STANDARD DETAILS FOR METAL ROOFING AND SIDING

AGRICULTURAL
LIGHT COMMERCIAL
RESIDENTIAL
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.

The details and written instructions described in this manual are suggested installation methods to ensure a quality application of our products, and should be considered as a guideline only. FABRAL recognizes that installation techniques can vary based upon builder and geographical preferences, and that there are other acceptable ways to install our products.
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The Right Tools.

This Standard Details Manual, AKA the Blue Book, is the right tool to have at your fingertips. By knowing you have access to all of the right information from proper storage and installation instructions to trim and flashing details, you can be confident installing your Fabral materials. In addition, the Blue Book references the complete system components and accessories allowing you plan ahead.

Use the Blue Book, and call the Fabral CORE at 800.477.2741 when further support is needed.

AGRICULTURAL

Fabral is the solution for your agricultural applications. We know that your barns and buildings must stand up to all weather conditions and last through the years.

LIGHT COMMERCIAL

For your light commercial needs, Fabral offers metal roofing and siding to match the various building types.

RESIDENTIAL

Homeowners feel proud and confident with Fabral metal roofing for the durability and sophisticated appearance.
You challenge us. And we like it.

Your vision for a building and what you want to achieve makes us think harder. It’d be easy to say - “That won’t work.” Instead we go with - “Let’s see what we can do.” As the leading provider of metal for building envelope solutions, we push the envelope.

We like it when you bring us a problem because we know we’ll find the solution. We have the products, the manufacturing and the know-how. We offer everything you need for the total building envelope solution. At our core, we relish a challenge.

To learn more contact us at 800.477.2741 or Fabral.com.
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 Quartenary), 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 Bulletins #803, 106, and 107 for more information on treated lumber and dissimilar metals.

Plastic, builders’ 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 or 1” nominal thickness are both acceptable purlins. If snow guards are to be installed in the future, a 2 x 8 purlin can be installed in the area for snow guard installation. Call engineering for locations of 2 x 8 purlins. When using purlins, FABRAL recommends a maximum spacing of 24” on-center (note that 5V requires solid decking). 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 or 1x4 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 sidelaps should face away from wind driven rain. To accomplish this, begin by installing the first sheet square with the eave and gable at the down wind end of the roof, farthest away from the source of prevailing winds or away from the primary viewing location.

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 sidelaps.

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. Do not step on panel ribs or on trim pieces to prevent kinking.

Roof Pitch

The metal roofing panels shown in this manual require a minimum slope of 2 1/2” 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 other suitable profiles.

Bending and Bowing

Aluminum and Steel 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 sidelaps 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.

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. 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 results with aluminum panels, use #300 series stainless steel screws.

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.

Wood screws with combination metal and neoprene washers should be installed in the flat area of the panel adjacent to the ribs, and tightened such that the washer is compressed as illustrated above. This will ensure a lasting, leak-proof seal. Remove any metal filings created by the drilling action of the screws or pre-drilling of the holes to avoid rust staining on the panel surface. Refer to the fastening schedules in this booklet for the correct fastener locations.

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.

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 deep-ly 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. 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. 1. 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 2. All saw cut panels must be thoroughly wiped to ensure the removal of all metal filings. Pre-drilling wall panels gives uniform alignment of screw rows. Be sure to remove any 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.

Proper Storage

Store metal panels indoors when possible; if outdoors, cover and elevate. Elevate one side higher for water drainage. Never cover in plastic; use a tarp that can breath. Allow for air circulation. If a bundle gets wet, break bands and separate sheets; allow sheets to dry completely and only restack if completely dry. Product should be stored for a maximum of 2-4 weeks before being installed.

Spray Foam Insulation

When insulating metal with spray foam insulation, the first application layer should be getting the insulation behind all framing members. When completing the insulation, ensure the spray foam is installed in 2” thick layers (maximum) until desired thickness is achieved.
Grandrib 3®
29 Gauge Steel, Plain and Painted Galvanized

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

SCREW PATTERNS

NAIL PATTERNS

All Supports

80 screws per square or 1 pound of nails per square
See page 11 for a load table

MP Panel™

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

SCREW PATTERNS

NAIL PATTERNS

All Supports

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

Mighti-Rib®

5V Crimp
USE ON SOLID DECKING

ProClad

1 1/4” Corrugated

2 1/2” Corrugated

NAIL PATTERN

SCREW PATTERN

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

Prime Rib®

SCREW PATTERN

ALL SUPPORTS

NAIL PATTERN

ALL SUPPORTS

38" Formed Width
36" Coverage

Grandbeam®

STANDARD FASTENER LOCATIONS

FASTENER LOCATION AT GABLE ENDS

Note: Grandbeam has panel specific flashings available

36" Formed Width
36" Coverage

StrongClad®

SCREW PATTERN

Intermediate Roof Purlins and All Sliding

Eaves and Endlaps- Roof Purlins

5/8" 36" 9"

