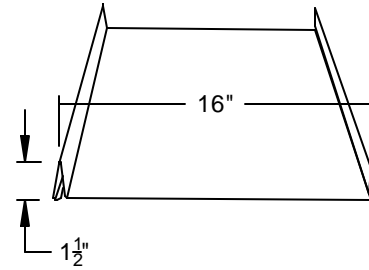




## 1 1/2" SSR

Detail Manual and  
Estimate Guide



### PROPER STORAGE

When moisture remains in contact with Galvanized panels in the absence of freely circulating air, white, black, or gray corrosion begin to form. Moisture can get between stacked panels either through capillary action or atmospheric humidity. If moisture becomes entrapped between the sheets, this condition can result in water stains or white rust, which can affect the service life of the metal and will detract from its appearance. If the metal panels will not be installed immediately, store them in a well-ventilated, dry area to minimize exposure to moisture. Use wood blocking to elevate the panels at least 1 foot off the ground in an inclined position. This will allow circulation of air between the panels and provide drainage. If outdoor storage cannot be avoided, protect the metal with a breathable canvas or waterproof paper cover. Leave the bottom of the cover loose to allow air circulation between the sheets. **Do NOT use plastic which causes sweating or condensation.**

### PROPER HANDLING

Panel crates must be lifted at bundle block locations. Center the load on lifting device and do NOT unload in jerking or bouncing fashion. This may cause package to slide on forks and damage panels.

Do NOT lift materials with ropes or wires.

Do NOT lift panels greater than 25'-0" long without a spreader bar.

Do NOT lift panels from ends while flat. Lift panels on edge when moving individual panels or when moving onto the roof.

Panels should be lifted and carried on edge with one worker for each 10'-0" of panel.

Carry on edge  
as shown



**NOTE:** Before installation, **remove the clear strippable film** that is applied to the painted side of the overlap leg. This film is for transportation protection only, and if left on, will be baked onto the paint finish by the sun.

**FABRAL—The pursuit of excellence since 1967**

\*\* Due to product improvements, changes and other factors, Fabral reserves the right to change or delete information herein without prior notice or obligation to make changes in products previously purchased.



**Profile Availability:**

Galvanized Steel

Weight = 151.6 lbs./sq.

Super Alurite® 2000 Plus Paint Finish

Colors Available: White, Evergreen, Charcoal, Brick Red, Hickory Moss,

Antique Bronze, Classic Burgundy, Caribbean Blue & Acrylic Coated Galvalume

Minimum Slope: 1" in 12"

(All panels are Factory Caulked, unless otherwise specified)

Lengths: Minimum 7' - Maximum 47'-6"

Panel does NOT endlap-contact FABRAL about long length roof runs

The information in this booklet has been prepared to assist the designer and installer with the proper application of FABRAL's 1-1/2" SSR roof system. Since each project is unique, the information is intended to be used as a guideline and in no way insures proper application of the 1-1/2" SSR.

**PRE-Installation:**

Note 1: Lead and copper flashings from existing chimneys, skylights, endwalls and other areas must be removed prior to installation of the new galvanized 1-1/2" SSR. Lead and copper are corrosive when used with galvanized steel.

Note 2: Proper design for attic ventilation for the particular building is the responsibility of the designer, engineer or homeowner, and should comply with local codes. Ventilation design is not the responsibility of FABRAL. With any metal roof system vented soffits, gable vents, and/or ridge vents can be used as part of the overall design.

Note 3: All panels are factory caulked with a 1/8" bead of butyl sealant in the overlapping rib. This caulking may not be visible within 6" of the end of the panels, but can be found inside the overlap rib. Smearred caulking can be removed from the roof with mineral spirits and a soft cloth.

**Installation:**

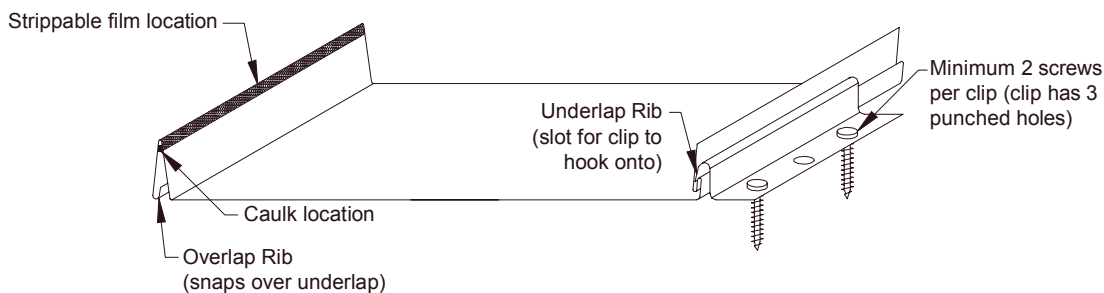
1. Check the support system or roof deck to be sure all supports are installed straight, square and in plane.  
Typically a minimum 5/8" plywood or 2x4 purlins/furring is used as support for the 1-1/2" SSR metal roof system. 7/16 OSB or wafer board decking is NOT recommended due to poor screw attachment values. (Refer to load tables on page 3).
2. Install specified underlayment (such as a minimum 30# felt, Roofguard and/or "Ice and Water Shield").
3. Install the eave trim. As shown in detail.
4. Notch eave of panel 1" and bend the hem under by using the hem-bending tool. Snip off underlap rib flush with the hem edge of the panel pan. Trim and fold overlap rib of panel to provide a clean closed panel rib appearance. Use Sikaflex sealant on this portion of the rib to provide a weather tight seal. REMOVE the clear strippable film on the painted side of the overlap rib before installing!
5. Starting at the gable end, install the first 1-1/2" SSR panel parallel to the gable with the overlap edge along the gable. Apply tape caulk and place sliding gable cleat over overlap edge and screw down the gable cleat.
6. Install the 1-1/2" SSR clips at the required spacing along the lengths of the panel, using two (2) #10x1" Pancake woodgrip screws in each clip. Clips should be spaced a maximum of 24" c/c apart, and may require closer spacing over solid decking. (Refer to load table on page 3).
7. Position the next panel over the under-lap leg. Engage 6" to 12" of the overlapping rib and slide the panel open hem over the nose of the eave flashing. Starting at the eave, apply pressure to the overlap rib until it locks into position. Apply continuous pressure on overlap rib so as to snap it down over the under-lap rib. Do this the entire slope along the length of the panel.

NOTE: On steep pitches it may be necessary to put 1 or 2 fasteners through the pan of the panel, at the top of the panel (ridge/hip/endwall) to prevent the panels from sliding down the roof. Make sure these fasteners are above the area where the top metal Z closure will be placed so they are hidden when finished.

8. Slide panel open hem over the nose of the eave flashing and continue the above procedure across length of the roof.
9. To finish the ridge, first install the top metal Z closures. All closures should be set in sealant, on the pan of the panel to insure proper weather tightness. (Once closures are set, install 3 #14x1" MP screws to fasten through the closure and through the panel, into the decking or purlin. **This is critical; these screws hold the panel in place from sliding off of the roof.**) Sikaflex sealant is required to be applied behind all closures, up the rib edges, and butyl sealant applied on top of the metal closures, prior to installing the ridge cap flashing or Coravent ridge vent.
10. Follow similar procedures for completing gable, hip and valley conditions.
11. Prior to the end of each workday, all panels and trim should be adequately fastened to prevent any damage due to wind uplift or gravity. See #7 "Note" about securing panel ends at the ridge/hip/endwall.
12. All flashings should be lapped 4" to 6", sealed with sealant, and stitched together with screws 4" o/c. Flashings should be held in place with continuous cleats or fasteners 16" o/c.

NOTE: Oil-canning can be induced by a variety of conditions, including construction misalignments and is NOT cause for rejection of material.

INSTALLATION TIP: Even pressure should be applied to the overlap rib to provide a "zip-up" type application when snapping the panels together. This assures that the panel will not kink along the rib as the entire length is being snapped together. Caulking in the rib will not allow moving the panel once it is snapped in place. The hem at the eave should be secured in place prior to locking the panels together.



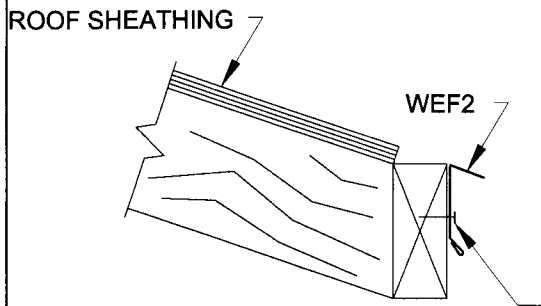
FABRAL recommends spacing the clips 24" apart (maximum) or closer (depending on wind load or bearing design requirements)

ALLOWABLE UPLIFT (PSF) - 24 GA STEEL  
Purlin Or Nailer Spacing (Inches)(L)

Substrate	Spans		9"	12"	15"	18"	21"	24"
2x4 SPF	3 OR MORE	Load (lb/sq ft)	273	205	164	136	117	102
1/2" plywood	3 OR MORE	Load (lb/sq ft)	75	56	45	37	32	28
7/16" OSB	3 OR MORE	Load (lb/sq ft)	57	42	34	28	24	21

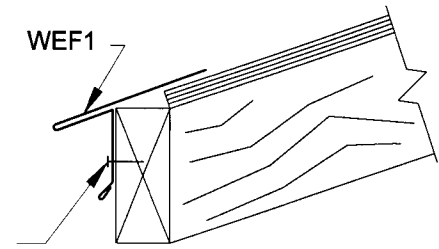
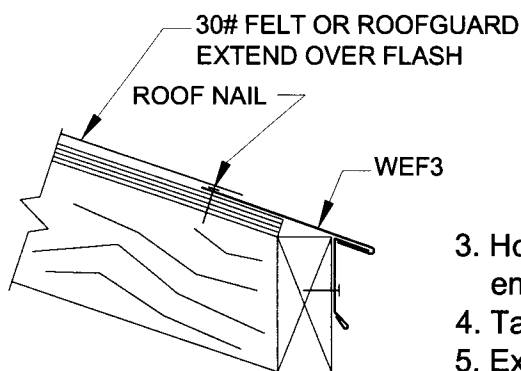
ALLOWABLE LIVE LOAD (PSF) - 24 GA STEEL  
Purlin Or Nailer Spacing (inches)

Spans		12"	18"	24"
3 OR MORE	Load (lb/sq ft)	466	207	116

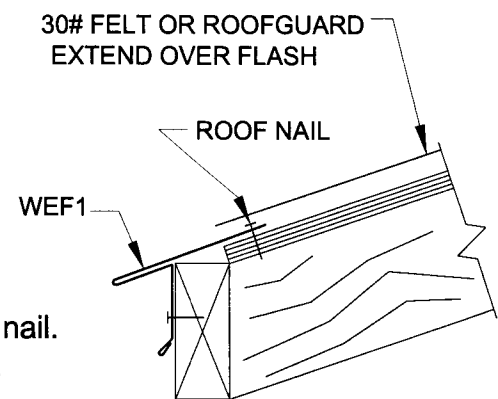
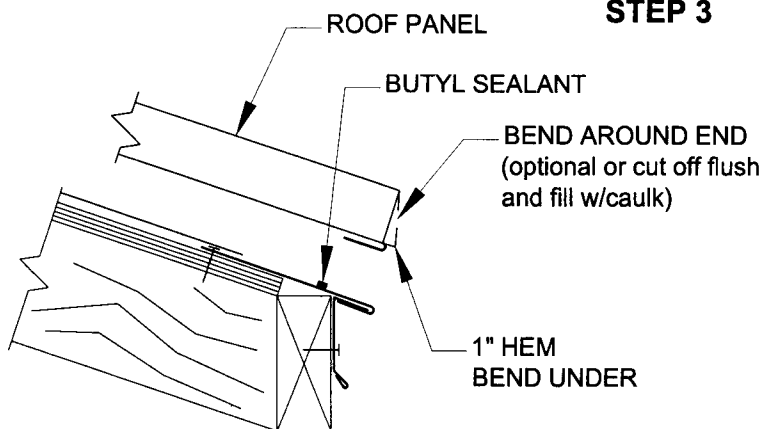
**EAVE DETAIL****STEP 1****ONE-PIECE EAVE TRIM****TWO-PIECE EAVE TRIM**

