MICHIANA BUILDING SUPPLIES

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ABC®

AMERICAN
BUILDING
COMPONENTS

"PBR" & "PBU" Panels

Technical/Product Information

AMERICAN BUILDING COMPONENTS

TABLE OF CONTENTS

Descriptions and specifications contained herein were in effect at the time this publication was approved for printing. In a continuing effort to refine and improve products, ABC reserves the right to discontinue products at any time or change specifications and/or designs without incurring obligation. **To insure you have the latest information available, please inquire or visit our Web Site at www.abcmetalroofing.com.** Application details are for illustration purposes only and may not be appropriate for all environmental conditions, building designs, or panel profiles. Projects should be engineered to conform to applicable building codes, regulations, and accepted industry practices. Insulation is not shown in these details for clarity. **If there is a conflict between this manual and the erection drawings, the erection drawings will take precedence.**

AMERICAN
BUILDING
COMPONENTS

PRODUCT INFORMATION — "PBR" PANEL

ARCHITECT/ENGINEER INFORMATION

1. "PBR" panel is a structural roof and wall panel. This panel can be installed directly over purlins or joists. Several different UL 90 construction numbers are available for this panel.

2. "PBR" panel is recommended for ½:12 or greater roof slopes.

3. Field applied sealant is required at panel sidelaps and endlaps.

4. "PBR" panel is a through-fastened panel. For proper fastener application, see page 6.

5. The information in this manual is believed to be correct and accurate. It should not be used for any specific application without being reviewed by a registered professional engineer.

GENERAL DESCRIPTION
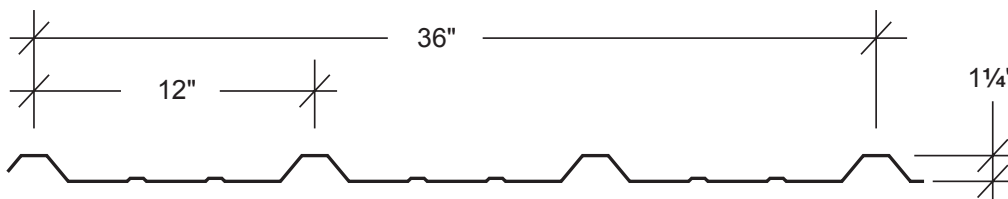
Coverage Width - 36"

Minimum Slope - ½:12

Panel Attachment - See page 6

Panel Substrate - Galvalume®

Gauge - 26 standard - 29, 24 and 22 also available

Coatings- Galvalume Plus®, Signature® 200* and Signature® 300*

PRODUCT SELECTION CHART

GAUGE	GALVALUME PLUS®	SIGNATURE® 200*	SIGNATURE® 300*
22 gauge	●	■	■
24 gauge	●	■	■
26 gauge	●	●	●
29 gauge	●	●	■

● - Available in any quantity.
■ - Minimum quantity may be required.
*See Commercial/Industrial color chart for available colors.

"PBR" PANEL   PRODUCT INFORMATION

UL 90 REQUIREMENTS
"PBR" PANEL

Construction #30

26 MSG Min. Gauge "PBR" Panel Over Purlins at 5'- 0 ¼" O.C.

1. **For Class 90** - Panel to purlin connections to be #14 Hex Head with a ⅝" O.D. washer in a 4-8-4-8 in. pattern. Panel to panel connection to be 20" O.C. with faster located over each purlin.
2. **Purlins** - No. 14 MSG min. gauge steel, (55,000 psi min. yield strength.)

Construction #79

26 MSG Min. Gauge "PBR" Panel Over Purlins at 5'- 0 ¼" O.C.

1. **Panel Fasteners** - Panel to purlin connections to be #14 Hex Head with a ⅝" O.D. washer, 6" O.C. in 5-7-5-7 in. pattern. Endlap spacing to be 6 in. O.C. Spacing for panel to panel connection to be 20" O.C.
2. **Purlins** - No. 16 MSG min. gauge steel. (55,000 psi min. yield strength); or min. H series open web steel joists.

Construction #161

26 MSG Min. Gauge "PBR" Panel Over Purlins at 5'- 0 ¼" O.C.

1. **Panel Fasteners** - Panel to purlin connections to be 12-14 x 1" self-drilling Hex Head with a ⅝" O.D. washer, 12" O.C. Spacing at endlap to be in a 5-7-5-7 in. patterns. Spacing for panel to panel connection to be 20" O.C. with a fastener located over each purlin.
2. **Purlins** - No. 16 MSG min. gauge steel. (55,000 psi min. yield strength).

Construction #542

26 MSG Min. Gauge "PBR" Panel Over Purlins at 5'- 0 ³⁄₁₆" O.C.

1. **Panel Fasteners** - Panel to purlin connections to be 12-14x1" self-drilling Hex Head with a ⅝" O.D. washer,12" O.C. Spacing at endlap to be in a 5-7-5-7 in. pattern. Spacing for panel to panel connection to be 20" O.C. with a fastener located over each purlin.
2. **Building Units** - Translucent Panels.
3. **Translucent Panel Rib and Purlin Reinforcement** - See UL 90 light transmitting panel installation instructions.
4. **Purlins** - No. 16 MSG min. gauge steel. (55,000 psi min. yield strength).

IMPACT RESISTANCE

"PBR" panels carry a Class 4 rating under UL-2218 "Test Standard For Impact Resistance"

FIRE RESISTANCE RATING

1. **Deck: NC**   **Class A**
   Incline: Unlimited
   The panel qualifies for a Class A Fire Rating in compliance with Underwriters laboratories Standard UL-263 when installed over a non-combustible substrate. A Class C Fire Rating will be qualified for over combustible substrate.

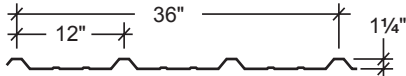**Look for classification marking on product.**

CAUTION

The above listings are summaries of Construction Numbers. For UL 90 rated roof requirements and complete design information, see the Underwriters Laboratories Building Materials Directory. If you have any questions, call ABC before proceeding.

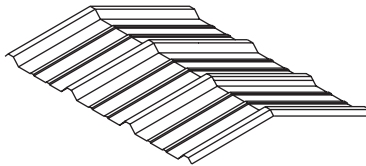# PRODUCT INFORMATION   "PBR" PANEL

PRODUCT CHECKLIST

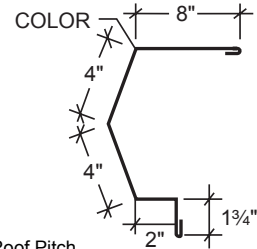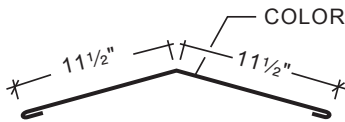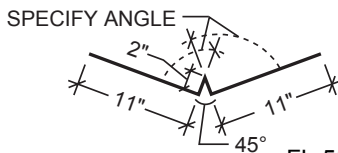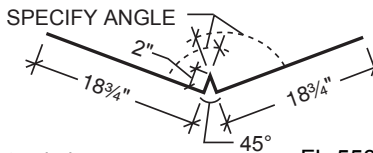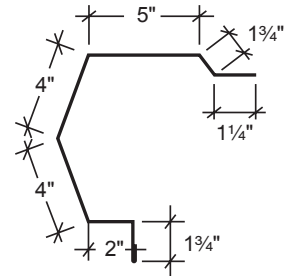| "PBR" Panel	Ridge Cap	Sculptured High Side Eave
36" 12" 1¼" "PBR" Panel	FL-49 2'-6" FL-51 3'-0" Maximum Roof Pitch 6:12 Specify Pitch	COLOR 8" 4" 4" 2" 1¾" Specify Roof Pitch High Eave part at corner to be mitered Specify Left or Right FL-17
Flat Ridge/Hip Flashing	Valley Flashing	Sculptured Rake
COLOR 11½" 11½" FL-38	SPECIFY ANGLE 2" 11" 11" 45° FL-556 Standard SPECIFY ANGLE 2" 18¾" 18¾" 45° FL-558 Extended	5" 1¾" 4" 1¼" 4" 2" 1¾" Rake part at corner to be mitered. Specify Left or Right FL-16
Parapet High Eave	Parapet Rake	Eave Trim
6" COLOR 5½" Specify Roof Slope FL-874	COLOR 5" 6" 1¾" ¾" FL-952	5" 3½" ⅝" Specify Roof Pitch FL-19
Sculptured Hang-On Gutter	Sculptured Eave Gutter	Gutter Strap
1" 90° - ° OF ROOF PITCH ¾" 4" DIM. A 4" 4" 90° + ° OF ROOF PITCH Specify Roof Slope Gutter part at corner to be mitered. Specify Left or Right. FL-180	1" 3½" 4" 90° + ° of ROOF SLOPE DIM. A 4" 4" 90° + ° of ROOF SLOPE Specify Roof Slope Gutter part at corner to be mitered. Specify Left or Right. FL-18	FL-893 Gutter End Specify Left or Right Specify Gutter part no. FL-18A
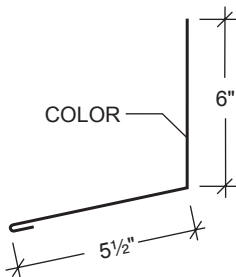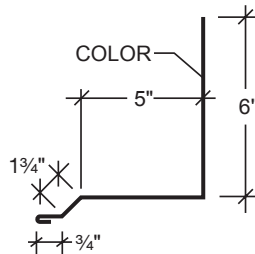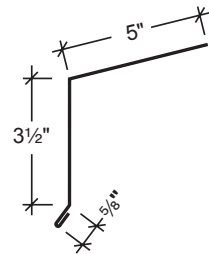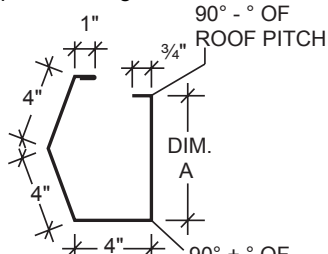
PRODUCT CHECKLIST

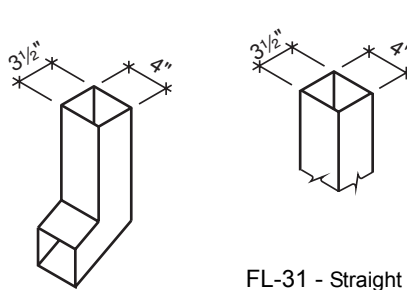**Inside Corner Trim**

4½"   ¾"   1¾"   4½"   COLOR   ¾"   1¾"

FL-800

Downspouts

3½"   4"   3½"   4"
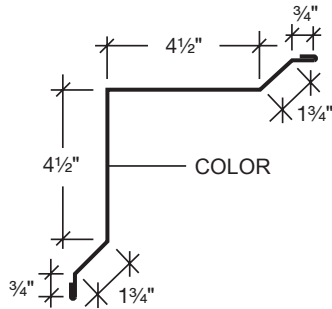
FL-31A - With Kick-Out

FL-31 - Straight

Corner Trim - Outside

COLOR   3⁵⁄₁₆"   1¾"   3⁵⁄₁₆"   ¾"   1¾"   ¾"

FL-830

Base Trim (With Sheeting Notch)

COLOR   3¼"   1¾"   ⅝"   135°

FL-72

Base Trim (Without Sheeting Notch)

2"   1¾"   COLOR   45°   ½"   2½"

