Standard Details for Metal Roofing & Siding

Post Frame and Residential Structures
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**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.**
Installation Instructions

Building Design and Construction

In order to ensure the anticipated performance and longevity, protect metal panels from potentially corrosive situations and materials. When treated lumber will be in direct contact with metal panels or flashings please note the following: Galvanized steel is compatible with the CCA (Chromated Copper Arsenate) pressure-treated lumber that was predominantly used before 2004, but not with the older Penta treated lumber or the new ACQ (Alkaline Copper Quaternary), CA (Copper Azole), or CBA (Copper Boron Azole). Stainless steel or other special treated fasteners should be used into these non-compatible pressure treated lumber. Aluminum must be separated from contact with all treated wood since the soluble copper in the preservative is corrosive to aluminum. Likewise, dissimilar metals also require a protective barrier between them to prevent galvanic corrosion. Request FABRAL Technical Bulletin #803, 106, and 107 for more information on treated lumber and dissimilar metals.

Plastic, builder’s felt, bituminous paint, caulking, or gasket material may be used to separate panels from treated wood and dissimilar metals. When using aluminum panels in direct contact with steel, use a separator as described above and fasten with Stainless Steel screws.

Fertilizer, lime, acids, feeds, manure, soils, and many other compounds also cause corrosion in metal panels. Contact between metal panels and any potentially corrosive materials should be prevented.

Porous insulation materials may absorb and retain moisture, and should not be used in direct contact with metal panels. Use a vapor barrier such as polyethylene plastic or 30-lb felt to prevent moisture from contacting both the insulation and the metal panel.

FABRAL’s translucent panels are intended for siding applications only. In all situations, foot traffic should be avoided on translucent panels. Translucent panels used in roofing applications will break down in a short time and cause staining and premature corrosion of the metal panels below. If used on roofs, apply butyl caulking to separate the fiberglass panels from the metal. Translucent panels should be cleaned and sealed regularly, as recommended by the translucent panel manufacturer.

Purlins, Girts and Roof Deck

The substructure to which the metal panels are fastened must be properly spaced and sufficiently thick to provide a roof or wall system able to meet required design loads.

A 2” nominal lumber thickness provides the maximum pullout values for both screws and nails when the fasteners penetrate a minimum of 1” into the wood. Since 1” nominal lumber and solid decking are thinner, they provide somewhat lower pullout values. When using purlins, FABRAL recommends a minimum spacing of 24” on-center (note that 5V requires solid deck). Pullout values decrease if the fasteners protrude completely through the purlins. Kiln-dried softwood is recommended for purlins or decking (pine, fir, hemlock, and spruce). Hardwoods are difficult to fasten into without splitting and contain tannic acids that are corrosive to metal panels. Green (non-kiln-dried) lumber may warp, twist, and shrink as the wood seasons fully, causing waviness in the panels as well as loosening and leaking of the fasteners.

Solid decking is highly recommended for all residential applications. When using solid decking or sheathing, always use 30-lb felt or underlayment and plan on using closer fastener spacing and larger diameter #14 screws. (Refer to the tables on page 31).

On re-roofing projects where the condition of the old decking is in question, or where existing shingles will be left in place, new 2x4 purlins should be fastened through the decking and into the rafters. This will provide a solid framework for attaching the metal panels. For more detailed information on Re-roofing applications, consult FABRAL Technical Bulletin #721, Re-Roofing With Metal. Load tables are available for all FABRAL panels; contact FABRAL for additional information.

Roofing

Panel sidellaps should face away from wind driven rain. To accomplish this, begin by installing the first sheet square with the eave and gable at the downwind end of the roof, farthest away from the source of prevailing winds.

In applications requiring a panel endlap, please refer to the detailed instructions in this booklet. For best results, lap panels as shown and install in the indicated sequence. All endlaps require sealant. When weather-tightness is critical, use sealant tape in all sidellaps.

To provide a drip edge, allow an overhang of 1 to 2 inches at the eave. At the gable edge, use a gable or sidewall flashing. This will keep weather out, prevent lifting in high winds, and provide a neat, finished appearance. The trim and roofing sheet should be fastened every 12 to 24 inches along the gable edge.

Roof Pitch

The metal roofing panels shown in this manual require a minimum slope of 2/12 per foot to ensure proper drainage. Refer to the rain-carrying table in this booklet for the maximum allowable panel length per slope that will provide adequate drainage. For longer slopes and lower roof pitches, contact FABRAL for additional information.

Bending and Bowing

Aluminum roofing and siding sheets are rollformed from hardened, tempered metal for maximum strength. If a sheet must be bent, a gentle 90-degree bend is the maximum recommended. Metal should not be re-bent once it has been formed, nor should it be folded back on itself. When a metal roofing sheet must be installed on a curved roof, screws should be installed at every overlapping rib at the sheet ends to resist the natural tendency of the metal to spring back. The standard fastening pattern is permitted over the rest of the sheet. When installing the metal panels shown in this booklet over a curved arch, the minimum radius of the arch is 18’ for aluminum panels and 24’ for steel panels. Use sealant tape or butyl caulking at all sidellaps and endlaps. Additional care and fasteners must be provided when securing the top and bottom purlins on an arched rafter building to prevent the curved panels from pulling the purlins loose from the rafters. Ring-shank pole barn nails, heavy wood screws, lag screws, or bolts are often used for attaching these purlins.

Siding

Siding should be installed using the standard fastening and overlap patterns to ensure optimum performance. For strong, neat corners use hemmed corner flashings. Do not run siding sheets all the way to the ground. Instead, provide a protective base of concrete, masonry, treated wood, or similar material and terminate the siding sheets 6” above grade.
Installation Instructions

If siding sheets are installed horizontally, use sealant tape or butyl caulking at the vertical laps to ensure weather-tight joints. Install panels from the bottom up so that water is directed away from, and not into, the lap joints.

Fastening

FABRAL can supply either screws or nails for fastening into dimension lumber, with screws offering better pullout values. Always use screws with solid sheathing. Screws for use with steel panels are galvanized and then coated with an organic polymer for optimum corrosion resistance. For best results with aluminum panels, use #300 series stainless steel screws.