1. Line WEF2 or WEF1 top in line with plywood/purlin.
2. Screw at 16" o.c. across face of trim.

#10 x 1" PAINTED  
OR  
#14 x 1" PAINTED

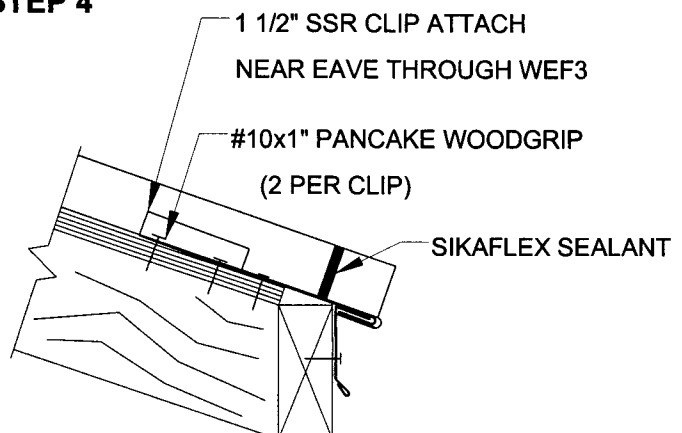
**STEP 2**

3. Hook WEF3 over hem entire length.
4. Tack in place with roofing nail.
5. Extend felt over eave trim.

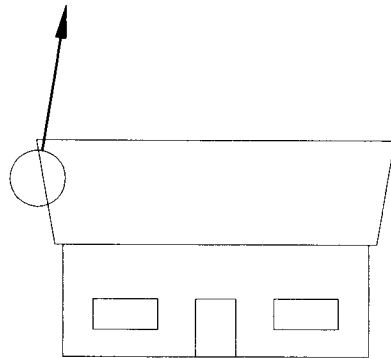
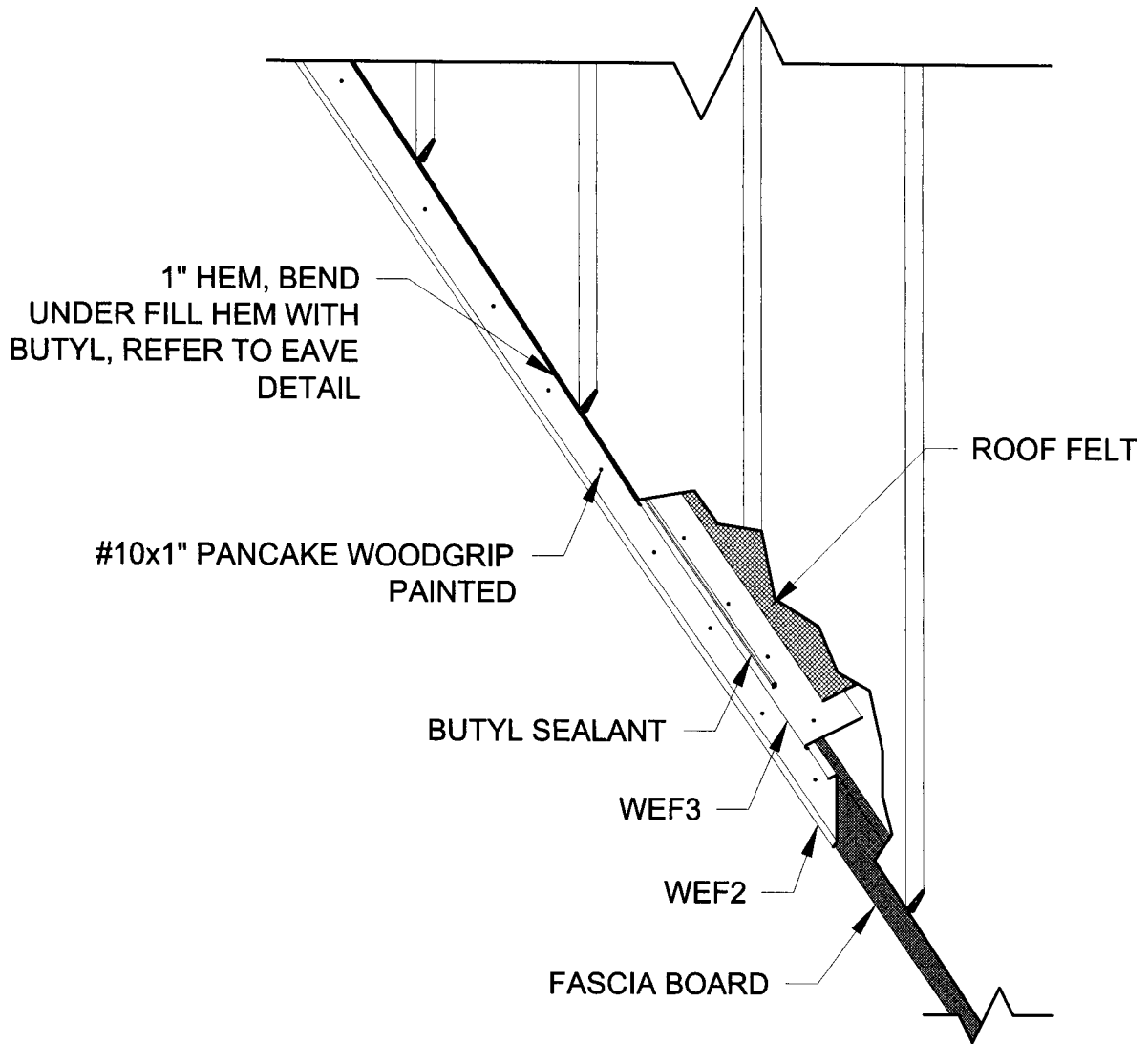
**STEP 3**

6. Mark 1" in pan of panel and cut beside each rib with a tin snips.
7. Use bending tool to bend hem under the panel.
8. Cut underlap leg off completely for 1".
9. Cut overlap leg as shown on angle.
10. Bend around end after panel is installed.

11. Caulk with Sikaflex up underlap leg.
12. Slide panel over eave hem. Snap first 2" to 3" of panel together and then slide panel tight (in warm weather) or with gap (in cold weather) over eave hem.
13. Snap remainder of panel down into place.
14. The eave hem can be tightened with duck-bill vise grips or hemming tool, after all panels are installed.

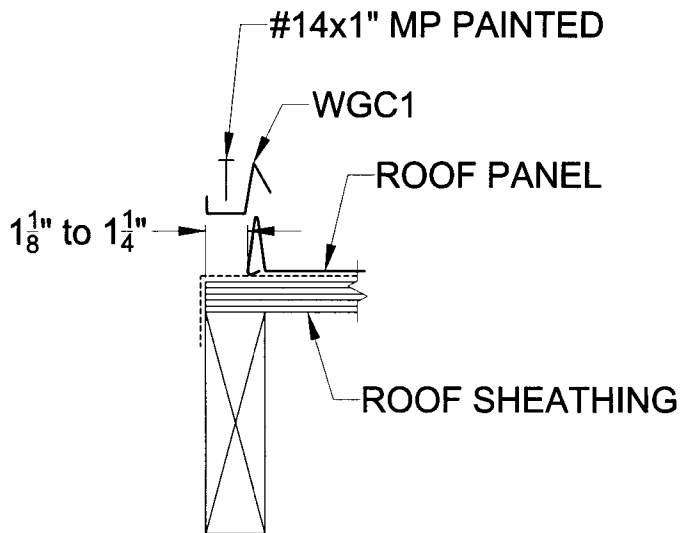
**STEP 4**

# FLYING GABLE DETAIL

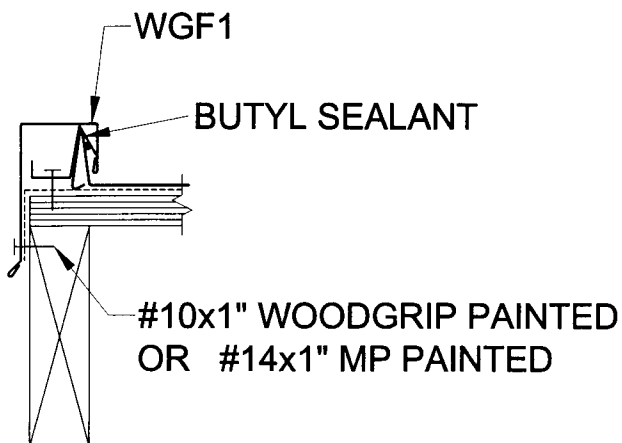


## GABLE DETAIL

### STARTING GABLE

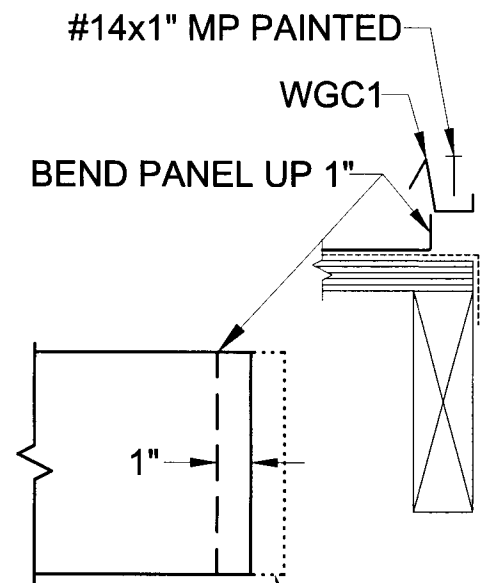


1. Align first panel square from eave to ridge and approximately  $1\frac{1}{8}$ " to  $1\frac{1}{4}$ " from gable edge.
2. Apply butyl sealant in leg of cleat.
3. Attach cleat flush along gable edge with screws every 12" o.c.
4. Refer to the following page to finish gable trim end (extend trim 2" to 3" over the eave)
5. Place gable flash over cleat and secure to gable fascia every 12" o.c. up gable edge

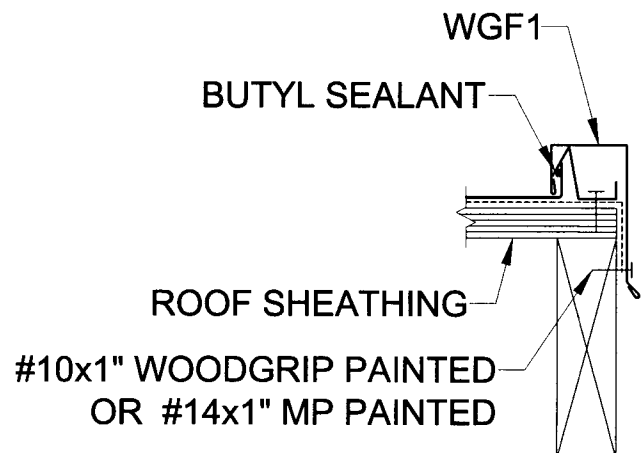


### FINISH GABLE

1. Determine final distance "Z" from last panel to the gable edge.
2. Mark and cut final panel  $\frac{1}{2}$ " in from distance "Z" entire length of panel.
3. Use bending tool and bend panel up 1" at a 90° angle.
4. Install last panel in place.
5. Apply butyl sealant in leg.
6. Install gable cleat over bent up panel edge. screw fasten cleat in place 12" o.c..
7. Finish the gable flash (following page) install over cleat and fasten 12" o.c.