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

Grandrib 3®
- .018 Aluminum, Plain and Painted White
- 37 3/4" Formed Width
- 36" Coverage

Strongrib®
- .018 Aluminum, Plain and Painted White
- Correct Strongrib Sidelap
- 36" Coverage (37 3/4" Formed Width)

Fabrib®
- 3/4" Formed Width
- 50 1/4" Overall
- 48" Coverage

AluTwin
- Other widths available
- 2 1/2" Corrugated
- 50 1/4" Overall
- 48" Coverage

*Not all profiles are available in all areas. Please contact Fabral for availability
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>
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<tr>
<td>6/12</td>
<td>1.120</td>
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<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.

800.477.2741
717.735.1257 Fax
LOAD TABLES & TESTING

GRANDRIB 3®

Load-Span Tables For 29 Gauge Grandrib 3®
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>68.6</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</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>
<tr>
<td>Screws per Square</td>
<td></td>
<td>190</td>
<td>150</td>
<td>120</td>
<td>100</td>
<td>90</td>
<td>80</td>
</tr>
</tbody>
</table>

The Above Loads and fastener quantities are based on the standard fastening schedule shown on page 6 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.

UL RATINGS

UL790 Class A Fire Rating applies to all Steel panels 29 ga and thicker and all Aluminum panels .032” and thicker.

UL2218 Class 4 Hail Impact Rating applies to all Steel panels 29 ga and thicker and all Aluminum panels .032” and thicker.
POST FRAME
BUILDING DETAILS

Gable p. 31
Ridge/Peak p. 34

Zee p. 18
Base Guard p. 35
Drip Cap p. 36
J-Channel/Doors/Windows p. 36
Endwall p. 27
Inside Corner p. 41
Sidewall p. 28

Sliding Door Track Cover p. 39
Outside Corner p. 41
Eave p. 26
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 synthetic 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, metal panels may be installed directly over shingles with underlayment, or 2x4 purlins or 1x4 furring strips.

6. Zip board sheathing, which has a “built in” vapor barrier, is an acceptable substrate and vapor barrier.

7. Request Fabral’s technical bulletins # 720 and # 721 for more details on residential roofing.
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 to sidelap sealant of panel #1.
8. Place panel #4 over endlap of panel #3. Install screws per endlap pattern.
9. Repeat sequence for entire roof.

### ALUMINUM

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.

### STEEL

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.

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

<table>
<thead>
<tr>
<th>Panel Name</th>
<th>Minimum Slope</th>
<th>Roof Slope</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2 1/2:12</td>
</tr>
<tr>
<td>Grandrib 3</td>
<td>2 1/2:12</td>
<td>58</td>
</tr>
<tr>
<td>Prime Rib</td>
<td>2 1/2:12</td>
<td>39</td>
</tr>
<tr>
<td>5V</td>
<td>2 1/2:12</td>
<td>43</td>
</tr>
<tr>
<td>2 1/2&quot; Corrugated</td>
<td>2 1/2:12</td>
<td>28</td>
</tr>
<tr>
<td>1 1/4&quot; Corrugated</td>
<td>2 1/2:12</td>
<td>16</td>
</tr>
<tr>
<td>Alutwin</td>
<td>2 1/2:12</td>
<td>37</td>
</tr>
<tr>
<td>Fabrib</td>
<td>2 1/2:12</td>
<td>32</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.
STANDARD POST FRAME

FLASHINGS & 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.

AJ2
Jamb Trim

AJ3
J Channel

AJ4
Jamb Trim

AJ5
Jamb Trim

AJ6
Jamb Trim

AJ7
J Channel

#45 Liner Channel
F-J Trim

PJFB
One Piece Door Trim

RJ8
J Channel

RJ9
F-J Trim
POST FRAME FLASHINGS & TRIMS

*Other sizes are available upon request

AL2, 3, 4, 5
Angle Flashing
Longer Lengths Available

AL6
Angle Flashing

AL7
Angle Flashing

AL8
Angle Flashing

AL9
Angle Flashing

AL10
Angle Flashing

ABG1
Base Guard

203 Box Base

AZ2
Zee

AD1
Drip Cap

AB1
Soffit Box

AB2
Soffit Box

AB3
Soffit Box

AB4
Soffit Box

RE1
Residential Eave

AE1
Eave Flash

RV1
Valley Flash

RV2
W-Valley Flash

Fabral.com / 800.477.2741
STANDARD RESIDENTIAL exposed-fastener panel

FLASHINGS & 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.

