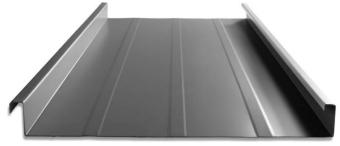
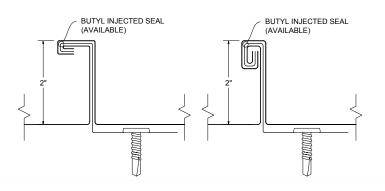


# MS-200<sup>™</sup> Installation Guide











Flashing and Details Guide



### **Table of Contents**

| Panel Specifications          | 2-3   |
|-------------------------------|-------|
| Floating Panel Clip           |       |
| Notes To Designer/Installer   | 5-7   |
| Taylor Delivery Fleet         |       |
| Delivery, Will Call & Loading | 9     |
| Standard Eave                 | 10    |
| Hook Eave                     | 11    |
| Gutter/Hook Eave              | 12    |
| Standard Ridge                | 13    |
| Vented Ridge                  |       |
| End Dam Attachment            | 15    |
| Valley Flashing               | 16    |
| Valley Flashing – Low Pitch   | 17    |
| Standard Gable                |       |
| Alternate Gable               | 19    |
| Sidewall                      |       |
| Peak Flashing (R.E.C.)        | 21    |
| Vented Peak Flashing (R.E.C.) | 22    |
| Pitch Change                  | 23    |
| Endwall                       |       |
| Vented Endwall                | 25    |
| Saw Cut Endwall               | 26    |
| Back Pan                      | 27-29 |
| Curb Side Wall                |       |
| Curb End Wall                 | 31    |
| Curb/Pan Cricket              | 32    |
| Eave to Gable Transition      | 33-35 |
| Pipe Penetration – on Plate   |       |
| Pipe Penetration – on Rib     | 37-38 |
| Pipe Penetration – on Pan     |       |
| Flashing Selection            | 40-44 |



# MS-200<sup>TM</sup> MECHANICALLY SEAMED

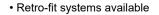


### **KEY FEATURES**

- 12", 14", 16" & 18" options available
- 24 & 22 gauge Tru-Gauge™ and .032" Aluminum
- Floating clip system: allows for expansion/ contraction of panels in longer lengths
- $\bullet$  2" Mechanical seam rib, 90° or 180°: Factory notching available
- · Factory injected Butyl sealant
- Structural panel that will span up to 5'
- · Concealed fasteners: fasteners cannot leak
- Manufactured in Riverside CA, Sacramento CA & Salem OR
- ES EVALUATION ICC-ESR #5046 with CBC-CRC Supplement
- FM Global Class #4471 Approved

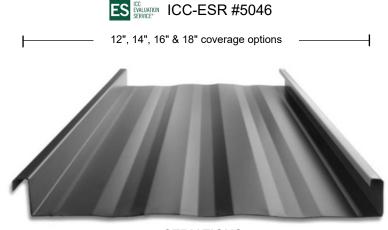
- Code compliance UL Evaluation Report UL ER 25913-01

- UL Construction No. 90, 176, 180, 238, 238 A-C, 435, 435 A, 437, 449, 451, 452, 487, 506, & 506 A-C
- UL 580 Class 90 Wind Uplift, UL 790 Class A Fire rated and UL 2218 Class 4 Impact (hail) rated
- Dade PA 201-94 Class 90 Impact, 140 MPH Wind Uplift
- FM I-75 (60" o.c.) FM I-120 (24" o.c.)
- ASTM E283 Air infiltration (walls) ASTM E331 - Water infiltration (walls) ASTM E1592 - Structural uniform static air pressure ASTM E1646 - Water infiltration (roof) ASTM E1680 - Air infiltration (roof) ASTM E2140 - Water test for full immersion hydrostatic roof systems
- Weather tightness warranty available (Contact TMP representative for details)
- 1/2:12 minimum pitch recommended (For lower pitches, please inquire)
- Standard panel lengths 5' to 60' not notched Standard panel lengths 1' to 60' - notched (For longer panel lengths, please inquire)
- On-site roll forming available for long lengths
- Panel options: Striations, Accent Ribs, and Flat Pan



# Factory-notched panels Provents crowing Novible screws required Strom, oncessing appearance

### PANEL PROFILES



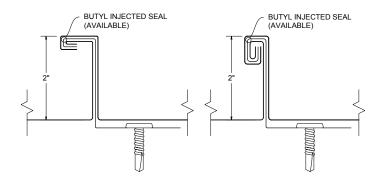
STRIATIONS



ACCENT RIBS 2 Accent ribs for 12" & 14" panel 3 Accent ribs for 16" & 18" panel

#### 90° SEAM DETAIL

### **180° SEAM DETAIL**



180 degree seams are not considered an architectural detail. The detail improves the weather tightness and wind uplift capabilities of the panel system, but will show stress and waviness in the seam. The detail is recommended for slopes less than 2:12, roof areas not easily viewed from the ground, and for high wind areas. For additional information, contact a TMP representative and DI Seamers for support and information about the proper use of seaming tools.

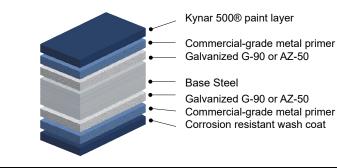


### MATERIAL SPECIFICATIONS

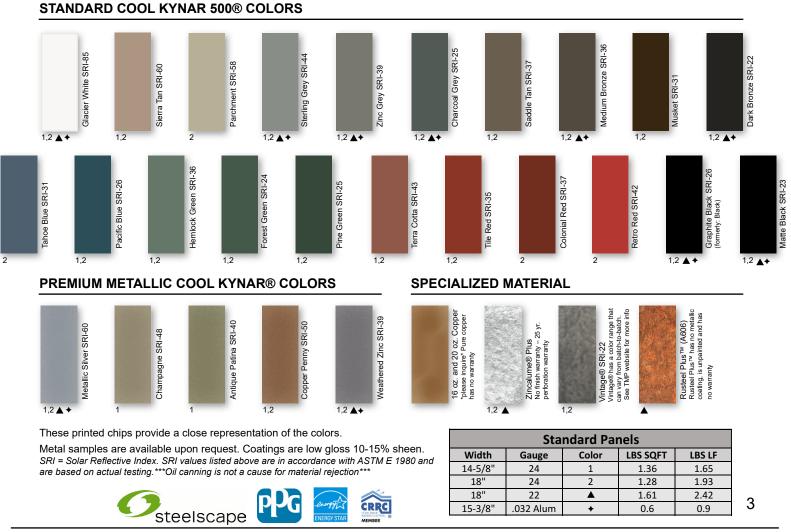
- 24 gauge Kynar 500® Painted Steel .0236" (Thickness prior to painting) G-90 Galvanized or AZ-50
- 24 gauge bare Zincalume® Plus AZ-55 (*No finish warranty – 25 yr. perforation warranty*)
- ▲ 22 gauge Kynar 500® Painted Steel .029" (Thickness prior to painting)
- + .032" Kynar 500® Painted Aluminum
- 22 gauge Rusteel Plus™ (A606)
- 16 and 20 ounce Copper (*Please inquire*)
- Kynar 500® and substrate testing data available (See website)
- "Oil canning" is an inherent characteristic of roof and wall products, and not a defect, which is not a cause for panel rejection

### **KEY FEATURES**

- 21 Standard Colors, 5 Metallic Colors and 4 Specialized Materials
- Kynar 500® Paint System the ultimate in exterior durability and color retention
- "Cool" color pigments are specially designed to reflect infrared light, reducing heat gain to dwelling, and conform with ENERGY STAR® criteria
- Superior Quality, two coat, 70% resin finish, applied at a 1 mil. thickness
- 40 year residential paint warranty
- 20 and 30 year commercial paint warranty: Contact TMP for warranty specifications



40-Year Residential / 20 and 30 Year Commercial Manufacturer's Limited Warranty





Flashing and Details Guide



## Taylor Metal Products MS-200<sup>™</sup> - UL 90 Floating Clip 18 ga. Base/22 ga. Top



UL 580 Class 90 Wind Uplift Rated UL Class A Fire Rated



### Notes to Designer/Installer

**Taylor Metal Products** is providing the following details as an aid in design. The details in this guide are not inclusive to all design situations. The designer/installer is responsible for modifications and should take into consideration all aspects of the project including climate conditions, such as, snow and wind, as well as, building code requirements, building design, building usage and maintenance requirements.

Installation should be performed only by qualified installers familiar with metal roofing systems and industry standards. For details not shown in this guide, refer to the Sheet Metal and Air Conditioning Contractors National Association (SMACNA) architectural sheet metal manual for proper design. For manufacturer's weather tightness warranties – all details must be preapproved by Taylor Metal Products technical representative.

The Standard gauge for all products in this guide is 24 gauge and the standard finish is Kynar 500<sup>®</sup>. We recommend specifying all flashings be the same gauge, color, and finish as the panels to insure long-term durability and color match.

### **Substrates**

Details in the manual are all shown over solid substrate. **MS-200**<sup>™</sup> can be used over spaced purlins. For solid substrate, **Taylor Metal Products** recommends 5/8" plywood or metal decking.

### **Underlayment**

Minimum underlayment requirements are 30 lb. ASTM rated felt, a synthetic underlayment with Class A and ASTM UV protection technology or a high temperature self-adhering rubberized membrane. When choosing the underlayment, consider the roof slope, roof design, roof panel, and the climate.

### **Drag Load Requirements**

All panels must be pinned at one end to resist the drag load caused by snow loads, live loads, and the weight of the panel. Drag load is a function of roof slope, actual load and length of panels. Contact **Taylor Metal Products** for specific drag load requirements.



Flashing and Details Guide



### Ventilation/Insulation

It is the responsibility of the designer to determine the material types needed to control condensation and to insulate and ventilate the roof system. Applications over rigid insulation may require blocking for solid attachment and framing the perimeter for installation of perimeter flashings.

### Oil Canning

Flat metal surfaces will display waviness commonly referred to as "oil canning." Oil canning is caused by a variety of conditions. Steel mill tolerances, variations in or uneven substrates and roofing underlayments. Oil canning is a characteristic of metal roofing, not a defect and is not a cause for rejection. **Taylor Metal Products** offers **MS-200**<sup>™</sup> with striations or accent ribs to help minimize oil canning.

### **Thermal Movement**

The Panels and the flashings must be allowed to expand and contract, especially with longer length panels. The panel may need to have a slight gap where the panel hooks the offset cleat to allow for thermal movement of the panels.

### Snow Design

The following details do not address all conditions for snow environments. Consult with the designers, engineers, and others for acceptable details to accommodate your project and climate conditions. When possible gutters, valleys, pitch changes or other penetrations should be minimized in snow areas.

All roof penetrations should be located as close to the ridge or "pin point" top of roof. Snow country requires special designs for valleys to accommodate accumulation of snow and ice from uphill panels. Roof design should be considered in snow areas. Roof design should help resist the melting and freezing of snow and ice.

A fit for purpose roof design has the greatest impact on maintaining a damage free roof system in snow areas. Please contact a Taylor Metal Products representative for assistance in detail designs and appropriate panel selection for specific climate and building conditions.



### Handling / Storage & Safety

Handle materials with care when off-loading or moving materials to avoid damage to panels or flashings. Long panels may require two or more pick-up points, properly spaced to avoid damaging panels. Plan ahead; contact Taylor Metal Products for recommendations on handling/hoisting long panels.