The FabrOseal® galvanized ring-shank nail, with its premium long-life silicone rubber gasket, assures a lasting seal and is the best nail available for steel panels when screws are not desired.

The correct way to fasten steel panels with nails is to drive the nail through the top of the rib so the washer is compressed securely against the metal. Nail placement must be in the ribs for roofing applications to minimize the potential for roof leaks. Over-driving the nail can split the washer and dimple the metal, causing leaks.

Endlap flashings a minimum of 6" and seal the lap joints with sealant.

Flashing and Trim

Always begin flashing installation from the bottom and work up, so that upper flashings are lapped on top of lower flashings. This will prevent moisture from leaking under the flashings and into the structure. Endlap flashings a minimum of 6" and seal the lap joints with sealant. Extend flashings 4-6" beyond the building, cut along the bend lines, apply sealant, and fold the side flaps in and the top flaps down to cap off the ends. Secure with pop-rivets or stitch screws.

Some roof conditions, such as valleys, may require a longer endlap and/or a larger flashing to properly drain moisture from the roof. Factors that influence flashing size, shape, and endlap requirements include roof pitch, roof geometry, slope length, and climatic factors (such as heavy snowfall or rainfall).

Whenever possible, begin trim installation at the downwind end of the roof, farthest away from the source of prevailing winds, to allow flashing laps to face away from wind-driven rain. Refer to the details in this book for the proper location of fasteners and sealants.

The flashings and trims shown in this book are standard parts. Custom trims are available to meet your specific design needs. If you need a special trim, please furnish a drawing of the desired shape, including dimensions and angles, to your Fabral dealer to obtain pricing and availability.

Fastening locations.

Refer to the SMACNA Architectural Sheet Metal Manual for additional information about detailing and installing flashings.

Safety

Always work safely when installing metal products and use extreme caution on the roof at all times. Wear gloves and safety glasses to reduce the risk of injury, and use hearing protection when operating power tools. Always be sure that ladders are safely positioned and properly secured. Safety harnesses or other special equipment may be required; be sure to Consult OSHA guidelines for compliance with all safety requirements.

Do Not walk on panels until all the fasteners are installed. Metal roofing panels are slippery when wet, dusty, frosty, or oily -- Do Not attempt to walk on a metal roof under these conditions. Wear soft-soled shoes to improve traction and to minimize damage to the paint finish. Always be aware of your position on the roof relative to any roof openings, roof edges, co-workers, and penetrations. Installing metal panels or flashings on a windy day can be dangerous and should be avoided if possible.

Cutting Aluminum Panels

To make a cut parallel to the ribs, score the panel deeply with a sharp utility knife and bend back-and-forth along the score, breaking the metal off cleanly. For cuts across the ribs, use straight-cut snips, electric or pneumatic shears, a portable profile shear, or an electric nibbler. Some installers prefer using a circular saw with a metal cutting blade (a fine-tooth hardwood blade, or a standard combination blade reversed in the saw works also). Light oil or soap on the blade will make cutting easier.

Cutting and Drilling Steel Panels

Steel panels may be cut with metal snips, electric or pneumatic shears, a portable profile shear, or an electric nibbler. Some installers prefer using a circular saw to cut metal panels. Do Not use self-consuming abrasive blades because of the following: 1. Abrasive blades burn the paint and galvanizing at the cut edge, leaving edges that are jagged and unsightly and rust more quickly 2. Abrasive blades produce hot metal filings that embed in the paint and cause rust marks on the face of the panel 3. All saw cut panels must be turned face down and cut in a location down-wind and well away from the building and other panels to avoid embedment of metal filings on other panels 4. All saw cut panels must be thoroughly wiped to ensure the removal of all metal filings. If saw cutting cannot be avoided, select a carbide-tipped blade specially designed for cutting light-gage ferrous metal panels. These blades are now available at many home centers and lumber yards. Pre-drilling wall panels gives uniform alignment of screw rows. Be sure to remove drill filings once panels are installed to avoid rust marks from the filings.

Building Maintenance

A metal roof should be inspected annually and cleaned as necessary to maintain its beauty and performance. Any debris or residue, including leaves, twigs, and dust should be cleaned off promptly to prevent moisture entrapment against the metal, which may lead to finish deterioration or premature corrosion. Flashings may need to be re-sealed periodically in order to maintain optimum weathertightness.
Paint System & Warranties

Enduracote™ is a paint system that takes performance to the next level. Based on cutting edge resin technology, this system offers unbeatable durability and superior long-term performance against the elements.

The Enduracote™ Warranty
- Lifetime film integrity for walls & roofs
- 30-year against fade & chalk
- 10-year edge rust against acid rain
For profiles: Grand Rib 3®, Alu-Tuff II, 5V Crimp, ProClad, StrongClad, Mighti-Rib®

The Enduracote™ PLUS Warranty
- Lifetime film integrity for walls & roofs
- 30-year against fade & chalk
- 15-year edge rust against acid rain
- 25-year non-perforation against acid rain
for walls; 20-years for roofs
For profiles: Grand Rib 3® PLUS, Alu-Tuff, 1 1/2” SSR, Climaguard™

Example Warranty Form

Example of the Grand Rib 3® layer system

Other Warranties

Polyester Paint Warranty
- 25-year limited film integrity
- 10-year against fade & chalk
For profiles: MP Panel, Shelterguard®, 5-Rib

Aluminum-Zinc Alloy Warranty
- 20-year limited non-perforation
For Bare Galvalume® Products

Aluminum Product Guarantee
- 30-year corrosion guarantee

The Energy Star® Program
The Energy Star Program promotes highly reflective roof systems that reflect solar energy. These roof systems allow buildings to stay cooler and, in turn, use less electricity for air conditioning; less electricity means a reduction in power generation and a reduction of pollutants discharged at power plants. Fabral has attained Energy Star approval for many of its Enduracote™ system colors. Ask for Technical Bulletin #724 titled “Energy Star Approval”, for program details and a list of approved Enduracote™ colors.