- **RG1** Residential Gable
- **WG1** Residential Gable
- **AG4** Gable
- **CE1** Denver Eave
- **RE1** Residential Eave
- **AR3** Ridge Cap
- **RV1** Valley Flash
- **RR1** Universal Ridge/Hip Flash
- **RV2** W-Valley Flash
- **ASW1** Sidewall/Endwall Flash
- **CP1** Monoslope Ridge
- **AT1** Transition Flash
- **AT2** Gambrel Flash
STANDARD MIGHTI-RIB®
FLASHINGS & TRIMS

All Mighti-Rib specific flashing is 10’ 6” in length & available in steel, unless otherwise noted. Please contact Fabral for specifics on the trim available in your area.
SYSTEM COMPONENTS

SNOW GUARDS

<table>
<thead>
<tr>
<th>Exposed Fastener Panel</th>
<th>MINI</th>
<th>CL</th>
<th>#640</th>
<th>#20</th>
<th>SM</th>
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<tbody>
<tr>
<td>Grandrib 3®</td>
<td>X</td>
<td>X</td>
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<td>Mighti-Rib®</td>
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<tr>
<td>MP Panel™</td>
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<tr>
<td>5V Crimp</td>
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<td>ProClad</td>
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</tr>
</tbody>
</table>

MINI Clear Snow Guard
- Available in premium polycarbonate plastic with UV stabilizers
- Provides maximum protection at a moderate price point
- Two-to-one base-to-blade ratio
- 4.5 sq.in. and gusseted blade snow pocket
- Typically installed by adhering to and mechanically fastened to the roofing panel

CL Snow Guard
- Available in premium polycarbonate plastic with UV stabilizers
- Unique vent rib systems allows for adhesive outgassing
- Three-to-one base-to-blade ratio adds significantly to strength

Snow Boss Snow Guards (#640)
- “Traditional Shape” solid cast aluminum
- Applied to the mid-panel on all standing, batten and flat seam roofs
- Typically installed by adhering to and mechanically fastened to the roofing panel
- Low profile protection, ideal for 1” x 2” purlins
- Non-Stock item, inquire for lead time

SM Snow Guard
- Available in cast aluminum
- Typically installed by adhering to and mechanically fastened to the roofing panel
- Very effective where there are no suitable seams
- Non-Stock item, inquire for lead time
## FASTENERS

### #9-16 WoodFast
- Use with dimensional lumber
- Available in 1”, 1 1/2”, 2”, 2 1/2” and 3”
- 1/4” hex head, EPDM/metal washer
- Oxyseal Long-Life Coating
- Plain or Painted
- 250/bag

### #14-10 WoodTite
- Use to fasten metal to plywood or OSB
- Use for trim attachment
- Available in 1”, 1 1/2”, and 2”
- 5/16” hex head, EPDM/metal washer
- Oxyseal Long-Life Coating
- Plain or Painted
- 250/bag

### #9-16 300 Series Stainless Steel
- Use for high corrosive environments
- Use with ALUMINUM panels
- Available in 1”, 1 1/2”, and 2”
- 1/4” hex head, EPDM/metal washer
- Use with treated lumber
- Plain or Painted
- 250/bag

### #10-14 410 Stainless Steel
- Use with 26 gauge or thinner to avoid pre-drilling
- NOT as corrosive resistant as the 300 Series
- Steel is harder than 300 Series
- Available in 1”, 1 1/2”, and 2”
- 1/4” hex head, EPDM/metal washer
- Use with steel panels installed on treated lumber
- Plain or Painted
- 250/bag

### #10-16 Ultimate WoodTite
- Use with ALL panels
- Available in 1”, 1 1/2”, 2”, 2 1/2” and 3”
- 5/16” case zinc hex head
- Hex head & washer all one piece
- Plain
- 250/bag

### #12 x 3/4” Stitch Screw
- Used for attachment of trim to top of seam for screw flange panels
- Use with STEEL panels
- Used to stitch sidewalls for exposed fastener panels
- Used for miscellaneous metal to metal attachments
- 1/4” hex head, EPDM/metal washer
- Plain or Painted
- 250/bag