FL-530

Jamb Trim

COLOR   2"   1¼"   ½"   1¼"
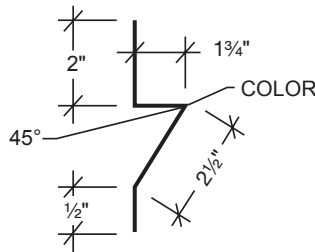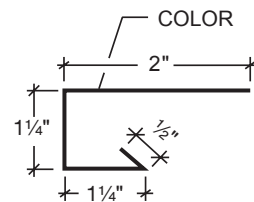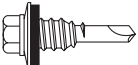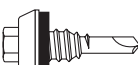
FL-23

Fasteners

#17A   12-14 X 1¼" Driller

#4A   ¼"-14 X ⅞" Lap Tek

#3   12-14 X 1¼" Long Life Driller

#4   ¼"-14 X ⅞" Long Life Lap Tek

LTP

Non-Reinforced Fiberglass

High Strength Fiberglass

Head Trim

2½"   1¼"   COLOR   1⅜"
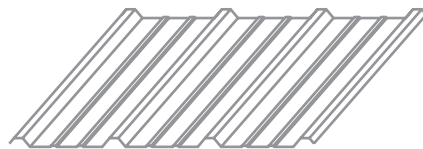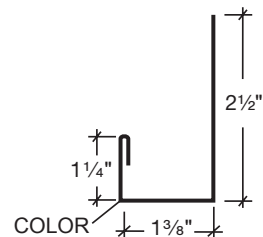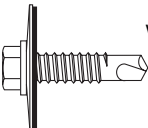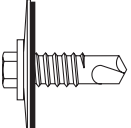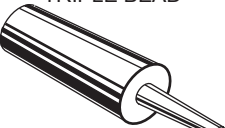
FL-24

Fasteners

#43   ¼"-14 X 1¼" Driller with 1⅛"O.D. washer

#44   ¼"-14 X ⅞" Lap Tek with 1⅛"O.D. washer

#14   ⅛ X ³⁄₁₆ Stainless Steel Pop Rivet

Sealant

½" x ³⁄₃₂" HW-507

½" x ³⁄₃₂"

Tri-Bead HW-504

TRI-BEAD

TRIPLE BEAD

Triple Bead HW-502

Urethane White HW-540 Other Colors Available

TUBE SEALANT 11 OZ.

NOTE: 25' Per tube at ¼" bead

Closures

Inside   HW-455

Outside   HW-456

Beveled Inside*

Beveled Outside*

*Special order - requires two-week lead time

ATTACHMENT
"PBR" PANEL

ENDLAP ATTACHMENT
(SEE DETAIL B)

FASTENER #3
HIGH SIDE ATTACHMENT
(6 FASTENERS PER PANEL)

SLOPE

"PBR" PANEL

FASTENER #3
EAVE ATTACHMENT
(6 FASTENERS PER PANEL)

FASTENER #3
INTERMEDIATE PURLIN
ATTACHMENT (3 FASTENERS
PER PANEL)

FASTENER #4
20" O.C.

½" X ³⁄₃₂"
TAPE SEALER

DETAIL "A"

6"

FASTENER #3
6 EACH PER PANEL

"PBR" PANEL

½" x ³⁄₃₂"
TAPE SEALER

DETAIL "B"

NOTES:

Sidelap
1. ½" X ³⁄₃₂" tape sealer must be installed between weather infiltration point and fastener.
2. Install Fastener #4 (¼"-14 X ⅞ " Long Life Lap Tek) at 20" on center.
3. When possible, install panels such that sidelaps are nested away from prevailing winds.
4. Fastener #4A (¼"-14 X ⅞ " Lap Tek) are available as an alternate when long life fasteners are not desired.

Endlap
1. Stack 2 continuous layers of ½" x ³⁄₃₂" tape sealer on top of each other and must be installed between weather infiltration point and fastener.
2. Install Fastener #3 (12-14 X 1¼" Long Life driller) on each side of major ribs of panel (two fasteners per foot).
3. Fastener #17A (12-14 X 1¼" driller) are available as an alternate when long life fasteners are not desired.

"PBR" PANEL

PRODUCT INFORMATION

CONSTRUCTION NO. 542
UL 90 LIGHT
TRANSMITTING PANEL
INSTALLATION

SLOPE

TRI-BEAD
TAPE SEALER

LOWER PANEL

PURLIN

½" x ³⁄₃₂"
TAPE SEALER
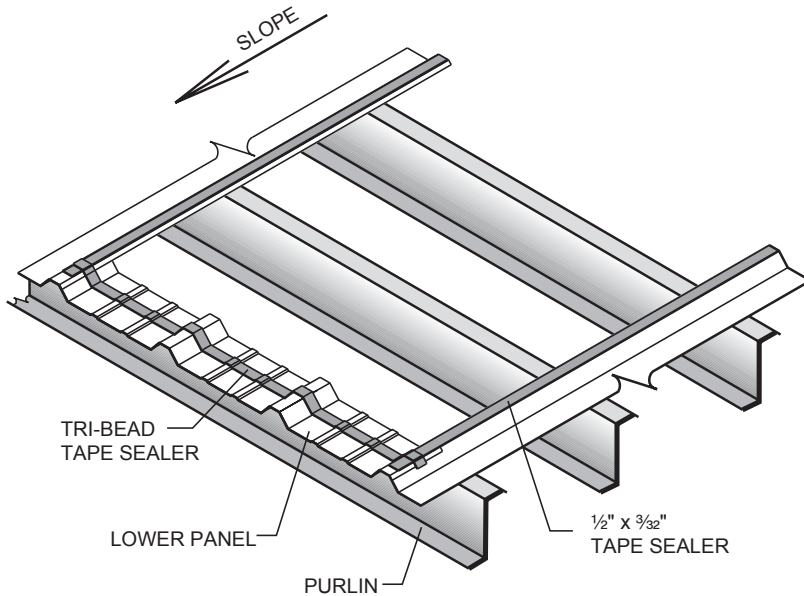
Install roof panels, leaving the light transmitting panel run open, except for lower light transmitting panel run panel. Install tape sealer to panel sidelaps and across panel width as normal.

LIGHT TRANSMITTING
PANEL

SLOPE

TRI-BEAD
TAPE SEALER

PURLIN

LOWER PANEL

FASTENER #43
(9 PER PANEL)
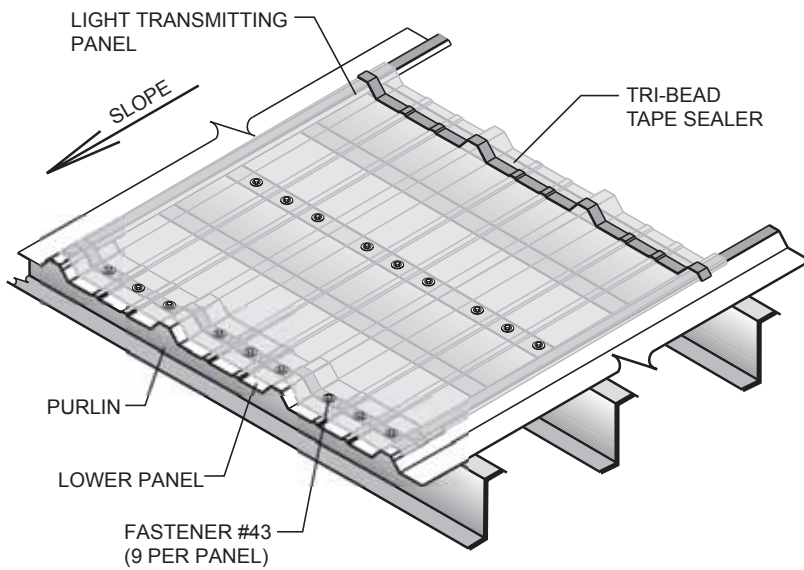
Attach light transmitting panels at the low and mid-slope connection to the purlin with nine Fastener #43 (¼ - 14 x 1¼" driller with 1⅛" O.D. washer).

CONSTRUCTION NO. 542
UL 90 LIGHT
TRANSMITTING PANEL
INSTALLATION
(Continued)

Be sure the light transmitting panel sidelaps have complete run of (½" x ³⁄₃₂") tape sealer between the light transmitting panel and the "PBR" panel. See Page 6 for lap detail.
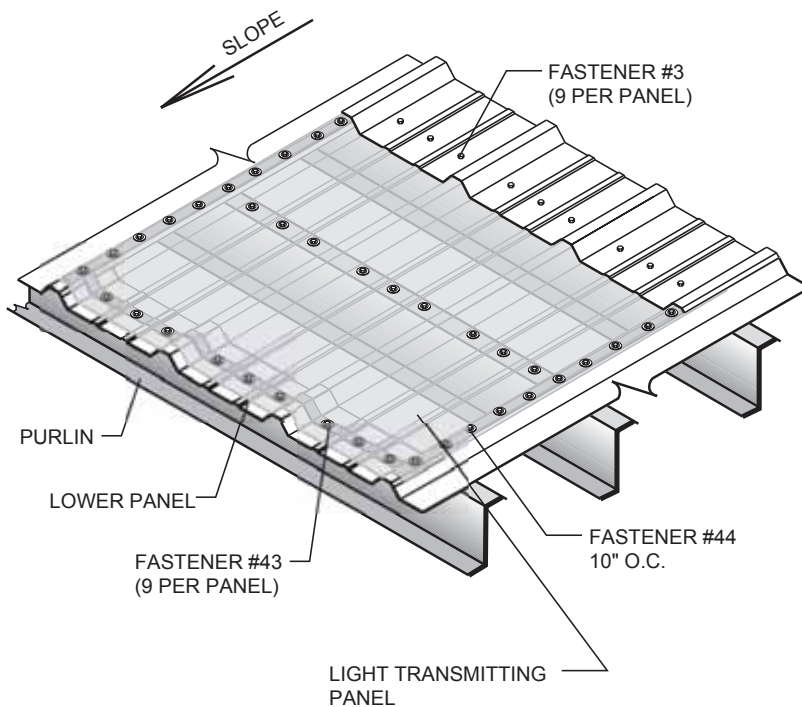
Fasten light transmitting panel with Fastener #44 (¼" - 14 x ⅞" Lap Tek with 1⅛" O.D. washer) at 10" O.C. down each side lap.

Install upper metal panel in light transmitting panel run and fasten as at a normal endlap with nine Fastener #3 (12 - 14 X 1¼" Long Life driller).

SLOPE

FASTENER #3
(9 PER PANEL)

PURLIN

LOWER PANEL

FASTENER #43
(9 PER PANEL)

FASTENER #44
10" O.C.

LIGHT TRANSMITTING
PANEL

ARCHITECT/ENGINEER INFORMATION

1. "PBU" panel is a structural roof and wall panel. This panel can be installed directly over purlins or joists. "PBU" panel is UL 90 rated per construction number 39.

2. "PBU" panel is recommended for 1:12 or greater roof slopes.

3. Field applied sealant is required at panel sidelaps and endlaps.

4. "PBU" panel is a through-fastened panel. For proper fastener application, see page 13.

5. The information in this manual is believed to be correct and accurate. It should not be used for any specific application without being reviewed by a registered professional engineer.