Please contact your Fabral representative for more information about Fabral warranties and paint systems.
Steel Panel Profiles

Grandrib 3®
29 Gauge steel, Plain, and Painted Galvanized

MP Panel

37 3/4" FORMED WIDTH
36" COVERAGE

Alu-Tuff

37 3/4" FORMED WIDTH
36" COVERAGE

Correct Sidelap
For Alu-Tuff, Grandrib 3, and Multi-Purpose Steel Panels.

Screw Patterns

Intermediate Roof Purlins and All Siding
Eaves and Endlaps - Roof Purlins

Nail Patterns

All Supports

Fastener Usage: 80 screws per square or 1 pound of nails per square

5V Crimp
Use on Solid Decking

1 1/4" Corrugated

5

*Not all profiles are available in all areas. Please contact Fabral for availability.
Steel Panel Profiles

2 1/2" Corrugated

2.667”

21 1/2” COVERAGE (ROOFING)

24” COVERAGE (SIDING)

1/2”

NAIL PATTERN

ROOFING - EAVES, RIDGES, AND ENDLAPS
ROOFING - INTERMEDIATE SUPPORTS
SIDING - ALL SUPPORTS

SIDING - ALL SUPPORTS

SCREW PATTERN

ROOFING - EAVES, RIDGES, AND ENDLAPS
ROOFING - INTERMEDIATE SUPPORTS

1/2”

ROOFING - INTERMEDIATE SUPPORTS

38 3/8” FORMED WIDTH
36” COVERAGE

5/8”

Intermediate Roof Purlins and All Siding

Eaves and Endlaps - Roof Purlins

*Not all profiles are available in all areas. Please contact Fabral for availability.

Other Steel Profiles Available

1 1/2” SSR
24 Gauge Standing Seam Roofing

Mighti-Rib®
26 Gauge Roofing & Siding

Climaguard™
26 Gauge Roofing

Grandbeam®
26 Gauge Roofing & Siding

*The panels above are available at certain locations and have their own particular details, flashings, and accessories. Please contact Fabral for more information.
Aluminum Panel Profiles

Grandrib 3

3/4" ROOFING - EAVES, RIDGES, AND ENDLAPS
37 3/4" FORMED WIDTH
36" COVERAGE
9" ROOFING - INTERMEDIATE SUPPORTS
SIDING - ALL SUPPORTS

Alu-Tuff

3/4" ROOFING - EAVES, RIDGES, AND ENDLAPS
37 3/4" FORMED WIDTH
36" COVERAGE

Strongrib

.018 Aluminum, Plain, and Painted White

2 1/2" CORRUGATED

Fabrib

.0155 and .018 Aluminum, Plain, and Painted White

AluTwin

2 1/2" CORRUGATED

*Not all profiles are available in all areas. Please contact Fabral for availability.
Post Frame Estimating & Roof Types

Estimating Metal Roofing, Siding & Flashings

Panel lengths are to be determined by the truss top chord or actual field measurements. Remember to add for overhangs at the eaves; subtract for a gap at the ridge. Siding should be kept up away from the ground with a skirt board.

Number of Panels

The coverage of the panel being used will determine the number of panels at a length (i.e.: 3’ coverage panel on a 30 ft. long building would require 10 panels on each side of the ridge or 20 panels at the particular length.)

Horizontal Measurement to a Roof

Divide the building width in half, then multiply by the slope factor (i.e.: 40’ wide building with 4/12 slope. 40 divided by 2 equals 20’ times 1.054 equals 21’-1” in slope dimension.) Allow for 1/2” to 1” gap at peak and 1” to 2” eave overhang.

<table>
<thead>
<tr>
<th>Roof Pitch</th>
<th>Slope Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/12</td>
<td>1.031</td>
</tr>
<tr>
<td>4/12</td>
<td>1.054</td>
</tr>
<tr>
<td>5/12</td>
<td>1.083</td>
</tr>
<tr>
<td>6/12</td>
<td>1.120</td>
</tr>
<tr>
<td>8/12</td>
<td>1.202</td>
</tr>
<tr>
<td>10/12</td>
<td>1.302</td>
</tr>
<tr>
<td>12/12</td>
<td>1.414</td>
</tr>
</tbody>
</table>

Flashing Conditions

Roof - Eave, Ridge, Gable, Sidewall, Endwall, Valley, Hip, Transition, Gambrel, Soffits
Siding - Base Perimeter, Corners, Inside Corners, Man Doors, Windows, Sliding Doors, Overhead Doors

Please contact Fabral’s Engineering Department for all your estimating & specification needs.

1-800-916-1413
1-800-322-1030 Fax
Standard Post Frame Flashing/Trims

All flashing is 10’ 6” in length & available in steel & aluminum, unless otherwise noted. Please contact Fabral for specifics on the trim available in your area.

AJ6
Jamb Trim
(for 2x wood)

AR3
Ridge Cap

AR3 w/ VersaVent RX-10
Ridge Cap
Grandrib 3 & Alutuff net free area = 10.66 sq. in. per lineal feet of ridge (5.33 per side)

AG1
Gable/Rake
Aluminum 10’
Steel 10’ Standard
14’ in select colors

AJ6
Jamb Trim
(for 2x wood)

AR3
Ridge Cap

AR3 w/ VersaVent RX-10
Ridge Cap
Grandrib 3 & Alutuff net free area = 10.66 sq. in. per lineal feet of ridge (5.33 per side)

AG1
Gable/Rake
Aluminum 10’
Steel 10’ Standard
14’ in select colors

RR1
Universal
Ridge/Hip
Flash
Steel Only
Customer to specify roof pitch

AE1
Eave Flash

AR3 w/ VersaVent RX-10
Ridge Cap
Grandrib 3 & Alutuff net free area = 10.66 sq. in. per lineal feet of ridge (5.33 per side)

AR3 w/ VersaVent RX-10
Ridge Cap
Grandrib 3 & Alutuff net free area = 10.66 sq. in. per lineal feet of ridge (5.33 per side)

AE1
Eave Flash

AR3 w/ VersaVent RX-10
Ridge Cap
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AR3 w/ VersaVent RX-10
Ridge Cap
Grandrib 3 & Alutuff net free area = 10.66 sq. in. per lineal feet of ridge (5.33 per side)
Standard Post Frame Flashing/Trims

