

Technical/Installation Information

IMPORTANT NOTICE

READ THIS MANUAL COMPLETELY PRIOR TO BEGINNING THE INSTALLATION OF THE Retro-R[®] PANELS. THE MANUFACTURER DETAILS MUST BE FOLLOWED AS A MINIMUM TO INSURE APPROPRIATE WARRANTIES WILL BE ISSUED.

ALWAYS INSPECT EACH AND EVERY PANEL AND ALL ACCESSORIES BEFORE INSTALLATION. NEVER INSTALL ANY PRODUCT IF ITS QUALITY IS IN QUESTION. NOTIFY MBCI IMMEDIATELY IF ANYPRODUCTISBELIEVEDTOBEOUTOFTOLERANCE, SPECIFICATIONOR HAS BEEN DAMAGED DURING SHIPMENT.

IF THERE IS A CONFLICT BETWEEN PROJECT INSTALLATION DRAWINGS PROVIDED OR APPROVED BY THE MANUFACTURER AND DETAILS IN THIS MANUAL, PROJECT INSTALLATION DRAWINGS WILL TAKE PRECEDENCE.

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The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the North American Specification for the Design of Cold-Formed Steel Structural Members published by the American Iron and Steel Institute to facilitate design. This Specification contains the design criteria for cold-formed steel components. Along with the Specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer.

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, MBCI reserves the right to discontinue products at any time or change specifications and/ or designs without incurring obligations. To ensure you have the latest information available, please inquire or visit our website at www.mbci.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.

For complete performance specifications, product limitations, and disclaimers, please consult MBCI's Paint and Galvalume Plus[®] warranties. Upon receipt of payment in full, these warranties are available upon request for all painted or Galvalume Plus[®] prime products. Sample copies can be found at www.mbci.com or contact your local MBCI Sales Representative.



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PRODUCT INFORMATION

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 $\frac{1}{2}$:12 or greater roof slopes.
- 3. Field applied tape sealant is required at panel sidelaps and endlaps.
- 4. PBR panel is a through-fastened panel. For proper fastener application, see page 9 and page 10.
- 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.
- 6. Galvalume material must not come in contact with concrete or pressure treated lumber.

FACTORY MUTUAL APPROVALS

RATING	PROFILE	WIDTH (IN)	GAUGE	PURLIN SPACING	PURLIN GA.	FASTENER TYPE	NUMBER OF FASTENERS	STITCH FASTENER	STITCH FASTENER SPACING
1-135	PBR1	36	24	5'-3 1/4"	16	1/4-14 X 1 1/4 ZAC3	3	1/4-14 X 7/8 ZAC11	20" o.c.
1-165	PBR1	36	24	5'-3 1/4"	16	1/4-14 X 1 1/4 ZAC3	6	1/4-14 X 7/8 ZAC11	20" o.c.

NOTES:

¹ All roofs are Class 4471.

³ Fastener #1E.
¹¹ Fastener #4.

State of Florida Approval Numbers: FL1904.2 (roof), FL4191.3 (wall), FL5222 (light transmitting panels).

Miami Dade County NOA: 02.1016.04 (roof), 01.0417.12 (wall), see special installation instructions, www.miamidade.gov



PRODUCT INFORMATION

UL 90 REQUIREMENTS PBR PANEL

Construction #30

26 MSG Min. Gauge PBR Panel over Purlins at 5'- 0 1/4" O.C.

- 1. **For Class 90** Panel to purlin connections to be #14 Hex Head with a 5/8" O.D. washer in a 4-8-4-8 in. pattern. Panel to panel connection to be 20" O.C. with fastener 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 1/4" O.C.

- Panel Fasteners Panel to purlin connections to be #14 Hex Head with a %" 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 1/4" O.C.

- Panel Fasteners Panel to purlin connections to be 12-14 x 1" self-drilling Hex Head with a ⁵/₈" 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. 14 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.

- Panel Fasteners Panel to purlin connections to be 12-14x1" self-drilling Hex Head with a ⁵/₈" 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

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

FIRE RESISTANCE RATING Class A

1. Deck: NC

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.

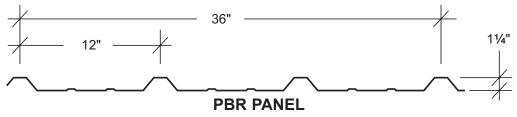
CAUTION

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 MBCI before proceeding.



PRODUCT INFORMATION

GENERAL DESCRIPTION



Coverage Width - 36"

Minimum Slope - 1/2:12

Panel Attachment - See page 11

Panel Substrate - Galvalume[®]

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

Coatings - Galvalume $Plus^{\mathbb{R}}$, Signature^{\mathbb{R}} 200* and Signature^{\mathbb{R}} 300*

GAUGE	GALVALUME PLUS®	SIGNATURE [®] 200*	SIGNATURE [®] 300*
22 gauge	•		
24 gauge	•		
26 gauge	•	•	•
29 gauge	•	•	

PRODUCT SELECTION CHART

• - Available in any quantity.

Minimum quantity may be required.

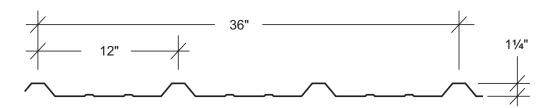
*See Commercial/Industrial color chart for available colors.