Store the panels, flashings and accessories in a dry, well ventilated area, off the ground. If covering, allow ventilation around panels. Elevate one end of bundle to allow drainage of wet materials.

Wear clean, soft-soled shoes when walking on roofing panels to avoid damage to the painted finish.

Take care that sand, gravel, dirt, etc. sticking to your shoes is not carried onto the roof, scratching or otherwise damaging the finish on the roofing material. Walking on asphalt impregnated felt paper, especially on a hot day, can cause the asphalt to stick to your shoes and be tracked on to the roofing material.

Take care when painting to avoid getting over spray on the roofing material. Remember that wind can carry paint particles some distance. Over spray can cause the finish of the roofing material to look dull and may void your warranty.

Secure materials, especially when leaving the site, on the ground or roof to prevent winds from moving the materials. Wind-blown materials may cause damage to the material, property or persons.

Always use proper safety equipment and attire to minimize risk of cuts or other injuries.

Do not walk on panels that have not been completely installed.

Do not walk on major ribs of panels.

Metal roofs that are wet or dusty can be extremely slippery. Wear soft soled shoes and a safety harness to minimize risk of falling.

Avoid installing metal panels in windy conditions.

Safety considerations are the responsibility of the installer and his crew. Be sure to and **use common sense** generally accepted safety practices when installing roofing materials.

# **Taylor Delivery Fleet**

### **Delivery Fleet**

Taylor Metal Products prides itself with quick lead times delivered with our fleet of semi trucks. Our fleet of trucks are owned and operated by TMP. All of our drivers are Taylor Metal Products employees, so when your truck rolls in to deliver, you are dealing with Taylor Metal Products.

Expect consistant and exceptional service with short leadtimes. The inhouse fleet allows for efficient and cost-effective delivery.





Mounted on the rear of our truck's trailer, the trailer-mounted "Piggy-Back" forklift will accompany you right to your place of use, opening up unprecedented possibilities in terms of transportation. It can travel sideways, carrying panels up to 40' long, allowing delivery in locations that would typically be considered impossible to reach.

Save time and effort while avoiding potential loading and transport issues; have experienced TMP personnel deliver and unload your order.





# **Delivery & Will Call/Loading**

### <u>Delivery</u>

We will make every attempt to deliver material to the desired location. We may be unable to gain access on tight corners or steep terrain. If the site is deemed inaccessible by our driver, the customer may choose an alternate delivery site within a reasonable proximity. If we are unable to make the delivery, additional charges may be assessed.

The customer is responsible for:

- Determining adequate access for delivery ahead of time.
- Meeting the delivery at the agreed upon time.
- Providing adequate resources (1-4 people as needed) for off loading materials.
- A charge of \$100 per hour may be added for deliveries that go beyond their allotted time.
- Checking the shipment at the time of delivery.
- Verifying material quantities against the shipping/packing list.
- Noting any damage or discrepancies upon the paper work at the time of delivery and notifying Taylor Metal Products within 48 hours of delivery.

Delivery times are usually scheduled one day in advance. Taylor Metal Products will make every effort to make the delivery at the scheduled time. Please be aware that there may be conditions beyond our control such as traffic, mechanical failures, road closures, etc. which may affect our schedule.

### Will Call & Loading

Flatbed trailers and trucks are best suited to transport metal roofing materials. These can be loaded from the side with a forklift and tied down in a safe and secure manner.

We are not able to load materials onto vehicles and/or trailers which are not suitable or may be hazardous to load. Please be aware that if we find a vehicle to be inappropriate, we reserve the right to refuse to load your order.

Unacceptable examples include: boat trailers, vans, buses, motor homes, campers and box trailers. Pickup racks which do not have sufficient supports for the weight or are not long enough to support bundles are also unacceptable.

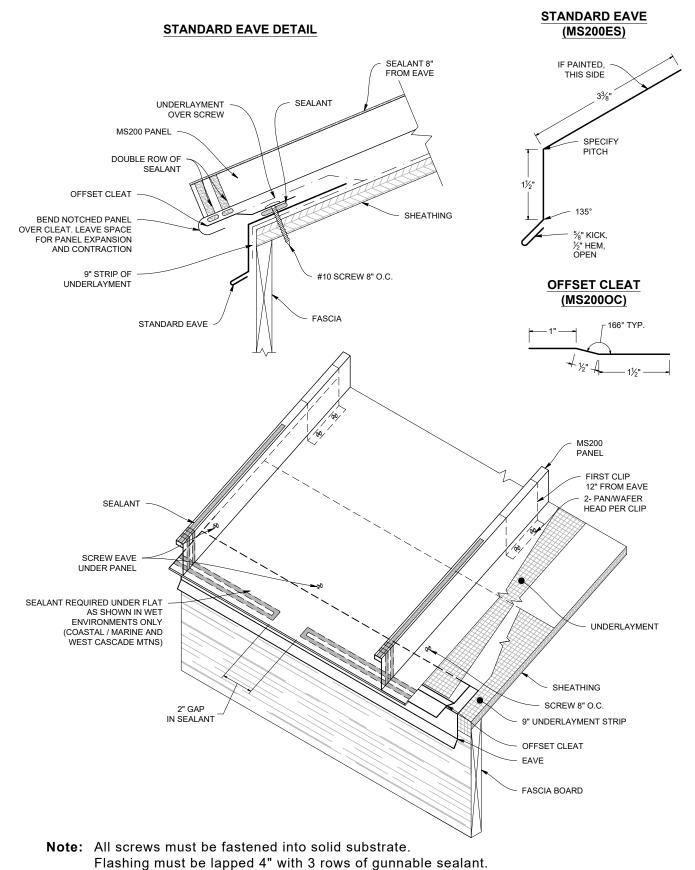
Taylor Metal Products is not responsible to tie down loads nor do we provide any tie down materials. Please bring tie downs to secure your load (string or twine are **not** acceptable for this purpose).