AGRN4
For Grandrib 3 40\(^{2}\) Length
Notched Gambrel Flash

RV1
Valley Flash
Customer to specify roof pitch

RV2
W-Valley Flash
Steel Only
Customer to specify roof pitch

AT1
Transition Flash
Typical for 8/12 to 4/12
(otherwise specify pitches)
Steel Only

AB1
Soffit Box
Net free area = 22.9 sq. in. per lineal ft. of soffit
(Vented available in white steel only)

AB2
Soffit Box
Net free area = 22.9 sq. in. per lineal ft. of soffit
(Vented available in white steel only)

AB3
Soffit Box
Net free area = 22.9 sq. in. per lineal ft. of soffit
(Vented available in white steel only)

AB4
Soffit Box
Net free area = 22.9 sq. in. per lineal ft. of soffit
(Vented available in white steel only)

ASW1
Sidewall/Endwall Flash

AEWN4
For Grandrib 3 40 1/4" Length
Notched Endwall Flash

Notched

AT1
Transition Flash
Typical for 8/12 to 4/12
(otherwise specify pitches)
Steel Only
Standard Post Frame Flashing/Trims

**AC4**
Corner
Steel Only

**AD1**
Drip Cap

**AJ5**
Jamb Trim
Steel Only
(For 4x wood)

**AH4**
10'-8" Length
Face-Mount Track
Cover for Cannonball
Track with 1" Track
Plank Matches
Cannonball Trim
#646224

**AH2**
10'-6" Length
Fits National 5110 &
59 bo rail. Matches
National trim #5122

**AH6**
10'-6" Length
Fits National Top-Mount
#5433 Rail with #5436
Bracket or National
Top-Mount #5460 Rail with

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**Post Frame Flashing Details**

**BOX GABLE**

2" LONG FASTENER @ 24" C/C MAX

ROOFING

SEALANT TAPE

ROOF PURLIN

END RAFTER

SEALANT TAPE

TOP & BOTTOM

OF CLOSURE

OUTSIDE CLOSURE

(OPTIONAL)

1"x6" FASCIA

FASTENER @ EVERY

MAIN RIB OR

12" C/C MAX.

7 1/2" OR 11 3/4"

SIDING

FLASH AG-1

FLASH AB-1, AB-2,
AB-3, OR AB-4

SEALANT TAPE

SEALANT TAPE

FASTENER

24" C/C MAX
Post Frame Flashing Details

**ENDLAP**

1. Apply 3/32" x 1/2" butyl endlap sealant on bottom panel just below centerline of purlin (see endlap diagram for location) on panel #1.
2. Apply sidelap sealant on panel #1 and connect to endlap sealant.
3. Place panel #2 so it overlaps panel #1, 12" as shown. Install screws per endlap fastening pattern.
4. Apply sidelap sealant on panel #2 to connect to sidelap sealant of panel #1.
5. Place panel #3 over sidelap of #1 and #2.
6. Apply endlap sealant on panel #3.
7. Apply sidelap sealant on panel #3 and connect with endlap sealant.
8. Place panel #4 over endlap of panel #3. Install screws per endlap pattern.
9. Repeat sequence for entire roof.

**ALLOWABLE PANEL LENGTHS (ft.) ALONG THE SLOPE FOR 4” RAINFALL PER HOUR**

<table>
<thead>
<tr>
<th>Panel Name</th>
<th>Minimum Slope</th>
<th>2 1/2:12</th>
<th>3:12</th>
<th>3 1/2:12</th>
<th>4:12</th>
<th>5:12</th>
<th>6:12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alu-Tuff</td>
<td>2 1/2:12</td>
<td>58</td>
<td>61</td>
<td>64</td>
<td>67</td>
<td>73</td>
<td>78</td>
</tr>
<tr>
<td>Grandrib 3</td>
<td>2 1/2:12</td>
<td>58</td>
<td>61</td>
<td>64</td>
<td>67</td>
<td>73</td>
<td>78</td>
</tr>
<tr>
<td>Prime Rib</td>
<td>2 1/2:12</td>
<td>39</td>
<td>41</td>
<td>43</td>
<td>45</td>
<td>49</td>
<td>53</td>
</tr>
<tr>
<td>5V</td>
<td>2 1/2:12</td>
<td>43</td>
<td>45</td>
<td>47</td>
<td>49</td>
<td>54</td>
<td>58</td>
</tr>
<tr>
<td>2 1/2&quot; Corrugated</td>
<td>2 1/2:12</td>
<td>28</td>
<td>29</td>
<td>31</td>
<td>32</td>
<td>35</td>
<td>38</td>
</tr>
<tr>
<td>1 1/4&quot; Corrugated</td>
<td>2 1/2:12</td>
<td>16</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>Alutwin</td>
<td>2 1/2:12</td>
<td>37</td>
<td>39</td>
<td>41</td>
<td>43</td>
<td>46</td>
<td>50</td>
</tr>
<tr>
<td>Fabrib</td>
<td>2 1/2:12</td>
<td>32</td>
<td>34</td>
<td>36</td>
<td>38</td>
<td>41</td>
<td>44</td>
</tr>
</tbody>
</table>

**Notes For Rain-Carrying Tables**

1. All values based on a 1-hour duration storm of 4"/hr. intensity.
2. Values represent the point at which the panel ribs will flood.
3. Size and frequency of penetrations can greatly reduce the amount of water removed from a roof.
4. All panel endlaps must be caulked.
5. When weather-tightness is critical, use sealant tape in all sidelaps.
Post Frame Flashing Details

EAVE

Inside Closure
Roof Panel

Flash Ce-1
Sealant Tape Top & Bottom of Closure
Fastener @ Every Rib or 12" C/C Max.
Outside Closure (Optional)
Siding
Fastener

Box Eave

Fastener Per Standard Eave Pattern
Modified Al-2
Fastener @ 24" C/C Max.