## UNDERLAYMENT

### 30-Year Peel & Stick
**PRODUCT SPECS:**
- Watertight Self-Sealing Underlayment
- Asphalt-to-Asphalt Lap System
- Roll Size: 3’ W x 72’ L
- Minimum Thickness: 1.1mm
- Square Ft Per Roll: 200

### 50-Year Synthetic
**PRODUCT SPECS:**
- Installation Requires mechanical fasteners
- Roll Size: 4’ W x 250’ L
- Minimum Thickness: .75mm
- Square Ft Per Roll: 1,000

### 30-Year Synthetic
**PRODUCT SPECS:**
- Installation Requires mechanical fasteners
- Roll Size: 4’ W x 250’ L
- Minimum Thickness: .63mm
- Square Ft Per Roll: 1,000

### 25-Year Synthetic
**PRODUCT SPECS:**
- Installation Requires mechanical fasteners
- Roll Size: 4’ W x 250’ L
- Minimum Thickness: .43mm
- Square Ft Per Roll: 1,000
ACCESSORIES

VENTING & CLOSURES

Ridge Cap Vent Specifications:
- Venting factory applied to the ridge cap
- Save up to half of your installation time
- Non-profile specific material
- Clean, dust free installation
  Virtually NO WASTED material
- 1 1/2" x 3" material provides 17 sq.
  inches/lineal foot free area at the ridge

Available attached to ridge cap as RX-10 version and as X-10 version for field installation; not pre-applied to ridge cap

Profile Fit Vent-Strip Specifications:
- Available in Climaguard,
  Grandrib 3 and Mighti-Rib profiles
- Lower, custom-fit profile
- Moisture and pest barrier
- Non-obtrusive appearance
- Reduces utility costs
- One-person installation

RV35 and RV100 Specifications:
- 10' long metal ridge vent
- Variety of colors available

Profile Fit Vent- Roll Specifications:
- Available in Grandrib 3 and 5V profiles
- 10.66 sq. in. per lineal ft. of ridge (5.33 / side)

LP2 Closure Specifications:
- Available in Grandrib 3, Strongrib,
  1 1/4" Corrugated, 2 1/2" Corrugated and
  5V profiles
- 10.66 sq. in. per lineal ft. of ridge
  (5.33 / side)

TRANSLUCENT PANELS

Fiberglass:
- Grandrib 3 - White, Green - 8’, 10’, 12’;
  Strongrib - White - 10’, 12’;
  Fabrib - Green - 12’

Polycarbonate:
- Grandrib 3- Clear & White - 8’, 10’, 12’;
  Mighti-Rib - Clear & White - 12’
**EPDM Specifications:**
- Colors: gray and black
- Up to 250°F

**Silicon Specifications:**
- Color: orange
- Up to 450°F
- Ranging for pipe sizes from 1" to 13"
- Larger sizes available on request

**Pipe Sizes:**

<table>
<thead>
<tr>
<th>Base Diameter</th>
<th>Item No.</th>
<th>min</th>
<th>max</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 3/4&quot;</td>
<td>3</td>
<td>1/4&quot;</td>
<td>5&quot;</td>
</tr>
<tr>
<td>10 3/4&quot;</td>
<td>5</td>
<td>4 1/4&quot;</td>
<td>7 1/2&quot;</td>
</tr>
<tr>
<td>16 1/2&quot;</td>
<td>8</td>
<td>7&quot;</td>
<td>13&quot;</td>
</tr>
</tbody>
</table>

**FLAT SHEETS**

**Product Specifications:**
- Used for field forming crickets around chimney, skylights and penetrations, and special flashing as necessary
- 29 gauge painted and plain galvanized
- Full width (40' 13/16" x 10' 6")
- Grade 33 steel for better hemming, forming and flexibility for field forming

**SEALANT & SEALER STRIP**

**Sealant Specifications:**
- Waterproof sealant to fill gaps up to 1"
- UV-resistant
- Permanent flexibility - won’t crack
- Standard color: gray (stocked)
- Up to 50 additional color options (non stocked)

**Sealant Tape Specifications:**
- 3/16" x 1/4" x 40' (sidelap)
- 3/32" x 1/2" x 50' (endlap)
- 1/8" x 2" x 30'

**Asphalt Impregnated Sealer Strip Specifications:**
- Use at valleys and hips
- 1" x 1" x 19' 6.8" long
POST FRAME

TRIM DETAILS

FASTENER PER STANDARD EAVE PATTERN

ROOF PANEL

FLASH CE-1

FASTENER @ EVERY MAJOR RIB

SIDING PANEL

INSIDE CLOSURE

BUTYL SEALANT TAPE TOP & BOTTOM OF CLOSURE

OUTSIDE CLOSURE (OPTIONAL)

BUTYL SEALANT TAPE TOP & BOTTOM OF CLOSURE

ROOF PANEL

FLASH CE-1

FASTENER @ 24" O.C. MAX.