# Consider having your order delivered on one of our trucks with a piggy back forklift.



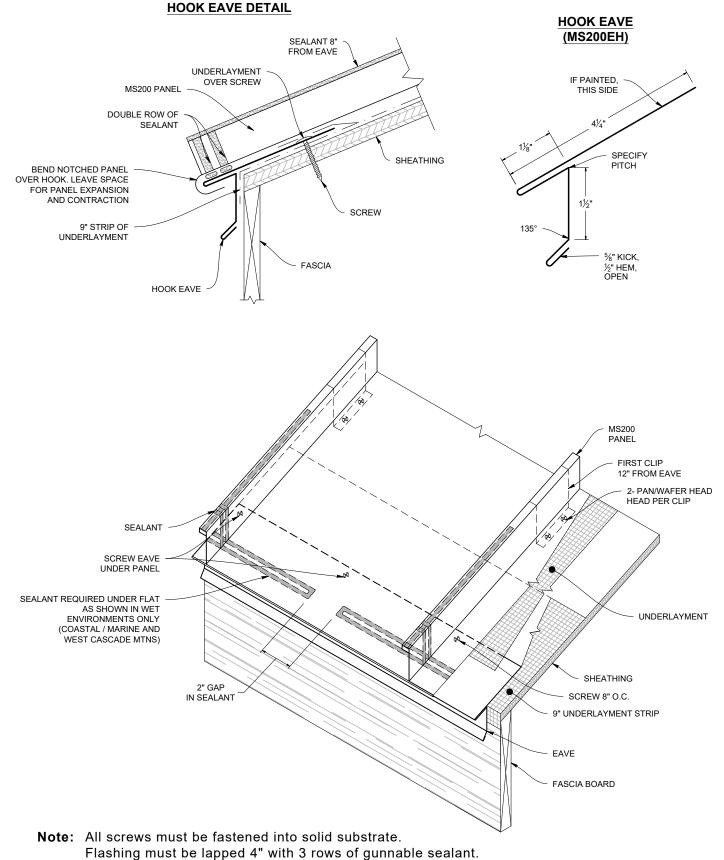


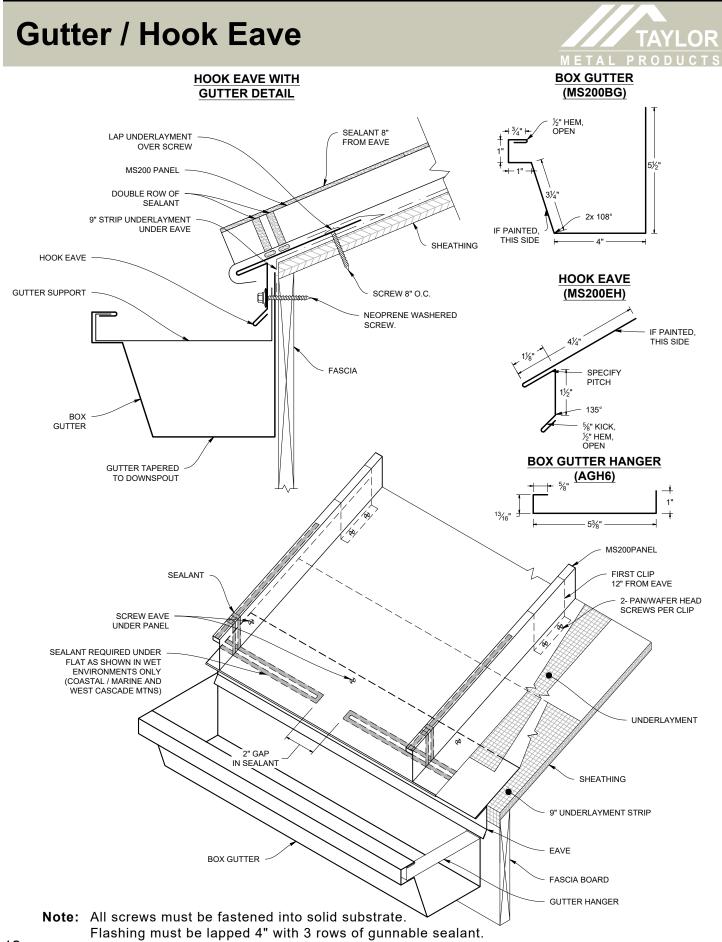
# **Standard Eave**



# **Hook Eave**



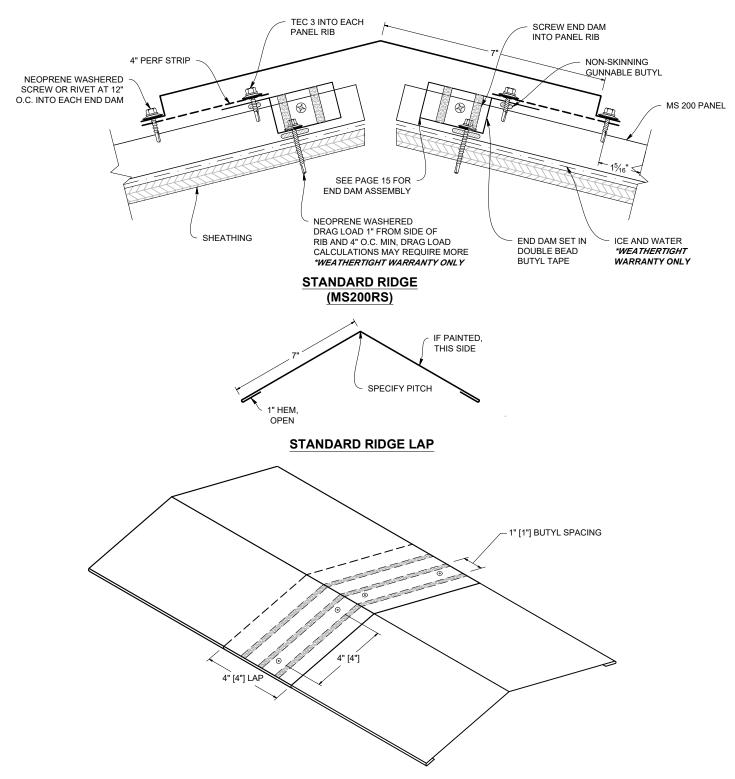






**Standard Ridge** 

STANDARD RIDGE DETAIL



**Note:** All screws must be fastened into solid substrate. Flashing must be lapped 4" with 3 rows of gunnable sealant.

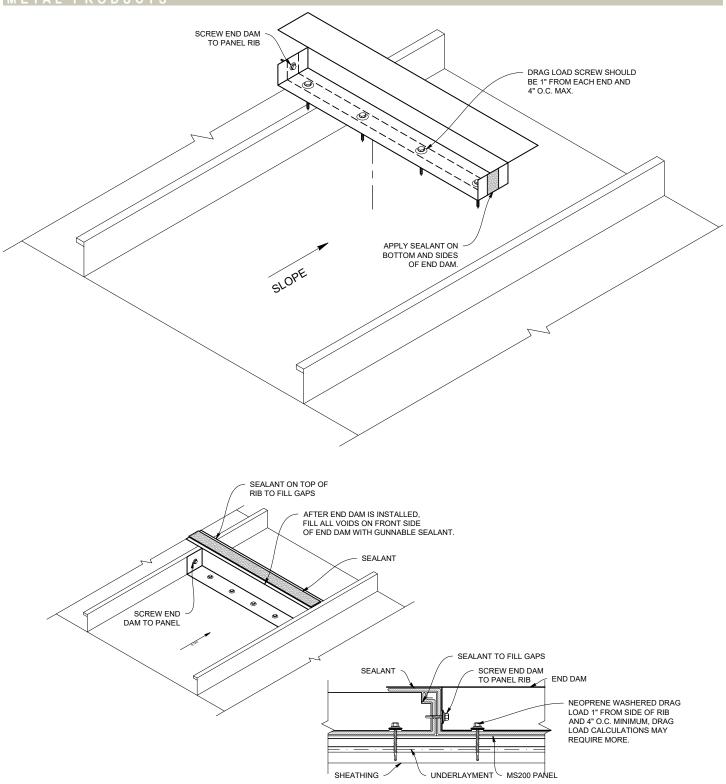
# **Vented Ridge**



WT VENTED RIDGE DETAIL VENTED RIDGE DOUBLE BEAD SCREW END DAM BUTYL TAPE TO SEAM ON TAB SEE PAGE 15 FOR PERFORATED VENT DRIP LAP TEK SCREW INTO END DAM - 12" O.C. END DAM ASSEMBLY NEOPRENE WASHERED LAP TEK SCREW OR RIVET AT 12" O.C. INTO EACH VENTED CHANNEL MS200 PANEL DOUBLE BEAD BUTYL TAPE NEOPRENE WASHERED DRAG LOAD 1" FROM SIDE OF RIB AND SHEATHING 4" O.C. MIN. DRAG LOAD CALCULATIONS MAY REQUIRE MORE. FASTENER SIZE **ICE & WATER SHIELD** DETERMINE BY CALCULATION WT RIDGE FULL VENTED PERFORATED VENT DRIP (MS200WTRFV) (MS200PVD) IF PAINTED, THIS SIDE 90° BEND SPECIFY 135° BEND PITCH 110° 1%' 21/2" 1/2" HEM, **OPEN** VENTED RIDGE LAP 3 ROWS OF SKINNING GUNNABLE BUTYL NEOPRENE WASHERED O Top SCREW 4" O.C. 4" LAP