Flash Ab-1, Ab-2, Ab-3, or Ab-4 as Required
Sealant Tape Top & Bottom of Closure
Inside Closure
Eave Purlin
Fascia Board

Post Frame Flashing Details

Provides 8" or 12" Overhang with Grandrib 3, Alu-Tuff, or Strongrib Siding
If closures are omitted, Fabral suggests using screen wire between panels and ridge gap area to keep insects and birds out of attic area. Closures and sealant are recommended for optimum weather resistance.
VersaVent RX-10 Factory Applied To Ridge Cap
Vent Material and Ridge Cap Install As A Unit

ALTERNATE VENTED RIDGE

Fabral RR-1 Ridge Flash with CoraVent (shown). The RR-1 can be modified to fit many other solid, plastic vents. Other solid, plastic vents (ie..Ridge Master,...) are available from local lumberyards or dealers. The metal ridge flashing may have to be customized to fit the particular vent. Mesh vents or fiber-type vents are not recommended because a metal ridge can not be fastened securely. They are not rigid enough to give good support or appearance to the metal flash. Coravent is available from Fabral.

2" TO 4" OR AS REQUIRED BY VENT MANUFACTURER
Profile Vent is pre-notched and self adhesive. Fabral stocks Profile Vent for Grandrib 3, Alu-Tuff, and 5v Crimp.

GABLE - STRONGRIB, GRANDRIB 3

FLASH AG-1

OPTIONAL SEALANT TAPE
TOP & BOTTOM OF CLOSURE

FASTENER @ 24" C/C MAX

SEALANT TAPE

END RAFTER

OUTSIDE CLOSURE (OPTIONAL)

SIDING

2" FASTENER @ 24" C/C MAX.
Post Frame Flashing Details

GABLE - FABRIB

FLASH AG-4

OPTIONAL SEALANT TAPE TOP & BOTTOM OF CLOSURE

FASTENER @ 24” C/C MAX

ROOFING

SEALANT TAPE

PURLIN

END RAFTER

OUTSIDE CLOSURE (OPTIONAL)

SIDING

GABLE - GRANDRIB 3, STRONGRIB

FLASH AC-1 OR AC-4

OPTIONAL SEALANT TAPE TOP & BOTTOM OF CLOSURE

FASTENER @ 24” C/C MAX

ROOFING

SEALANT TAPE

PURLIN

END RAFTER

OUTSIDE CLOSURE (OPTIONAL)

SIDING
Post Frame Flashing Details

FLYING GABLE DETAIL

FASTENER

ROOF FELT

SEALER STRIP
(APHALT IMPREGNATED)

BUTYL SEALANT TOP AND BOTTOM OF SEALER STRIP

CE1

FASCIA BOARD
**Post Frame Flashing Details**

**ENDWALL**

- FASTENER PER STANDARD EAVE PATTERN
- 2" FASTENER @ EVERY MAIN RIB OR 12" C/C MAX.
- SEALANT TAPE TOP & BOTTOM OF CLOSURE
- INSIDE CLOSURE

**ENDWALL - NOTCHED**

- FASTENER PER STANDARD EAVE PATTERN
- 2" FASTENER @ EVERY MAIN RIB OR 12" C/C MAX.
- NOTCHED FLASH AEW-N4 OR AEW-N5
- SEALANT TAPE TOP & BOTTOM OF CLOSURE
POST FRAME FLASHING DETAILS

SIDEWALL

SEALER STRIP WITH BUTYL SEALANT TAPE

SIDING

FASTENER PER STANDARD EAVE PATTERN

SPACE AS REQUIRED

FLASH ASW-1 FIELD BEND AS REQUIRED

SLOPING RAFTER

SEALANT TAPE

2" FASTENER @ 24" C/C MAX.
PURLIN

SIDEWALL

NOTE: VALLEY FLASH MUST HAVE SOLID SUPPORT.

FOR ADDITIONAL INFORMATION ON THE VALLEY DETAIL REFER TO PAGES 42 AND 43 OF THIS BOOK.
Post Frame Flashing Details

GAMBREL

NOTE: Specify both roof pitches for AT-2 flash. AGRN-4 for Grandrib 3 and AGRN-5 for Strongrib are for 3/12 to 15/12 Gambrel's.

TRANSITION

NOTE: Specify both roof pitches when ordering AT-1. Standard is 9/12 to 3/12.
POST FRAME FLASHING DETAILS

OUTSIDE CORNER

- SEALANT TAPE
- FLASH AC-3 *
- POST
- GIRT
- SIDING
- 2" FASTENER THROUGH PANEL RIB @ 24" C/C MAX.

* Available in Lancaster service area only.

OUTSIDE CORNER

- SEALANT TAPE
- WALL GIRT
- POST
- SIDING
- FASTENER @ 24" C/C MAX.
- FLASH AC-1 OR AC-4
Post Frame Flashing Details

INSIDE CORNER

- GIRT
- FASTENER @ 24" C/C MAX.
- FLASH AC-2
- POST
- SEALANT TAPE

BASE GUARD

- BARRIER BETWEEN METAL AND ACQ TREATED LUMBER
- TREATED BASE PLANK
- FLOOR
- 4"
- 6" MIN.
- FLASH ABG-1
- GRAGE
- SANDING PANEL
- INSIDE CLOSURE (OPTIONAL)
- FASTENER PER STANDARD SIDING PATTERN
Post Frame Flashing Details

DOOR JAMBS

FLASH PJFB

FLASH AL-2, AL-3, AL-4, AL-5, OR AL-7 DEPENDING ON WIDTH OF JAMB

FLASH AJ-3

FIELD BEND OR CUT THIS AREA IF NECESSARY

FLASH AJ-2
OVERHEAD DOOR JAMBS

FIELD BEND OR CUT THIS AREA IF NECESSARY

- DOOR
- 1 x 3 GUIDE
- FLASH AL-5 OR AL-7
- FASTENER
- SEALANT TAPE
- FLASH AJ-4

DOOR JAMB

- POST
- GIRT

SIDING

- FASTENER

DOOR OPENING

OVERHEAD DOOR JAMBS

- DOOR
- 1 x 3 GUIDE
- FLASH AL-3, AL-4, AL-5 OR AL-7
- SEALANT
- FLASH AJ-3

DOOR JAMB

- GIRT

SIDING

- FASTENER

DOOR OPENING

OVERHEAD DOOR JAMBS

- DOOR
- 1 x 3 GUIDE
- POST
- GIRT

SIDING

- FASTENER

DOOR OPENING

OVERHEAD DOOR JAMBS

- DOOR
- 1 x 3 GUIDE
- FLASH AJ-2

SIDING

- FASTENER

DOOR OPENING
**Post Frame Flashing Details**

**DOOR HEADER**

- **SIDING**
- **DOOR HEADER**
- **FASTENER PER SIDING PATTERN**
- **FLASH AD-1**
- **DOOR STOP**
- **MAN DOOR**
- **OVERHEAD DOOR**
- **FLASH AL-2, AL-3, AL-4, AL-5 OR AL-7**