SIDING PANEL

INSIDE CLOSURE

BUTYL SEALANT TAPE TOP & BOTTOM OF CLOSURE

EAVE PURLIN

EAVE PURLIN

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

FASTENER

OUTSIDE CLOSURE (OPTIONAL)

BUTYL SEALANT TAPE TOP & BOTTOM OF CLOSURE

TOP PLATE

FASTENER PER STANDARD EAVE PATTERN

BUTYL SEALANT TAPE TOP & BOTTOM OF CLOSURE

INSIDE CLOSURE

POST

ROOF TRUSS

TOP PLATE

EAVE

BOX EAVE
VENTED EAVE

- BUTYL SEALANT TAPE TOP & BOTTOM OF CLOSURE
- INSIDE CLOSURE
- TOP PLATE
- F/J TRIM
- FASTENER
- FABRAL ALUMINUM SOFIT
- ROOF PANEL
- FLASH ASW-1
- BUTYL SEALANT TAPE TOP & BOTTOM OF CLOSURE
- OUTSIDE CLOSURE
- ROOF PANEL
- PURLIN
- SIDING PANEL
- GIRT
- INSIDE CLOSURE
- 2" FASTENER @ EVERY MAIN RIB
- FLASH CE-1
- FASTENER @ 24" O.C. MAX.
- FASTENER PER STANDARD EAVE PATTERN
- SIDING PANEL

ENDWALL

- BUTYL SEALANT TAPE TOP & BOTTOM OF CLOSURE
- OUTSIDE CLOSURE
- ROOF PANEL
- PURLIN
- SIDING PANEL
- FASTENER PER STANDARD EAVE PATTERN
- GIRT
- INSIDE CLOSURE
- 2" FASTENER @ EVERY MAIN RIB
- FLASH ASW-1
- BUTYL SEALANT TAPE TOP & BOTTOM OF CLOSURE

View installation videos at Fabral.com/videos
**ENDWALL- NOTCHED**

- FASTENER PER STANDARD EAVE PATTERN
- INSIDE CLOSURE
- 2" FASTENER @ EVERY MAIN RIB
- NOTCHED FLASH AEW-N4 OR AEW-N5
- BUTYL SEALANT TAPE TOP & BOTTOM OF CLOSURE

**SIDEWALL**

- FASTENER PER STANDARD EAVE PATTERN
- SEALER STRIP W/ BUTYL SEALANT TAPE
- FLASH ASW-1 FIELD BEND AS REQUIRED
- 2" FASTENER @ 24" O.C. MAX.
- BUTYL SEALANT TAPE
- ROOF PANEL
- SLOPING RAFTER
- ROOF PANEL
NOTE: VALLEY FLASH MUST HAVE SOLID SUPPORT
LARGER VALLEYS MAY BE REQUIRED FOR LONG ROOF PANEL RUNS OR HEAVY SNOW AREAS.

ROOF STRUCTURE, SOLID 2X'S OR PLYWOOD
ROOF PANEL
SEALER STRIP, 1” X 1” X 19'-8”
BLOCK CLOSURE, FILL RIB VOIDS
BUTYL SEALANT TOP & BOTTOM OF SEALER STRIP
NOTE: VALLEY FLASH MUST HAVE SOLID SUPPORT

POST FRAME TRIM DETAILS

DORMER VALLEY

UPPER VALLEY TRIM
BUTYL TAPE SEALANT
LOWER VALLEY TRIM

VALEY

LARGER VALLEYS MAY BE REQUIRED FOR LONG ROOF PANEL RUNS OR HEAVY SNOW AREAS.

CUT ROOF PANEL AS NECESSARY
RV-2 SHOWN
SCREWS EACH SIDE OF MAIN RIB (EAVE / ENDLAP PATTERN)

View installation videos at Fabral.com/videos
POST FRAME TRIM DETAILS

GAMBREL

NOTE: SPECIFY BOTH ROOF PITCHES WHEN ORDERING AT-2 FLASH. AGRN-4 FOR GRANDRIB 3 AND AGRN-5 FOR STRONGRIB ARE FOR 3/12 TO 15/12 GAMBRELS.