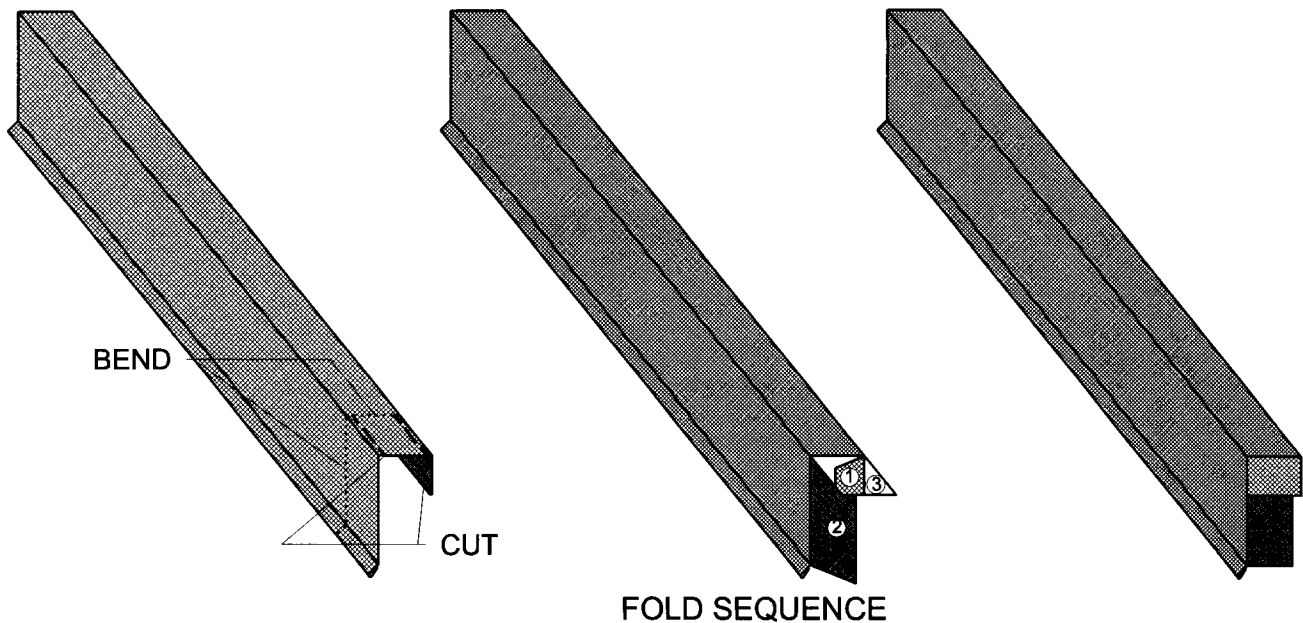


Distance "Z" is cut  $\frac{1}{2}$ " + siding thickness from final panel



## FINISHING THE GABLE TRIM

7



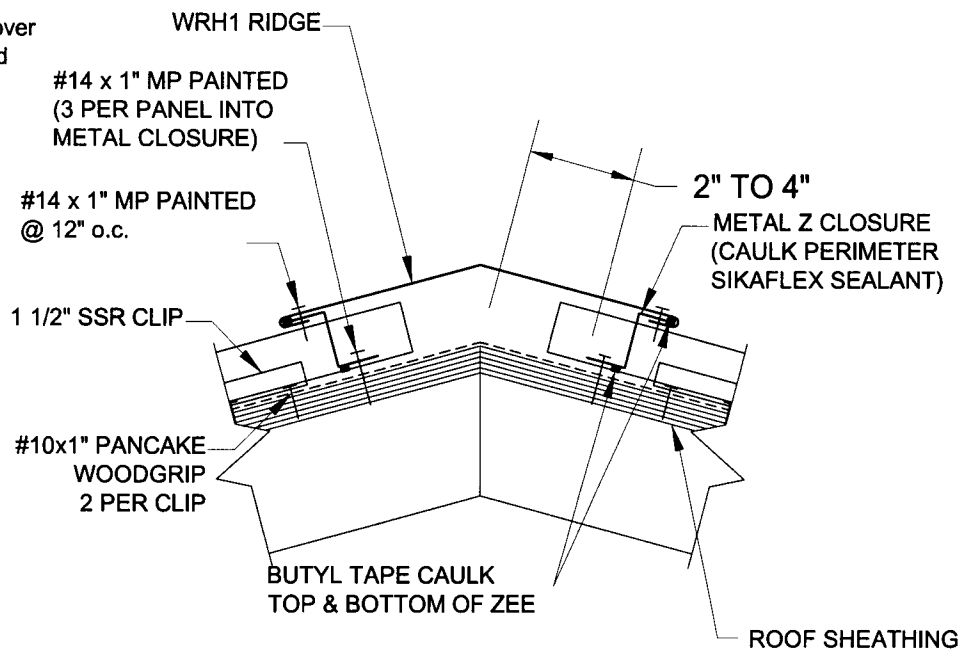
After snapping the gable flash over the cleat, pull the gable flash over the eave end fascia by 2" to 3" to finish fold. See diagram for cuts and bending locations. Always fold the sides in first and fold the top flap down last so water will run off and NOT run in.

## RIDGE / HIP DETAIL

1. Place Butyl Tape caulk in pan of panel.
2. Press Metal Zee Closure firmly into caulk bead in pan of panel.
3. Screw fasten closures into panels and purlin/deck using 3 #14 screws per closure UPSLOPE of caulk bead.
4. Use Sikaflex sealant up the back side of the vertical web of closures along the panel ribs and over top flange to seal gaps.
5. Hook ridge/hip flash open hem over Metal Zee closure top flange and secure over other side of Zee.
6. Screw one side every 12" o.c.\*

### NOTE: Important!!

The 1 1/2" SSR panel system is allowed to expand and contract from thermal differences, by the panel sliding in the clips. This makes the 1 1/2" SSR a TRUE standing seam system. **The ridge/hip must be fastened securely through the Top Metal Z Closure/WHC1, through the panel and into the roof decking/purlin with 3 #14x1" Mill Point screws per panel. If these fasteners are omitted the panels may slide off the roof after installation.** The eave is hemmed to allow the panels to move thermally at the eave without disengaging.



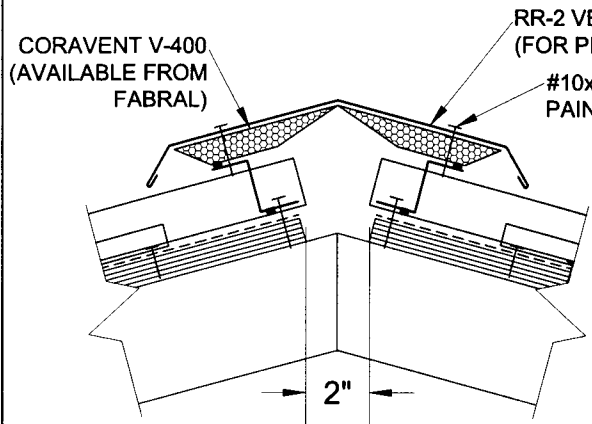
# VENTED RIDGE OPTION

## CoraVent

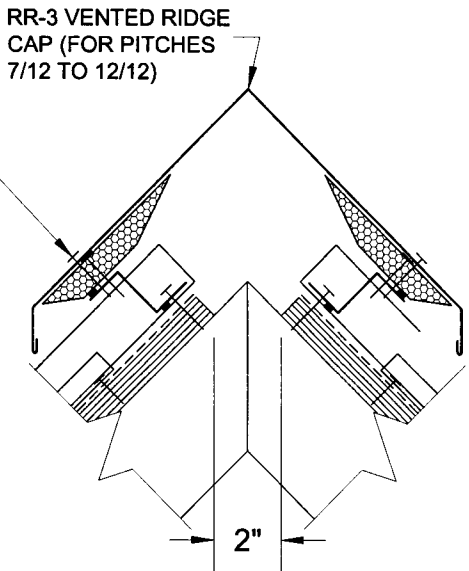
1. Place Butyl Tape caulk in pan of panel.
2. Press Metal Zee Closure firmly into caulk bead in pan of panel.
3. Screw fasten closures into panels and purlin/deck using 3 #14 screws per closure UPSLOPE of caulk bead.
4. Use Sikaflex sealant up the back side of the vertical web of closures along the panel ribs and over top flange to seal gaps.
5. Screw CoraVent to top of zee closure using #10 x 1 1/2" Woodgrip screws.
6. Screw one side every 12"o.c.\*

### NOTE: Important!!

The 1 1/2" SSR panel system is allowed to expand and contract from thermal differences, by the panel sliding in the clips. This makes the 1 1/2" SSR a TRUE standing seam system. **The ridge/hip must be fastened securely through the Top Metal Z Closure/WHC1, through the panel and into the roof decking/purlin with 3 #14x1" Mill Point screws per panel. If these fasteners are omitted the panels may slide off the roof after installation.** The eave is hemmed to allow the panels to move thermally at the eave without disengaging.

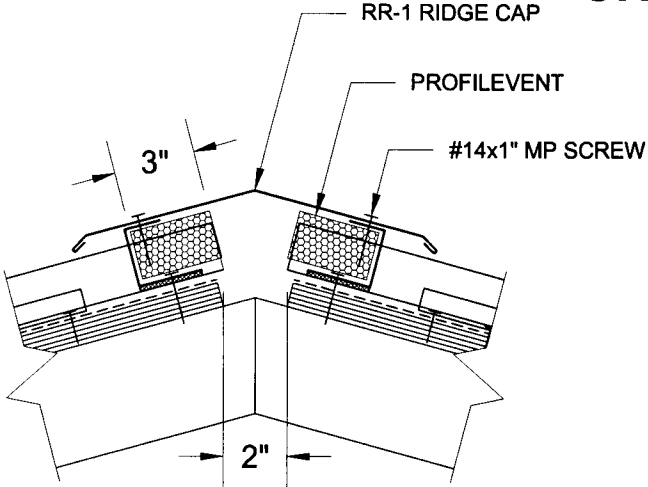


#10x1 1/2" WOODGRIP SCREWS PAINTED, BOTH SIDES



RR-3 VENTED RIDGE CAP (FOR PITCHES 7/12 TO 12/12)

OR

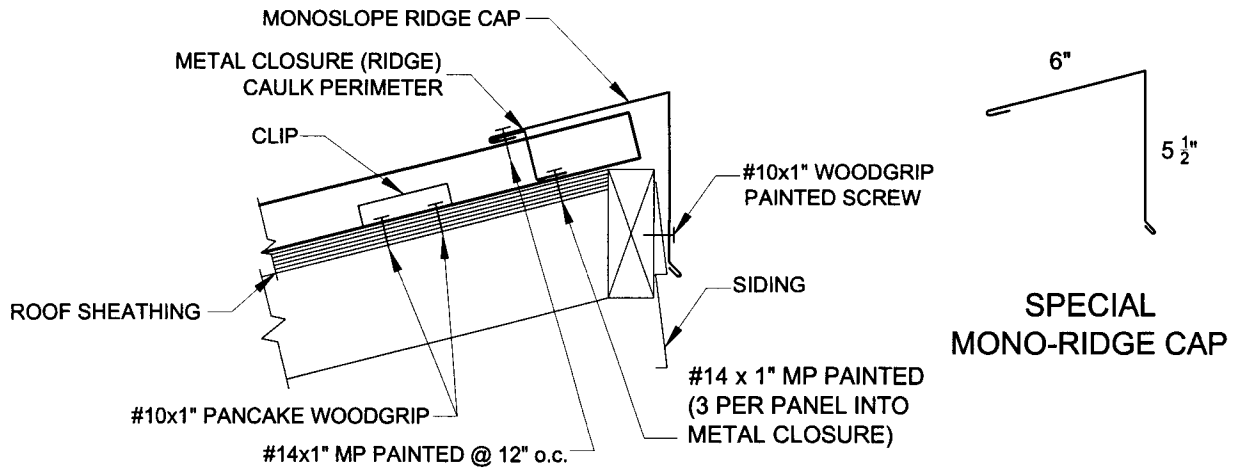


## Profile Vent

1. Place Sikaflex sealant completely around the bottom perimeter of metal J-support.
2. Place metal J-support, in pan of panel, with vertical leg approximately 3" from the top of the panel. Press J-support firmly against pan of panel.
3. Screw fasten in center of j-support, using 1 #14x1" MP screw.
4. Place 2 #14 fasteners in pan of panel, one on each side of J-support. Place fastener between J-support and side of panel.
5. Roll Profile Vent across ridge location so that the material fits in the J-support of each panel.
6. Place ridge cap on top of J-support. Fasten 1 #14x1" MP screw through ridge cap and into J-support. (Repeat at every J-support on both sides of ridge cap.)

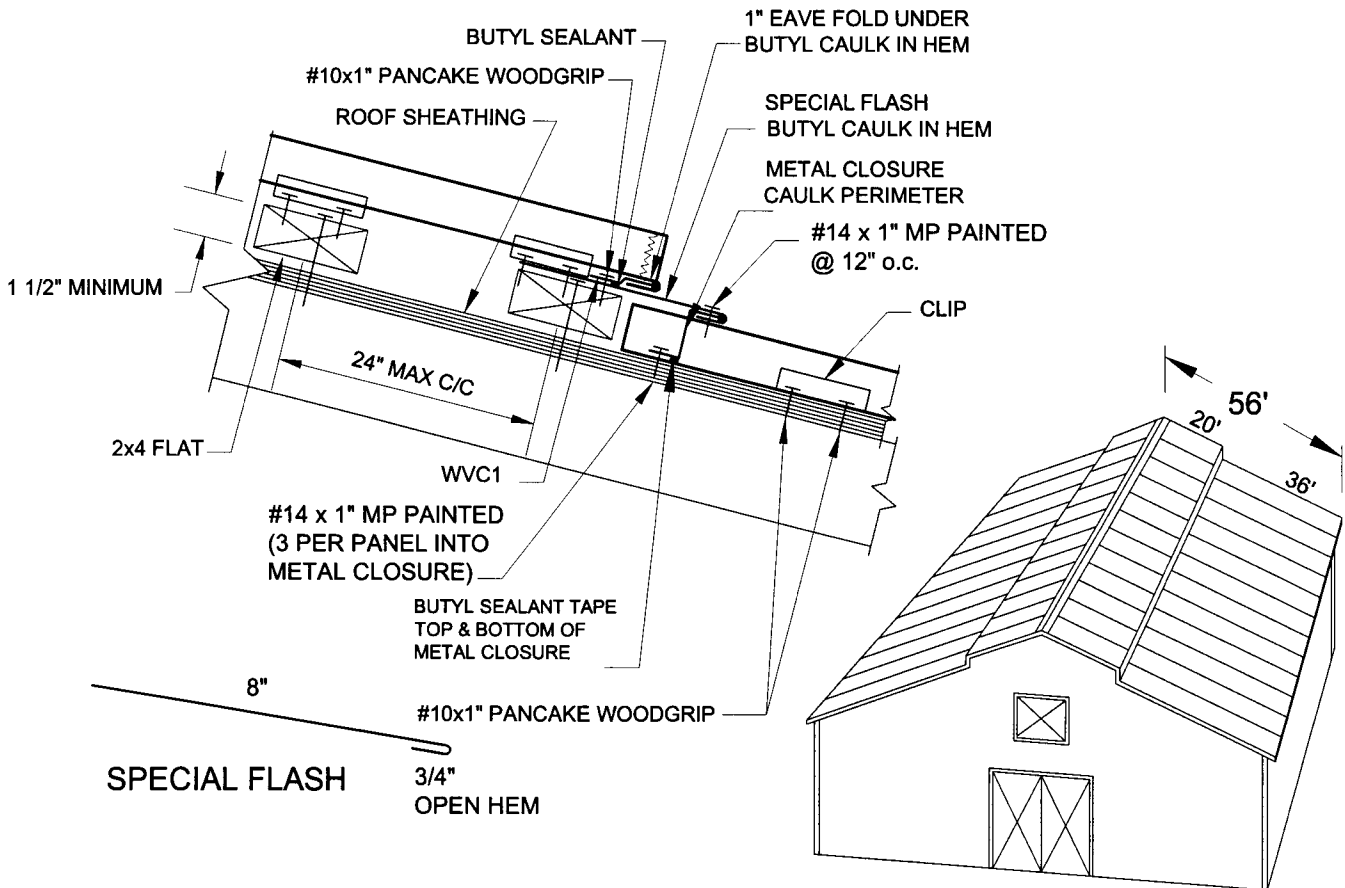
**Notes:** For vented ridge, figure 2 #10x1 1/2" woodgrip screws for every 1 foot of ridge. CoraVent may need to be cut to fit correctly. For pitches greater than 12/12, contact Fabral.