GENERAL DESCRIPTION
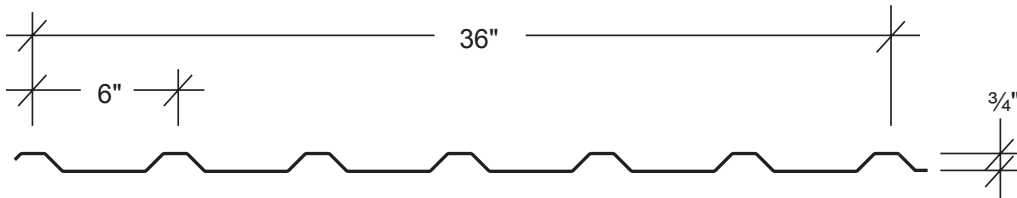
Coverage Width - 36"

Minimum Slope - 1:12

Panel Attachment - See page 13

Panel Substrate - Galvalume®

Gauge - 26 standard - 29, 24 and 22 also available

Coatings - Galvalume Plus®, Signature® 200* and Signature® 300*

PRODUCT SELECTION CHART

GAUGE	GALVALUME PLUS®	SIGNATURE® 200*	SIGNATURE® 300*
22 gauge	●	■	■
24 gauge	●	■	■
26 gauge	●	●	●
29 gauge	●	●	■

● - Available in any quantity.
■ - Minimum quantity may be required.
*See Commercial/Industrial color chart for available colors.

PRODUCT INFORMATION   "PBU" PANEL

UL 90 REQUIREMENTS
"PBU" PANEL

Construction #39

26 MSG Min. Gauge "PBU" Panel over Purlins at 5'- 0 ¼" O.C.

1. **Panel Fasteners** - Panel to purlin connections to be #14 self-drilling, Hex Head with a ⅝" O.D. washer, 6" O.C. Spacing at endlaps to be 6" O.C. Spacing for panel to panel connections to be 12" O.C.

2. **Purlins** - No. 16 MSG min gauge steel. (55,000 psi min. yield strength)

IMPACT RESISTANCE

"PBU" panels carry a Class 4 rating under UL-2218 "Test Standard For Impact Resistance"

FIRE RESISTANCE RATING

1. **Deck: NC**   **Class A**
   Incline: Unlimited
   The panel qualifies for a Class A Fire Rating in compliance with Underwriters Laboratories Standard UL-263 when installed over a non-combustible substrate. A Class C Fire Rating will be qualified for over a combustible substrate.

Look for classification marking on product.

CAUTION

The above listings are summaries of Construction Numbers. For UL 90 rated roof requirements and complete design information, see the Underwriters Laboratories Building Materials Directory. If you have any questions, call ABC before proceeding.

"PBU" PANEL — PRODUCT INFORMATION

PRODUCT CHECKLIST

"PBU" Panel

36"
6"
¾"
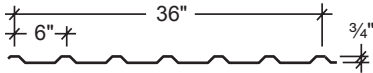
"PBU" Panel

Ridge Cap
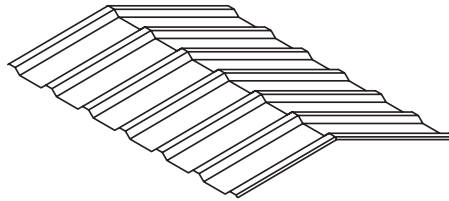
Maximum Roof Pitch 6:12
Specify Pitch

FL - 50   2'-6"
FL - 52   3'-0"

Sculptured High Side Eave
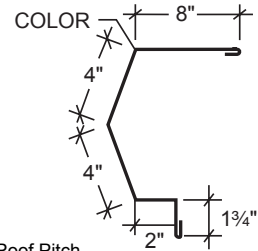
COLOR
8"
4"
4"
2"
1¾"

Specify Roof Pitch
High Eave part at corner to be mitered
Specify Left or Right

FL-17

Flat Ridge/Hip Flashing

COLOR
11½"   11½"
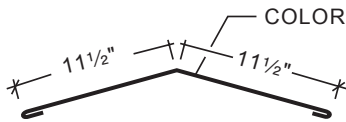
Specify Roof Slope

FL-38

Valley Flashing
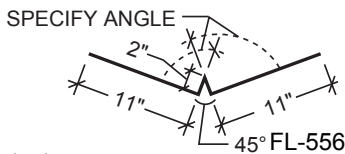
SPECIFY ANGLE
2"
11"   11"
45° FL-556

Standard

SPECIFY ANGLE
2"
18¾"   18¾"
45°

Extended   FL-558

Sculptured Rake

5"
1⅛"
4"
1⅞"
4"
2"
1¾"
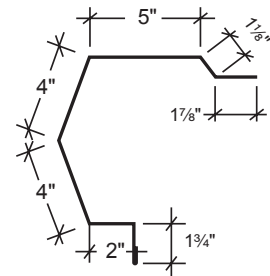
Rake part at corner to be mitered.
Specify Left or Right

FL-15

Parapet High Side Eave

COLOR
6"
5½"
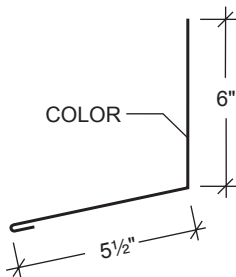
Specify Roof Slope

FL-874

Parapet Rake

COLOR
5"
5 ¾"
2"
¾"

FL-954

Eave Trim

5"
3½"
⅝"
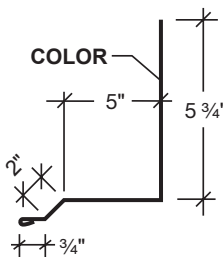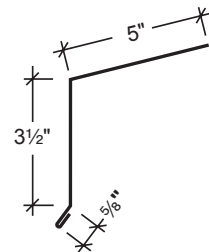
Specify Roof Slope

FL-19

Sculptured Hang-On Gutter

1"   ¾"
90°-° of Roof Pitch
4"
DIM "A"
90°+° of Roof Pitch
4"
4"
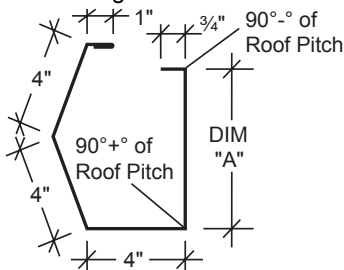
Specify Roof Slope
Gutter part at corner to be mitered.
Specify Left or Right.

FL-C

Sculptured Eave Gutter

COLOR
1"
4"
3½"
90°+° of Roof Pitch
4"
DIM "A"
4"
90°+° of Roof Pitch
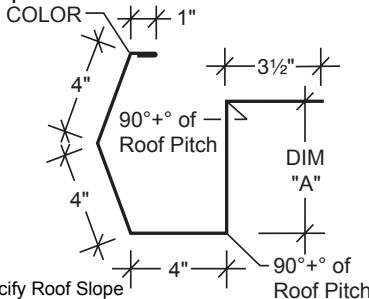
Specify Roof Slope
Gutter part at corner to be mitered.
Specify Left or Right.

FL-512

Gutter Strap

1"   1"   1"

FL-893
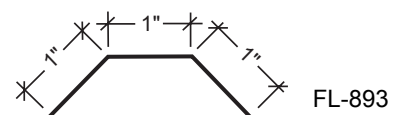
Gutter End

Specify Left or Right
Specify Gutter Part No.

FL-18A

PRODUCT INFORMATION
"PBU" PANEL

PRODUCT CHECKLIST

Inside Corner Trim
3"
¾"
1¹⁄₁₆"
3"
COLOR
¾"
1¹⁄₁₆"
FL-810
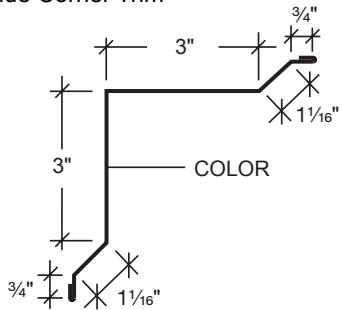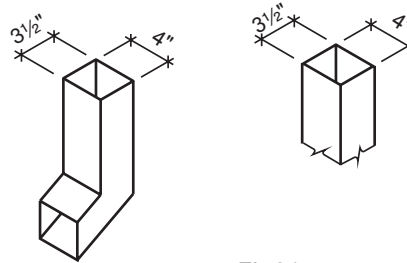
Downspouts
3½"
4"
3½"
4"
FL-31 - Straight
FL-31A - With Kick-Out

Corner Trim - Outside
COLOR
3 ⁵⁄₁₆"
1¹⁄₈"
3 ⁵⁄₁₆"
¾"
1¹⁄₈"
¾"
FL-840
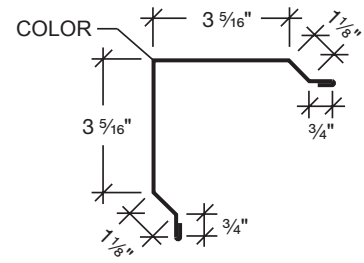
Base Trim (With Sheeting Notch)
COLOR
3¼"
1¾"
⁵⁄₈"
135°
FL-72

Base Trim (Without Sheeting Notch)
2"
1¾"
COLOR
45°
½"
2½"
FL-530
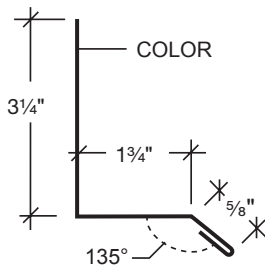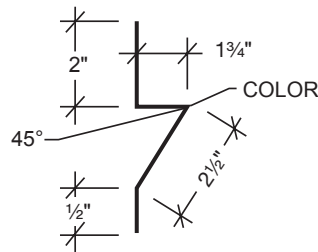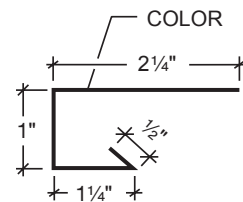
Jamb Trim
COLOR
2¼"
1"
½"
1¼"
FL-21

Fasteners
#17A 12-14 X 1¼" Driller
#4A ¼"-14 X ⅞" Lap Tek
#3 12-14 X 1¼" Long Life Driller
#4 ¼"-14 X ⅞" Long Life Lap Tek

LTP
Non-Reinforced Fiberglass
High Strength Fiberglass
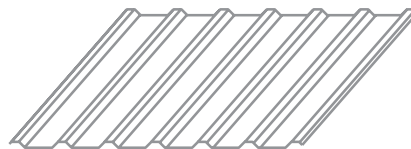
Head Trim
2½"
1"
1"
COLOR
FL-514A

Fasteners
#43 ¼"-14 X 1¼" Driller with 1⅛"O.D. washer
#44 ¼"-14 X ⅞" Lap Tek with 1⅛"O.D. washer
#14 ⅛ X ³⁄₁₆ Stainless Steel Pop Rivet
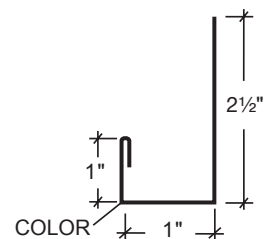
Sealant
½" x ³⁄₃₂ HW-507
½" x ³⁄₃₂
Tri-Bead HW-504
TRI-BEAD
TRIPLE BEAD
Triple Bead HW-502
Urethane White HW-540
Other Colors Available
TUBE SEALANT 11 OZ.
NOTE: 25' Per tube at ¼" bead

Closures
Inside HW-459
Outside HW-460
Beveled Inside*
Beveled Outside*
*Special order - requires two-week lead time

"PBU" PANEL — PRODUCT INFORMATION

ATTACHMENT
"PBU" PANEL

ENDLAP ATTACHMENT
(SEE DETAIL B)

FASTENER #3
HIGH SIDE ATTACHMENT
(6 FASTENERS PER PANEL)

SLOPE

"PBU" PANEL

FASTENER #3
EAVE ATTACHMENT
(6 FASTENERS PER PANEL)

FASTENER #3
INTERMEDIATE PURLIN
ATTACHMENT (3 FASTENERS
PER PANEL)

FASTENER #4
20" O.C.

