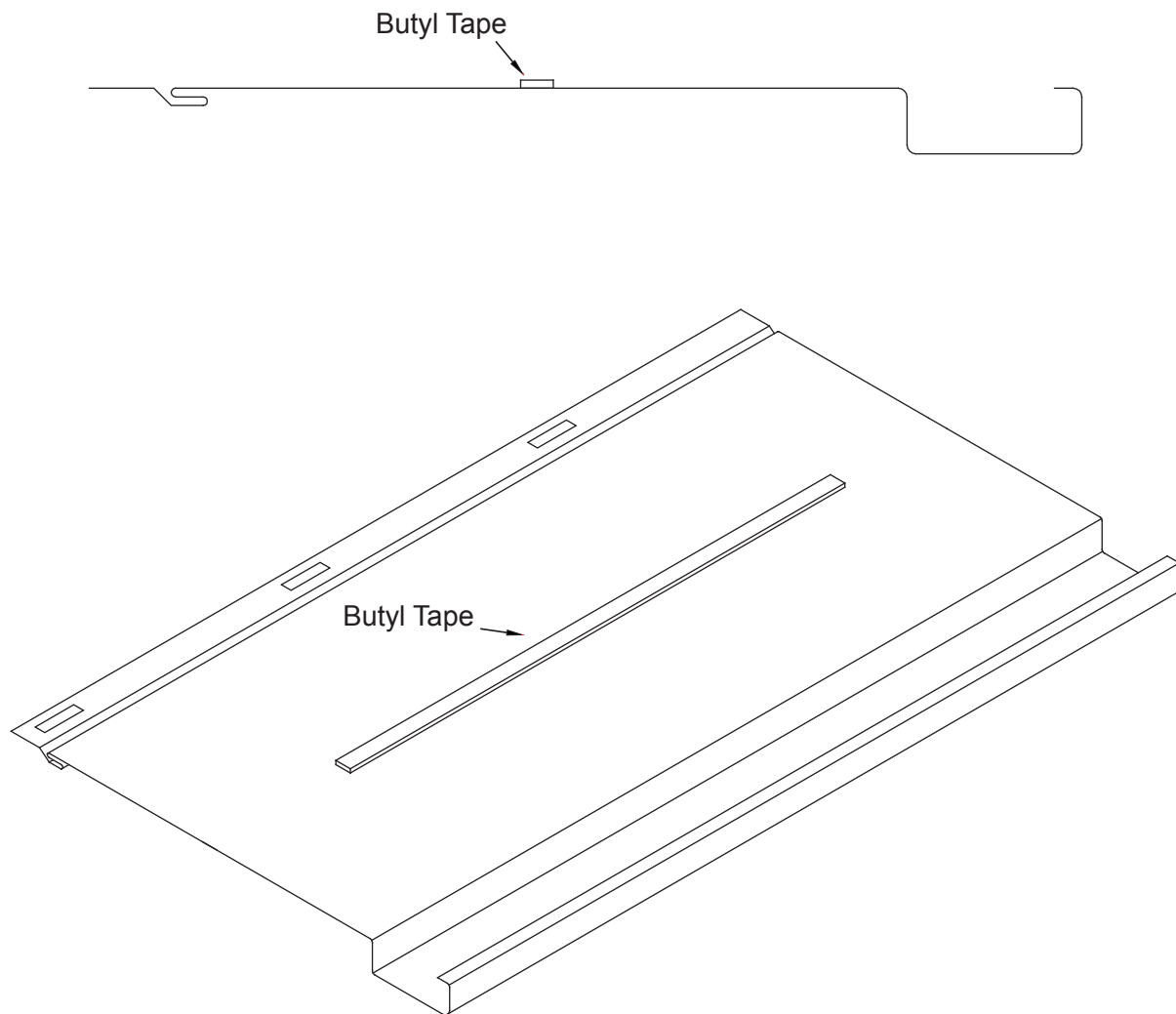
Required Trim:



Alternately installation can start on the edge: Measure out where the panels will fall then cut the leading panel to allow the center panel batten to line up with the gable peak. Starter trim is not needed for this method.

PANEL INSTALLATION - Backer Rod

To help prevent oil canning we recommend using a backer rod (a compressible foam strip or butyl tape) behind the panels. The backer rod should run down the middle of the flat on the backside of the panel prior to panel installation. The backer rod should be cut back 2" to 3" from each end of the panel as well. This practice puts a continuous crown in the panel forcing any oil canning to the outside edges. Recommended depth of backer rod is 3/32".

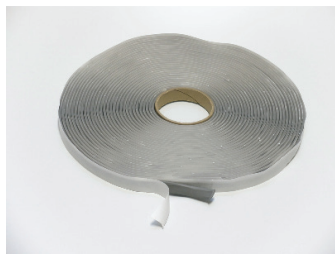


Required Accessory:

Butyl Tape

BUT4538

3/8" wide x 3/32" thick x 45' long



FIELD CUTTING

There are a number of ways to cut sheet metal quickly and accurately. Tin snips or a “nibbler” type electric tool are recommended for field cutting Board & Batten panels and trim.