TRANSITION

NOTE: SPECIFY BOTH ROOF PITCHES WHEN ORDERING AT-1. STANDARD IS 9/12 TO 3/12.
POST FRAME TRIM DETAILS

BOX GABLE

VERSION 1

- ROOF PURLIN
- FLASH AB-1, AB-2, AB-3, OR AB-4
- FASTENER @ EVERY MAJOR RIB
- OUTSIDE CLOSURE (OPTIONAL)
- BUTYL SEALANT TAPE TOP & BOTTOM OF SEALER STRIP
- END RAFTER
- SIDING PANEL

- ROOF PANEL
- FLASH AC-1 OR AC-4
- FASTENER @ 24" O.C. MAX.
- BUTYL SEALANT TAPE
- FASTENER @ 24" O.C. MAX.
- BUTYL SEALANT TAPE

Version 2

- ROOF PURLIN
- FLASH AB-1, AB-2, AB-3, OR AB-4
- FASTENER @ EVERY MAJOR RIB
- OUTSIDE CLOSURE (OPTIONAL)
- BUTYL SEALANT TAPE TOP & BOTTOM OF SEALER STRIP
- END RAFTER
- SIDING PANEL

- ROOF PANEL
- FLASH AG-1
- FASTENER @ 24" O.C. MAX.
- BUTYL SEALANT TAPE
- FASTENER @ 24" O.C. MAX.
- BUTYL SEALANT TAPE

View installation videos at Fabral.com/videos
GABLE
VERSION 1

- Butyl sealant tape
- Flash AG-4
- Fastener @ 24" O.C. Max.
- Roof panel
- Siding panel
- Optional butyl sealant tape top and bottom of sealer strip
- Outside closure (optional)

GABLE
VERSION 2

- Butyl sealant tape
- Flash AC-1 or AC-4
- Fastener @ 24" O.C. Max.
- Roof panel
- Siding panel
- Optional butyl sealant tape top and bottom of closure
- Outside closure (optional)
**FLYING GABLE DETAIL**

- BUTYL SEALANT TOP & BOTTOM OF SEALER STRIP
- SEALER STRIP (ASPHALT IMPREGNATED)
- FASTENER
- FASCIA BOARD
- OVERHANG ROOF PANELS TO CREATE APPROX. 1" OVERHANG

---

**MONOSLOPE RIDGE**

- 2" FASTENER @ EVERY MAIN RIB
- MONOSLOPE RIDGE CAP
- OUTSIDE CLOSURE
- BUTYL SEALANT TAPE TOP & BOTTOM OF CLOSURE
- SIDING
- UNDERLAYMENT
- ROOF STRUCTURE
- SLOPING RAFTER

View installation videos at Fabral.com/videos
RIDGE/PEAK- NON VENTED

AR-3, RIDGE FLASHING

2" LONG FASTENER @ EVERY MAIN RIB

ROOF PANEL

OUTSIDE CLOSURE (ON HIP ROOFS, USE 1" X 1" X 19'-8" SEALER STRIP & RR-1 FLASHING)

BUTYL SEALANT TAPE TOP & BOTTOM OF CLOSURE

ROOF PUR LIN

VENTED RIDGE

AR-3, RR-1 RIDGE FLASH

2" LONG FASTENER @ EVERY MAIN RIB

ROOF PANEL

VERS AVENT RX-10

BUTYL SEALANT TAPE

ROOF PUR LIN
**ALTERNATE VENTED RIDGE**

- RR-1 RIDGE FLASH
- CORRUGATED VENT
- OPTIONAL J-CHANNEL FOR SUPPORT
- OUTSIDE CLOSURE WITH BUTYL SEALANT TOP AND BOTTOM
- 2-1/2" FASTENER @ EVERY MAIN RIB
- ROOF PANEL
- ROOF PANEL FASTENER PER STANDARD PATTERN
- UNDERLAYMENT
- ROOF STRUCTURE

**BASE GUARD**

- SIDING PANEL
- STAINLESS STEEL FASTENER PER STANDARD SIDING PATTERN
- INSIDE CLOSURE (OPTIONAL)
- FLASH ABG-1
- BARRIER BETWEEN METAL AND ACQ TREATED LUMBER
- TREATED BASE PLANK
- FLOOR
- GRADE

View installation videos at Fabral.com/videos
DOOR HEADER

- Fasteners per fastener pattern
- Flash AD-1
- Flash AL-2, AL-3, AL-4, AL-5, or AL-7
- Door Stop
- Door