½" X ³⁄₃₂"
TAPE SEALER

DETAIL "A"

6"

FASTENER #3
6 EACH PER PANEL

"PBU" PANEL

½" x ³⁄₃₂"
TAPE SEALER

DETAIL "B"

NOTES:

Sidelap

1. ½" X ³⁄₃₂" tape sealer must be installed between weather infiltration point and fastener.
2. Install Fastener #4 (¼"-14 X ⅞" Long Life Lap Tek) at 20" on center.
3. When possible, install panels such that sidelaps are nested away from prevailing winds.
4. Fastener #4A (¼"-14 X ⅞" Lap Tek) are available as an alternate when long life fasteners are not desired.

Endlap

1. Stack 2 continuous layers of ½" x ³⁄₃₂" tape sealer on top of each other and must be installed between weather infiltration point and fastener.
2. Install Fastener #3 (12-14 X 1¼" Long Life driller) on each side of major ribs of panel (two fasteners per foot).
3. Fastener #17A (12-14 X 1¼" self-driller) are available as an alternate when long life fasteners are not desired.

PRODUCT INFORMATION   "PBR" & "PBU" PANELS

TYPICAL DETAILS
Ridge
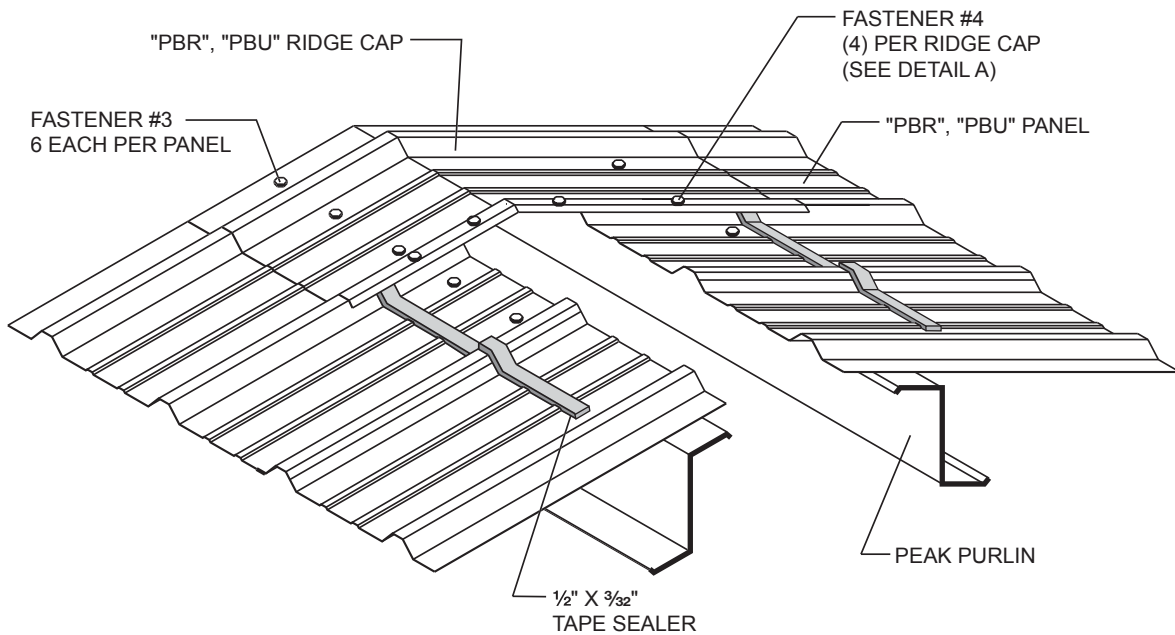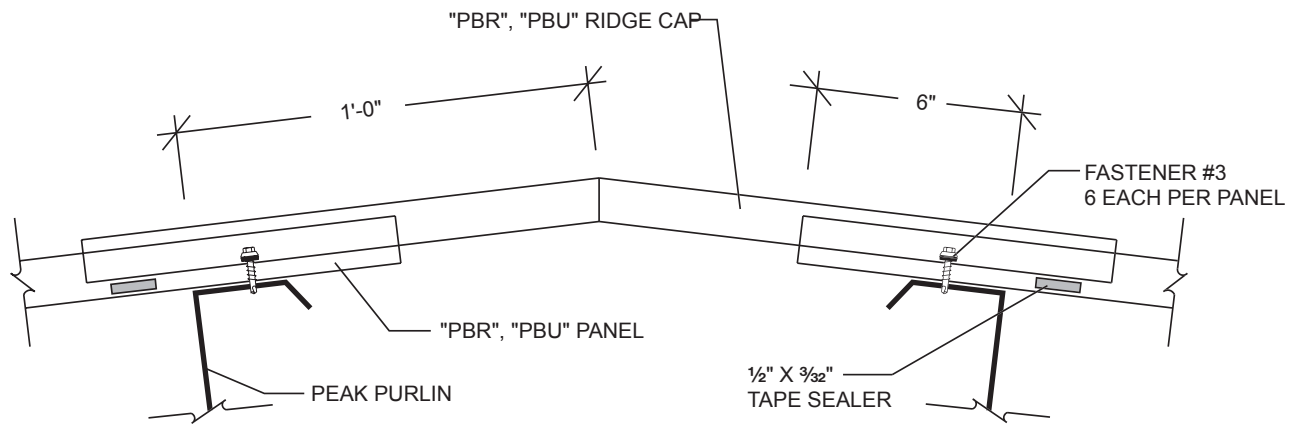
NOTES:

1. When ordering ridge caps, specify roof slope. Refer to ABC price pages for maximum slope for each ridge cap.
2. Install ½" X ³⁄₃₂" tape sealer across full with of ridge cap on both sides. Tape sealer must be installed between weather infiltration point and fasteners.
3. Install ½" X ³⁄₃₂" tape sealer to the sidelap of the ridge cap that will lap onto adjacent ridge cap. Tape sealer must be installed between weather infiltration point and fasteners.
4. Install Fastener #3 (12-14 X 1¼" Long Life driller) on both sides of major ribs (two per foot).
5. Install four Fastener #4 (¼"-14 X ⅞" Long Life Lap Tek) in each ridge cap sidelap. Place (1) one Lap Tek in high rib on each side of the ridge cap centerline and one in line with purlin fastener on each side of ridge line.

"PBR" & "PBU" PANELS

PRODUCT INFORMATION

TYPICAL DETAILS
High Side Eave
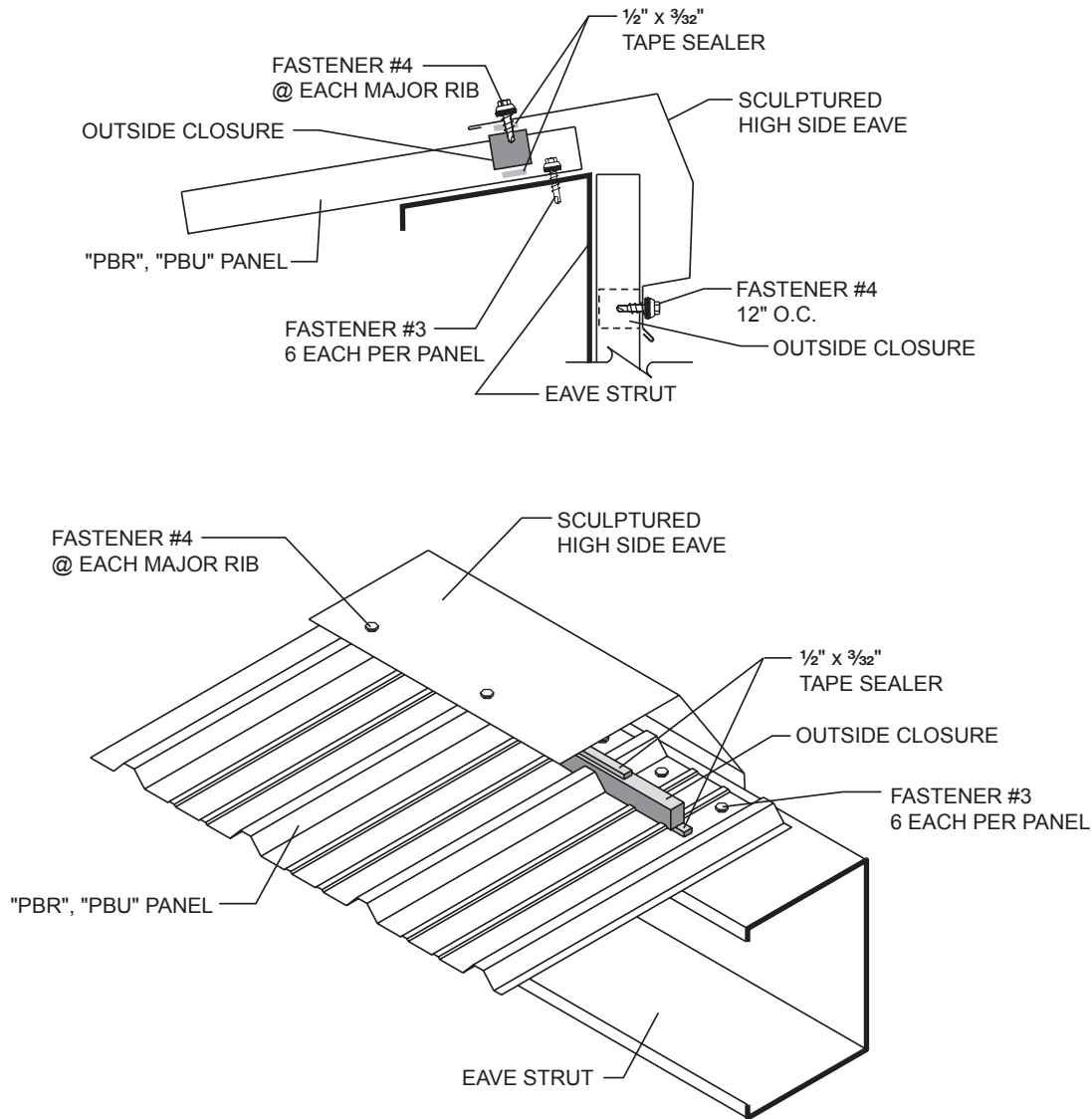
FASTENER #4
@ EACH MAJOR RIB

½" x ³⁄₃₂"
TAPE SEALER

OUTSIDE CLOSURE

SCULPTURED
HIGH SIDE EAVE

"PBR", "PBU" PANEL

FASTENER #4
12" O.C.

OUTSIDE CLOSURE

FASTENER #3
6 EACH PER PANEL

EAVE STRUT

FASTENER #4
@ EACH MAJOR RIB

SCULPTURED
HIGH SIDE EAVE

½" x ³⁄₃₂"
TAPE SEALER

OUTSIDE CLOSURE

FASTENER #3
6 EACH PER PANEL

"PBR", "PBU" PANEL

EAVE STRUT

NOTES:

1. Install outside closure, with ½" X ³⁄₃₂" tape sealer top and bottom, across width of "PBR" & "PBU" panels.
2. Install Sculptured High Side Eave to "PBR" & "PBU" panels at each major rib with Fastener #4 (¼"-14 X ⅞" Long Life Lap Tek). Sculptured high side eave trim should overhang outside closures ½" - 1".
3. Attach front face of sculptured high side eave trim to wall with fasteners or cleat as required for wall substrate.
4. Trim laps should be approximately 3" with sufficient pop rivets to hold lap together. Apply bead of urethane sealant between trim at 3" lap.