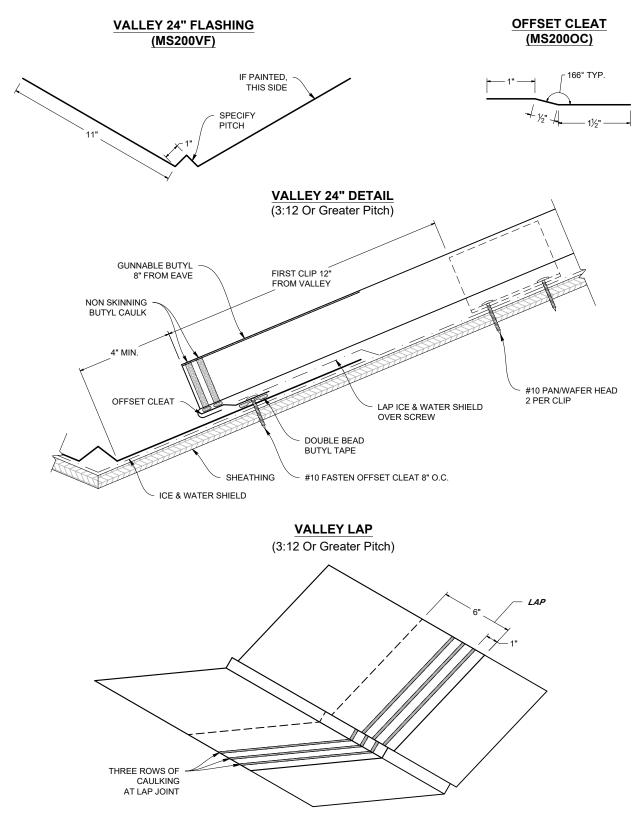


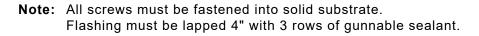
## **End Dam Attachment**

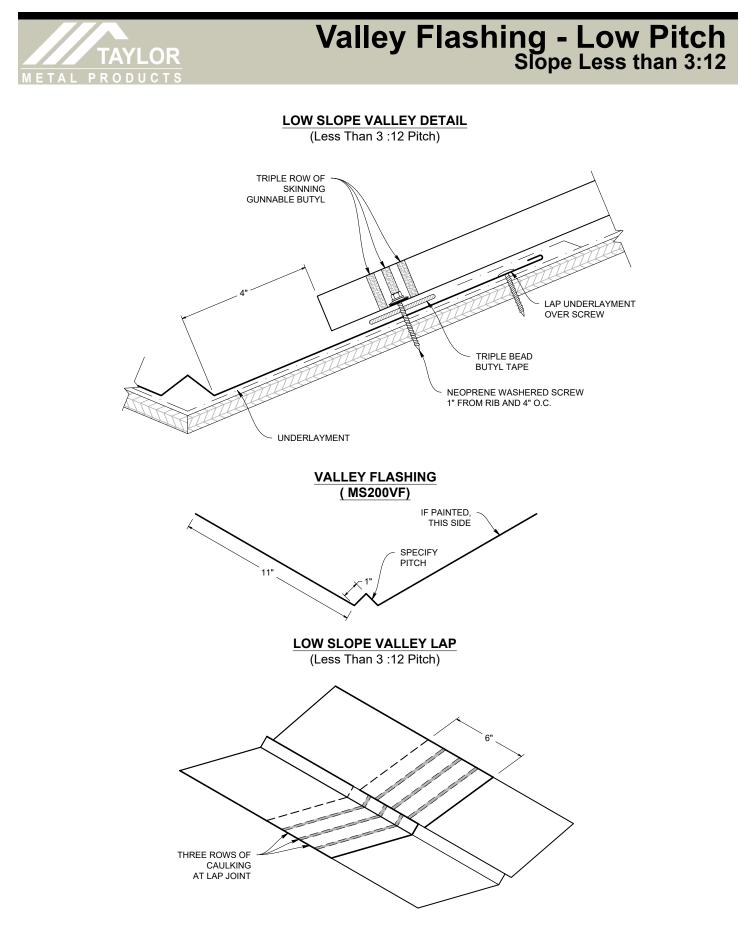


### Valley Flashing Slope 3:12 or Greater



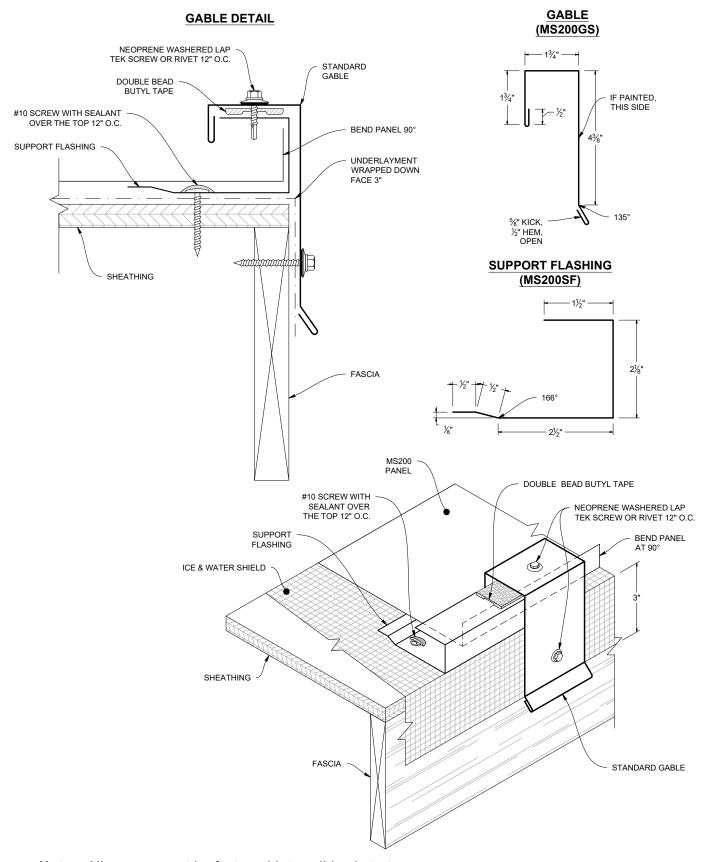






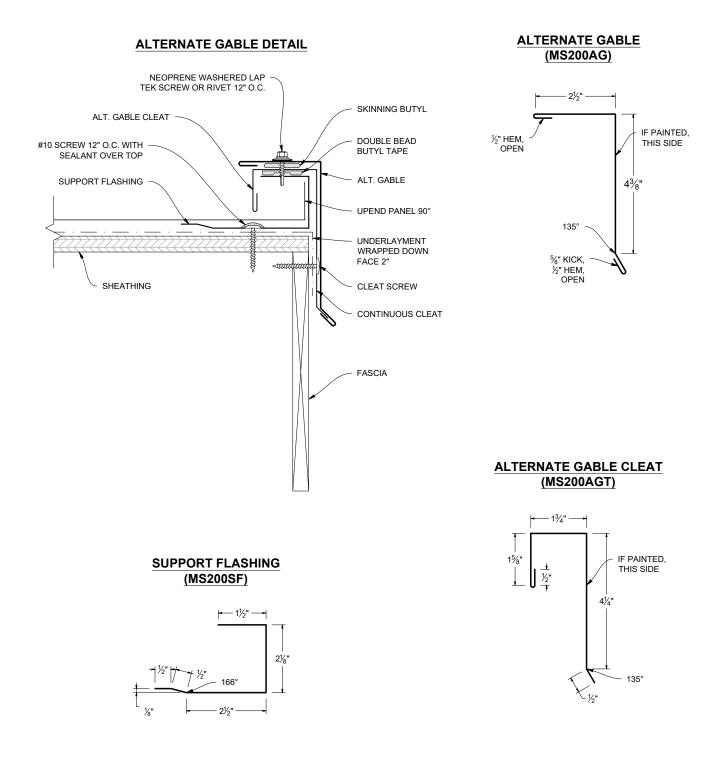
# **Standard Gable**





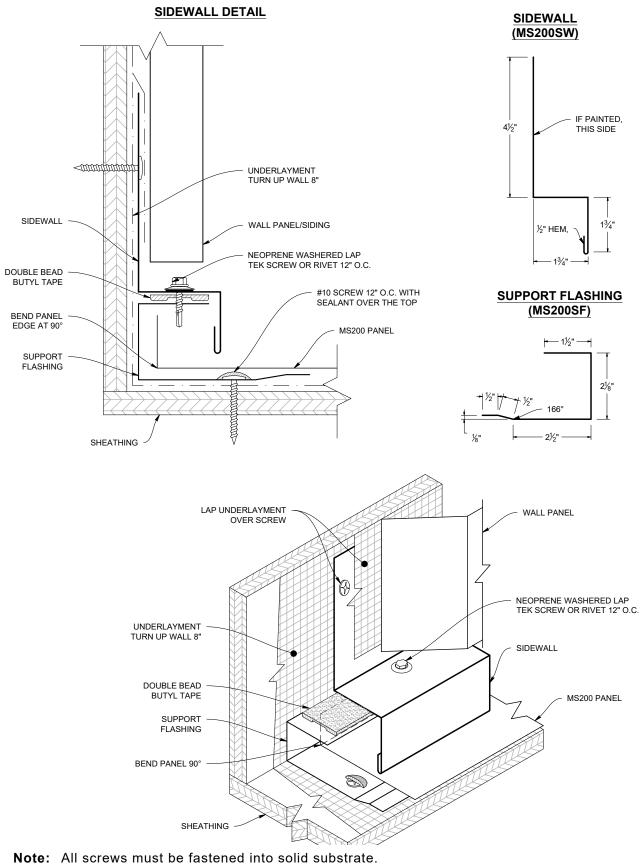


**Alternate Gable** 



# Sidewall

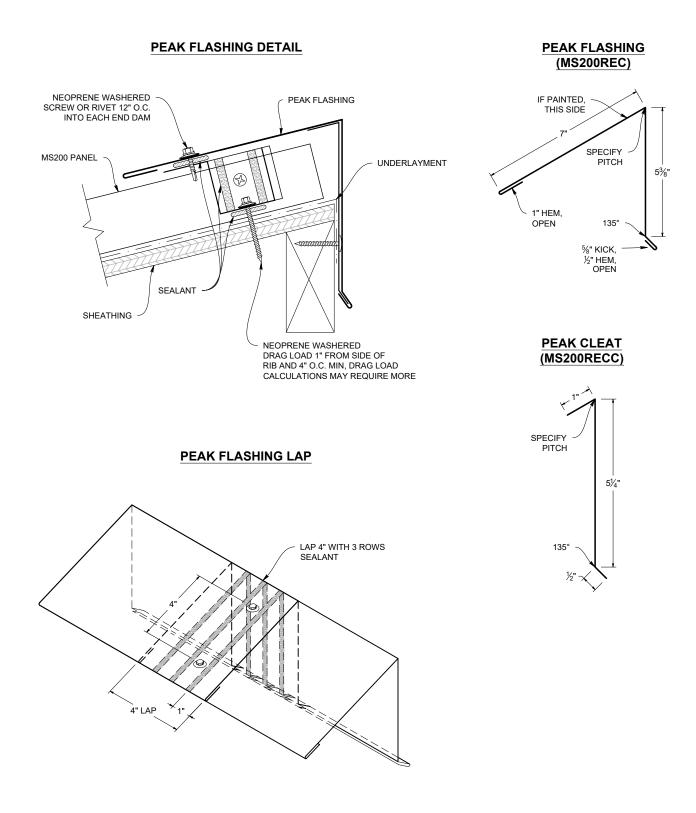




Flashing must be lapped 4" with 3 rows of gunnable sealant.

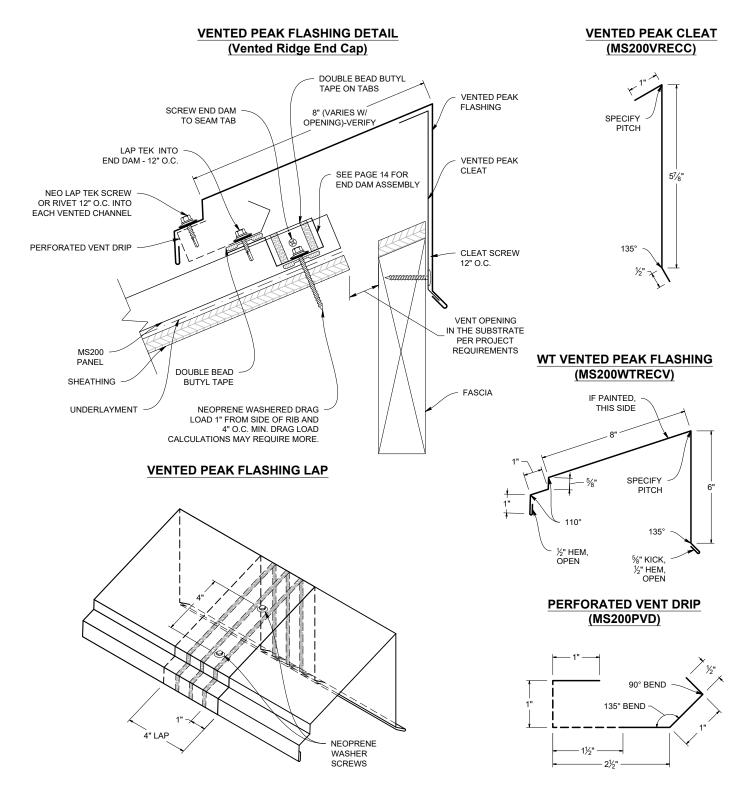


Peak Flashing (Ridge End Cap)



### Vented Peak Flashing (Ridge End Cap)

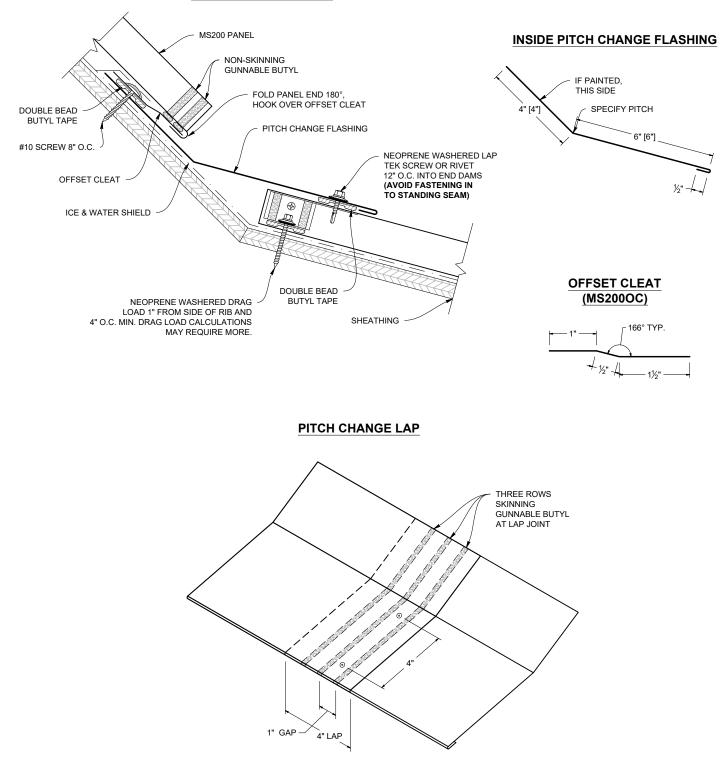








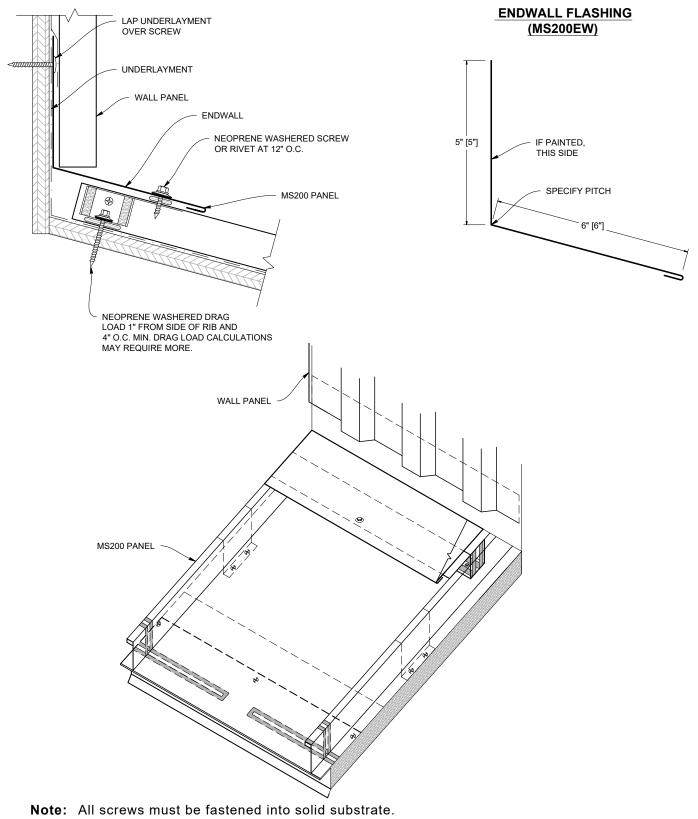
PITCH CHANGE DETAIL



# Endwall



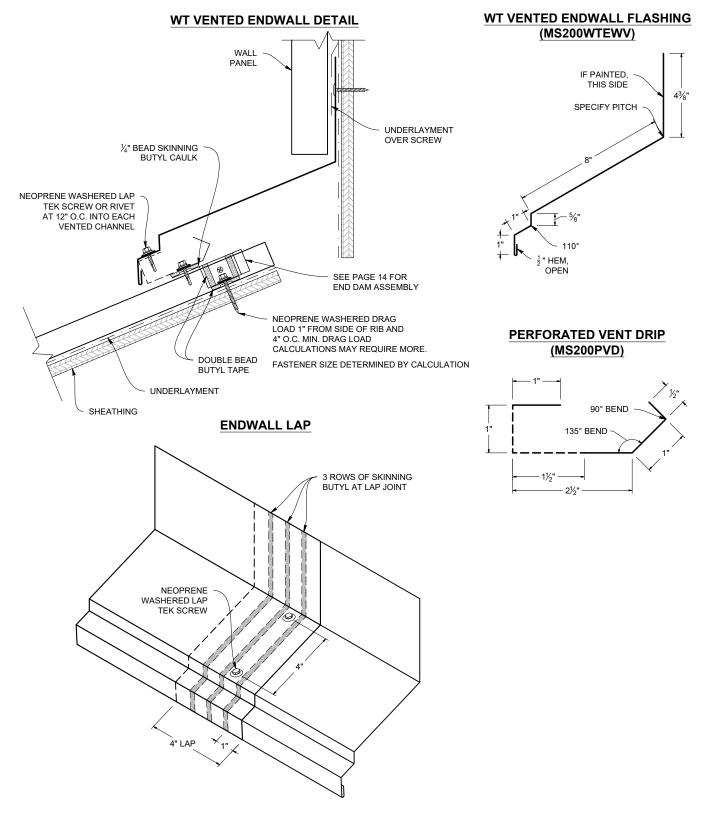
ENDWALL DETAIL



Flashing must be lapped 4" with 3 rows of gunnable sealant.