**SLIDING DOOR JAMB DETAIL**

- **POST**
- **WALL GIRT**
- **AJ-4 JAMB TRIM**
- **OPTIONAL AL-3 TRIM**
- **2 x 2 FILLER BLOCK**
- **SIDING PANEL**
- **FLASH AL-6**
- **SEALANT TAPE**
- **FLASH AJ-3**
- **FASTENER**
- **SLIDING DOOR**
- **SIDING**
**Post Frame Flashing Details**

**SLIDING DOOR HEADER DETAIL**

- SIDING
- TRACK SUPPORT
- 2x6 TRACK BOARD
- 2x2 FILLER BLOCK
- SIDING BEYOND OPENING
- TREATED BASE PLANK
- FLASH AH-2, AH-3 (SHOWN), AH-4, OR AH-5. REFER TO PAGE 11 FOR CORRECT FLASHING FOR PARTICULAR MANUFACTURER'S DOOR TRACK BEING USED.
- SIDING ON SLIDING DOOR
- DOOR GIRT
- AD-1 OR BOTTOM RAIL FROM DOOR MFR.

**TRANSULCENT PANEL**

- SEALANT TAPE TOP & BOTTOM OF CLOSURE
- FASTENER PER STANDARD PATTERN
- FLASH AZ-2
- FASTENER @ EVERY MAIN RIB OR 12” C/C MAX.
- SEALANT TAPE TOP & BOTTOM OF CLOSURE
- METAL SIDING OR TRANSLUCENT PANEL
- INSIDE CLOSURE (OPTIONAL)
- GIRT
- OUTSIDE CLOSURE (OPTIONAL)
- TRANSLUCENT SIDING OR METAL SIDING

USE TRANSLUCENT PANELS AS SIDING PANELS TO ALLOW LIGHT INTO THE BUILDING. DO NOT USE ON ROOFS.
Post Frame Flashing Details

WINDOW DETAILS

SILL

WINDOW UNIT
1x6 BEVELED

1" 

FLASH AJ-3

FASTENER PER STANDARD PATTERN SIDING

2x4

HEAD

SEALANT TAPE TOP & BOTTOM OF CLOSURE

FASTENER PER STANDARD PATTERN
AD1 DRIP CAP

WINDOW UNIT

INSIDE CLOSURE (OPTIONAL)

JAMB

WINDOW UNIT

FLASH AJ-3

FASTENER

2x4

OPTIONAL SEALANT TAPE

GIRT

SIDING
1. Determine the thickness and type of substrate to be used to support the metal roofing. **Solid decking is highly recommended for all residential applications (i.e., plywood, OSB).**

2. Refer to the Load-Span tables to select the proper fastener and spacing to meet loads on your structure. **Nails are NOT recommended for residential applications.**

3. Consult local building codes and restrictions to determine acceptable methods of construction for residential applications in your area.

4. Solid decking with 30# felt or Pro Master® underlayment for residential applications is recommended. Ice & water shield or similar self-adhesive membrane is recommended at all valleys, dormers, chimneys, transitions, skylights and other critical areas.

5. When re-roofing with metal panels over an existing shingle roof, 2x4 purlins or 1x4 furring strips run parallel with the ridge of the roof and must be securely fastened into the roof rafters or trusses.

6. Request Fabral’s technical bulletins # 720 and # 721 for more details on residential roofing.
Residential Load Table

GRANDRIB 3®

Load-Span Tables For 29 Gauge Grandrib 3® & Alu-Tuff
Allowable Wind Uplift Loads (psf)

<table>
<thead>
<tr>
<th>Substrate</th>
<th>Fastener</th>
<th>9&quot;</th>
<th>12&quot;</th>
<th>15&quot;</th>
<th>18&quot;</th>
<th>21&quot;</th>
<th>24&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; Plywood</td>
<td># 14 Woodtite</td>
<td>275.6</td>
<td>206.7</td>
<td>165.4</td>
<td>137.8</td>
<td>118.1</td>
<td>103.4</td>
</tr>
<tr>
<td>5/8&quot; Plywood</td>
<td># 14 Woodtite</td>
<td>160</td>
<td>120</td>
<td>96</td>
<td>80</td>
<td>65</td>
<td>60</td>
</tr>
<tr>
<td>1/2&quot; Plywood</td>
<td># 14 Woodtite</td>
<td>135.9</td>
<td>101.9</td>
<td>81.5</td>
<td>67.9</td>
<td>58.2</td>
<td>51.0</td>
</tr>
<tr>
<td>23/32&quot; OSB</td>
<td># 14 Woodtite</td>
<td>115.9</td>
<td>86.9</td>
<td>69.5</td>
<td>57.9</td>
<td>49.7</td>
<td>43.5</td>
</tr>
<tr>
<td>19/32&quot; OSB</td>
<td># 14 Woodtite</td>
<td>100.7</td>
<td>75.5</td>
<td>60.4</td>
<td>50.3</td>
<td>43.1</td>
<td>37.8</td>
</tr>
<tr>
<td>7/16&quot; OSB</td>
<td># 14 Woodtite</td>
<td>61.5</td>
<td>46.1</td>
<td>36.9</td>
<td>30.7</td>
<td>26.3</td>
<td>23.1</td>
</tr>
<tr>
<td>Solid 2x SPF</td>
<td># 14 Woodtite</td>
<td>293</td>
<td>220.0</td>
<td>176.0</td>
<td>146.7</td>
<td>125.7</td>
<td>110.0</td>
</tr>
<tr>
<td>Solid 1x Pine</td>
<td># 14 Woodtite</td>
<td>207.1</td>
<td>155.3</td>
<td>124.2</td>
<td>103.5</td>
<td>88.7</td>
<td>77.7</td>
</tr>
<tr>
<td>Solid 2x SPF</td>
<td># 9 WoodFast</td>
<td>218.7</td>
<td>164.0</td>
<td>131.2</td>
<td>109.3</td>
<td>93.7</td>
<td>82.0</td>
</tr>
<tr>
<td>Solid 1x Pine</td>
<td># 9 WoodFast</td>
<td>168.4</td>
<td>126.3</td>
<td>101.0</td>
<td>84.2</td>
<td>72.2</td>
<td>63.2</td>
</tr>
</tbody>
</table>

Screws per Square 190 150 120 100 90 80

The Above Loads and fastener quantities are based on the standard fastening schedule shown on page 4 of this book, with the fastener having an embedment depth of 1" into the solid wood and penetrating the plywood or OSB. Contact FABRAL for additional design information on our products.