# MONOSLOPE RIDGE DETAIL



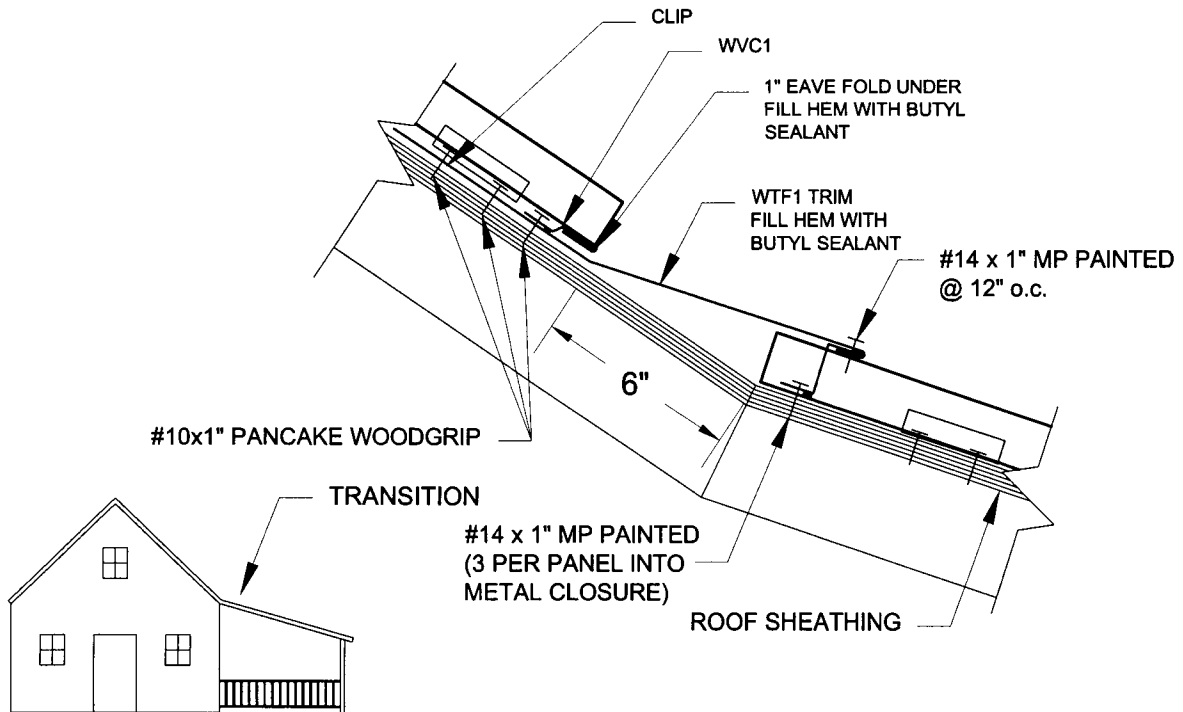
# STEP DOWN DETAIL

(FOR PANEL RUNS LONGER THAN 47'-6")

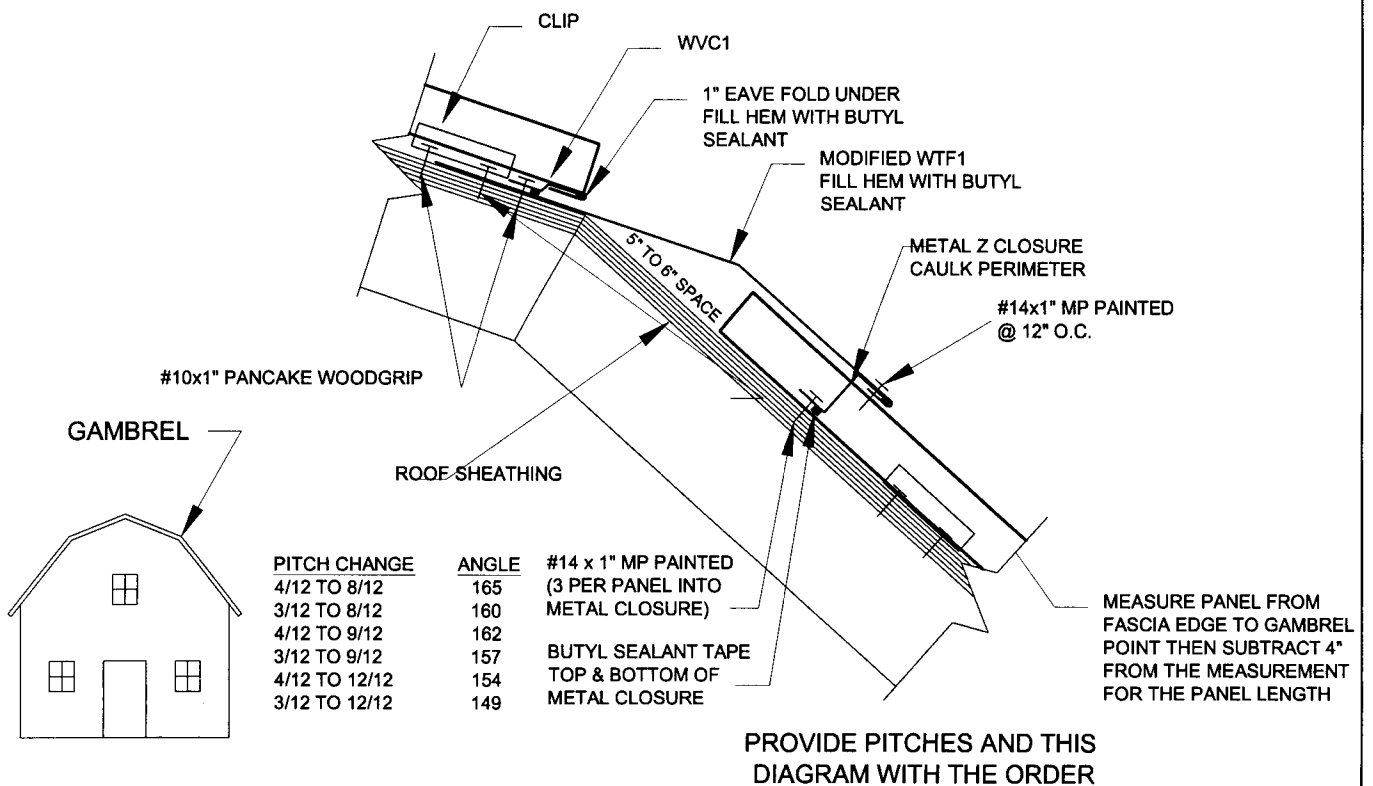


**EXAMPLE:** 56' LONG RUN FROM RIDGE TO EAVE: USE A 20' PANEL FROM RIDGE TO STEP-DOWN & A 36' PANEL FROM STEP-DOWN TO EAVE.