PRODUCT INFORMATION   "PBR" & "PBU" PANELS

TYPICAL DETAILS
Hip

FASTENER #4
@ EACH MAJOR RIB

½" x ³⁄₃₂" TAPE SEALER

HIP FLASHING

BEVELED
OUTSIDE CLOSURE

HIP PLATE

FASTENER #12A SDS
(2 @ EACH PURLIN)

FASTENER #3
6 EACH PER PANEL

PURLIN

HIP FLASHING

FASTENER #4
@ EACH MAJOR RIB

"PBR" & "PBU" PANEL

½" x ³⁄₃₂" TAPE SEALER

PURLIN

FASTENER #12A SDS
(2 @ EACH PURLIN)

BEVELED
OUTSIDE CLOSURE

HIP PLATE
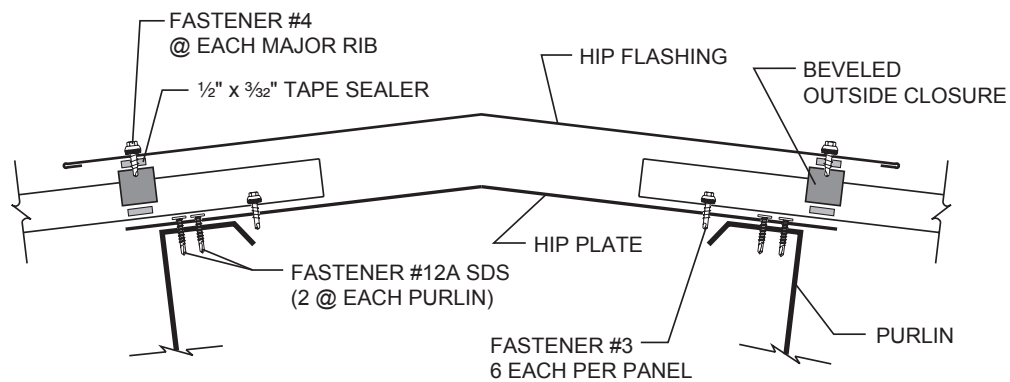
NOTES:

1. Bevel cut and install "PBR" & "PBU" panels to follow bevel of hip.
2. Install beveled outside closures to panels, with ½" x ³⁄₃₂" tape sealer top and bottom, following bevel of hip. Beveled closures must be special ordered and require a two week lead time.
3. Install hip flashing to panel at each major rib with Fastener #4 (¼"-14 X ⅞" Long Life Lap Tek). Hip flashing should overlap outside closures ½"-1".
4. Trim laps should overlap approximately 3" with a bead of urethane sealant in between. Install a sufficient amount of pop rivets to hold lap together.

TYPICAL DETAILS
Valley

TRI-BEAD
TAPE SEALER

BEVELED INSIDE
CLOSURE

VALLEY FLASHING

TRIPLE BEAD
TAPE SEALER

"PBR", "PBU" PANEL

FASTENER #3
6 EACH PER PANEL

VALLEY PLATE

4½" FOR STANDARD VALLEY
9" FOR EXTENDED VALLEY

"PBR", "PBU" OR PANEL

PURLIN

VALLEY TRIM

BEVEL CUT PANEL
TO MATCH SLOPE
OF VALLEY TRIM

FASTENER #3
(12) PER PANEL

TRIPLE BEAD
TAPE SEALER

TRI-BEAD
TAPE SEALER

INSIDE CLOSURE
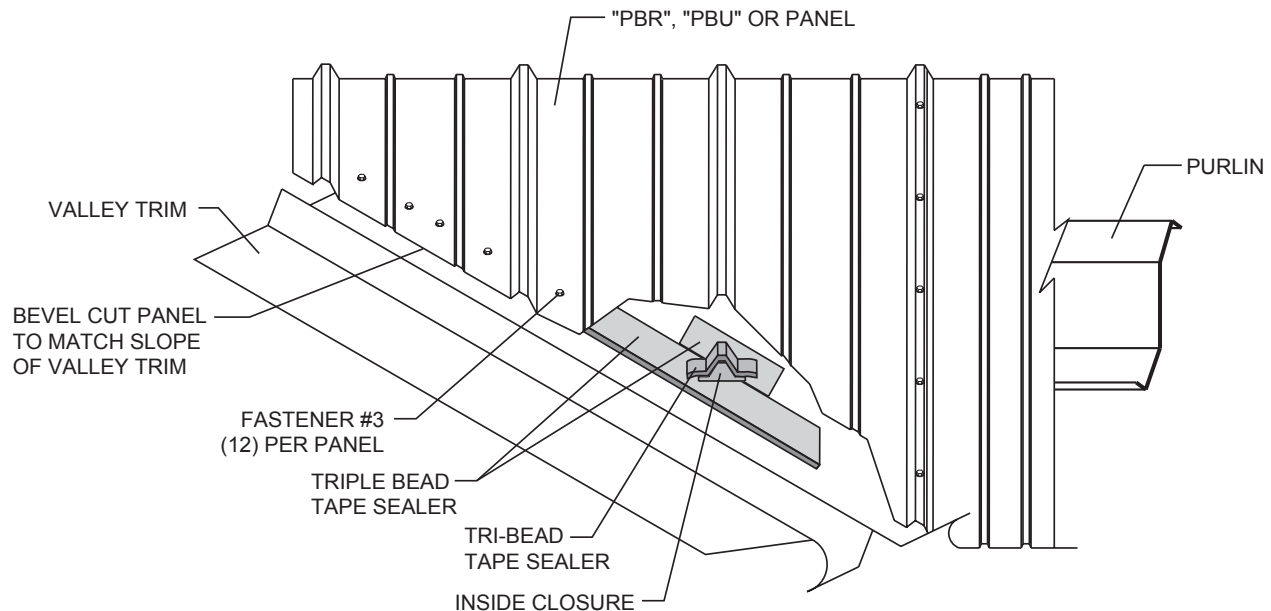
NOTES:

1. For valleys 30' or less in length, use standard valley trim. Valleys over 30' in length require extended valley trim.
2. Apply triple bead tape sealer to valley trim parallel to the slope of the valley. Lower edge of tape sealer should be 4½" from center of valley for standard valleys and 9" from the center of the valley for extended valleys.
3. Install high rib section of inside closure that has been field cut from standard 3'-0" straight closure. Place the cut closure square with the rib of the panel. Install Tri-Bead tape sealer to top of inside closure prior to laying panel edge down on top of the cut closure. The triple bead tape with proper fastener sequence will seal the minor ribs of the panel that are between the major ribs.
4. Bevel cut "PBR" & "PBU" panels to fit slope of valley and install to valley with Fastener #3 (12-14 X 1¼" Long Life driller) at 4" on center. Fasteners must be installed through the closures and into triple bead tape sealer.
5. Trim laps should overlap approximately 6" with a bead of urethane sealant in between. Do not rivet valley laps together. If laps gap open, install Fastener #4 (¼"-14 X ⅞" Long Life Lap Tek) into each side of water diverter while holding lap tightly together.
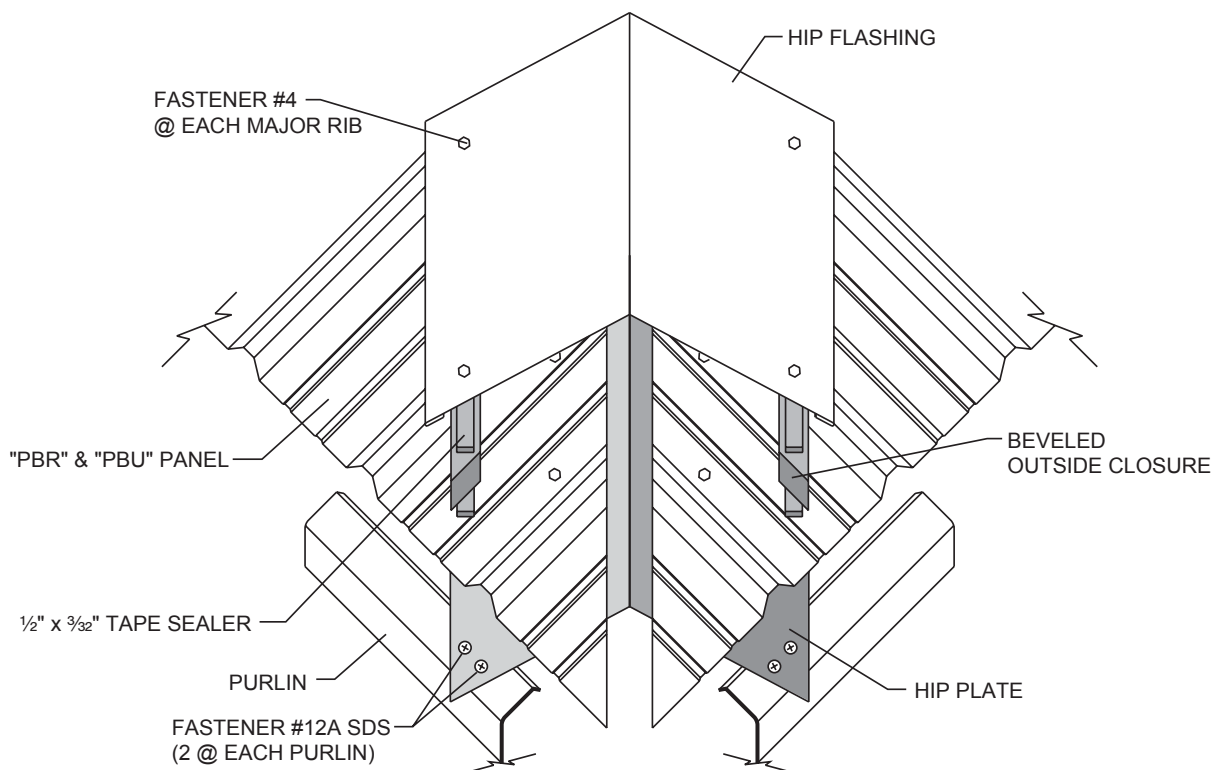
PRODUCT INFORMATION   "PBR" & "PBU" PANELS

TYPICAL DETAILS
Gutter

FASTENER #4 — ½" x ³⁄₃₂" TAPE SEALER   "PBR" & "PBU" PANEL
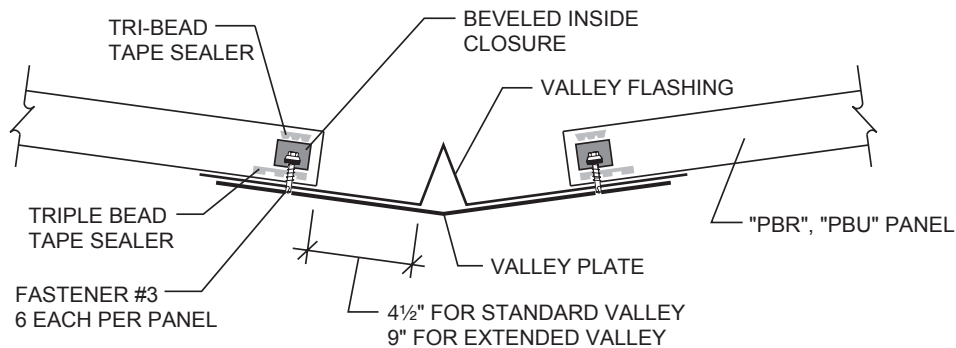
INSIDE CLOSURE

GUTTER STRAP

FASTENER #4

INSULATION

SCULPTURED EAVE GUTTER

DOUBLE FACED TAPE

FASTENER #3 (6 EACH PER PANEL)

FASTENER #14 POP RIVET (2 PER TRIM PIECE)

WALL PANEL

EAVE STRUT

½" x ³⁄₃₂" TAPE SEALER   INSIDE CLOSURE   "PBR"& "PBU" PANEL

FASTENER #4

GUTTER STRAP

FASTENER #4

INSULATION

SCULPTURED HANG ON GUTTER

DOUBLE FACED TAPE

FASTENER #3 6 EACH PER PANEL

FASTENER #14 POP RIVET (2 PER TRIM PIECE)

WALL PANEL

½" x ³⁄₃₂" TAPE SEALER

BOX PANEL CAP TRIM

EAVE STRUT

NOTES:

Eave Gutter

1. Attach gutter to eave strut with three Fastener #14 pop rivets per section.
2. Install inside closures to top leg of gutter with ½" x ³⁄₃₂" tape sealer top and bottom.
3. Install "PBR" & "PBU" panel with Fastener #3 (12-14 X 1¼" Long Life driller) on each side of major ribs (two fasteners per foot). Fasteners must be installed up slope from inside closures.
4. Gutter laps should be approximately 3" with a bead of urethane sealant in between. Install a sufficient amount of pop rivets to hold lap together.
5. Install gutter straps 3'-0" on center with Fastener #4 (¼"-14 X ⅞" Long Life Lap Tek) fasteners at each end.