Other Residential Profiles

1 1/2" SSR
24 Gauge Standing Seam Roofing

Climaguard™
26 Gauge Roofing

5V Crimp
26 Gauge Roofing

The above Fabral profiles have their own detail manuals, flashings, and accessories. Please contact Fabral for additional information.
Standard Residential Flashings/Trim

All flashing is 10’ 6” in length & available in steel & aluminum, unless otherwise noted. Please contact Fabral for specifics on the trim available in your area.

Soff Vent A
Vented Aluminum Soffit
Net free area = 12.96 sq. in. per lineal ft. of soffit

CE1
Denver Eave
Steel Only
Customer to specify roof pitch

CP1
Monoslope Ridge
Steel Only
Customer to specify roof pitch

AR3
Ridge Cap

RV1
Valley Flash
Customer to specify roof pitch

RV2
W-Valley Flash
Steel Only
Customer to specify roof pitch

AT1
Transition Flash
Typical for 8/12 to 4/12 (otherwise specify pitches)
Steel Only

AG4
Gable

AT2
Gambrel Flash
Typical for 3/12 to 15/12 (otherwise specify pitches)

AB3
Soffit Box
Net free area = 22.9 sq. in. per lineal ft. of soffit
(Vented available in white steel only)

ASW1
Sidewall/Endwall Flash

WG1
Residential Gable

RR1
Universal Ridge/Hip Flash
Steel Only
Customer to specify roof pitch
All residential flashings are formed for a 4/12 pitch unless otherwise requested by the customer.

**RESIDENTIAL RIDGE/HIP**

- Sealant Tape: Top & Bottom of Closure or Sealer Strip
- Ridge Cap: RR-1 or AR-3
- Roof Panel
- Roof Structure
- 2" Long Fastener: @ Every Main Rib or 12" C/C Max.
- Outside Closure: (On Hip Roofs use 1" x 1" x 19'-8" Sealer Strip and RR-1 Flashing)

**RESIDENTIAL VENTED RIDGE**

- Ridge Cap: RR-1 or AR-3
- Roof Panel
- Roof Structure
- VersaVent RX-10 or ProfileVent
Residential Flashings Detail

RESIDENTIAL VENTED EAVE

INSIDE CLOSURE WITH SEALANT TAPE TOP & BOTTOM

FABRAL METAL ROOF PANEL

EAVE TRIM

FASCIA BOARD

TRUSS OR RAFTER

FABRAL METAL SIDING PANEL

BUTYL TAPE TOP & BOTTOM OF CLOSURE

FASTENER PER STANDARD EAVE PATTERN

FASTENER @ 24" C/C MAX.

CE-1

ROOF PANEL

INSIDE CLOSURE

ROOF STRUCTURE

16" COVERAGE
RESIDENTIAL GABLE

- **RG-1, WG-1 OR AG-4**
- **Screw Fastener @ 24" C/C MAX.**
- **Butyl Tape**
- **Roof Panel**
- **Roof Structure**
- **Start Gable**
- **Cut Panel As Necessary**
- **Finishing End Gable**

RESIDENTIAL ENDWALL

- **Siding**
- **2" Fastener @ Every Main Rib**
- **Flash ASW-1**
- **Roof Panel**
- **Outside Closure**
- **Butyl Tape Top & Bottom Of Closure**
Residential Flashings Detail

Residential Gambrel

- Butyl sealant tape top & bottom of closure
- Flash at-2 or AGR-N4 (GrandRib 3)
- 2" fastener @ every main rib or 12" C/C max.
- Butyl sealant tape top & bottom of closure
- Inside closure
- Roof panel
- Outside closure
- Fastener per standard eave pattern
- Roofing felt and ice and water shield for added weather tightness

Residential Sidewall

- Siding
- Flash ASW-1
- 2" fastener @ 12" C/C
- Butyl sealant
- Roof panel
- Roof sheathing
- Roofing felt and ice and water shield for added weather tightness
Residential Flashings Detail

Residential Transition

30# Felt and Ice and Water Shield for added weathertightness. Flash AT-1.

Outside Closure

Butyl Tape- Top & Bottom of Closure

Inside Closure

Fastener per eave fastening pattern at every main rib or 12" C/C max.

Roof Panel

30# felt and ice and water shield for added weathertightness. Flash AT-1.

Outside Closure

Butyl Tape- Top & Bottom of Closure

Inside Closure

Fastener per eave fastening pattern at every main rib or 12" C/C max.

Residential Pipe Boots

(Optional) silicone sealant around cut of boot.

Roof Panel

Butyl sealant tape under base of pipe boot

Plywood Deck

Vented pipe

Pipe Boot

Screws spaced 2" to 3" max around base to secure.

Pipe Boot Sizes

#3 3/4" to 5" pipe dia.
#5 4 3/4" to 7 3/4" dia.
#8 7" to 13" dia.
CUT TRIANGULAR CRICKET TOP
FOLD UP WIDE END OF TRIANGLE.
SLIT CENTER OF FOLD AND BEND
SLIGHTLY DOWN THE CENTER.

TOP OF CRICKET FIELD
FORMED FROM FLAT SHEET

NOTE: SEE CROSS
SECTIONS A-A, B-B, C-C

SIDEWALL FLASH

CRICKET FIELD MADE FROM
FLAT SHEET

For optimum weathertightness, use
ice and water shield or similar
around penetrations.