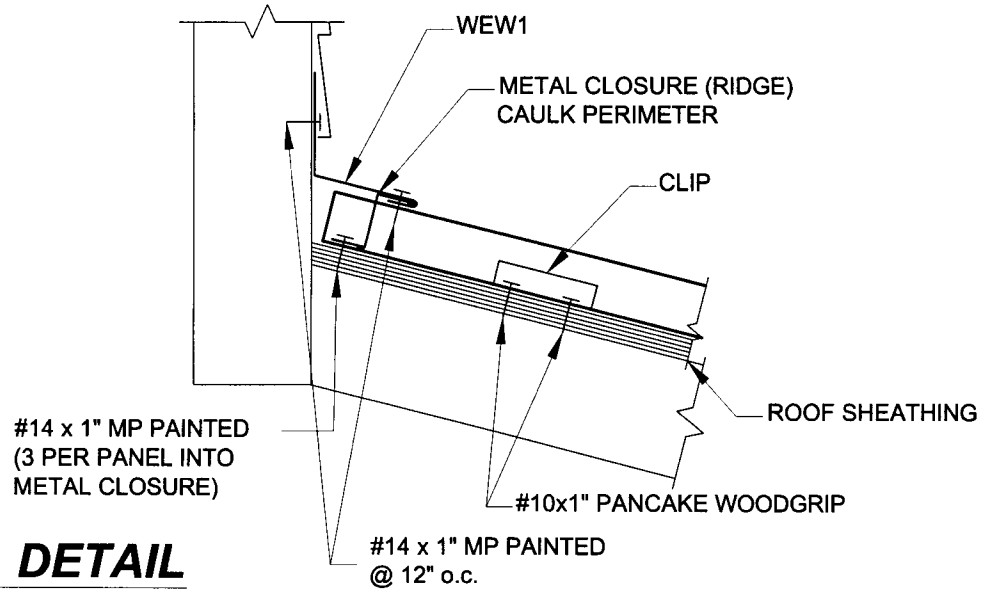
## TRANSITION DETAIL



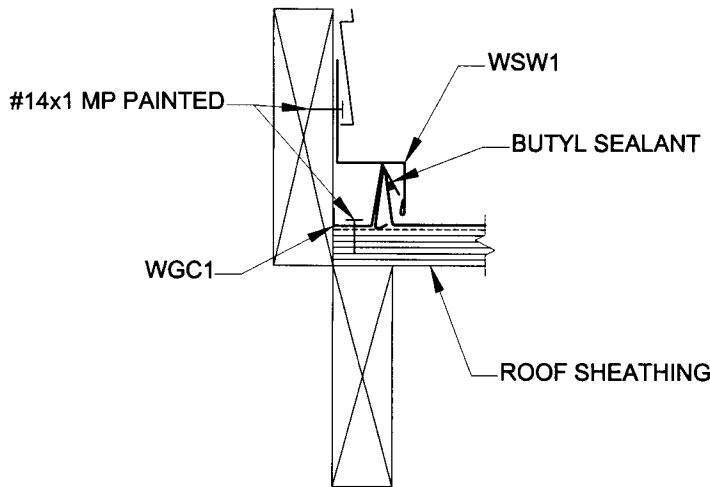
## GAMBREL DETAIL



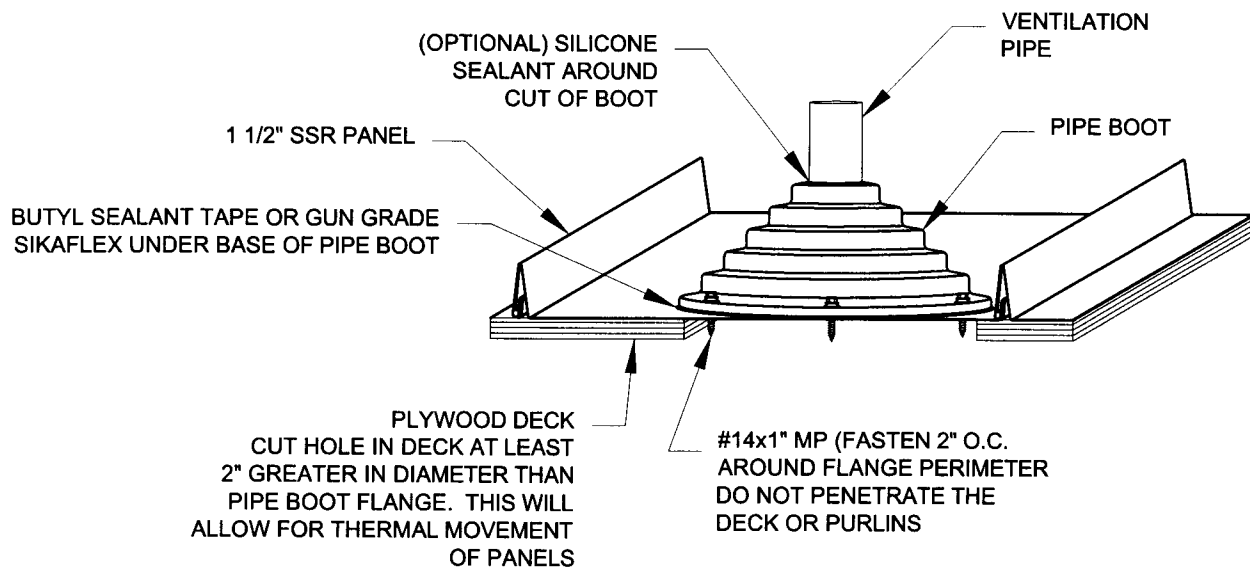
## ENDWALL DETAIL



## SIDEWALL DETAIL

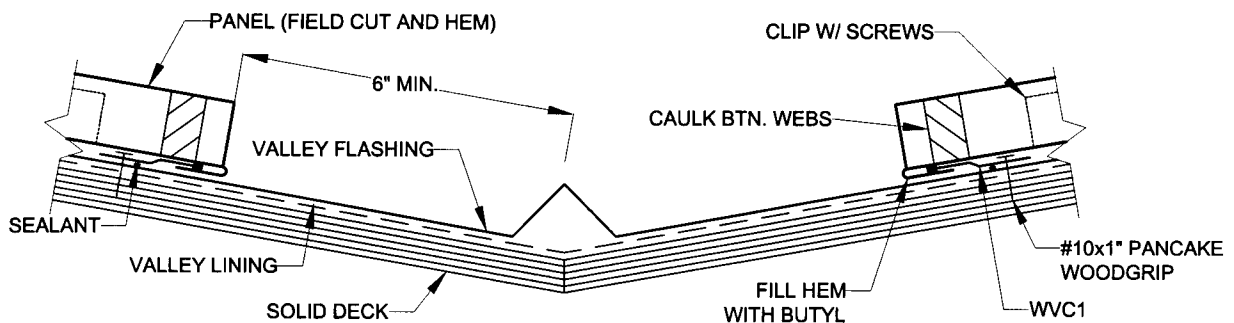
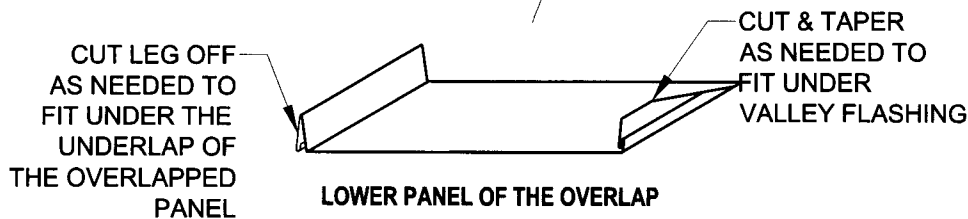
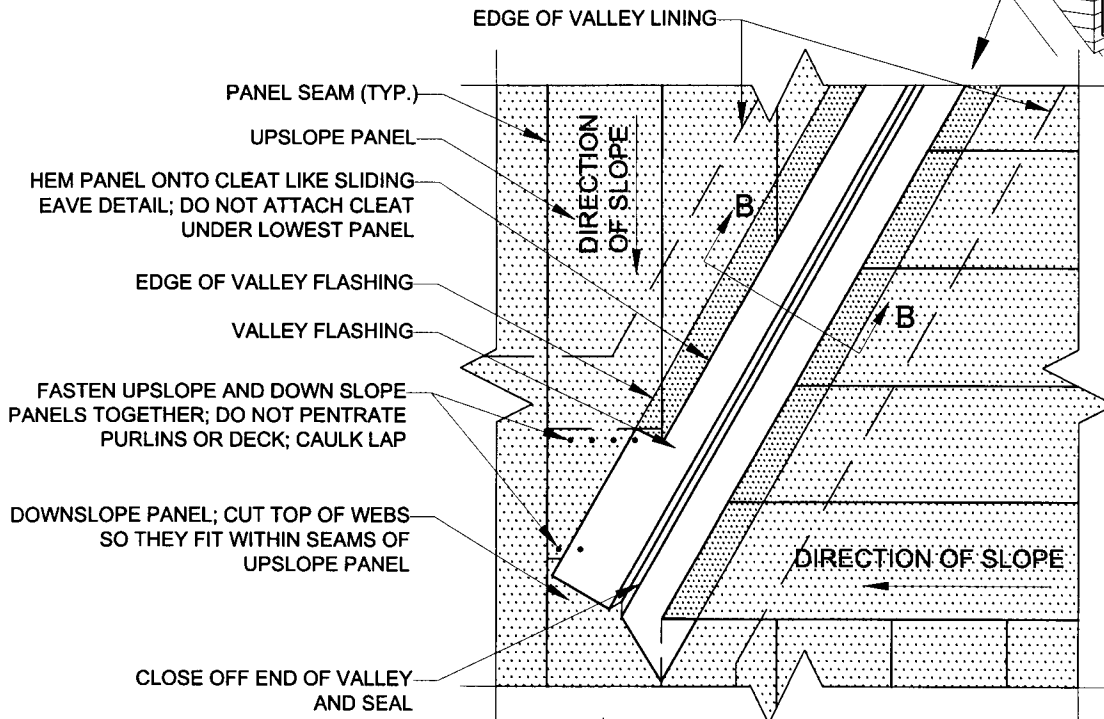


## PIPE PENETRATION DETAIL



# DORMER & VALLEY DETAIL

## PLAN VIEW OF SIDE OF DORMER

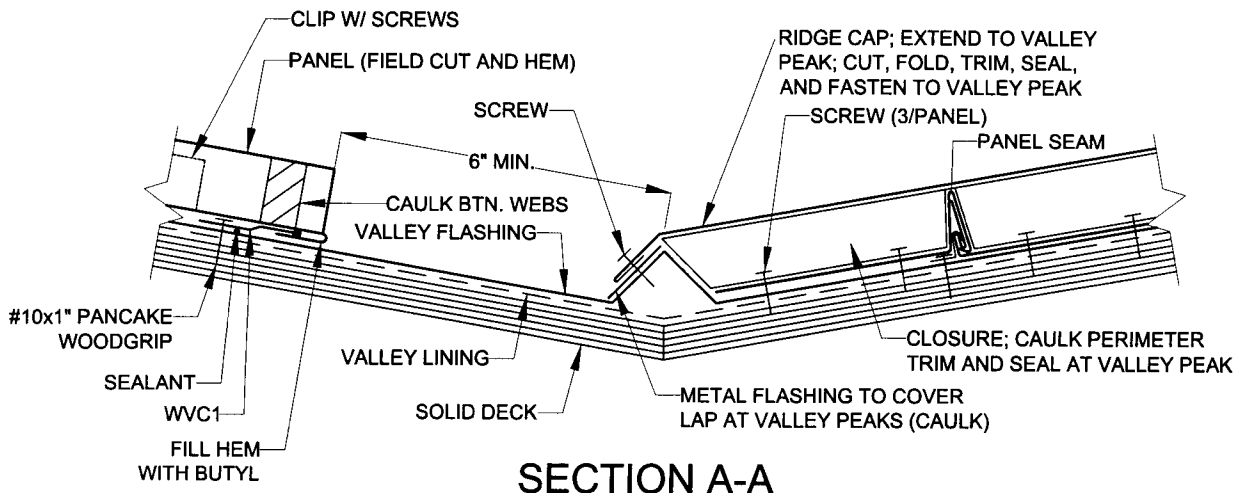
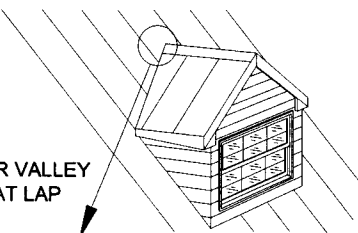
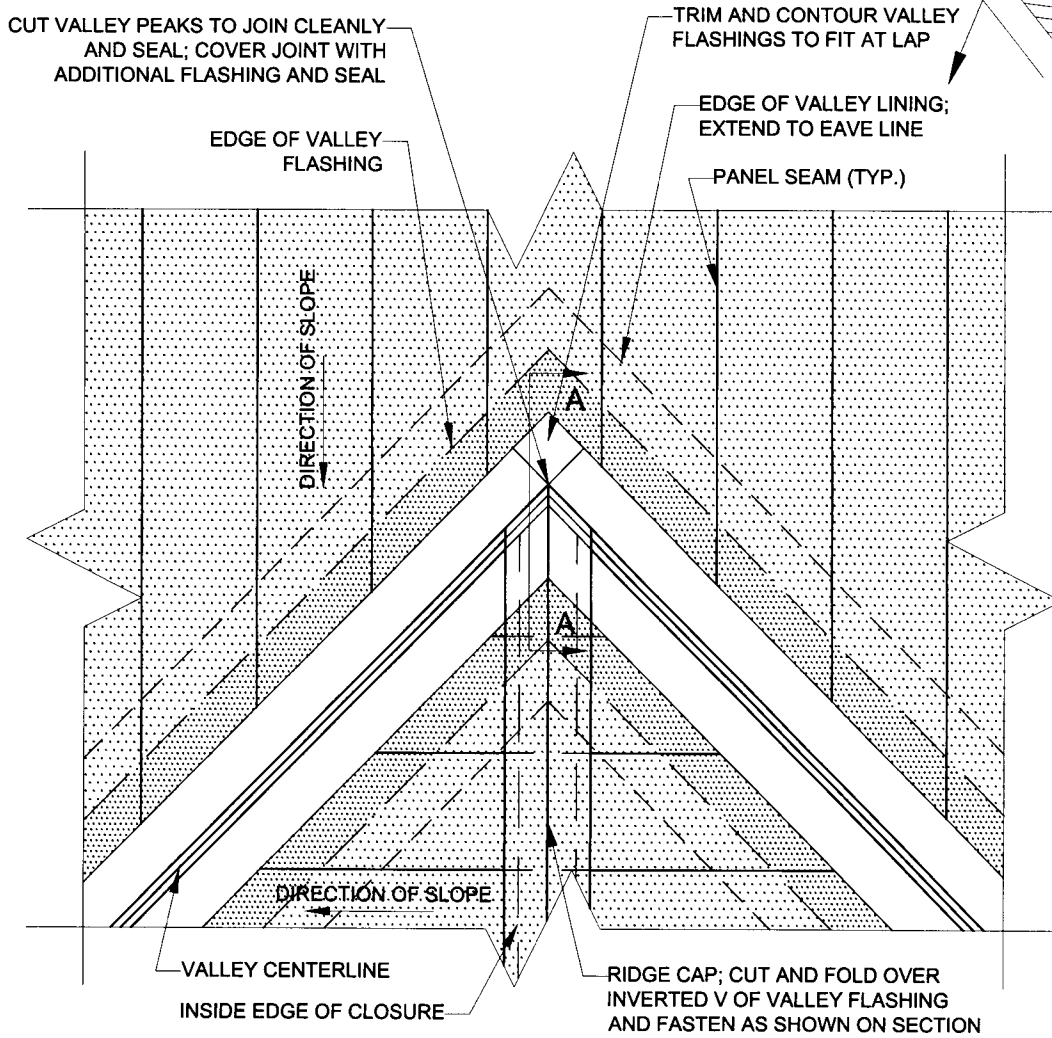


## SECTION B-B

SOLID SUPPORT IS REQUIRED UNDER THE VALLEY. EPDM LINING IS REQUIRED UNDER LAPPED PANELS AND VALLEY FLASHING. MUST REFER TO FABRAL'S EAVE AND VALLEY DETAILS TO COMPLETE THE ABOVE CONDITION.