Hang-on Gutter

1. Attach Box Panel Cap Trim to top of eave strut with pop rivet #14 (three per 10'-0" section).
2. Install inside closure on top of Box Panel Cap Trim with ½" x ³⁄₃₂" tape sealer top and bottom of closure.
3. Install "PBR" & "PBU" panels with Fastener #3 (12-14 X 1¼" Long Life driller)on each side of the major ribs (two fasteners per foot). Fasteners must be installed up slope from inside closures.
4. Attach gutter to roof panels with Fastener #4 (¼"-14 X ⅞" Long Life Lap Tek) at each end.
5. Gutter laps should be approximately 3" with a bead of urethane sealant in between. Install a sufficient amount of Fastener #14 (pop rivets) to hold lap together.
6. Install gutter straps 3'-0" on center with Fastener #4 (¼"-14 X ⅞" Long Life Lap Tek) at each end.

"PBR" & "PBU" PANELS   PRODUCT INFORMATION

TYPICAL DETAILS
Eave Trim

½" X ³⁄₃₂"
TAPE SEALER

"PBR" & "PBU" PANEL

INSIDE CLOSURE

INSULATION

EAVE TRIM

DOUBLE FACED
TAPE

FASTENER #3
(6 EACH PER PANEL)

FASTENER #4
12" O.C.

FASTENER #14
(2 PER TRIM PIECE)

OUTSIDE CLOSURE

WALL PANEL

EAVE STRUT

"PBR" & "PBU" PANEL

½" X ³⁄₃₂" TAPE SEALER
(SEAL TO TAPE SEALER
AT EAVE AND SIDELAP)

SIDELAP ATTACHMENT
(SEE DETAIL A)

FASTENER #3
(6 EACH PER PANEL)

½" X ³⁄₃₂"
TAPE SEALER

INSULATION WITH VINYL
FOLDED BACK AT EAVE

DOUBLE FACED
TAPE

FASTENER #14
(2 PER TRIM PIECE)

½" X ³⁄₃₂" TAPE SEALER

INSIDE CLOSURE

FASTENER #4
20" O.C.

EAVE STRUT

FASTENER #4
12" O.C.

½" X ³⁄₃₂"
TAPE SEALER

EAVE TRIM

DETAIL "A"

NOTES:
1. Install eave trim to structure with three pop rivets per section.
2. Install inside closures along top leg of eave trim with ½" x ³⁄₃₂" tape sealer top and bottom.
3. Install "PBR" & "PBU" panel with Fastener #3 (12-14 X 1¼" Long Life driller) on each side of major ribs (2 fasteners per foot) allowing panel to overhang 1½" plus wall thickness. Fasteners must be installed up slope from inside closures.
4. Attach front face of eave trim to wall with fasteners or cleat as required for wall substrate.
5. Trim laps should overlap approximately 3" with a bead of urethane sealant in between. Install a sufficient amount of Fastener #14 pop rivets to hold lap together.

PRODUCT INFORMATION "PBR" & "PBU" PANELS

TYPICAL DETAILS
Rake

FASTENER #4
12" O.C.

½" X ³⁄₃₂"
TAPE SEALER

½" X ³⁄₃₂"
TAPE SEALER

FASTENER #4
6" O.C.

FIELD BEND
1" LEG

"PBR" & "PBU"
PANEL

FASTENER #17A
EACH SUPPORT

RAKE ANGLE

SCULPTURED
RAKE TRIM

PURLIN

FASTENER #4
12" O.C.

OUTSIDE
CLOSURE

**BEGINNING
ON MODULE**

**FINISHING OFF
MODULE**
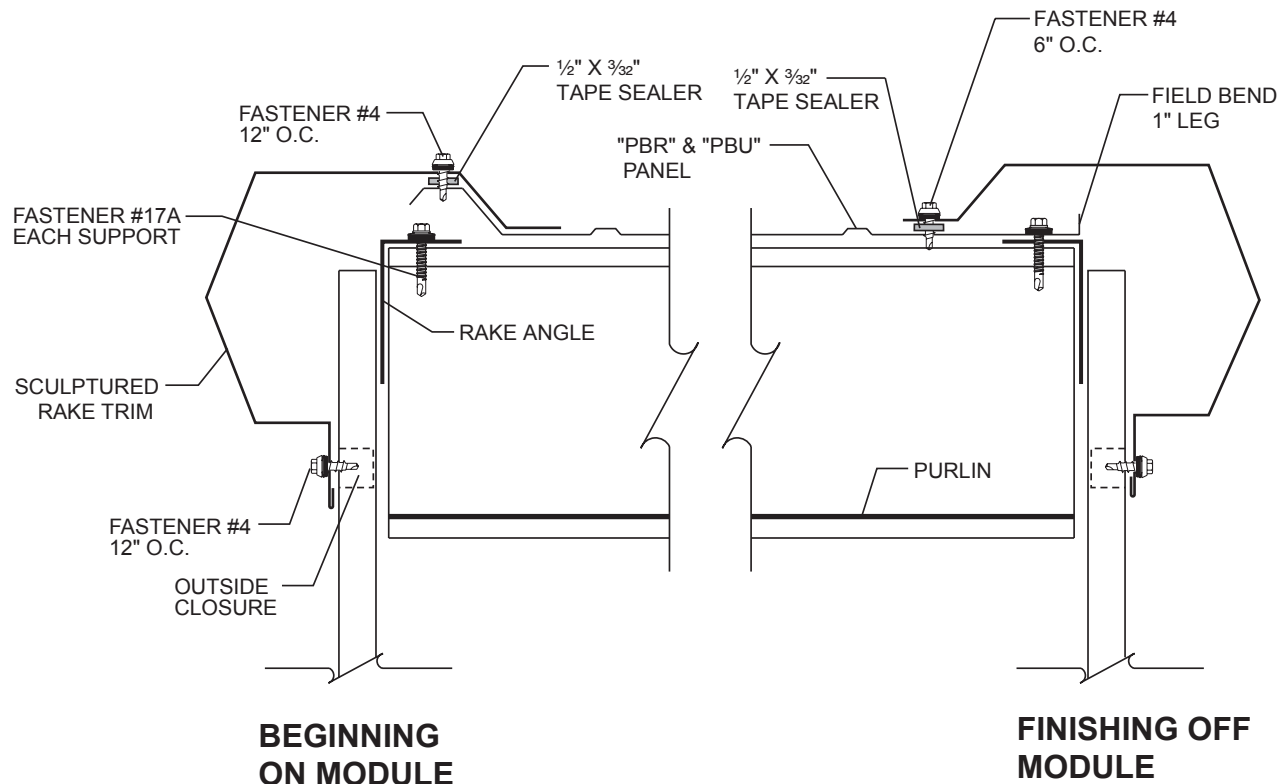
NOTES:

Beginning on Module

1. Install ½" x ³⁄₃₂" tape sealer to top of "PBR" & "PBU" panel rib.
2. Install rake trim to "PBR" & "PBU" panel rib with Fastener #4 (¼"-14 X ⅞" Long Life Lap Teks) at 1'-0" on center.
3. Attach front face of rake trim to wall with fasteners or cleat as required for wall substrate.
4. Trim laps should overlap approximately 3" with a bead of urethane sealant in between. Install a sufficient amount of Fastener #14 pop rivets to hold lap together.

Finishing off Module

1. Cut and field bend a 1" leg on "PBR" & "PBU" panel.
2. Install ½" x ³⁄₃₂" tape sealer to top of "PBR" & "PBU" panel.
3. Install rake trim to "PBR" & "PBU" panel with Fastener #4 (¼"-14 X ⅞" Long Life Lap Teks) at 6" on center.
4. Attach front face of rake trim to wall with fasteners or cleat as required for wall substrate.
5. Trim laps should overlap approximately 3" with a bead of urethane sealant in between. Install a sufficient amount of pop rivets to hold lap together.

"PBR" & PBU" PANELS
PRODUCT INFORMATION

TYPICAL DETAILS
Parapet High Side Eave

PARAPET HIGH SIDE EAVE FLASHING

WALL PANEL

FASTENER #4 @EACH MAJOR RIB

GIRT

INSIDE CLOSURE

OUTSIDE CLOSURE

½" X ³⁄₃₂" TAPE SEALER

FASTENER #3 6 EACH PER PANEL

"PBR" & "PBU" PANEL

PURLIN

WALL PANEL

FASTENER #3

FASTENER #4 @EACH MAJOR RIB

FASTENER #3 6 EACH PER PANEL

PARAPET HIGH SIDE EAVE FLASHING

GIRT

½" X ³⁄₃₂" TAPE SEALER

"PBR" & "PBU" PANEL

OUTSIDE CLOSURE

PURLIN

NOTES:
1. Install outside closure, with ½" x ³⁄₃₂" tape sealer top and bottom, across width of "PBR" & "PBU" panels.
2. Install parapet high side trim to "PBR" & "PBU" panels at each major rib with Fastener #4 (¼"-14 X ⅞" Long Life Lap Teks). Trim should overhang outside closures ½" - 1".
3. Attach top leg of parapet high side trim to wall with fasteners as required for wall substrate.
4. Trim laps should overlap approximately 3" with a bead of urethane sealant in between. Install a sufficient amount of pop rivets to hold lap together.