Although Metal Building Supply discourages it, if a power saw is used, the blade will generate slivers of metal. These slivers must be immediately removed from the finished surface because they will damage the finish and shorten the life of the product. One method of preventing this problem is to flip the panel or trim over when cutting. This allows the slivers to be brushed from the backside and avoids damage to the front side finish. Make sure cutting area is away from stacks of panels so that slivers do not land on other panels.

All product surfaces should be free of debris at all times. Installed surfaces should be wiped clean at the end of each work period. Never cut panels over metal surfaces. When cutting panels, always wear proper gloves and eye protection to avoid injury.



Shavings created by saw cutting or drilling may cause panel to rust and will void warranties in affected areas.

WALL PREPARATION TIPS

-Board & Batten is designed to be installed over solid sheeting substrate. We recommend a minimum of 7/16” plywood sheeting

-Make sure any existing sheeting is smooth, level, and in good condition. Replace any decking not meeting those requirements. Make sure any substrate fasteners are not protruding out of the decking.

-Shimming out low places in a wall is recommended

-Make sure wall is clear of debris that might interfere with installation

-A house wrap or moisture barrier should be installed referencing building codes in your area before installing Board & Batten over top

-Use an alignment or #1 Blue chalk line where the first panel is installed. Other methods of confirming squareness can also be used

SUBSTRUCTURE CONDITION

-Metal installed with screw fasteners should be installed over solid decking

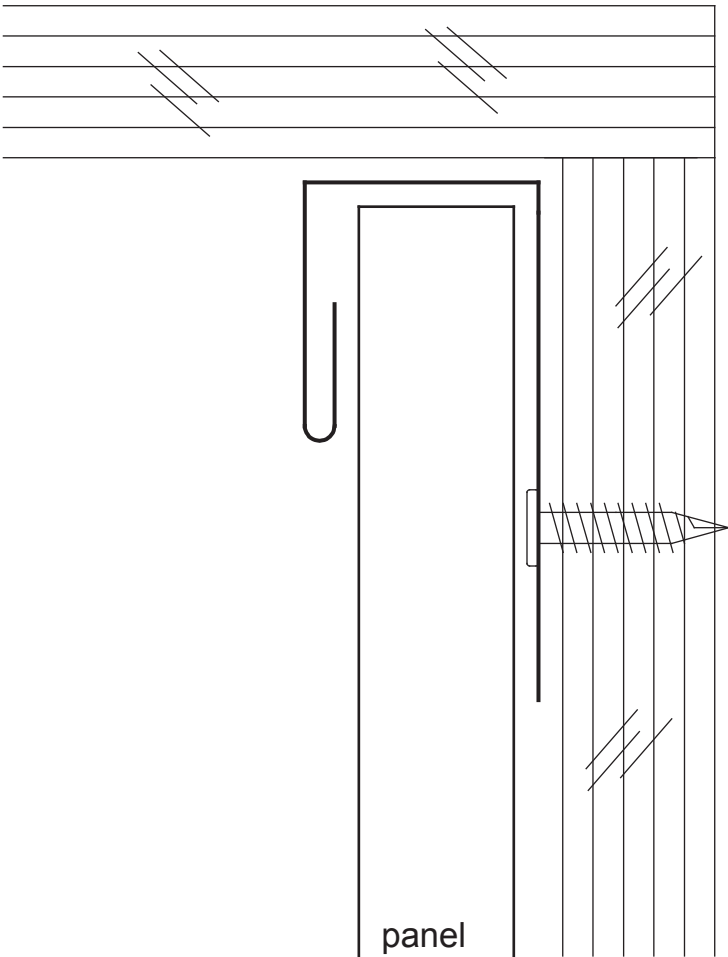
-Avoid installing over damp or green lumber, porous insulation, or other damaging materials

-Strong chemicals may cause premature deterioration

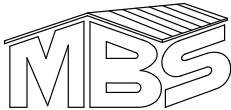
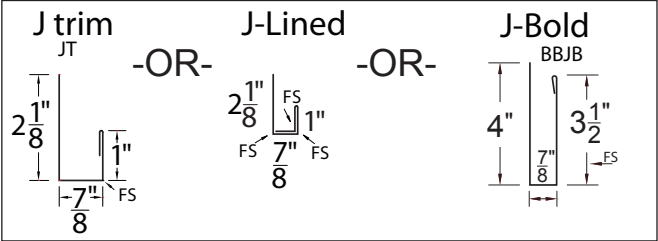
-Use of a moisture barrier or water shield is recommended