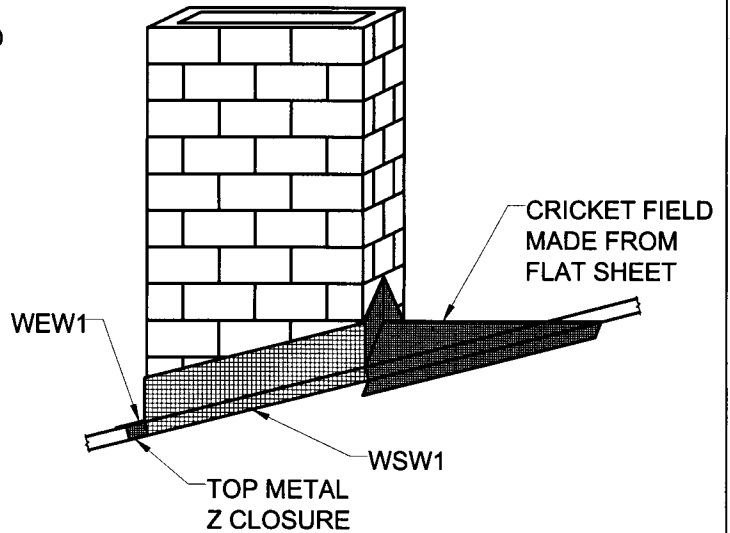
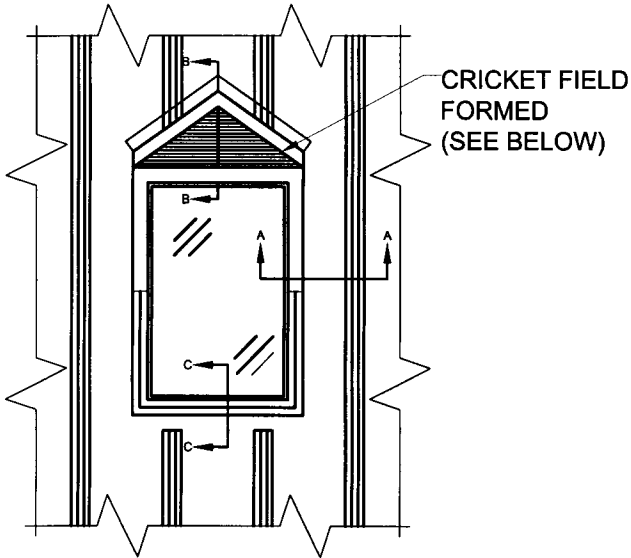
# VALLEY MEETS RIDGE DETAIL

## PLAN VIEW OF TOP OF DORMER





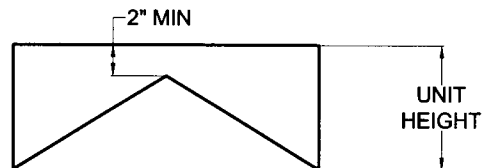
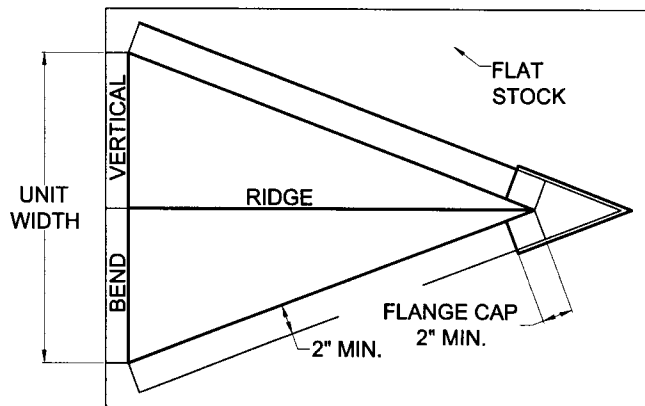
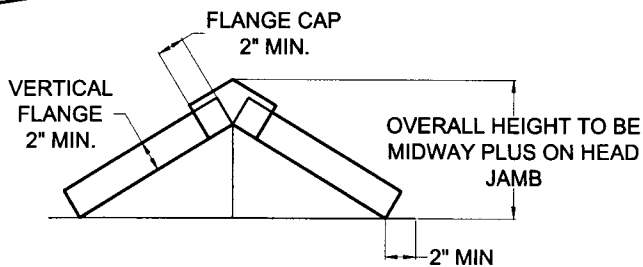
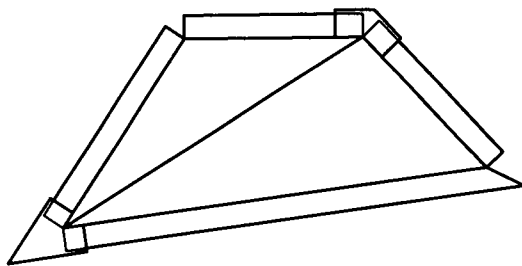
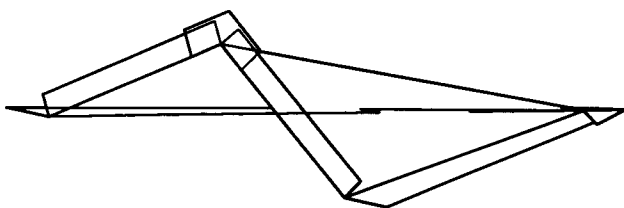
## SKYLIGHT AND CHIMNEY DETAIL



**NOTE:** SEE THE FOLLOWING PAGES FOR CROSS SECTIONS

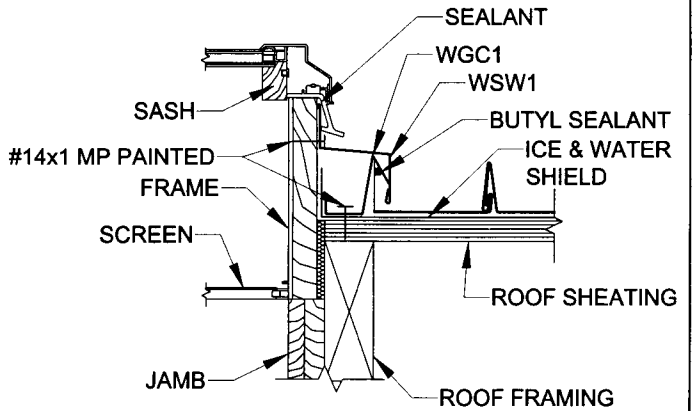
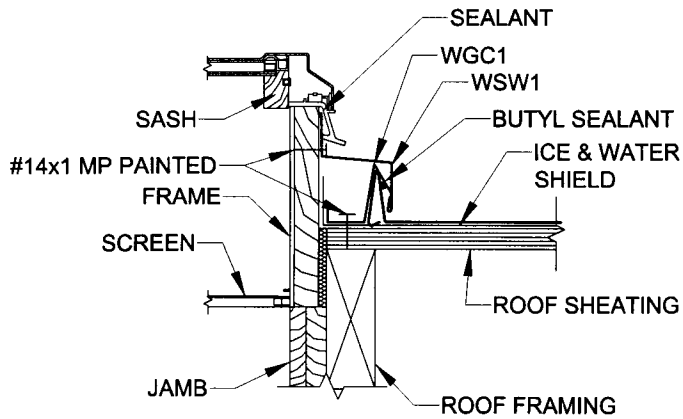
A flexible/formable rubber material, similar to the pipe boots, can be used in place of flashings to outline the entire area around any penetrations. Rubber strips are **NOT** provided by Fabral.

## CRICKET DETAIL

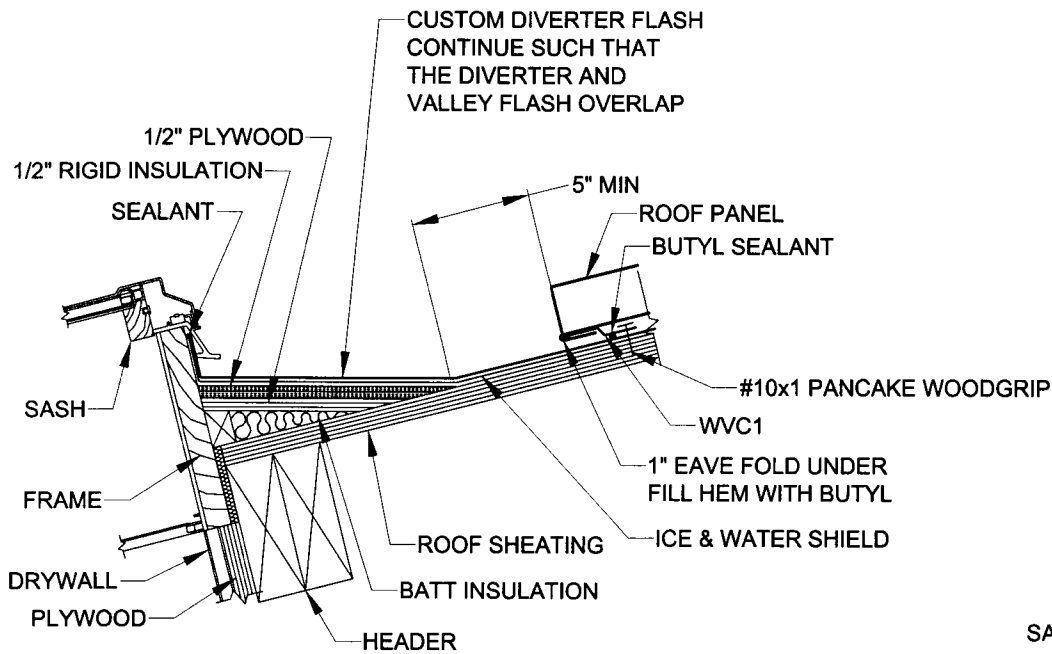




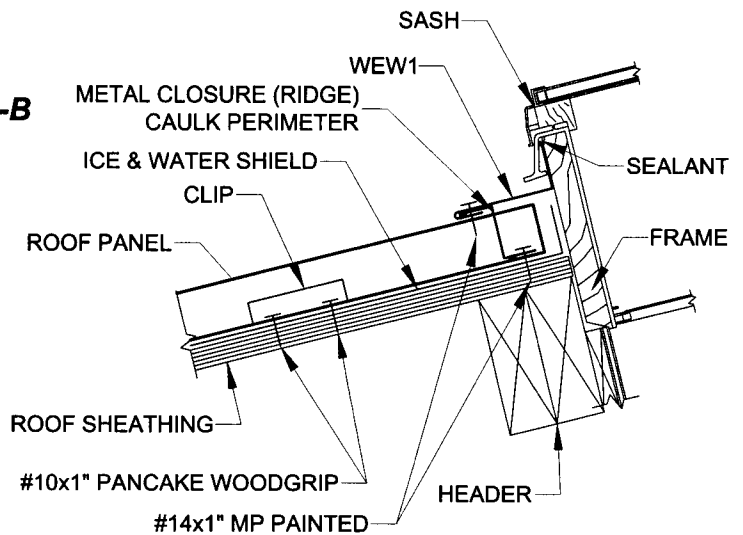
# SKYLIGHT CROSS SECTIONS



**SECTION A-A**



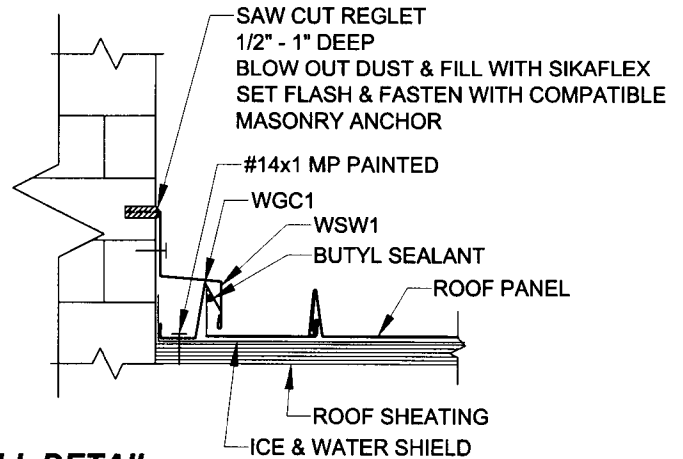
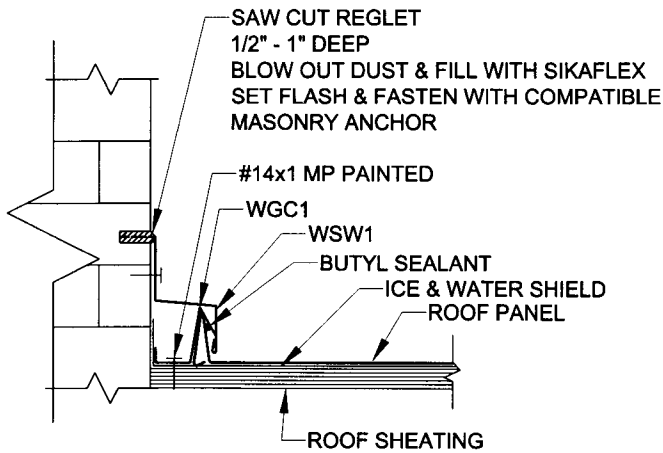
**SECTION B-B**



