PBR Panel Installation Specifications

ROOF APPLICATION: Roof slope must be a minimum of a 2/12 pitch to use this product. When using this product butyl lap sealant is recommended for all roof slopes. Substrate needs to be a minimum of 15/32” plywood that is APA rated. The use of 30# felt is needed to provide adequate thermal and moisture barrier protection. Batten strips can also be used to attach this product. Should the building parameters differ from the parameters stated in the fastening schedule, then the fastening calculations must be computed by an engineer to meet the specific wind requirements. If you are unsure of your roofing requirements please contact one of our sales staff to better assist you with your needs.

- Start at the gable or rake opposite of the prevailing wind. The leading edge should be the uneven rib.
- It is imperative that the panels be laid square to insure proper lapping. Many installers pop a chalk line 38” from the gable edge running from the ridge to the eave to use as a guide.
- **Side lap procedure**: Pay careful attention that the uneven rib is over lapped by the even rib. Butyl lap sealant tape is recommended when using this product.
- **End lap procedure**: When long panels are required. Metal Heads recommends the customer to consider lapping the panels a minimum of 16” to insure proper drainage. Two strips of butyl sealant tape should be used at the end lap and fastened on the uphill side of the strips of butyl sealant tape.
- **Eave detail procedure**: Metal Heads recommends the use of an eave flashing with butyl sealant tape above and below the closure strip (inside) which will go between the underside of the roofing panel and on the top side of the flashing to avoid water infiltration.
- **Ridge detail procedure**: The appropriate ridge cap is placed on top of the solid closure strips (outside) with butyl sealant tape above and below the closure fastened through each rib at 12” on center. A vented closure strip can also be used to provide adequate air flow in and out of your attic. A longer screw (2”-2.5”) is recommended to be used to fasten the ridge. Each section of ridge cap needs to be overlapped a minimum of 12 inches.
- **Fasteners**:Metal to Wood application- PBR panels should be fastened by a minimum #9 x 1.5” wood grip. Metal to Metal application- PBR panels should be fastened by a minimum #12 x 1” Tek screw. A lap screw is recommended every 24” down the length of the panel.
- **Siding Applications**: PBR panels used as siding are side lapped the same as in the roofing application. It is best to start a siding sheet at a large opening (i.e. sliding door, window, door etc.) so that the panels are square. Butyl sealant tape is not required for side lap application. However, butyl sealant tape is recommended where any closures are required.
- **Trimming and cutting steel panels**: Whether cutting with the profile (length-wise) or across the profile (width-wise), it is best to use a steel cutting blade or an abrasive, self consuming (carborundum) blade with an electric saw, hand tinsnips or a nibbler. It is very important to cut panels one at a time with the finished side or panel facing down on wood blocks. Care should be taken to ensure that the hot metal particles and filings from the cutting do not become embedded in the panel.

- **Note**: Filings from screw cuttings must be cleaned off the panels after screws have been applied through the panel to avoid rust marks or “bleeding” on the panels. Store only in a dry place. Stack flat on blocks or racks to protect bottom panels. Failure to comply with the above procedures relieves Metal Heads responsibility of damage to or deterioration of the finish and voids any paint or finish warranty.

May be through fastened roof panel over 1x4 wood purlins (optional) over one layer of asphalt shingles (optional) fastened thru to min. 15/32” APA Plywood decking substrate. Roof panel may be fastened to APA plywood decking without the options listed above. Non-Structural application. Non-HVHZ application.
FASTENER PATTERN FOR INTERIOR SUPPORTS

FASTENER PATTERN FOR PANEL END
AND PANEL END LAPS
VALLEY

PB2 PANEL

BEVELED OUTSIDE CLOSURE
#9 x 1 1/2" WOODGRIP SCREW

DOUBLE BEAD TAPE SEALER

VALLEY TRIM

1X4 WOOD PURLIN

2" - 6"
J-MOLD

RAT GUARD
TRANSITION
DOUBLE ANGLE

END WALL
EAVE DRIP

PIPE FLASHING
RESIDENTIAL TRIM DETAILS

CHIMNEY DETAILS

VERSION 1

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

FLASH ASW-1 FIELD MODIFY AS REQUIRED

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

BUTYL SEALANT TAPE

ROOF PANEL

UNDERLAYMENT

ROOF STRUCTURE
RESIDENTIAL TRIM DETAILS

CHIMNEY DETAILS

VERSION 2

BRICK

CONTINUOUS SIKAFLEX
CAULK @ PERIMETER

SAW CUT REGLET 3/4" X 1" DEEP, BLOW OUT
DUST & FILL WITH SIKAFLEX 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
RESIDENTIAL TRIM DETAILS

CHIMNEY ENDWALL

- Saw cut reglet 1/2" - 1" deep, blow out dust & fill with SikaFlex sealant. Set flash & fasten with compatible masonry anchor.
- 2" fastener @ every main rib
- Flash ASW-1 field modified to fit
- Butyl sealant tape top & bottom of closure
- Outside closure
- Roof panel
- Underlayment
- Roof structure