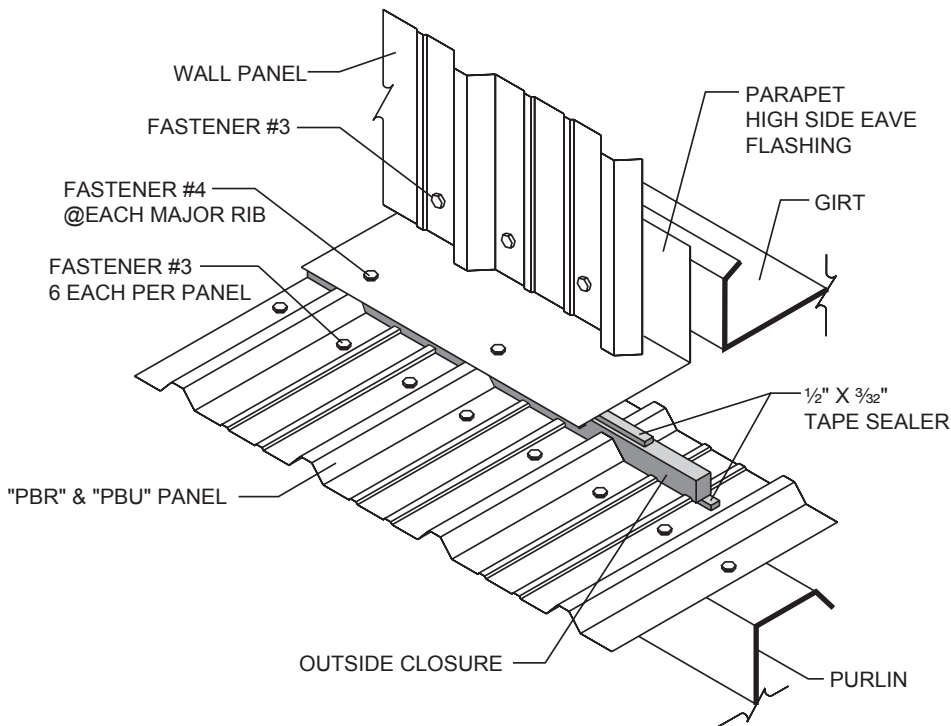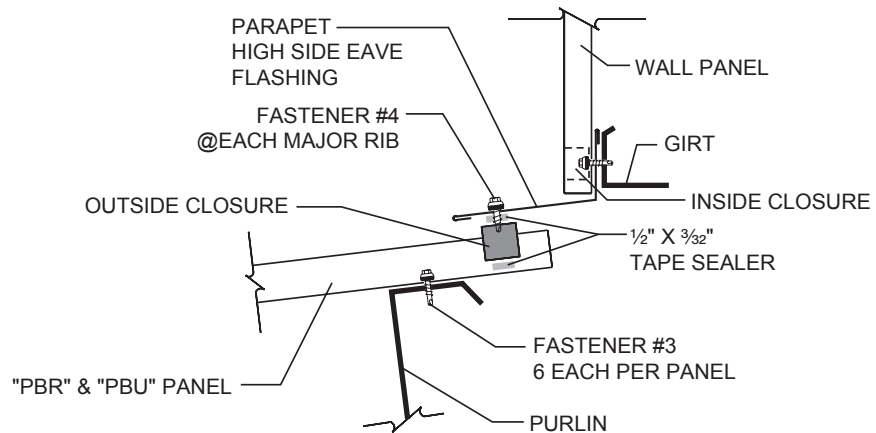# PRODUCT INFORMATION — "PBR" & "PBU" PANELS

TYPICAL DETAILS
Parapet Rake

PARAPET RAKE TRIM

FASTENER #4
6" O.C.

FASTENER #4
12" O.C.

INSIDE CLOSURE

FASTENER #14
POP RIVET
(2 PER TRIM PIECE)

½" X ³⁄₃₂"
TAPE SEALER

"PBR" & "PBU"
PANEL

FASTENER #3

FIELD BEND
1" LEG

FASTENER #17A
@ EACH PURLIN

2" X 4" ANGLE

PURLIN

NOTES:

Beginning on Module

1. Install ½" x ³⁄₃₂" tape sealer to top of "PBR" & "PBU" panel rib.
2. Install parapet rake trim to "PBR" "PBU" panel rib with Fastener #4 (¼"-14 X ⅞" Long Life Lap Teks) at 1'-0" on center.
3. Attach top leg of parapet rake trim to 2" X 4" angle with Fastener #14 pop rivet. Elevate horizontal leg of parapet trim slightly, to provide for positive drainage of water.
4. Trim laps should overlap approximately 3" with a bead of urethane sealant in between. Install a sufficient amount of Fastener #14 pop rivets to hold lap together.

Finishing off Module

1. Cut and bend a 1" leg on "PBR" & "PBU" panel.
2. Install ½" x ³⁄₃₂" tape sealer to top of "PBR" & "PBU" panel.
3. Install parapet rake trim to "PBR" & "PBU" panel with Fastener #4 (¼"-14 X ⅞" Long Life Lap Teks) at 6" on center.
4. Attach top leg of parapet rake trim to 2" X 4" angle with pop rivets. Elevate horizontal leg of parapet trim slightly, to provide for positive drainage of water.
5. Trim laps should overlap approximately 3" with a bead of urethane sealant in between. Install a sufficient amount of Fastener #14 pop rivets to hold lap together.

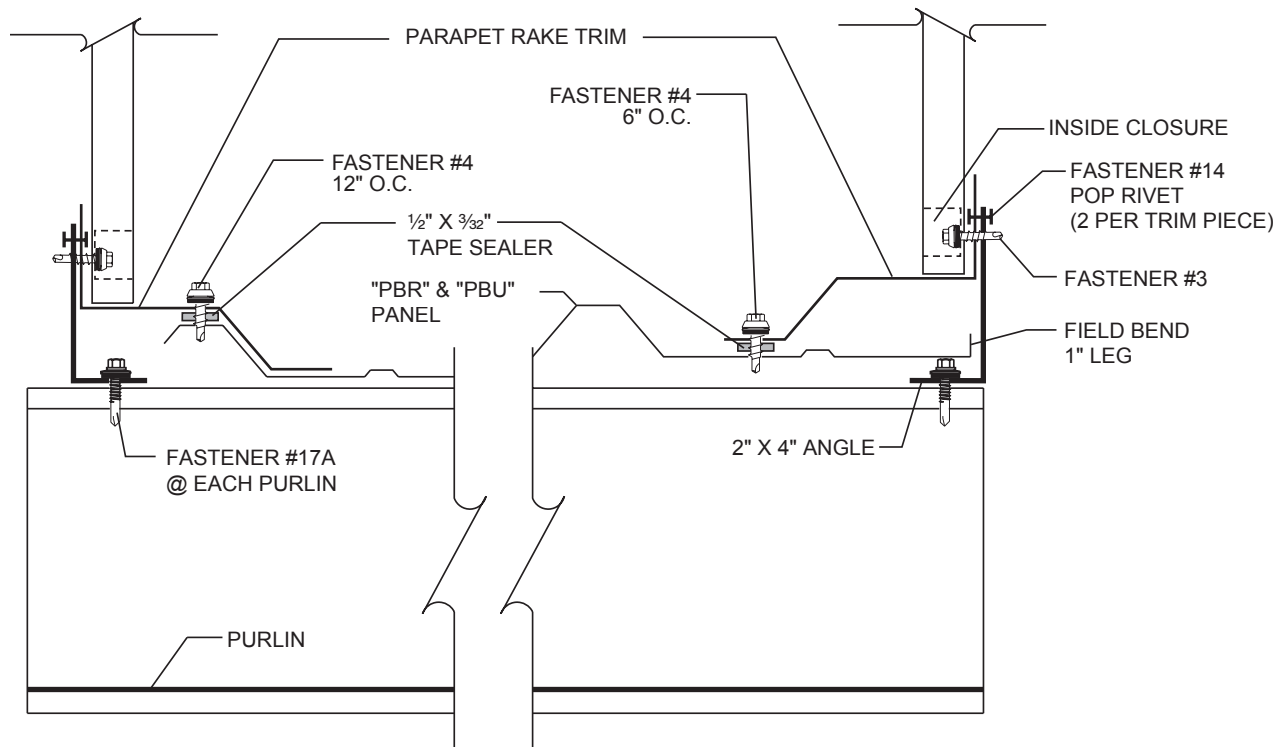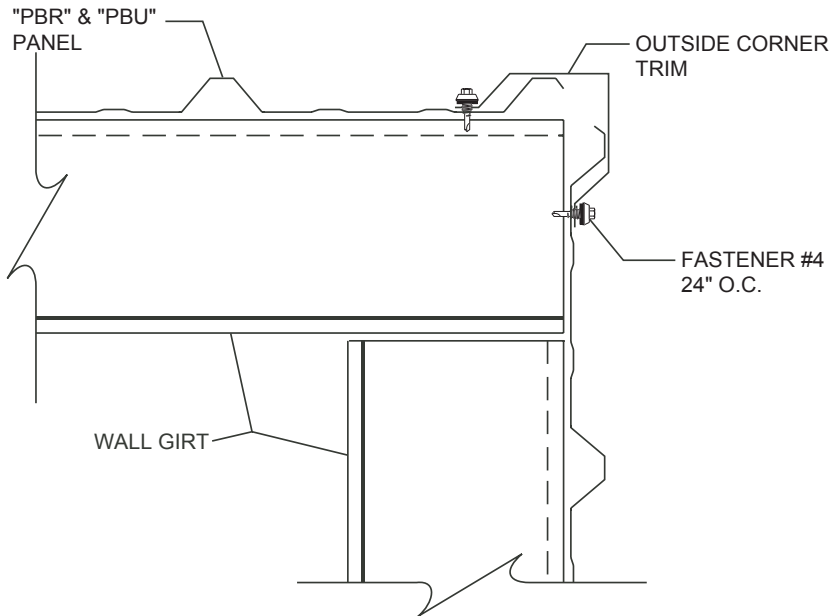# "PBR" & "PBU" PANELS

PRODUCT INFORMATION

TYPICAL DETAILS
Corner

"PBR" & "PBU"
PANEL

OUTSIDE CORNER
TRIM

FASTENER #4
24" O.C.

WALL GIRT

OUTSIDE CORNER DETAIL

WALL GIRT

INSIDE CORNER
TRIM

"PBR" & "PBU"
PANEL
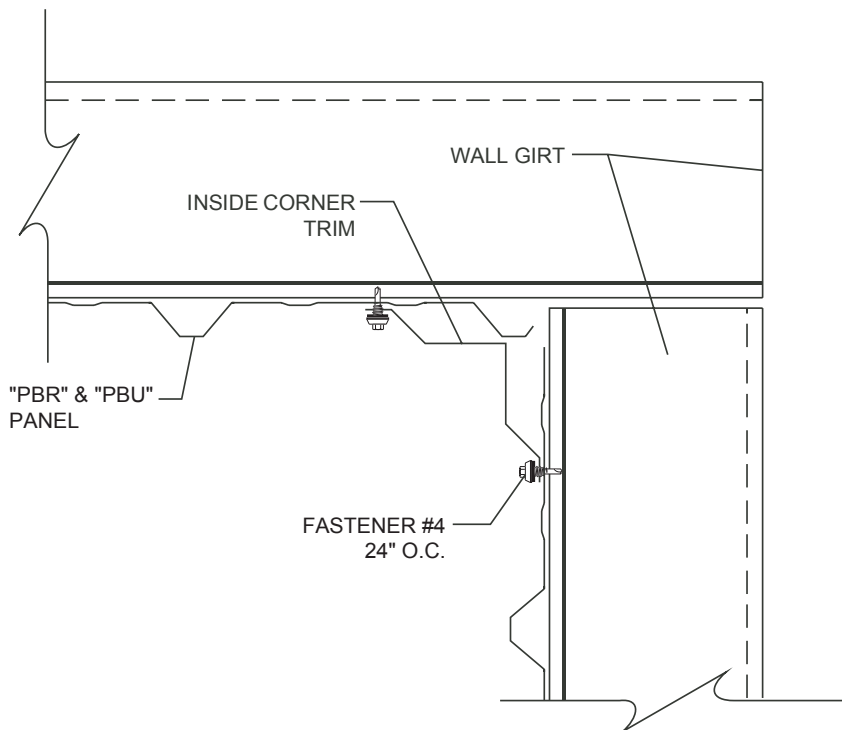
FASTENER #4
24" O.C.

INSIDE CORNER DETAIL

NOTES:

1.   Install corner trim with Fastener #4 (¼ - 14 X ⅞" Long Life Lap Tek) fastener 2'-0" O.C.

PRODUCT INFORMATION   "PBR" & "PBU" PANELS

TYPICAL DETAILS
Corner Box

GUTTER STRAPS 3'-0" O.C.