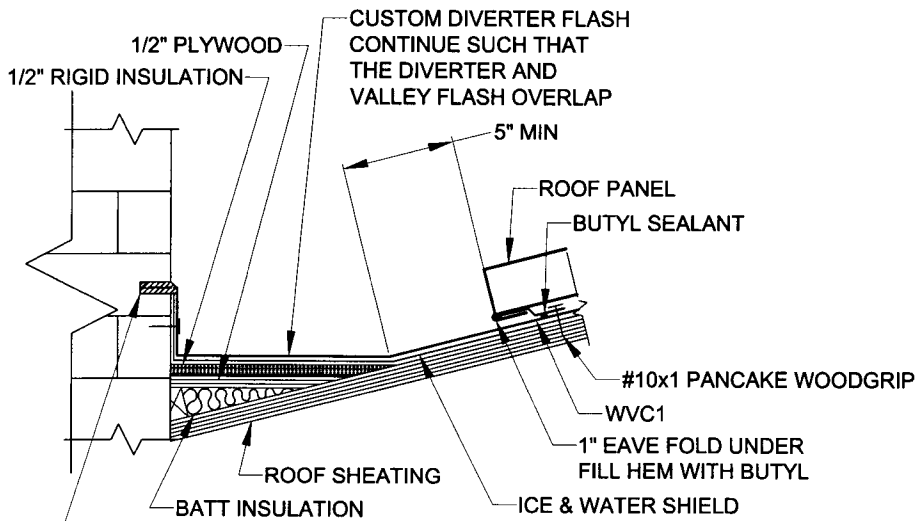
**SECTION C-C**



# CHIMNEY CROSS SECTIONS

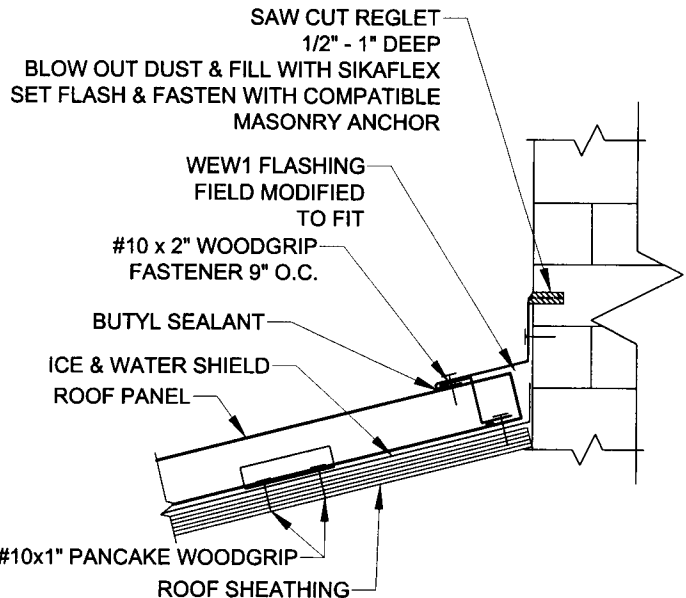


**SIDEWALL DETAIL**



SAW CUT REGLET  
1/2" - 1" DEEP  
BLOW OUT DUST & FILL WITH SIKAFLEX  
SET FLASH & FASTEN WITH COMPATIBLE  
MASONRY ANCHOR

**CRICKET DETAIL**



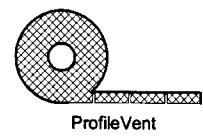
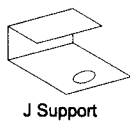
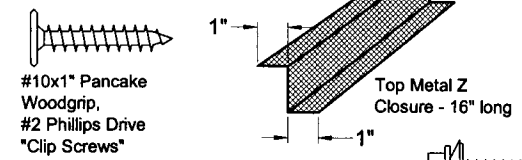
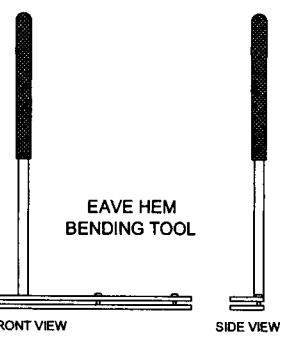
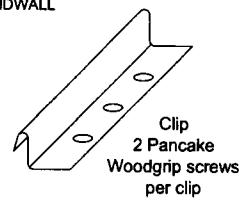
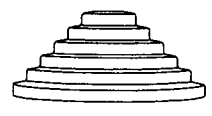
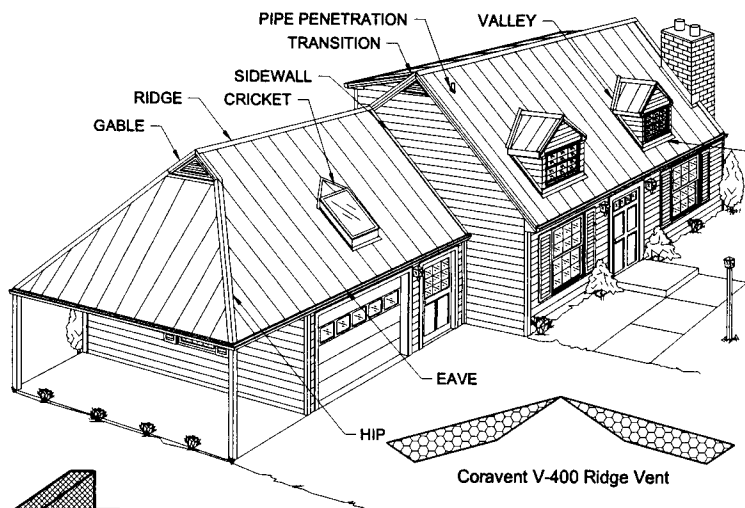
**ENDWALL DETAIL**



**NOTE:** Before installing the panels, **REMOVE** the **CLEAR STRIPPABLE FILM** found on the painted side of the overlap leg. **17**

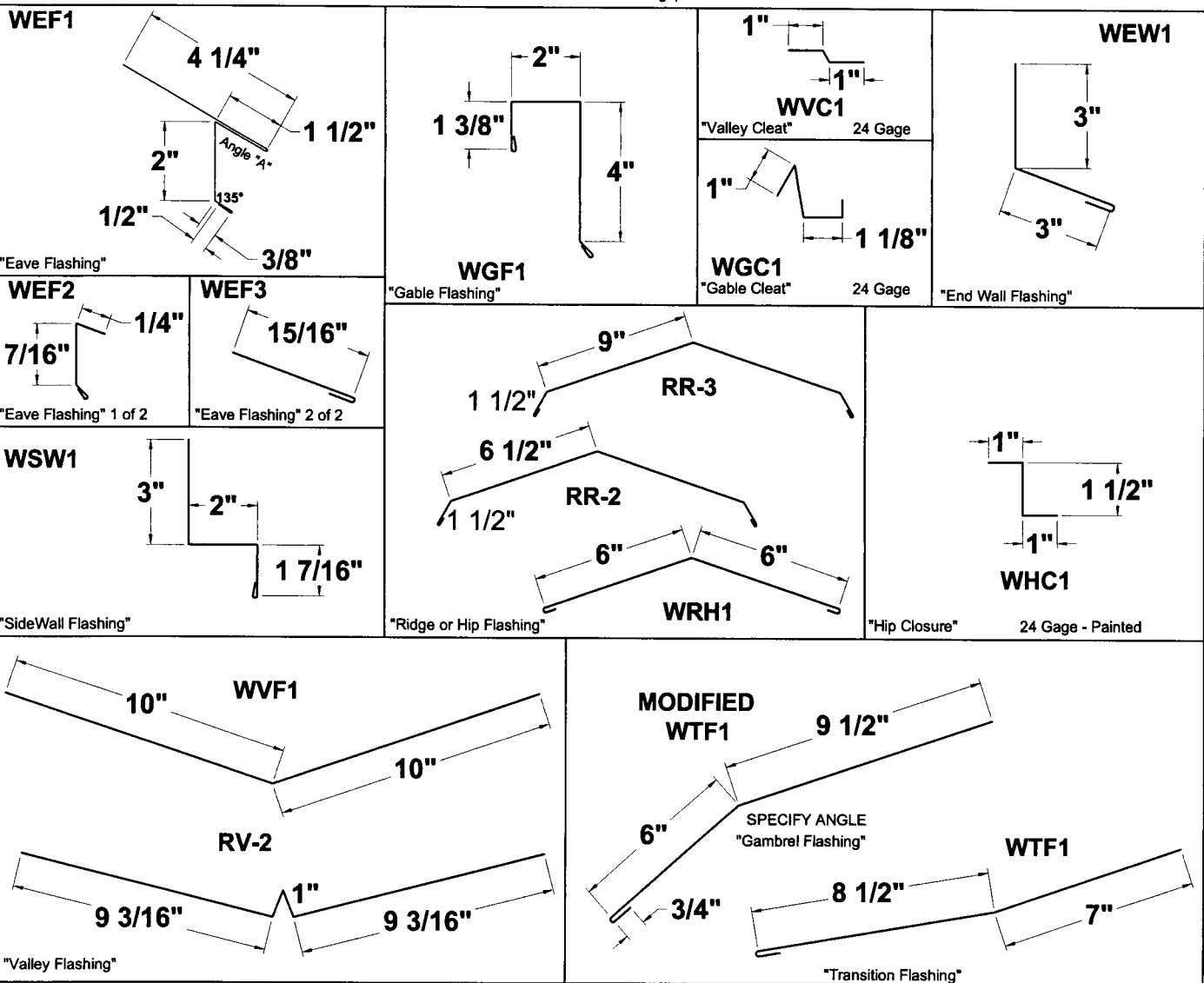
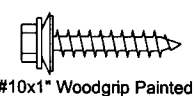
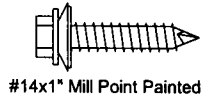
**Tools Needed for Installation:**

1. Screw Guns
2. 1/4" hex driver
3. 5/16" hex driver
4. #2 Phillips magnetic head
5. Extension cords or battery packs and chargers
6. Aviation Tin snips (yellow handle-straight cut)
7. Nibbler - optional
8. Press brake - optional
9. Duck bill metal benders
10. 1-1/2" SSR Bending Tool
11. Hammer and roofing nails
12. Caulk gun
13. Rubber mallet
14. Chalk line
15. Tape measure



**FLASHINGS/TRIM**

(all are 10'-0" long unless otherwise specified)





# 1-1/2" SSR Work/Order Guide

Customer: \_\_\_\_\_

PO#: \_\_\_\_\_

Job Name: \_\_\_\_\_

Panels cover 1.33 ft (16 inches) width

Eave to Ridge distance in flat X Slope factor = \_\_\_\_\_ panel length

or Actual on-slope measurement from eave to ridge = \_\_\_\_\_ panel length

\*Remember to figure in eave and gable overhangs when calculating lengths and widths

(Panel run allows for 1" Eave Hem, 1" overhang and 2" to 3" gap at Ridge)

(For Endwall panels, add 1" to the eave to endwall base measurement)

Panel Listing		_____ pcs. @ _____ ft-_____ in.
Color _____	_____ pcs. @ _____ ft-_____ in.	_____ pcs. @ _____ ft-_____ in.
(Choices: White, Evergreen,	_____ pcs. @ _____ ft-_____ in.	_____ pcs. @ _____ ft-_____ in.
Charcoal, Caribbean Blue, Red,	_____ pcs. @ _____ ft-_____ in.	_____ pcs. @ _____ ft-_____ in.
Hickory Moss, Classic Burgundy,	_____ pcs. @ _____ ft-_____ in.	_____ pcs. @ _____ ft-_____ in.
Antique Bronze,	_____ pcs. @ _____ ft-_____ in.	_____ pcs. @ _____ ft-_____ in.
Acrylic Coated Galvalume)	_____ pcs. @ _____ ft-_____ in.	_____ pcs. @ _____ ft-_____ in.
Factory Caulked	_____ pcs. @ _____ ft-_____ in.	_____ pcs. @ _____ ft-_____ in.

Total Lineal Feet of Panels = \_\_\_\_\_

Total Lineal Feet \_\_\_\_\_ x .0134 = \_\_\_\_\_ sqs. (Pricing will be based on actual squares shipped)

Squares \_\_\_\_\_ x 38 clips/sq. = \_\_\_\_\_ pcs. 1-1/2" SSR Clips (clips included in panel price)

(Note: 38 clips per 100 square feet of panel is based on 24" clip spacing. Closer clip spacing requires purchasing additional clips)

Number of Clips \_\_\_\_\_ x 2 screws/clip = \_\_\_\_\_ pcs. Clip Screws #10x1" Pancake Woodgrip

(Transfer to page 2 - #10x1" Pancake Head WG)

Directions: Fill in lineal feet of the various roof conditions. Utilize these numbers in the appropriate spaces below to calculate the total number of pieces needed of each item. If a space doesn't have a number or a zero, it doesn't need to be calculated. Round all piece counts up to next highest number. Increase all fastener quantities by 10% for drop/loss. Additional accessories are required for endwall, sidewall or transition details.

\* Round all fastener quantities to nearest 100 pcs.