CRICKET FIELD FORMING

ALTERNATIVE CRICKET DETAIL

NOTE: SEE CROSS
SECTIONS A-A, B-B, C-C

For optimum weathertightness, use
ice and water shield or similar
around penetrations.
Residential Flashings Detail

SKYLIGHT DETAILS

- SEALANT
- FLASHING ASW-1 - FIELD MODIFY AS REQUIRED
- FASTENER @ 6" C/C
- SEALANT
- ICE AND WATER SHIELD AND 30# FELT OR TITANIUM UDL UNDERLAYMENT

SIDEWALL DETAIL
SECTION A-A

- SASH
- FRAME
- SCREEN
- JAMB
- ROOF SHEATHING

- 1/2" RIGID INSULATION
- SEALANT
- 1/2" PLYWOOD

CUSTOM DIVERTER FLASH CONTINUE SUCH THAT THE DIVERTER AND VALLEY FLASH OVERLAP

FASTENER @ 6" C/C MAX.

CRICKET FIELD FORMING
SECTION B-B

- SEALANT TAPE
- BETWEEN FLASH AND ROOF PANEL
- FASTENER @ 6" C/C
- ROOF SHEATHING
- HEADER

ENDWALL DETAIL
SECTION C-C

- BUTYL TAPE
- TOP & BOTTOM OF CLOSURE
- FASTENER
- ROOF SHEATHING
- OUTSIDE CLOSURE

- FASTENER @ EVERY MAIN RIB OR 12" C/C MAX.
- ICE AND WATER SHIELD AND 30# FELT OR TITANIUM UDL UNDERLAYMENT

- ASW-1 FLASHING FIELD MODIFIED TO FIT
- SASH
- FRAME
- HEADER
SOLID SUPPORT IS REQUIRED UNDER THE VALLEY. EPDM LINING IS RECOMMENDED UNDER LAPPED PANELS AND VALLEY FLASHING. LINING MUST CONTINUE DOWN TO EAVE LINE.
DORMER DETAILS

CUT VALLEY PEAKS TO JOIN CLEANLY AND SEAL; COVER JOINT WITH ADDITIONAL FLASHING AND SEAL.

VALLEY CENTERLINE

PANEL RIBS (TYP.)

SECTION A-A

SEALER STRIP
BUTYL SEALANT
TOP & BOTTOM OF SEALER STRIP

SCREWS EACH SIDE OF MAIN RIB (EAVE/ENDLAP PATTERN) AND ONE ADDITIONAL, CENTRALLY LOCATED IN THE PAN OF THE PANEL

VALLEY LINING

METAL FLASHING TO COVER LAP AT VALLEY PEAKS (CAULK)

CLOSURE; CAULK PERIMETER TRIM AND SEAL AT VALLEY PEAK

6" MIN

RV-2 SHOWN

SOLID DECK

RIDGE CAP; CUT AND FOLD OVER INVERTED V OF VALLEY FLASHING

RIDGE CAP; EXTEND TO VALLEY PEAK; CUT, FOLD, TRIM, SEAL, AND FASTEN TO VALLEY PEAK

SOLID DECK

VALLEY FLASHING

METAL FLASHING TRIM AND SEAL AT VALLEY PEAK

VALLEY LINING

SOLID DECK

SEALER STRIP
BUTYL SEALANT
TOP & BOTTOM OF SEALER STRIP

SCREW

6" MIN

RIDGE CAP; EXTEND TO VALLEY PEAK; CUT, FOLD, TRIM, SEAL, AND FASTEN TO VALLEY PEAK
**Accessories**

-Sealant Tape
3
16” x 1
1/4” x 40’
3
32 “ x 1
2
1/4” x 40’

-Pipe Boots
Pipe Flashing Item Pipe Size
Gray EPDM No. Min Max
Base Diameter
7 3/4” 3 3/8” 5
10 3/4” 5 3/4” 7
16 1/2” 8 7” 12

-Sealant Tape
3/16” x 3/8” x 40’
3/32” x 1” x 40’

-Translucent Panels
Fiberglass
Grandrib 3 - White, Green - 8’, 10’, 12’
Strongrib - White - 10’, 12’
Fabrib - Green -12’
(availability by location - check with sale service rep.)
SunSky Polycarbonate
Grandrib 3 & Alutuff
Clear & White - 8’,10’,12’
(Available Everywhere)

-Profile Vent
GRANDRIB 3 & ALU-TUFF (SHOWN),
5V CRIMP
Grandrib 3 net free area = 10.66 sq. in. per lineal ft. of ridge (5.33 per side)

-Flat 29 gage painted and plain galvanized sheets available in full width (40 13/16 x 10’).
Flat sheets are made in grade 33 steel for better hemming, forming, and flexibility for field forming.
Used for field forming crickets around chimneys, skylights, and penetrations. Also used for field forming special flashing as necessary.

-Asphalt Impregnated Sealer Strip
1”x1”x19’-6.8” long
USE AT VALLEYS AND HIPS

-Screws
#9-16 WoodFast
3/8” hex head, EPDM/metal washer,
Oxyseal Long-Life Coating
Available in 1”, 1 1/2”, 2”, 2 1/2” and 3”
- Plain or Painted

#10-16 Ultimate WoodTite
5/16” cast Zinc hex head
Available in 1”, 1 1/2”, 2”, 2 1/2” and 3”
USE WITH GALVALUME PANELS

#14-10 WoodTite
5/16” hex head, EPDM/metal washer,
Oxyseal Long-Life coating. Plain or Painted
1”, 1 1/2”, 2” USE AS STITCH SCREW & TO FASTEN METAL TO PLYWOOD OR OSB

-Nails
Fabroseal with 1/4” washer for roofing -2”, 2 1/4” & 3”
Regular neoprene washer for siding -1 1/4”, 1 3/4”, 2”, & 2 1/2”
Plain Zinc coated and Painted

-Closures
Inside (Eave)
Outside (Ridge)
Grandrib 3, Strongrib, 1 3/4” Corrugated, 2 5/8” Corrugated, 5V Crimp, and Fabrib available by location - check with sales service rep.