"PBR" & "PBU" PANEL

SCULPTURED EAVE GUTTER (MITERED)

SCULPTURED RAKE TRIM (MITERED)
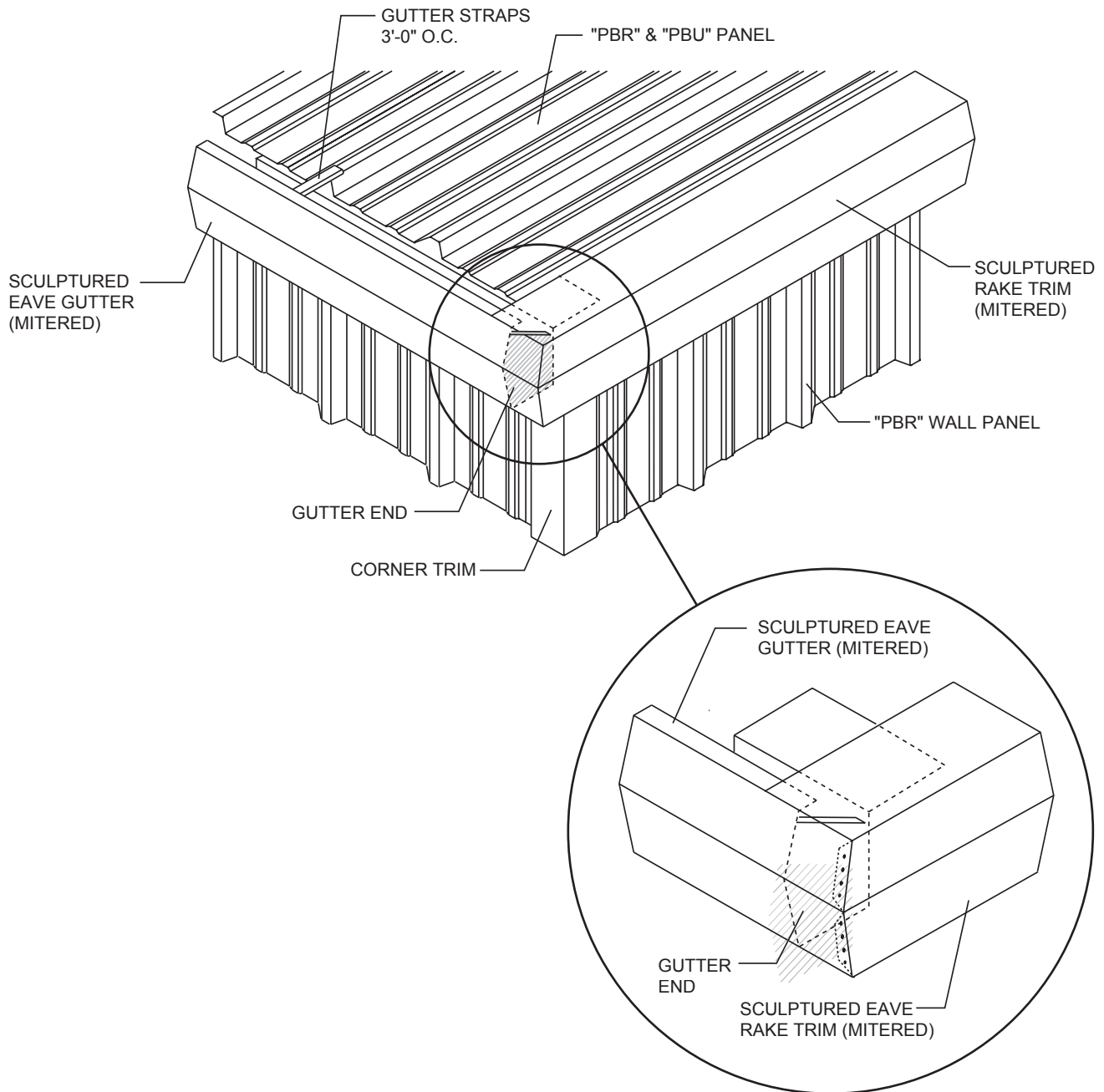
"PBR" WALL PANEL

GUTTER END

CORNER TRIM

SCULPTURED EAVE GUTTER (MITERED)
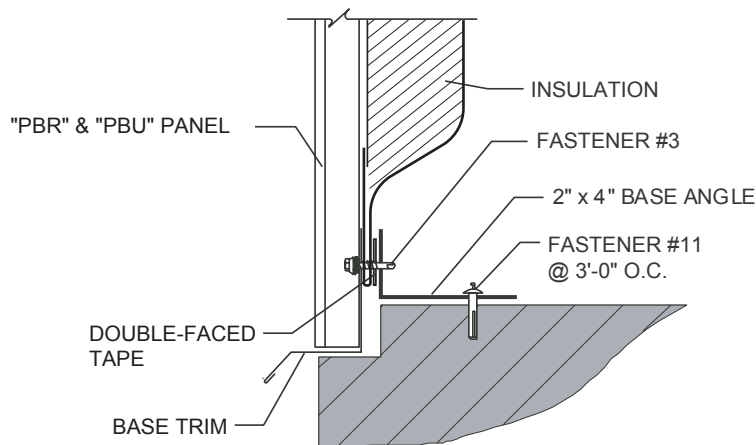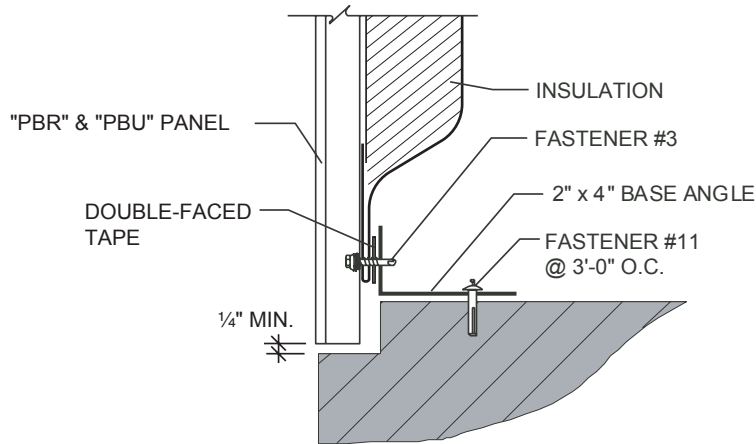
GUTTER END

SCULPTURED EAVE RAKE TRIM (MITERED)

NOTES:

1. Gutter and rake trim must be ordered with a left and right mitered end. To determine left or right, stand on ground and look toward eave. **Roof slope must also be specified.**

TYPICAL DETAILS
Base

INSULATION

"PBR" & "PBU" PANEL

DOUBLE-FACED
TAPE

FASTENER #3

2" x 4" BASE ANGLE

FASTENER #11
@ 3'-0" O.C.

¼" MIN.

INSULATION

"PBR" & "PBU" PANEL

FASTENER #3

2" x 4" BASE ANGLE

FASTENER #11
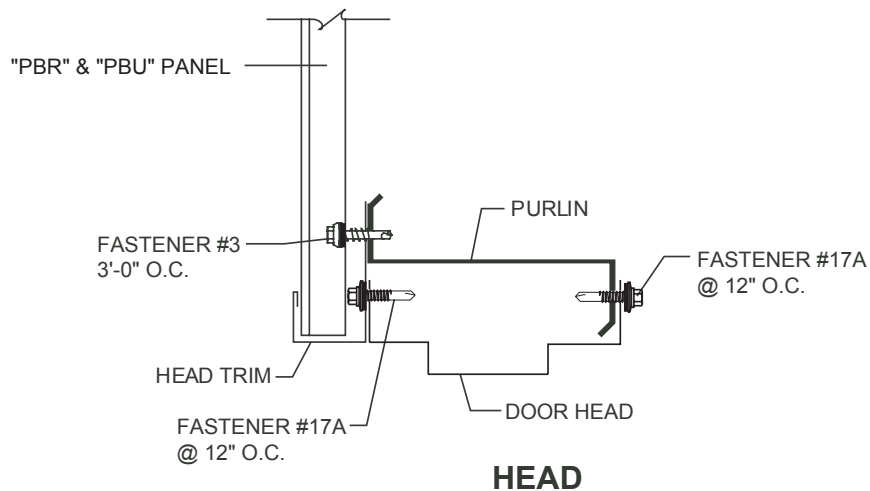@ 3'-0" O.C.

DOUBLE-FACED
TAPE

BASE TRIM

NOTES:
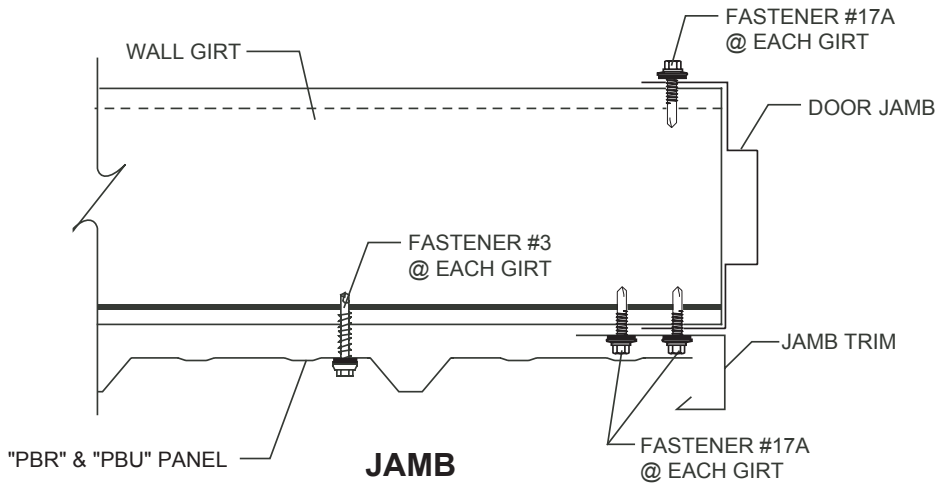1. Wall with vinyl insulation, pull back fiberglass approximately 4" pull over end and staple. Apply double face tape to base angle and stick insulation to it before applying panel and fastening with Fastener #3 (¼ - 14 x 1¼" Long Life Driller), six each per panel.
2. Should base trim be desired, temporarily attach trim to base angle with two Fastener #14 pop rivets until panels are installed.

PRODUCT INFORMATION "PBR" & "PBU" PANELS

TYPICAL DETAILS
Head / Jamb

FASTENER #17A
@ EACH GIRT

WALL GIRT

DOOR JAMB

FASTENER #3
@ EACH GIRT

JAMB TRIM

"PBR" & "PBU" PANEL

JAMB

FASTENER #17A
@ EACH GIRT

"PBR" & "PBU" PANEL

PURLIN

FASTENER #3
3'-0" O.C.

FASTENER #17A
@ 12" O.C.

HEAD TRIM

FASTENER #17A
@ 12" O.C.

DOOR HEAD

HEAD

NOTES:

1.   Install Jamb and Head Trim with pop rivets as required to support flashing during panel installation.

"PBR" & "PBU" PANELS   PRODUCT INFORMATION

INSTALLATION GUIDELINES

I. Pre-Order

A. Prior to ordering panels, all dimensions should be confirmed by field measurement.

II. Job Site Storage and Handling

A. Check the shipment against the shipping list.

B. Damaged material must be noted on bill of lading.

C. Panels should be handled carefully. A spreader bar of appropriate length is recommended for hoisting.

D. Check to see that moisture has not formed inside the bundles during shipment. If moisture is present, panels should be wiped dry, then restacked and loosely covered so that air can circulate between the panels.

III. Application Checklist

A. Check substructure for proper alignment and uniformity to avoid panel distortion.

B. Periodic check of panel alignment is crucial to proper panel installation.

C. For proper appearance, ribs should line up at hips, valleys and ridges.

D. Panels should be cut on ground to minimize cut filings on roof. Keep panels clean during installation. Do not allow panels to come into contact with water runoff from lead, copper or graphite.

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