SIDING PANEL

POST FRAME TRIM DETAILS

DOOR JAMB

VERSION 1

- Girt
- Siding Panel
- Fasteners per fastener pattern
- Door Jamb
- Door Stop
- Door
- Flash PJFB
- Fastener
DOOR JAMB

VERSION 2

1. POST FRAME TRIM DETAILS
2. GIRT
3. SIDING PANEL
4. FASTENERS PER FASTENER PATTERN
5. DOOR JAMB
6. BUTYL SEALANT TAPE
7. FASTENERS
8. DOOR STOP
9. DOOR
10. DOOR JAMB
11. SIDING PANEL
12. PLASTIC SEAT TAPE
13. DOOR
14. FLASH AJ-3
15. FASTENER

VERSION 3

16. POST FRAME TRIM DETAILS
17. BUTYL SEALANT TAPE
18. DOOR JAMB
19. FASTENERS PER FASTENER PATTERN
20. SIDING PANEL
21. DOOR STOP
22. DOOR
23. DOOR JAMB
24. 1 X 3 DOOR STOP
25. FASTENER
26. FLASH AJ-2
27. DOOR

View installation videos at Fabral.com/videos
OVERHEAD DOOR JAMBS

VERSION 1

VERSION 2

VERSION 3

VERSION 4
POST FRAME TRIM DETAILS

SLIDING DOOR JAMB

SLIDING DOOR HEADER

SLIDING DOOR BASE

View installation videos at Fabral.com/videos
POST FRAME TRIM DETAILS

INSIDE CORNER

VERSION 1

VERSION 2

OUTSIDE CORNERS

View installation videos at Fabral.com/videos
All residential flashings are formed for a 4/12 pitch unless otherwise requested by the customer.
RESIDENTIAL ENDWALL

- Siding
- 2" Fastener @ Every Main Rib
- Flash ASW-1
- Butyl Sealant Tape Top & Bottom of Closure
- Underlayment
- Roof Structure
- Roof Panel
- Outside Closure

RESIDENTIAL SIDEWALL

- Siding
- Flash ASW-1 Field Bend As Required
- 2" Fastener @ 24" O.C. Max.
- Butyl Sealant Tape
- Roof Panel
- Roofing Felt and Ice and Watershed for Added Weather Tightness
- Roofing Structure

View installation videos at Fabral.com/videos
RESIDENTIAL VALLEY

SCREWS EACH SIDE OF MAIN RIB (EAVE / ENCLAP PATTERN)

CUT ROOF PANEL AS NECESSARY

RV-2 SHOWN

SEALER STRIP, 1" X 1" X 19'-8"
BLOCK CLOSURE, FILL RIB VOIDS

ROOF STRUCTURE, SOLID 2X'S OR PLYWOOD

BUTYL SEALANT TOP & BOTTOM OF SEALER STRIP

SOLID SUPPORT IS REQUIRED UNDER THE VALLEY. PEEL & STICK IS RECOMMENDED UNDER LAPPED ROOF PANELS AND VALLEY FLASHING. LINING MUST CONTINUE DOWN TO EAVE LINE.

DORMER VALLEY

PEEL & STICK

OUTSIDE CLOSURE, TAPE SEALANT TOP & BOTTOM

ROOF PANEL

UNIVERSAL CLOSURE, TAPE SEALANT TOP & BOTTOM

BUTYL TAPE SEALANT

UNDERLAYMENT

NOTE: ROOF PANEL OMITTED ON OTHER SIDE OF RIDGE FOR CLARITY.
**RESIDENTIAL GAMBREL**

- **Underlayment**
- **Inside Closure**
- **Outside Closure**
- **Roof Structure**
- **Flash at-2 or AGR-N4 (Grand Rib 3)**

2" Fastener @ every main rib

Butyl sealant tape top & bottom of closure

*Note: Specify both roof pitches when ordering AT-2 Flash. AGRN-4 for GrandRIB 3 and AGRN-5 for StrongRIB are for 3/12 to 15/12 Gambrels.*

**RESIDENTIAL TRANSITION**

- **Butyl sealant tape top & bottom of closure**
- **Inside closure**
- **Flash at-1**
- **Roof structure**
- **Outside closure**
- **Eave pattern**

2" Fastener @ every main rib

Butyl sealant tape top & bottom of closure

View installation videos at Fabral.com/videos
RESIDENTIAL PIPE BOOTS

- **VENTILATION PIPE**
- **PIPE BOOT**
- **(OPTIONAL) SILICONE SEALANT AROUND CUT OF BOOT**
- **ROOF PANEL**
- **SCREWS SPACED 2” TO 3” MAX AROUND BASE TO SECURE**
- **UNDERLAYMENT**

**SKYLIGHT**

**SKYLIGHT SECTION A-A**

and B-B on following page
SKYLIGHT SECTION A-A

SKYLIGHT SECTION B-B

View installation videos at Fabral.com/videos
CHIMNEY DETAILS

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

FLASH ASW-1 FIELD MODIFY AS REQUIRED

2" FASTENER @ 24" O.C. MAX.