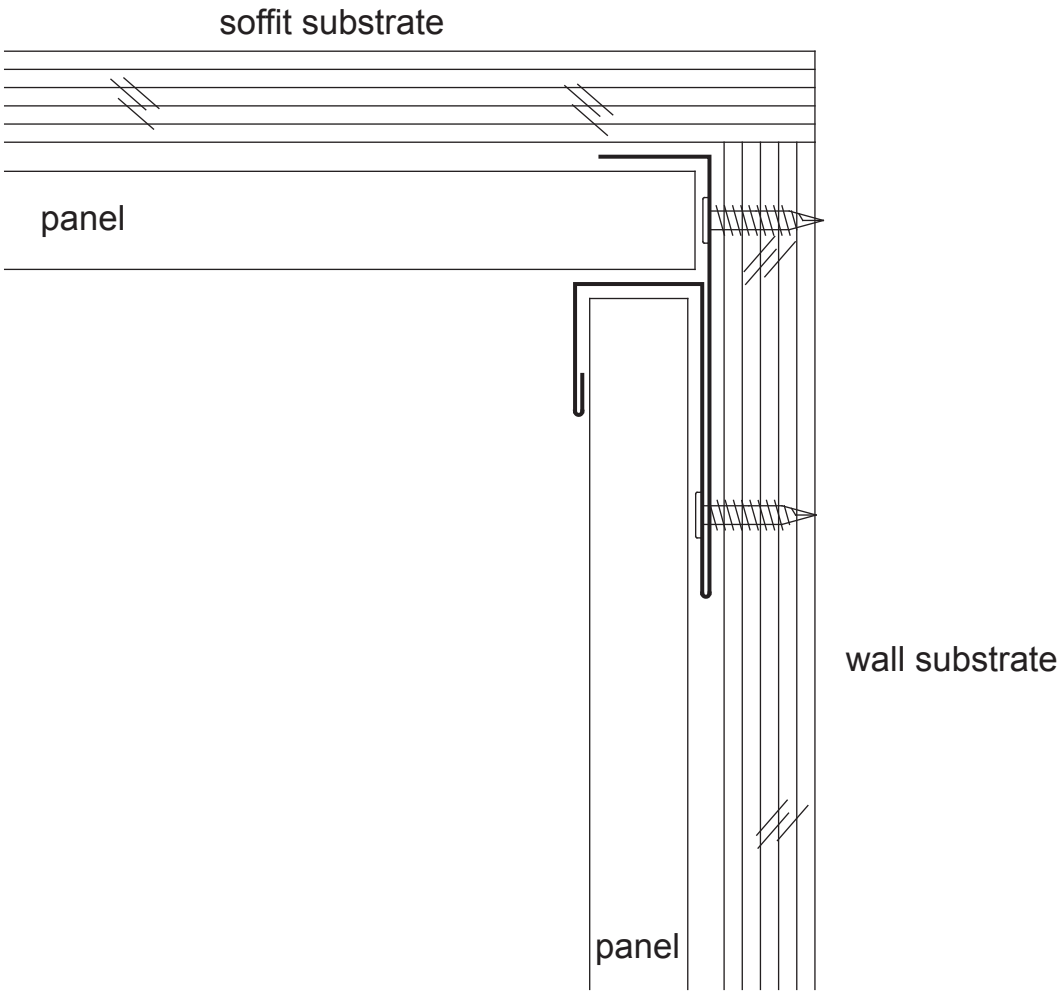
TOP OF WALL CAP - J TRIM, J-Lined, or J-Bold



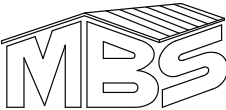
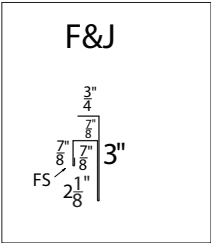
Requires One of these Trims:



TOP OF WALL CAP WITH SOFFIT - F&J TRIM

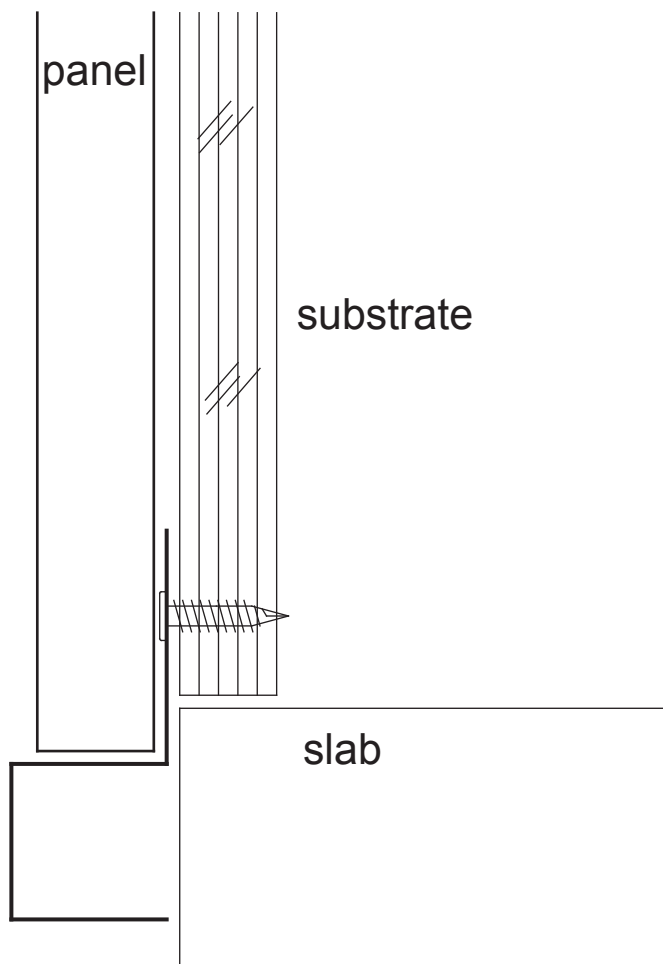


Required Trim:

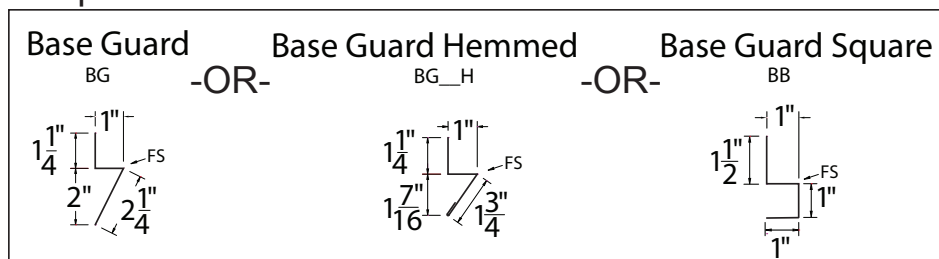


BASE GUARD - BG, BG_H, OR BB

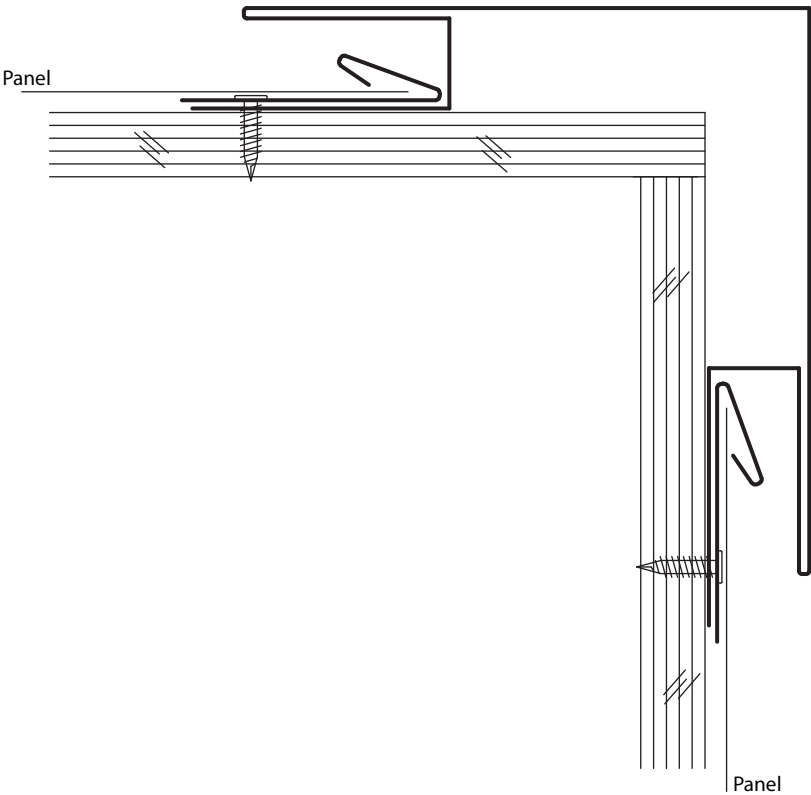
Base Guard serves as the base trim at the bottom of the wall. Use a wafer screw to attach base trim directly to the wall substrate. After that install the Board & Batten panel over the Base Guard, resting on the trim's "ledge".



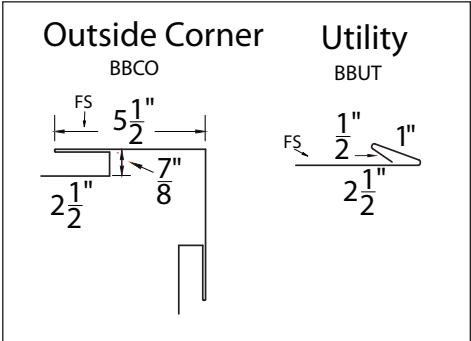
Requires One of these Trims:



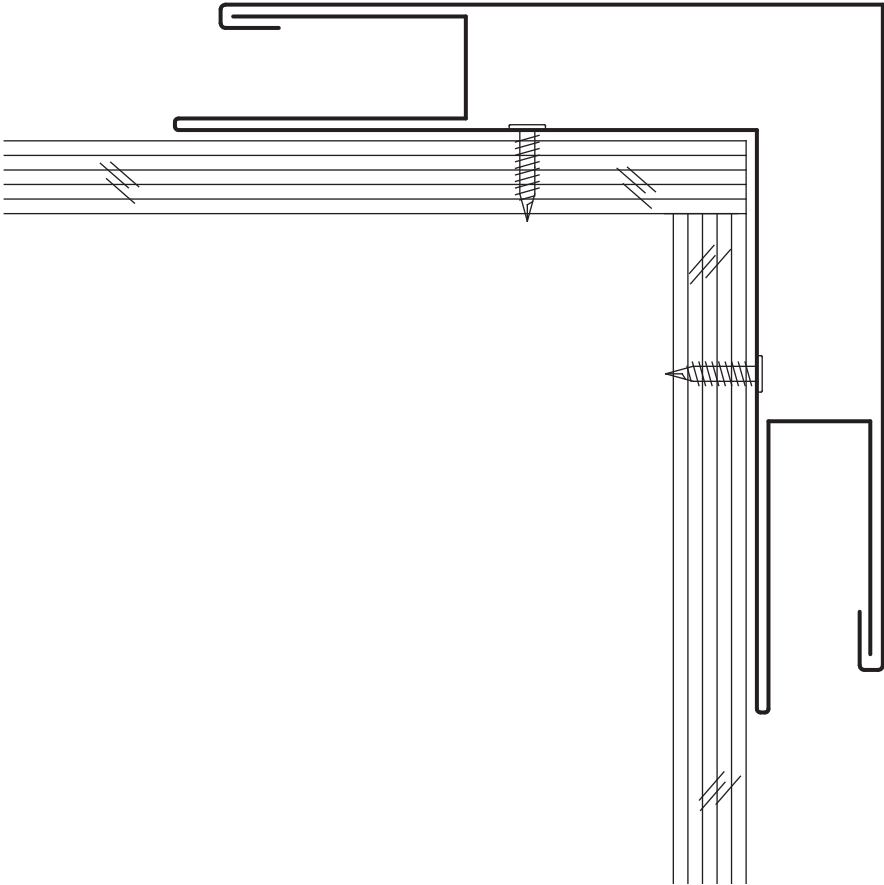
OUTSIDE CORNER - BBCO



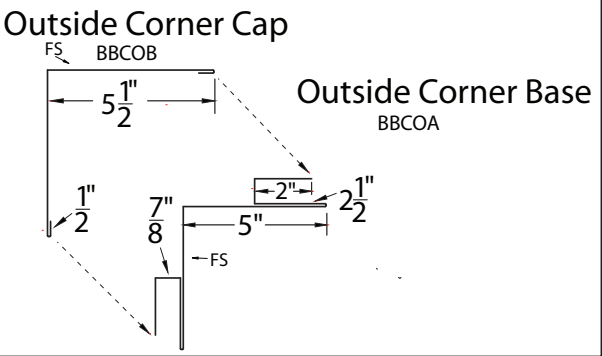
Required Trims:



OUTSIDE CORNER - BBCOA and BBCOB

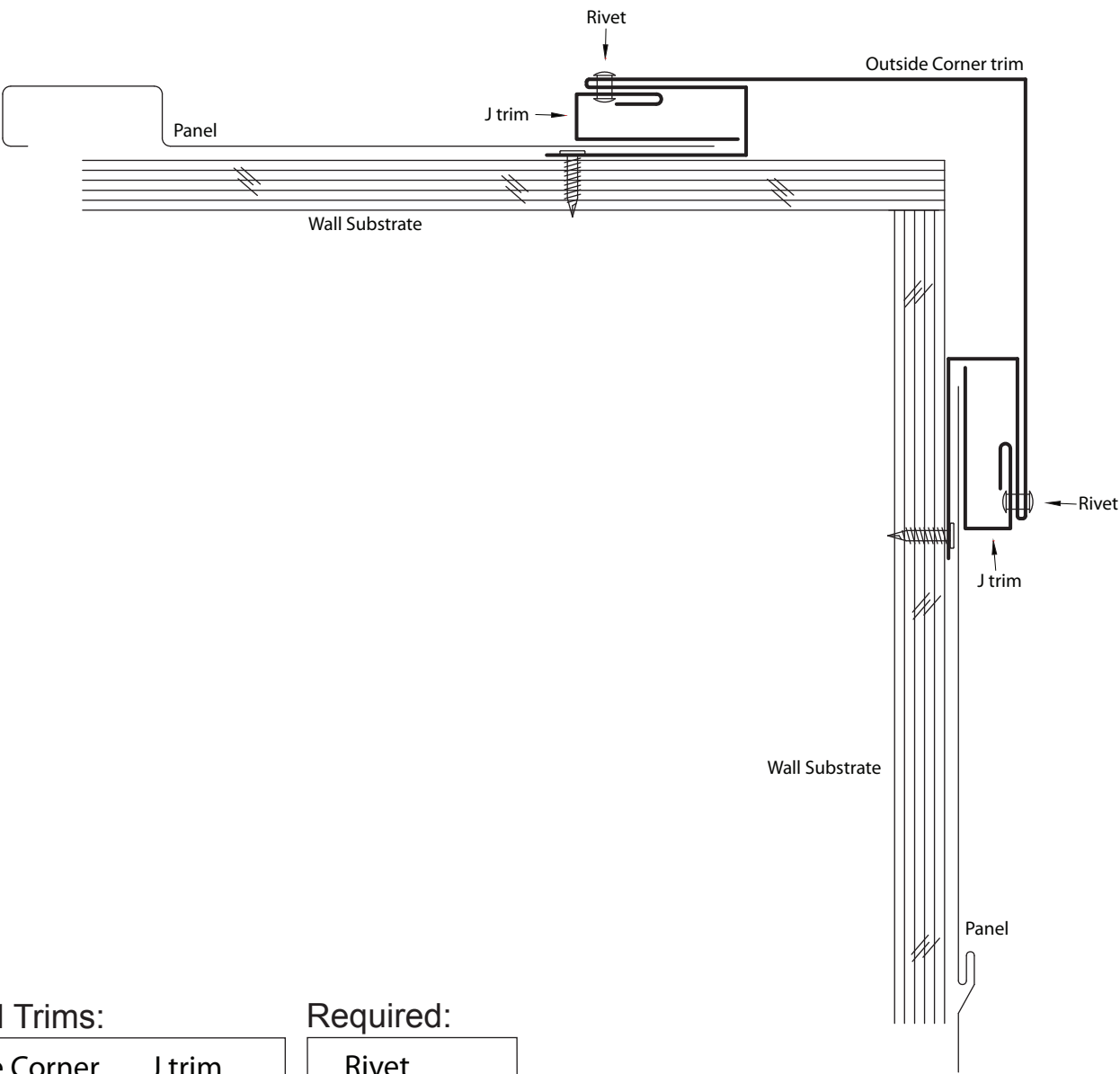


Required Trims:



OUTSIDE CORNER - BBCO Alternate Vertical Wall Edge Termination

Where a Board & Batten wall terminates in a vertical edge (wall corners, windows, doors, and other framed openings) and does not end with a Batten (see page 7) J trim can used instead of Utility trim. This method will result in a cleaner appearance, improved edge capture, and eliminates the need for Utility trim. This example shows Outside Corner trim, but it applies to all trim at vertical wall edge terminations.



Required Trims:

Outside Corner
BBCO

5 1/2"
2 1/2"
7"
8"

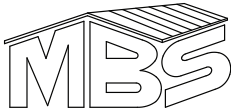
J trim
JT

2 1/8"
1"
7"

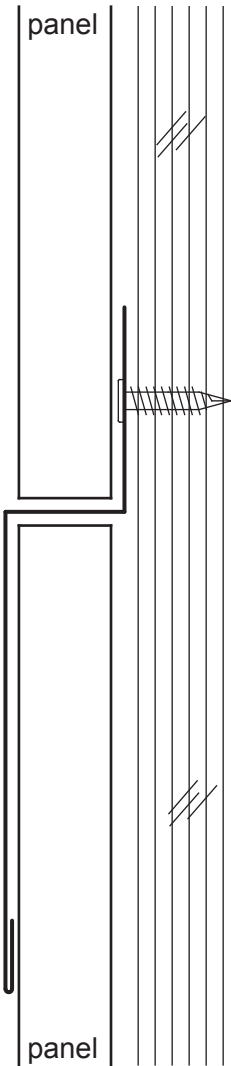
Required:

Rivet
RIVET

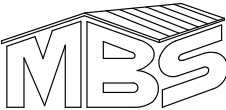
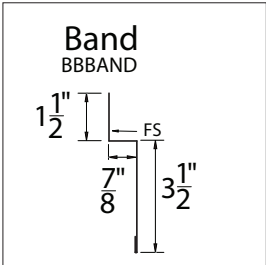
3/16" shank
color matched