# **Vented Endwall**



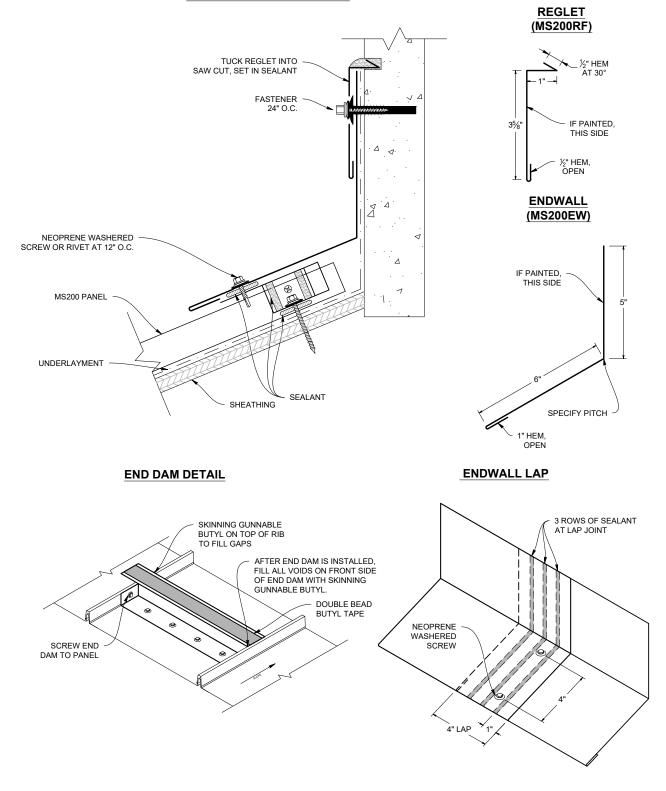


**Note:** All screws must be fastened into solid substrate. Flashing must be lapped 4" with 3 rows of gunnable sealant.

# Endwall w/ Saw Cut Reglet



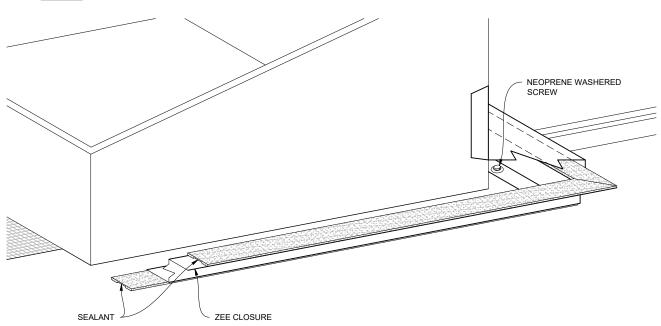
#### SAW CUT ENDWALL DETAIL



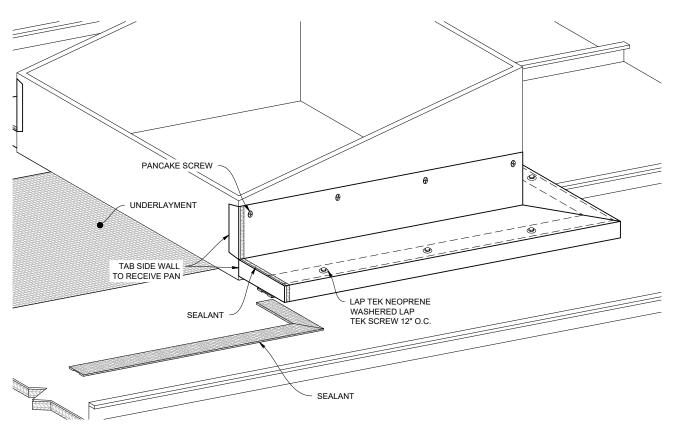


# **Curb Back Pan / Cricket**

STEP 1



STEP 2

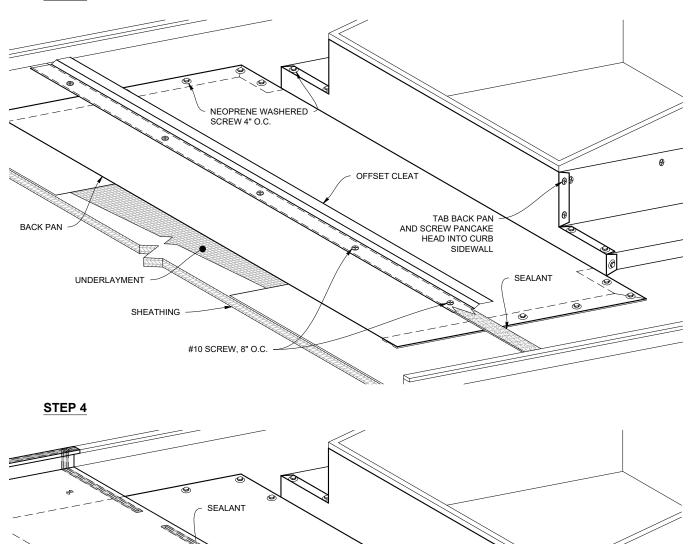


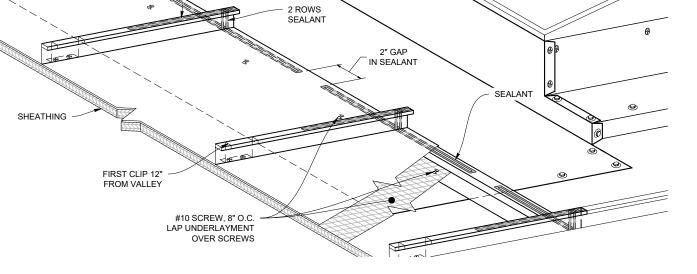
**Note:** All screws must be fastened into solid substrate. Flashing must be lapped 4" with 3 rows of gunnable sealant.