BUTYL SEALANT TAPE

VERSION 1

ROOF PANEL
UNDERLAYMENT
ROOF STRUCTURE

VERSION 2

BRICK
CONTINUOUS SIKAFLLEX
CAULK @ PERIMETER

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

FLASHING - REVERSE AL FLASHING

2" FASTENER @ 24" O.C. MAX.

BUTYL SEALANT TAPE

ROOF PANEL
UNDERLAYMENT
ROOF STRUCTURE
### CHIMNEY ENDWALL

- 2" FASTENER @ EVERY MAIN RIB
- BUTYL SEALANT TAPE TOP & BOTTOM OF CLOSURE
- FLASH ASW-1 FIELD MODIFIED TO FIT
- SAW CUT REGLET 1/2" - 1" DEEP. BLOW OUT DUST & FILL WITH SIKAFLEX SEALANT. SET FLASH & FASTEN WITH COMPATIBLE MASONRY ANCHOR.

### RESIDENTIAL RIDGE/HIP

- 2" FASTENER @ EVERY MAIN RIB
- RIDGE CAP RR-1 OR AR-3
- OUTSIDE CLOSURE (ON HIP ROOFS USE 1" X 1" X 19'-8" SEALER STRIP AND RR-1 FLASHING)
- BUTYL SEALANT TAPE TOP & BOTTOM OF CLOSURE

View installation videos at Fabral.com/videos
**RESIDENTIAL VENTED RIDGE**

- **2" FASTENER @ EVERY MAIN RIB**
- **RIDGE CAP RR-1 OR AR-3**
- **ROOF PANEL**
- **CORRUGATED VENT**
- **BUTYL SEALANT TAPE TOP & BOTTOM OF CLOSURE**
- **OUTSIDE CLOSURE (ON HIP ROOFS USE 1" X 1" X 19'-8" SEALER STRIP AND RR-1 FLASHING)**
- **UNDERLAYMENT**
- **ROOF STRUCTURE**

**RESIDENTIAL GABLE**

- **ROOF PANEL**
- **FASTENER**
- **BUTYL TAPE**
- **RG-1, WG-1, OR AG-4**
- **SCREW FASTENER @ 24" O.C. MAX.**
- **ROOF STRUCTURE**
- **UNDERLAYMENT**
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 for Galvanized Panels
- Lifetime film integrity for walls & roofs
- 30-year against fade & chalk for walls and roofs
- 10-year edge rust against acid rain

For profiles: Grand Rib 3, 5V Crimp, ProClad, StrongClad, Prime Rib, Grandbeam

The Enduracote® Warranty for Galvalume® Panels
- Lifetime film integrity for walls & roofs
- 30-year against fade & chalk for walls and roofs
- 20 year non-perforation warranty

For profiles: Grandrib 3, 1 1/2” SSR, Climaguard, Mighti-Rib, Horizon S, Horizon 16, Ultra-Loc, Ultra-Rib

The Enduracote® PLUS Warranty
- Lifetime film integrity for walls & roofs
- 30-year against fade & chalk for walls and roofs
- 15-year edge rust against acid rain
- 25-year non-perforation against acid rain for walls; 20-years for roof

For profiles: Grandrib 3 PLUS

Polyester Paint Warranty
- 25-year limited film integrity
- 10-year against fade & chalk

For profiles: MP Panel, Shelterguard®, 5-Rib

Galvalume® Perforation Warranty
- 20-year non-perforation warranty for Grandrib 3, Mighti-Rib, Climaguard, Horizon S and 1 1/2” SSR

Galvalume is a registered trademark of BIEC International.

Aluminum Product Guarantee
- 30-year corrosion guarantee

The Enduracote® Warranty for Galvalume® Panels
- Lifetime film integrity for walls & roofs
- 30-year against fade & chalk for walls and roofs
- 20 year non-perforation warranty

For profiles: Grandrib 3, 1 1/2” SSR, Climaguard, Mighti-Rib, Horizon S, Horizon 16, Ultra-Loc, Ultra-Rib

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.

All Fabral Enduracote Colors are ENERGY STAR Approved

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