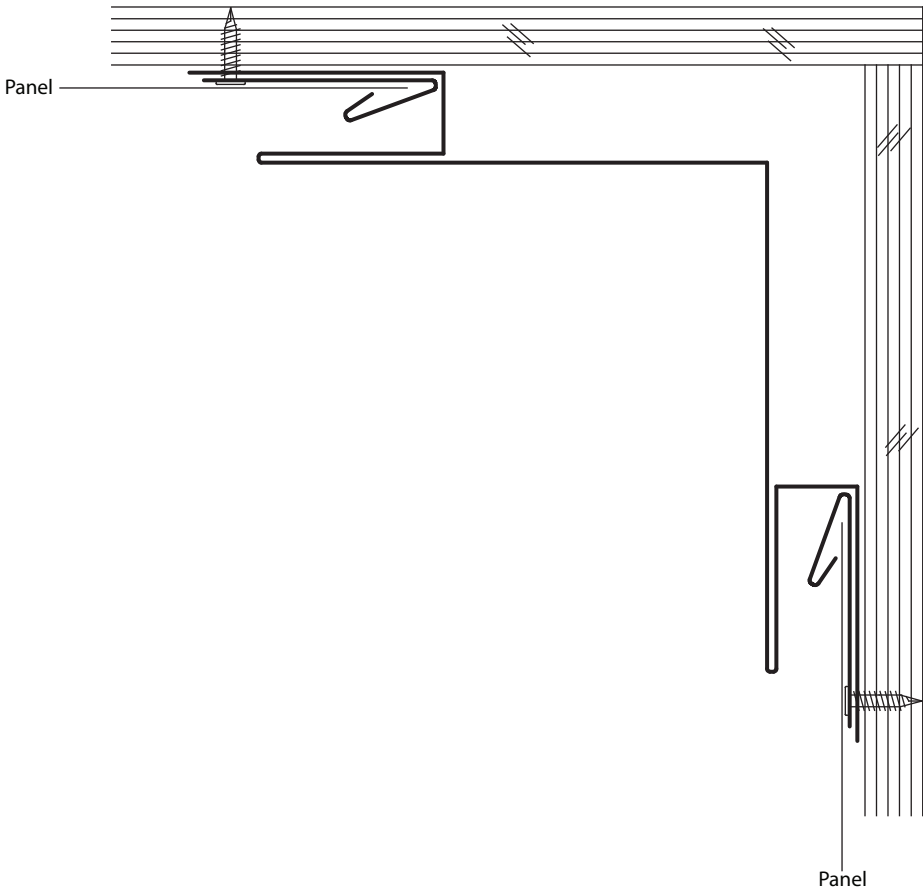


PANEL TRANSITION - BBBAND

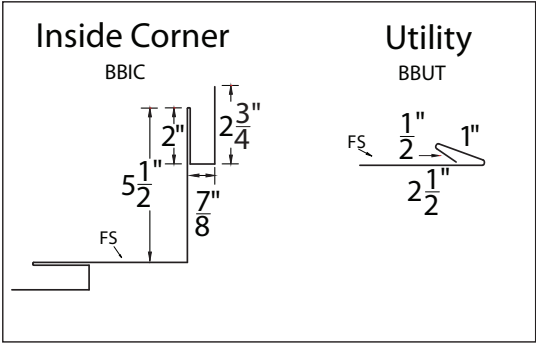


Required Trim:

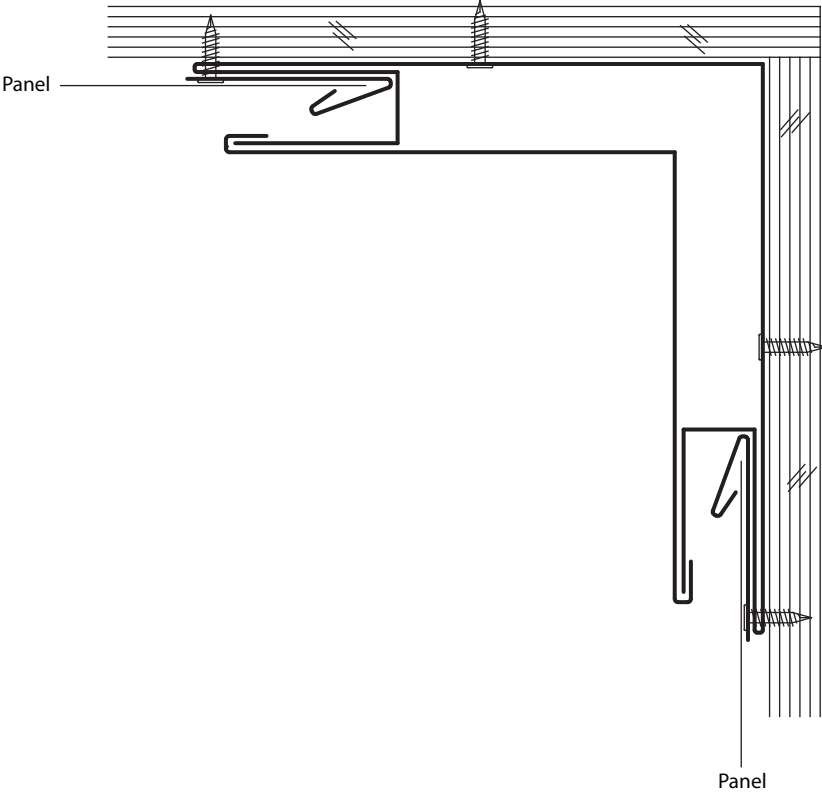




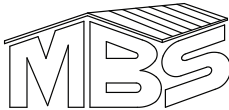
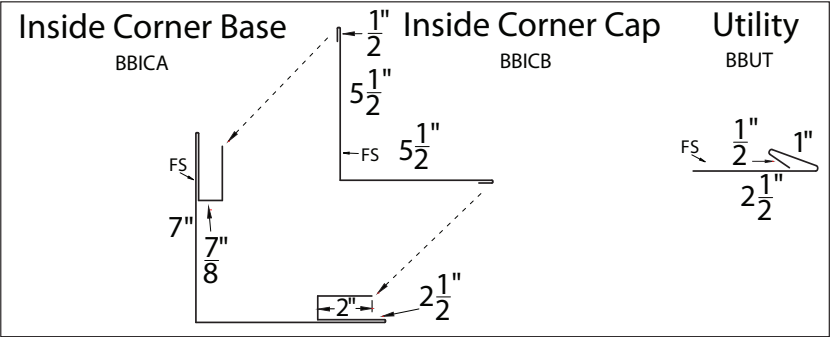
Required Trims:



INSIDE CORNER - BBICA and BBICB



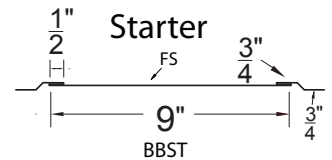
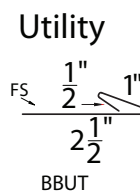
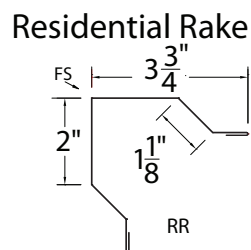
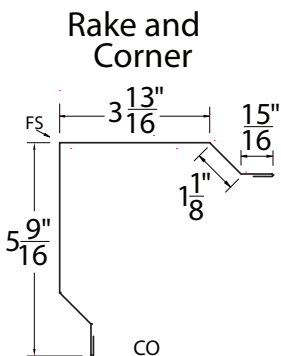
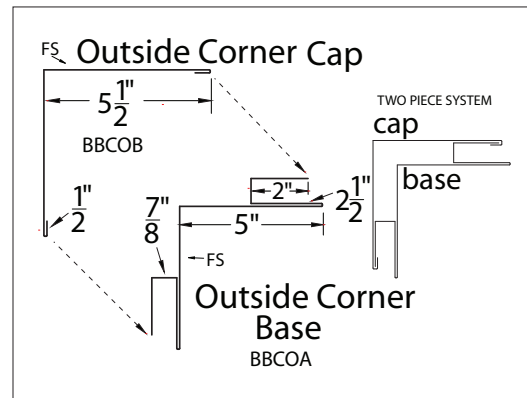
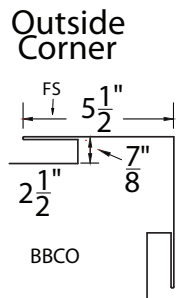
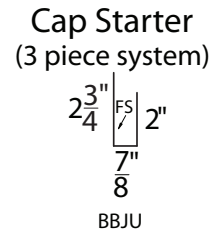
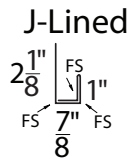
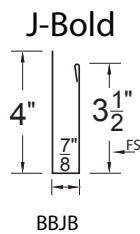
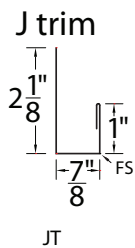
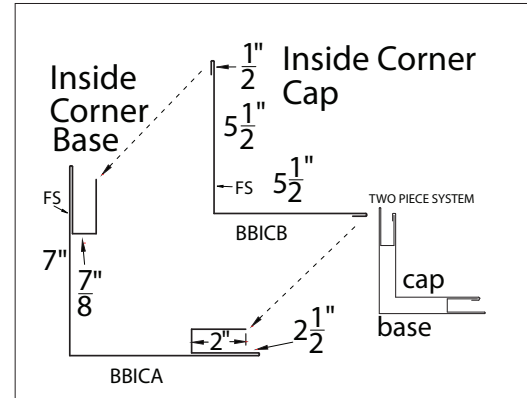
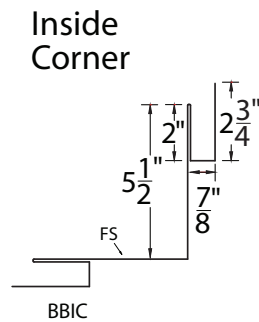
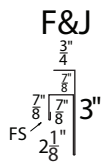
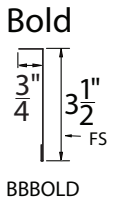
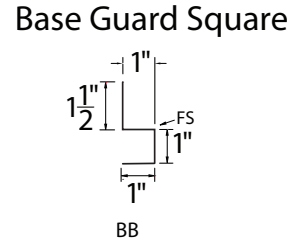
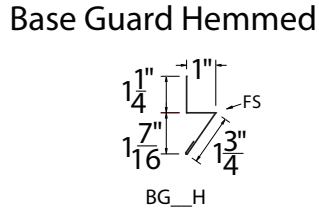
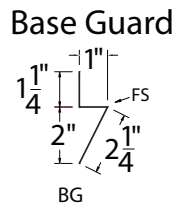
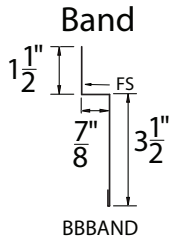
Required Trims:



ALL TRIM REFERENCE

All trim is 29ga

*FS = finished side or painted side



LABOR REIMBURSEMENT POLICY

At Metal Building Supply, Inc. we take great pride in manufacturing high-quality metal roofing and siding panels to meet your needs. We stand behind our products and are committed to addressing any defects that may arise. However, it is important that we clarify our policy regarding the installation of panels with defects.

If a panel with a defect is installed, our reimbursement policy covers the standard rate labor costs for the removal and reinstallation of up to **five (5) squares** of affected panels. Any additional labor costs incurred for the removal and reinstallation of panels beyond this coverage will be the sole responsibility of the installer or property owner.

To minimize potential issues we strongly recommend that all panels are inspected during installation. If you identify a defect, please contact us immediately so that we can provide a resolution before installation begins. Installing defective panels without prior notification may result in additional labor expense that will not be reimbursed under our policy. Defects include but are not limited to edge wave, oil canning, paint issues, scratches, square panel, etc.

We appreciate your business and your cooperation in ensuring that our products are installed to the highest standards. If you have any questions or need further clarification regarding this policy, please do not hesitate to reach out to us.