# **Curb Back Pan / Cricket**



STEP 3



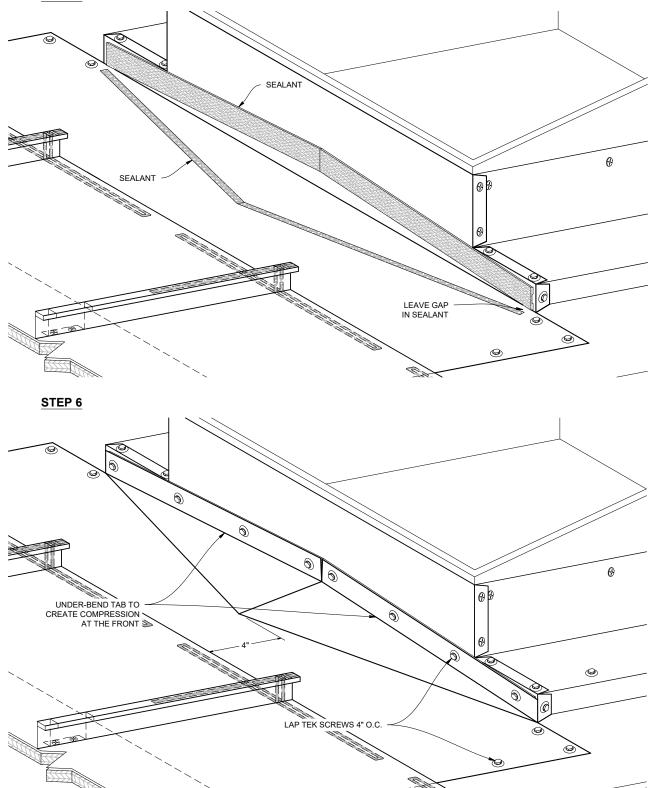


**Note:** All screws must be fastened into solid substrate. Flashing must be lapped 4" with 3 rows of gunnable sealant.



# **Curb Back Pan / Cricket**

STEP 5

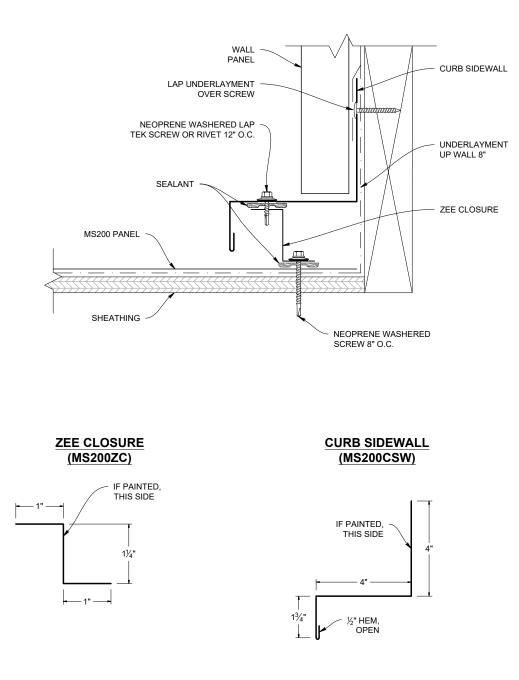


**Note:** All screws must be fastened into solid substrate. Flashing must be lapped 4" with 3 rows of gunnable sealant.

# **Curb Sidewall**

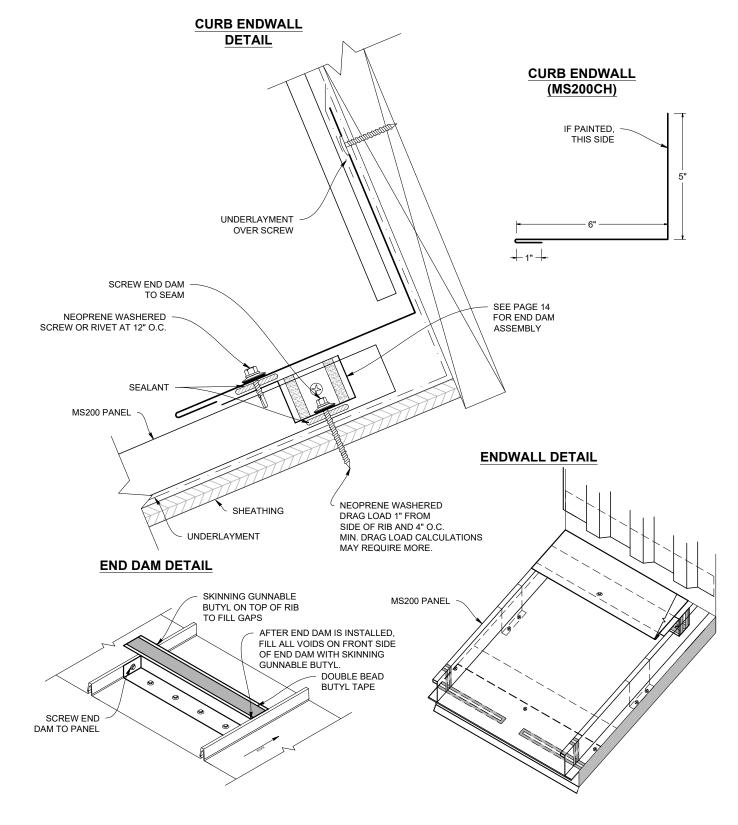


### CURB SIDEWALL DETAIL



# **Curb Endwall**

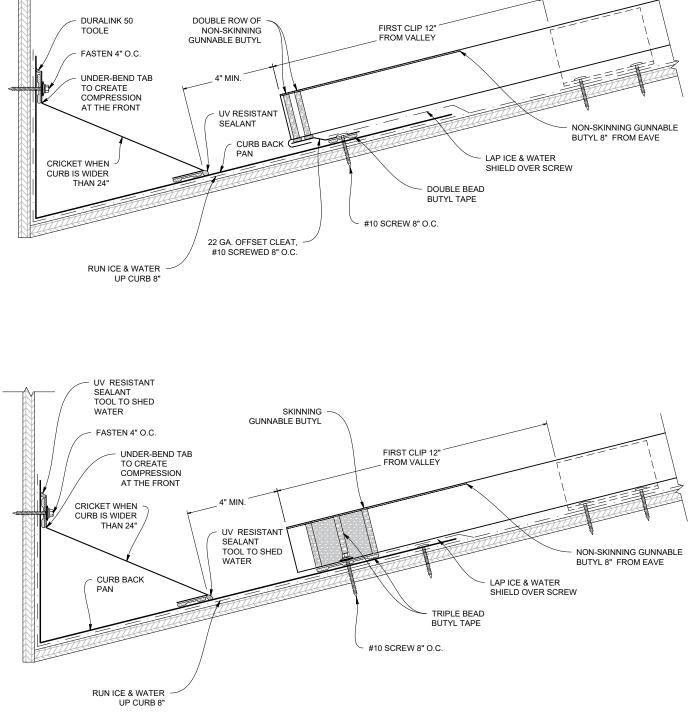




### Curb / Pan Cricket (Slope 3:12 or Greater)

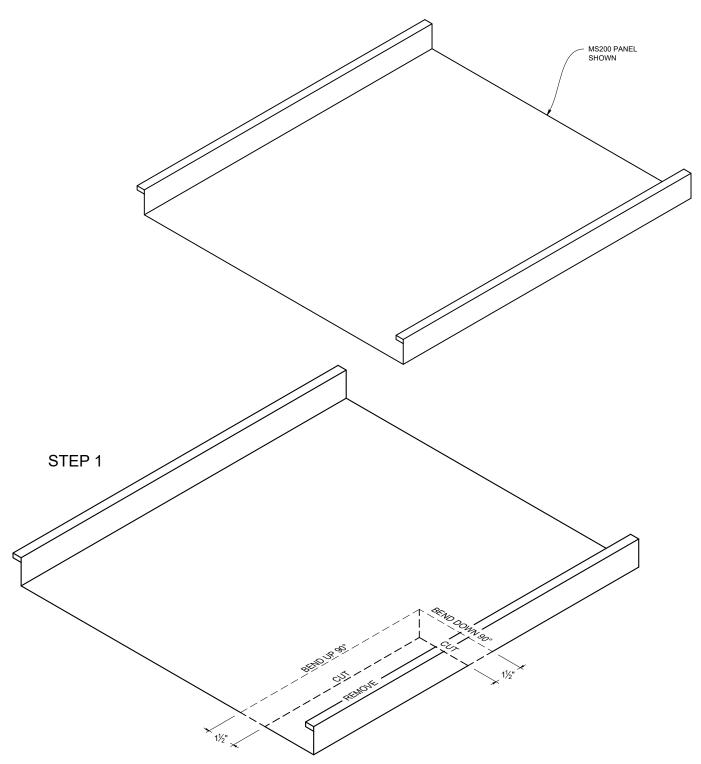








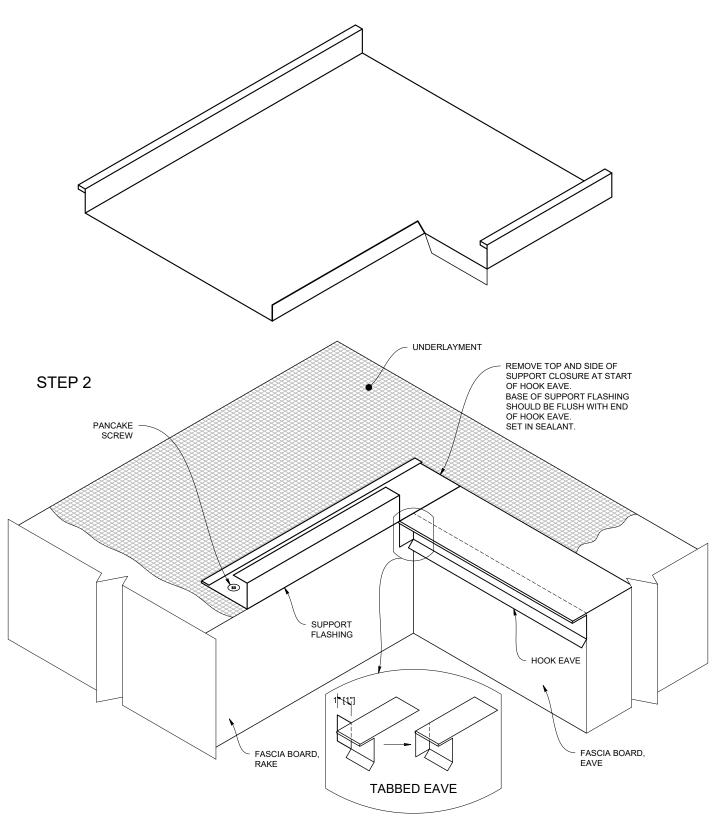




**Note:** All screws must be fastened into solid substrate. Flashing must be lapped 4" with 3 rows of gunnable sealant.

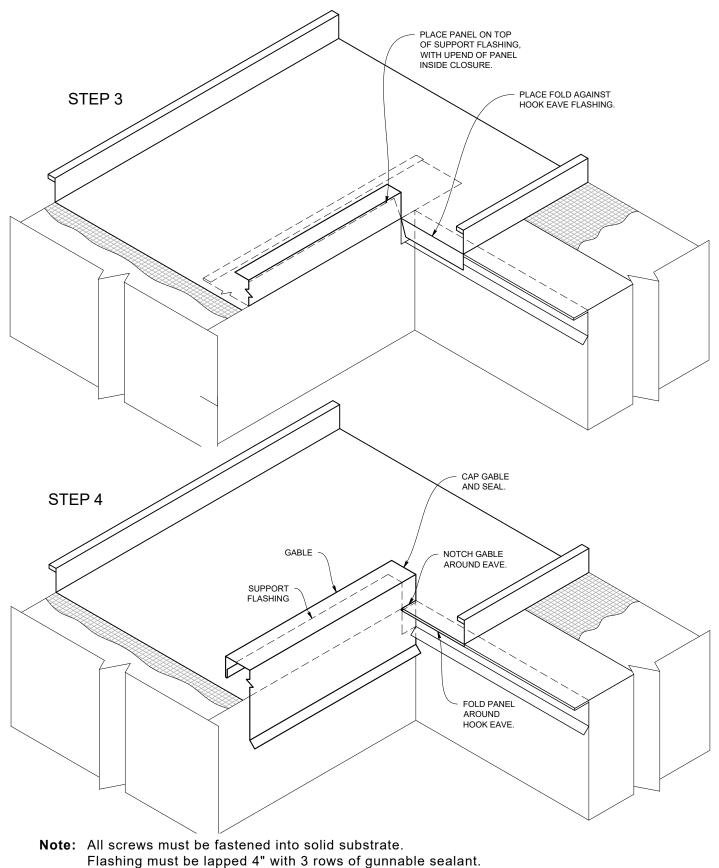
# **Eave to Gable Transition**







### **Eave to Gable Transition**

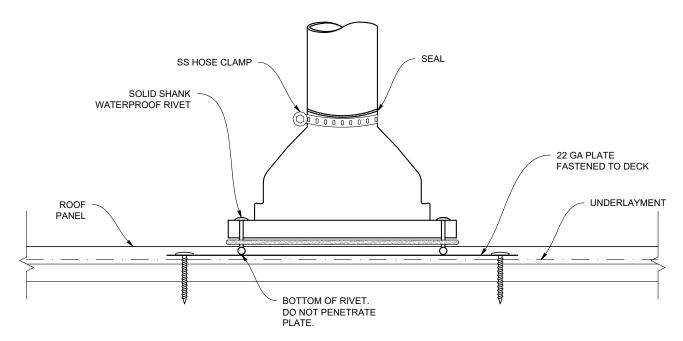


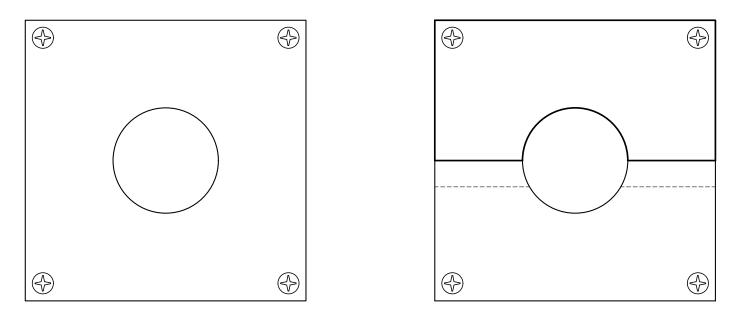
# **Pipe Penetration - on Plate**



#### FOR PIPES LOCATED 20' OR GREATER FROM PIN POINT

Allows panel and pipe flashing to move with temperature change.