Lineal Feet of Conditions

Eave \_\_\_\_\_

Ridge \_\_\_\_\_

Vented Ridge \_\_\_\_\_

Gable \_\_\_\_\_

Sidewall \_\_\_\_\_

Endwall \_\_\_\_\_

Valley \_\_\_\_\_

Hip \_\_\_\_\_

Transition \_\_\_\_\_

Gambrel \_\_\_\_\_

Roof Pitch = \_\_\_\_\_" in 12"

Pitch Slope Factor

1-12 1.003

2-12 1.014

3-12 1.031

4-12 1.054

5-12 1.083

6-12 1.120

8-12 1.202

10-12 1.302

12-12 1.414

◆ Eave \_\_\_\_\_ ft. ÷ 9.5 = \_\_\_\_\_ pcs. WEF1 Pitch= \_\_\_\_\_ OR

\_\_\_\_\_ pcs. WEF2 Pitch= \_\_\_\_\_ and \_\_\_\_\_ pcs. WEF3

◆ (Ridge \_\_\_\_\_ ft. ÷ 9.5) + (Hip \_\_\_\_\_ ft. ÷ 9.5) = \_\_\_\_\_ pcs. WRH1 Pitch= \_\_\_\_\_

◆ Vented Ridge \_\_\_\_\_ ft. ÷ 9.5 = \_\_\_\_\_ pcs. Modified RR1 Pitch \_\_\_\_\_

◆ Gable \_\_\_\_\_ ft. ÷ 9.5 = \_\_\_\_\_ pcs. WGF1

◆ Sidewall \_\_\_\_\_ ft. ÷ 9.5 = \_\_\_\_\_ pcs. WSW1



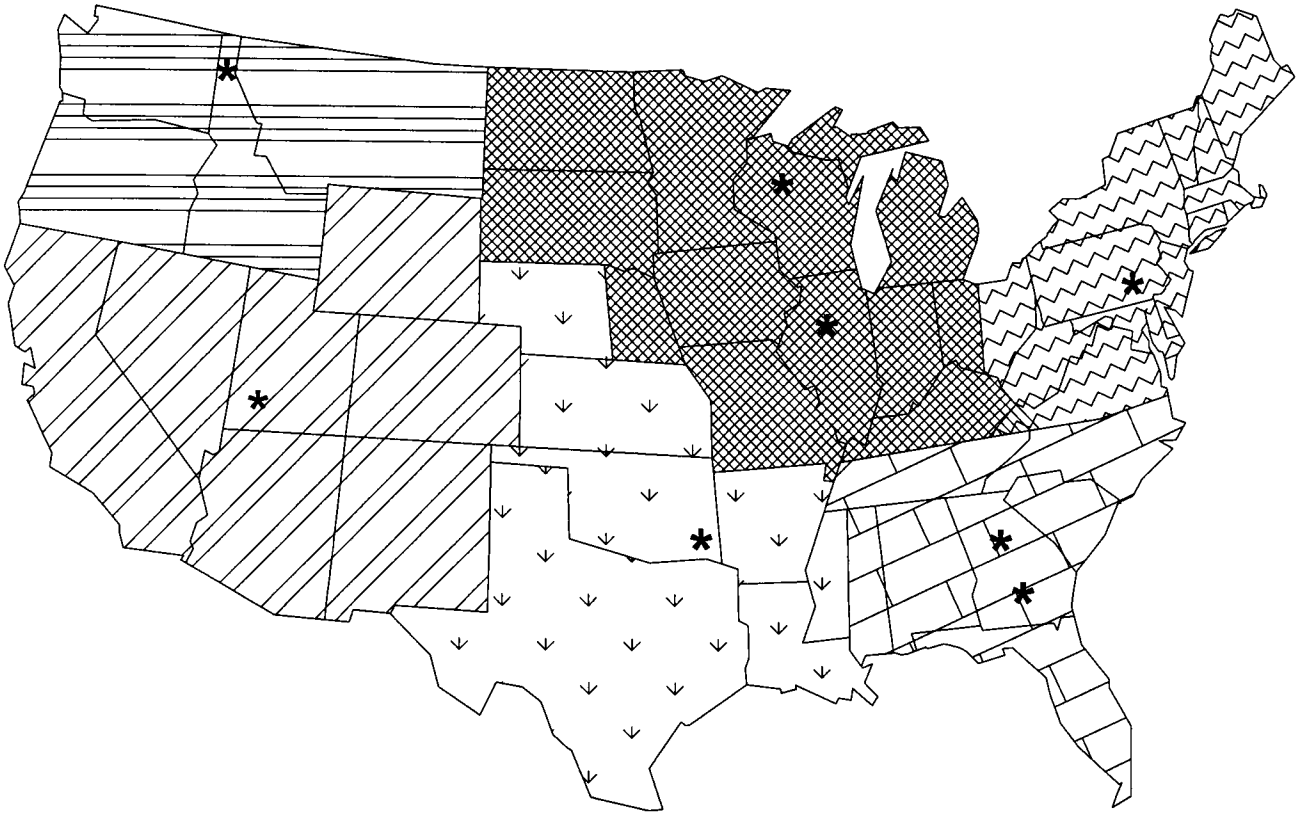
### Page 2 of 1-1/2" SSR Work/Order Guide

- ◆ Endwall \_\_\_\_\_ ft. ÷ 9.5 = ..... \_\_\_\_\_ pcs. **WEW1 Pitch=\_\_\_\_\_**
- ◆ Valley \_\_\_\_\_ ft. ÷ 9.5 = ..... \_\_\_\_\_ pcs. **WVF1 Pitch=\_\_\_\_\_**
- ◆ (Ridge \_\_\_\_\_ ft. ÷ .66)+(Endwall \_\_\_\_\_ ft. ÷ 1.33)+(Transition \_\_\_\_\_ ft. ÷ 1.33)  
+(Gambrel \_\_\_\_\_ ft. ÷ 1.33)+(Vented Ridge □ .66) = ..... \_\_\_\_\_ pcs. **Top Metal Z Closure.**
- ◆ Hip \_\_\_\_\_ ft. ÷ 5 = ..... \_\_\_\_\_ pcs. **WHC1**
- ◆ (Gable \_\_\_\_\_ ft. ÷ 9.5) + (Sidewall \_\_\_\_\_ ft. ÷ 10)=..... \_\_\_\_\_ pcs. **WGC1**
- ◆ (Valley \_\_\_\_\_ ft. ÷ 5) + (Transition \_\_\_\_\_ ft. ÷ 9.5) + (Gambrel \_\_\_\_\_ ft. ÷ 9.5)= \_\_\_\_\_ pcs. **WVC1**
- ◆ (Valley \_\_\_\_\_ ft. x 2) + (Transition \_\_\_\_\_ ft. x 1) + (Gambrel \_\_\_\_\_ ft. x 1) +  
(Clip screws (previous page) \_\_\_\_\_ pcs.= ..... \_\_\_\_\_ pcs. **#10x1" Pancake Head  
(Round up to nearest 100)**
- ◆ (Eave \_\_\_\_\_ ft. x 1) + (Gable \_\_\_\_\_ ft. x 1) +  
(Sidewall \_\_\_\_\_ ft. x 1) = ..... \_\_\_\_\_ pcs. **#10 x 1" Painted WG  
(Round up to nearest 100)**
- ◆ (Vented Ridge \_\_\_\_\_ ft. x 2) = ..... \_\_\_\_\_ pcs. **#10 x 1½" Painted WG  
(Round up to nearest 100)**
- ◆ (Ridge \_\_\_\_\_ ft. x 6.5) + (Hip \_\_\_\_\_ ft. x 6) + (Gable \_\_\_\_\_ x 1) +  
(Sidewall \_\_\_\_\_ ft. x 1) + (Endwall \_\_\_\_\_ ft. x 4) + (Vented Ridge \_\_\_\_\_ ft. x 4.5) +  
(Transition \_\_\_\_\_ ft. x 3.5) + (Gambrel \_\_\_\_\_ ft. x 3.5) =.. \_\_\_\_\_ pcs. **#14 x 1" MP Painted  
(Round up to nearest 100)**
- ◆ (Eave \_\_\_\_\_ ft. x .0125) + (Ridge \_\_\_\_\_ ft. x .0125) + (Vented Ridge \_\_\_\_\_ ft. x .0125) +  
(Hip \_\_\_\_\_ ft. x .15) + (Sidewall \_\_\_\_\_ ft. x .05) + (Endwall \_\_\_\_\_ ft. x .0625) +  
(Valley \_\_\_\_\_ ft. x .0125) + (Transition \_\_\_\_\_ ft. x .0125) +  
(Gambrel \_\_\_\_\_ ft. x .0125) = ..... \_\_\_\_\_ tubes **Sikaflex Sealant**
- ◆ ( \_\_\_\_\_ ft. wide chimney x .5) = ..... \_\_\_\_\_ pcs. **of Flat 41"x 10'**
- ◆ Transition \_\_\_\_\_ ft. ÷ 9.5 = ..... \_\_\_\_\_ pcs. **WTF1 Pitch from \_\_\_ to \_\_\_**
- ◆ Gambrel \_\_\_\_\_ ft. ÷ 9.5 = ..... \_\_\_\_\_ pcs. **Modified WTF1 Pitch from \_\_\_ to \_\_\_**
- ◆ (Ridge \_\_\_\_\_ ft. x .10) + (Vented Ridge \_\_\_\_\_ ft. x .10) + (Gable \_\_\_\_\_ ft. x .025) +  
(Valley \_\_\_\_\_ ft. x .10) + (Hip \_\_\_\_\_ ft. x .10) + (Transition \_\_\_\_\_ ft. x .075) +  
(Gambrel \_\_\_\_\_ ft. x .075) = ..... \_\_\_\_\_ rolls **Butyl Sealant Tape**
- ◆ Vented Ridge \_\_\_\_\_ ft. □ 4 = ..... \_\_\_\_\_ pcs. **CoraVent Ridge Vent**
- ◆ Misc. = Eave Bending Tool (reusable for each project)..... \_\_\_\_\_ pcs.

Fax Order to: Sales Service Supervisor

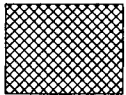
Lancaster, PA - (800) 283-4289  
 Gridley, IL - (800) 289-3383  
 Cedar City, UT - (800) 632-2725  
 Marshfield, WI - (715) 387-2424

Jackson, GA - (800) 765-4484  
 Idabel, OK - (800) 289-6007  
 Rathdrum - (888) 632-2725  
 Tifton, GA - (800) 380-4784



Lancaster Plant  
3449 Hempland Rd.  
Lancaster, PA 17601  
(800) 477-2741  
Fax (800) 283-4289

Grandrib 3, Grandrib 3 PLUS, Grandrib 3 Ultra, 1 1/2" SSR, Strongrib .0155/.018, .018 Fabrib (stock), Mighti-Rib 26 ga. 2 1/2" and 11/4" Corrugated-Plain 29 ga., 5V Crimp-Plain 29 ga., Ultra Rib 26 ga., Alu-Tuff, Aluminum Alu-Tuff



Gridley Plant  
Route 24 West  
Gridley, IL 61744  
(800) 451-3974  
Fax (800) 289-3383

Grandrib 3, Grandrib 3 PLUS, 1 1/2" SSR, Strongrib .0155/.018  
.018 Fabrib (stock), 11/4" Corrugated-Plain 29 ga. Stock  
5V Crimp-Plain 29 ga. (stock), Mighti-Rib 26 ga.

Marshfield Plant  
1820 East 26th  
Marshfield, WI 54449  
(800) 528-0878  
Fax (715)-387-2424

Alu-Tuff, Aluminum Alu-Tuff, Primerib

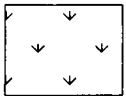


Jackson Plant  
308 Alabama Blvd  
Jackson, GA 30233  
(800) 884-4484  
Fax (800) 765-4484

1 1/2" SSR, Mighti Rib 26 ga.

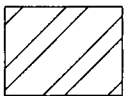
Tifton Plant  
Hwy 41 South & 55 Lamb Loop  
Tifton, Ga 31793  
(800) 749-8144  
Fax (800) 380-4784

Fabrib .018/.021, .019 Alu-Twin, 21/2" Corrugated, Grandrib 3 29 and 26 ga., 2 1/2" Corrugated, GrandBeam 26 ga., GrandBeam S 29 ga., Alu-Tuff, Aluminum Alu-Tuff, 5V Crimp - Plain 29 ga. & Painted 26 ga., Duralap



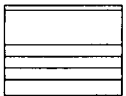
Idabel Plant  
Route 3, Box 632  
Idabel, OK 74745  
(800) 926-8509  
Fax (800) 289-6007

Grandrib 3 29 and 26 ga., Aluminum Grandrib 3, 1 1/2" SSR, GrandBeam 26 ga., GrandBeam S 29 ga., .018/.021 Fabrib, .017/.019 Alutwin, 5V Crimp - Plain 29 ga. & Painted 26 ga., 11/4" Corrugated, 2 1/2" Corrugated-Plain 29 ga.



Cedar City Plant  
2402 Industry Way  
Cedar City, UT 84720  
(800) 432-2725  
Fax (800) 632-2725

Grandrib 3, Grandrib 3 PLUS, 1 1/2" SSR, GrandBeam 26 ga., GrandBeam S 29 ga., Mighti Rib 26 ga.



Rathdrum Plant  
658 Boekel Road  
Rathdrum, ID 83858  
(888) 470-0013  
Fax (888) 832-2725

Grandrib 3, Alu-Loc, Mighti Rib 26 ga.