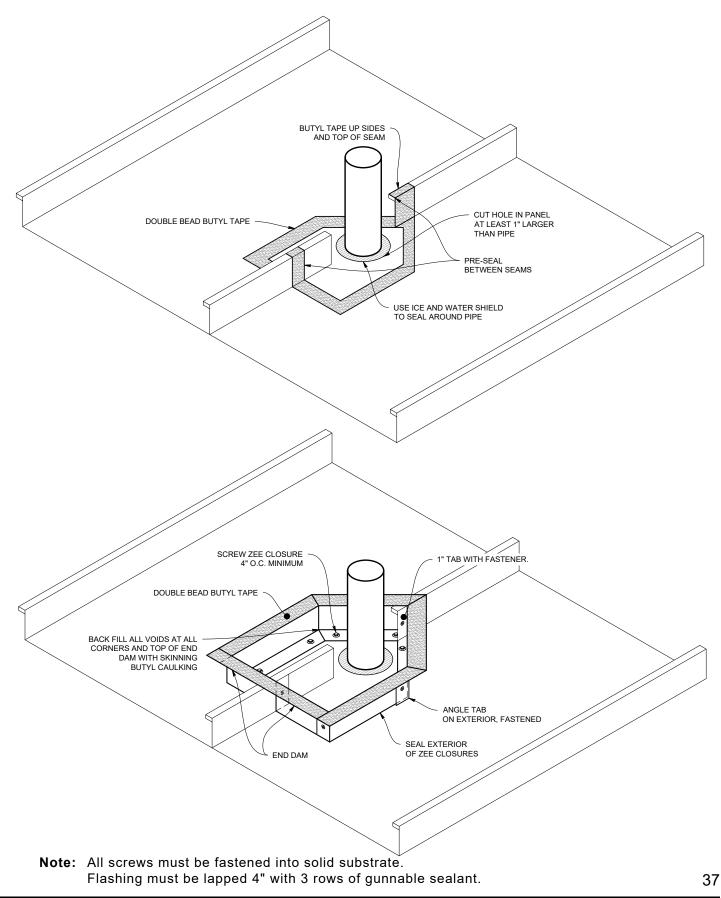
#### SINGLE 22 GAUGE PLATE

#### TWO OVERLAPPING 22 GAUGE PLATES

**Note:** All screws must be fastened into solid substrate. Flashing must be lapped 4" with 3 rows of gunnable sealant.

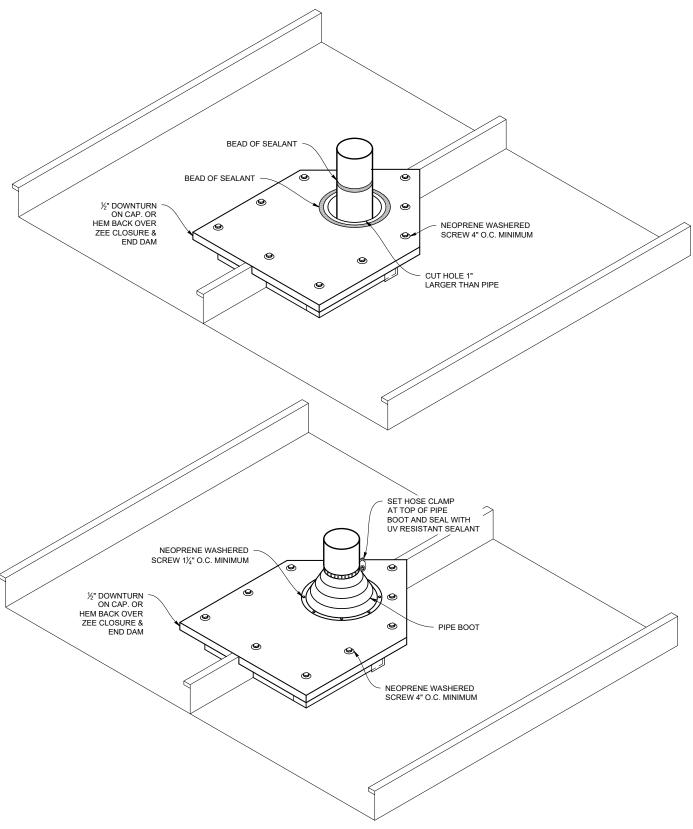


# **Pipe Penetration - on Rib**



# **Pipe Penetration - on Rib**

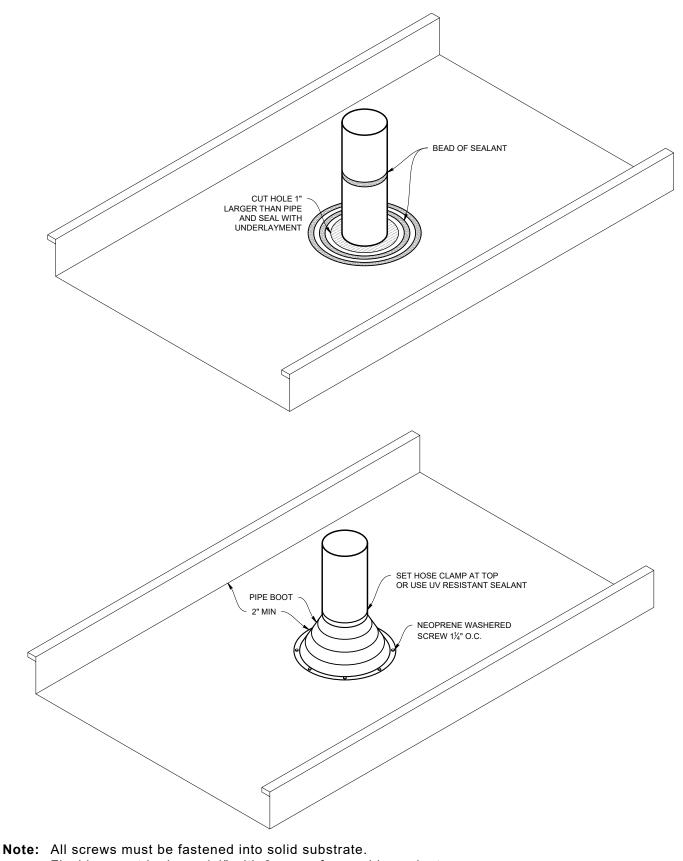




**Note:** All screws must be fastened into solid substrate. Flashing must be lapped 4" with 3 rows of gunnable sealant.

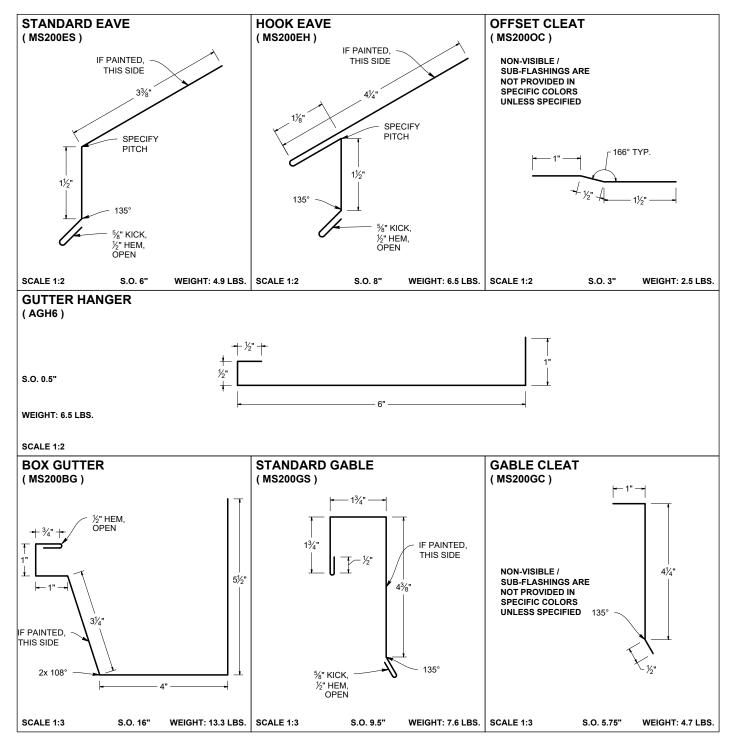


## **Pipe Penetration - on Pan**

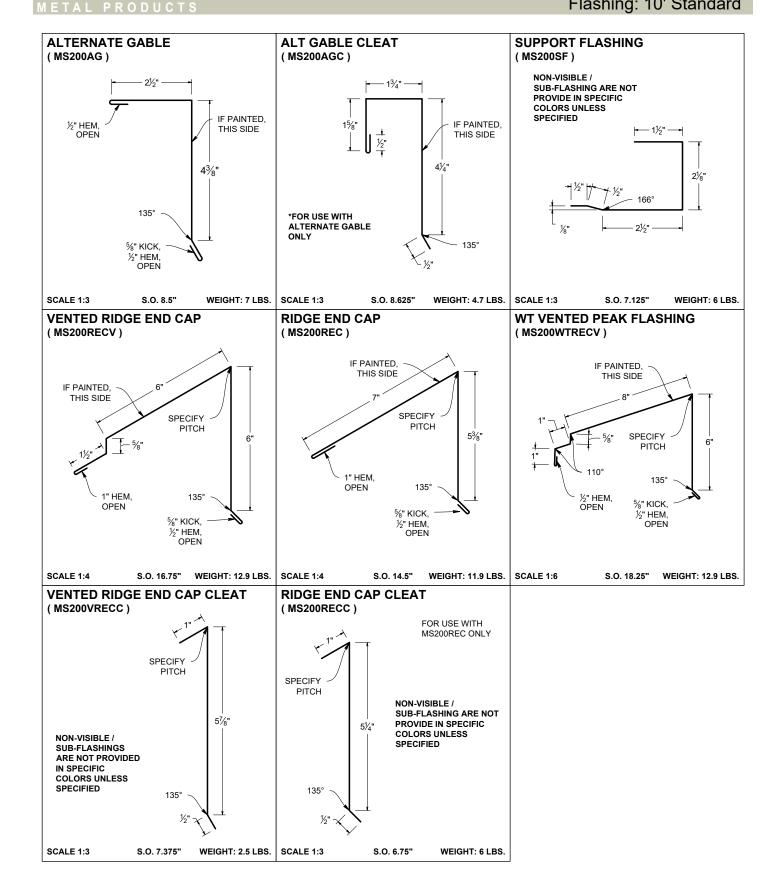


Flashing must be lapped 4" with 3 rows of gunnable sealant.



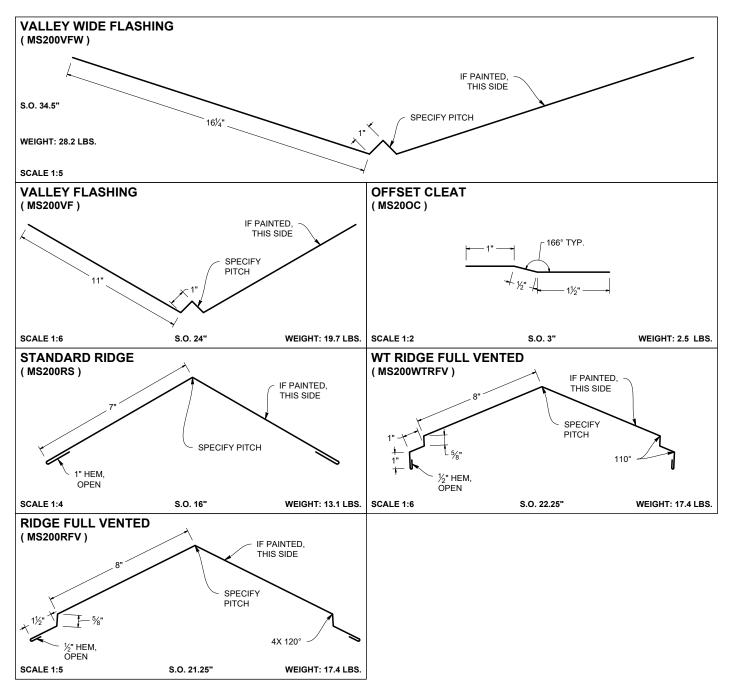


Flashing and Details Selection Flashing: 10' Standard

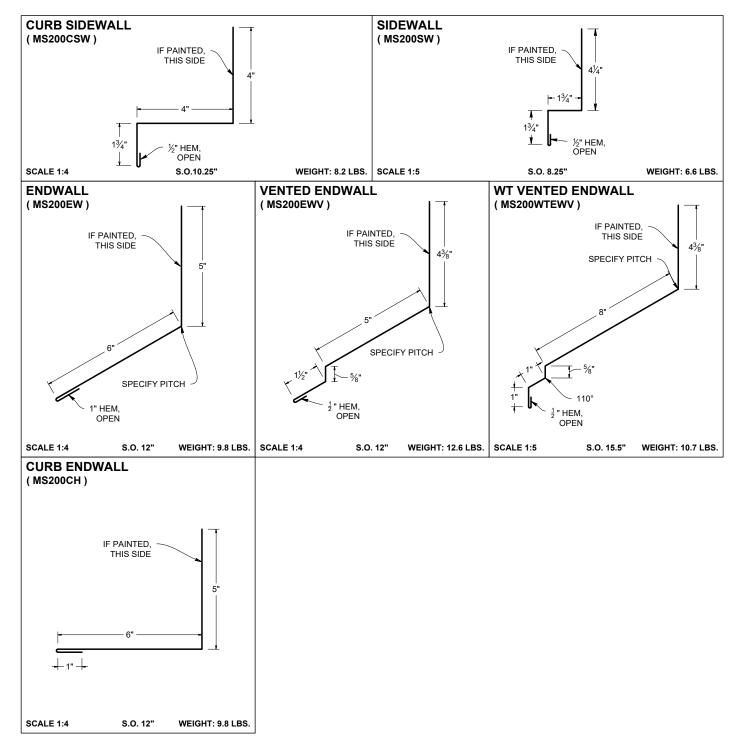


**LOR** 

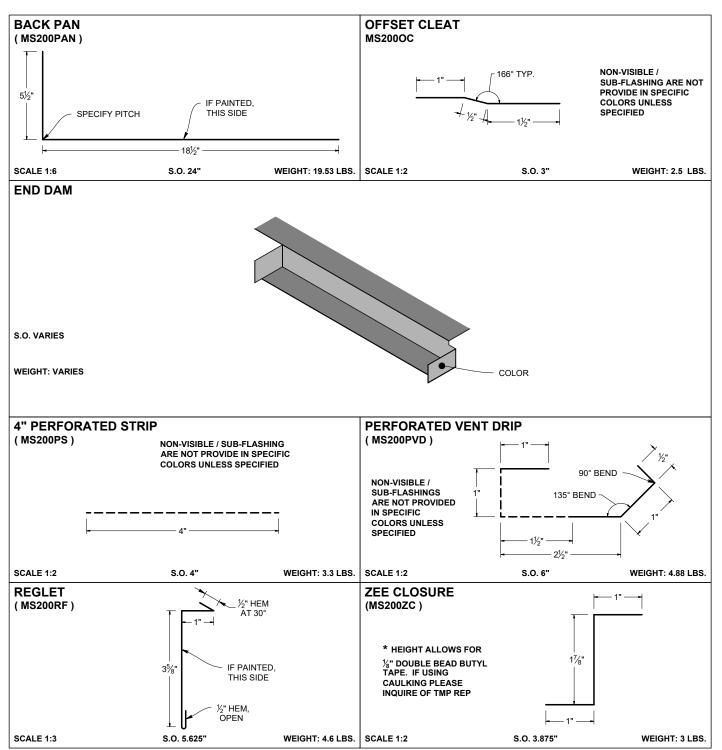












|  |   | Drdei  | r Fori   | m  | Inside Sal   | e:   |   |  |  |  |  |  |  |
|--|---|--|--|--|--|--|---|--|--|--|--|--|--|
| METAL PR   |   | ote  |  |  |  |  |   |  |  |  |  |  |  |
| WEIALFR  |   |  |  | _ Date:_   |  |  |   |  |  |  |  |  |  |
| Sold To:   |   |  |  |  |  |  |   |  |  |  |  |  |  |
| Order Contact:<br>Phone #:<br>Fax #:   | □ Resident  | <br><br>tial   | Day:   | Call<br>Comme  | Delivery Date:   |  |   |  |  |  |  |  |  |
| Standard Panels<br>are in Bold font<br>PBR<br>Marion "R" Par<br>Max Corr<br>2-1/2" Corrugat<br>Classic 7/8" Corr<br>GR-7<br>HR-34<br>T-3<br>Tuff-Rib | Aribs Striations L Notched? Y / N Notched? Y / N Notched AND Tabbed? Y / N Notched AND Tabbed? Y / N (REQUIRI Screw Concealer? Y / N (Standard for Ri 12" Easy-Lock* ted 16" Easy-Lock* | Flat (Flat<br>/ N Seala<br>ED together for Eas<br>bs and Striations)<br>ShadowLi<br>1/2" to<br>1"x12" Sn<br>1"x12" Liff<br>Choice:<br>/-Groove | nt? Y / N<br>yLock & StreamLine)<br>ne**(circle): <u>1</u> ", c<br>3" Reveal:<br>noothWall** | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 5 5/8" Slim-Lock*<br>2" MS-200*<br>4" MS-200*<br>6" MS-200*<br>2" MS-150*<br>6" MS-150*<br>0" MS-150*<br>3" MS-100*<br>7" MS-100*<br>ther Panel: | Color:<br>Pitch:<br>Gauge:<br>Dmatch:<br>Pallet: 10'<br>12" Versa-<br>14" Versa-<br>16" Versa-<br>18" Versa-<br>18" Versa-<br>18" Versa- | 20' 30'<br>Span*<br>•Span*<br>Span*<br>-Span* |  |  |  |  |  |  |
| Items *All Armor   | Slim-Lock, Easy-Lock, Lifetime Soffit, Smo<br>Tech StreamLine, T-3, Tuff Rib, GR7, PBR,   | , HR-32, Mario   | n "R", & Corruga   | ated flashings   | are 12'6"  |  | 1   |  |  |  |  |  |  |
| Quantity Lengt   | n Item Description  | Part #   | Quantity   | Length   | Item Desc  | ription  | Part #  |  |  |  |  |  |  |
|  |   |  |  |  |  |  |   |  |  |  |  |  |  |
|  |   |  |  |  |  |  |   |  |  |  |  |  |  |
|  |   |  |  |  |  |  |   |  |  |  |  |  |  |
|  |   |  |  |  |  |  |   |  |  |  |  |  |  |
|  |   |  |  |  |  |  |   |  |  |  |  |  |  |
|  |   |  |  |  |  |  |   |  |  |  |  |  |  |
|  |   |  |  |  |  |  |   |  |  |  |  |  |  |
|  |   |  |  |  |  |  |   |  |  |  |  |  |  |
|  |   |  |  |  |  |  |   |  |  |  |  |  |  |
|  |   |  |  |  |  |  |   |  |  |  |  |  |  |
|  |   |  |  |  |  |  |   |  |  |  |  |  |  |
|  |   |  |  |  |  |  |   |  |  |  |  |  |  |
|  |   |  |  |  |  |  |   |  |  |  |  |  |  |
| Forgetting Anythi<br>Underlayment?<br>4566 Ridge I   | ng?<br>Screws?<br>Dr NE • Salem, OR 97301 •   |  | ps?<br>81-6877 •   | Caulk<br>P: 503-5  | •  | Closures?<br>w.taylormeta  | l.com   |  |  |  |  |  |  |

## **Custom Trim Order**



| Customer Name: |        |      |        |           |         |        |         |        |       |          | Job Name: |            |       |       |   |  |  |  |  |
|----------------|--------|------|--------|-----------|---------|--------|---------|--------|-------|----------|-----------|------------|-------|-------|---|--|--|--|--|
| Gauge:         |        |      | _ C    | Color:    |         |        |         |        |       | Status:  |           | Original   |       | New   | , |  |  |  |  |
| Specify:       | □ Angl | es 🗆 | Color  | Side 🗆    | Dime    | nsions |         | Stre   | tchou | t        |           |            |       |       |   |  |  |  |  |
| so             |        |      |        |           |         |        | so      |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
|                | Dite   |      | # 01   | E Diagon: |         |        |         |        |       | Pitch:   | +         | t of Pioco | <br>  |       |   |  |  |  |  |
|                | Pitc   |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
| Descript       | ion:   |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
| Hems:          | Open   |      | Closed | Sligh     | ntly Op | en     | He      | ms:    | O     | pen 🗌 Cl | ose       | d 🗌 Sli    | ghtly | / Ope | n |  |  |  |  |
| so             |        |      |        |           |         |        | so      |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
|                |        |      |        |           |         |        |         |        |       |          |           |            |       |       |   |  |  |  |  |
| Dwg #:         | Pito   | :    | # of   | f Pieces: |         |        | Dw      | ′g #:_ |       | Pitch:   | _ #       | f Piece    | s:    |       |   |  |  |  |  |
| Descript       | ion:   |      |        |           | De      | scrip  | tion: _ |        |       |          |           |            |       |       |   |  |  |  |  |
| Hems:          | □Open  |      | Closed | Sligh     | ntly Op | en     | He      | ms:    |       | pen 🗌 CI | ose       | d 🗌 Sli    | ghtly | / Ope | n |  |  |  |  |

Please provide a drawing for each flashing with precise measurements and angles Fax to: 503-581-6877

|          |  |  |  |  |  |      |      |      |      |  |  | <br> |  |  |      |  |
|----------|--|--|--|--|--|------|------|------|------|--|--|------|--|--|------|--|
| ⊢        |  |  |  |  |  | <br> |      | <br> |      |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  | <br> |      | <br> | <br> |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  | <br> |      | <br> | <br> |  |  | <br> |  |  |      |  |
| ⊢        |  |  |  |  |  | <br> |      | <br> | <br> |  |  | <br> |  |  |      |  |
| $\vdash$ |  |  |  |  |  |      |      | <br> |      |  |  | <br> |  |  |      |  |
| ⊨        |  |  |  |  |  |      |      | <br> |      |  |  | <br> |  |  | <br> |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      | <br> |  |  |      |  |  |      |  |
|          |  |  |  |  |  | <br> |      | <br> | <br> |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  | <br> |      |      |      |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  | <br> | <br> | <br> | <br> |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  | <br> |      | <br> |      |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
| 1        |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
| $\vdash$ |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
| $\vdash$ |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
| $\vdash$ |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
| $\vdash$ |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
| $\vdash$ |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
| 1        |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |

|          |  |  |  |  |  |      |      |      |      |  |  | <br> |  |  |      |  |
|----------|--|--|--|--|--|------|------|------|------|--|--|------|--|--|------|--|
| ⊢        |  |  |  |  |  | <br> |      | <br> |      |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  | <br> |      | <br> | <br> |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  | <br> |      | <br> | <br> |  |  | <br> |  |  |      |  |
| ⊢        |  |  |  |  |  | <br> |      | <br> | <br> |  |  | <br> |  |  |      |  |
| $\vdash$ |  |  |  |  |  |      |      | <br> |      |  |  | <br> |  |  |      |  |
| ⊨        |  |  |  |  |  |      |      | <br> |      |  |  | <br> |  |  | <br> |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      | <br> |  |  |      |  |  |      |  |
|          |  |  |  |  |  | <br> |      | <br> | <br> |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  | <br> |      |      | <br> |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  | <br> | <br> | <br> | <br> |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  | <br> |      | <br> |      |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  | <br> |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
| 1        |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
| $\vdash$ |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
| $\vdash$ |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
| $\vdash$ |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
| $\vdash$ |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
| $\vdash$ |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
| 1        |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |
|          |  |  |  |  |  |      |      |      |      |  |  |      |  |  |      |  |



SALEM BRANCH 4566 Ridge Dr. NE Salem, OR 97301

Office: 503-581-8338 Toll Free: 1-800-574-1388 Fax: 503-581-6877 SACRAMENTO BRANCH 5711 Perrin Ave McClellan, CA 95652

Office: 916-318-8844 Toll Free: 1-800-574-1388 Fax: 916-993-4123 AUBURN BRANCH 2601 C St. SW Auburn, WA 98001

Office: 206-900-9923 Toll Free: 1-800-574-1388 Fax: 253-804-3545

RIVERSIDE BRANCH 4880 Felspar St. Riverside, CA 92509

Office: 323-407-7457 Toll Free: 1-877-504-1594 SPOKANE BRANCH 1010 N Nelson St Spokane, WA 99202

Office: 509-535-8667 Toll Free: 800-238-4057 Fax: 509-535-8682