Signature is a registered trademark of Metal Building Components, L.P. Galvalume Plus is a registered and protected trademark of BIEC International, Inc. The Galvalume Plus® coating is subject to variances in spangle from coil to coil which may result in noticeable shade variation ininstalled panels. The Galvalume Plus® coating is also subject to differential weathering after panel installation. Panels may appear to be different shades due to this weathering characteristic. If a consistent appearance is required, MBCI recommends that pre-painted panels be used in lieu of Galvalume Plus®. Shade variation in panels manufactured from Galvalume Plus® coated material do not diminish the structural integrity of the product. These shade variations should be anticipated and are not a cause for rejection.



PRODUCT INFORMATION

PBR PANEL



			SECT	ION PROPER	TIES			
			NEG	GATIVE BEND	ING	POS	ITIVE BENDING	
PANEL	Fy	WEIGHT	lxe	Sxe	Махо	lxe	Sxe	Махо
GAUGE	(KSI)	(PSF)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)
29	60*	0.75	0.0215	0.0325	1.2656	0.0238	0.0230	0.9859
26	60*	0.94	0.0309	0.0449	1.8019	0.0382	0.0381	1.6759
24	50	1.14	0.0420	0.0570	1.7060	0.0551	0.0567	1.6968
22	50	1.44	0.0567	0.0739	2.2119	0.0754	0.0787	2.3553

* Fy is 80-ksireduced to 60-ksi in accordance with the 2012 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members - A2.3.2.

NOTES:

1. All calculations for the properties of PBR Roof panels are calculated in accordance with the 2012 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.

2. Ixe is for deflection determination.

3. Sxe is for bending.

4. Maxo is allowable bending moment.

5. All values are for one foot of panel width.



PRODUCT INFORMATION

PBR ROOF PANEL

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

SPAN	.0133"), Fy = 60 ksi, Fu = 61.5 ksi					-		
TVDE	LOAD TYPE	2.0	4.0		SPAN IN FEET	7.0		0.0
TYPE		3.0 93.75	4.0 52.73	5.0 33.75	6.0 23.44	17.22	8.0 13.18	9.0 10.42
1-span		93.75 67.01	32.53	33.75 16.66	23.44 9.64	6.07	4.07	2.86
	LIVE LOAD/DEFLECTION							
2-span	NEGATIVE WIND LOAD	61.91	37.19	24.61	17.42	12.96	10.00	7.94
	LIVE LOAD/DEFLECTION	70.40	45.18	30.41	21.75	16.28	12.62	9.40
3-span	NEGATIVE WIND LOAD	73.01	44.74	29.96	21.37	15.96	12.36	9.84
	LIVE LOAD/DEFLECTION	80.00	53.43	36.52	22.73	14.32	9.59	6.74
4-span	NEGATIVE WIND LOAD	69.51	42.31	28.22	20.08	14.97	11.58	9.21
	LIVE LOAD/DEFLECTION	77.00	50.82	34.56	24.74	15.58	10.44	7.33
26 Gauge (0.	.0181"), Fy = 60 ksi, Fu = 61.5 ksi							
SPAN	LOAD TYPE				SPAN IN FEET			
TYPE		3.0	4.0	5.0	6.0	7.0	8.0	9.0
1-span	NEGATIVE WIND LOAD	133.48	75.08	48.05	33.37	24.52	18.77	14.83
1-spair	LIVE LOAD/DEFLECTION	119.08	52.22	26.74	15.47	9.74	6.53	4.58
2-span	NEGATIVE WIND LOAD	114.41	66.59	43.33	30.37	22.44	17.24	13.66
2-span	LIVE LOAD/DEFLECTION	105.60	71.09	46.37	32.55	24.07	18.51	13.88
2	NEGATIVE WIND LOAD	138.49	81.62	53.46	37.61	27.86	21.44	17.00
3-span	LIVE LOAD/DEFLECTION	120.00	86.91	57.11	34.86	21.95	14.71	10.33
4	NEGATIVE WIND LOAD	130.70	76.70	50.12	35.22	26.06	20.05	15.89
4-span	LIVE LOAD/DEFLECTION	115.50	81.75	53.58	37.71	23.77	15.93	11.18
24 Gauge (0	.0223"), Fy = 50 ksi, Fu = 60 ksi							
SPAN	LOAD TYPE				SPAN IN FEET	Г		
TYPE	LOAD TYPE	3.0	4.0	5.0	6.0	7.0	8.0	9.0
1-span	NEGATIVE WIND LOAD	126.37	71.08	45.49	31.59	23.21	17.77	14.04
r-span	LIVE LOAD/DEFLECTION	125.69	70.70	38.51	22.28	14.03	9.40	6.60
2	NEGATIVE WIND LOAD	120.59	69.04	44.56	31.09	22.91	47 57	40.00
			09.04	44.50	31.09	22.91	17.57	13.90
2-span	LIVE LOAD/DEFLECTION	117.33	69.40	44.50	31.09	22.91	17.57	13.90
	LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD	117.33 148.17		44.80 55.34				
3-span -			69.40	44.80	31.25	23.03	17.66 21.90 19.34	13.97
3-span -	NEGATIVE WIND LOAD	148.17	69.40 85.44	44.80 55.34	31.25 38.68	23.03 28.53	17.66 21.90	13.97 17.34
	NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	148.17 133.33	69.40 85.44 85.87	44.80 55.34 55.62	31.25 38.68 38.89	23.03 28.53 28.68	17.66 21.90 19.34	13.97 17.34 13.58
3-span - 4-span -	NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	148.17 133.33 139.13	69.40 85.44 85.87 80.03	44.80 55.34 55.62 51.77	31.25 38.68 38.89 36.16	23.03 28.53 28.68 26.66	17.66 21.90 19.34 20.46	13.97 17.34 13.58 16.19
3-span - 4-span - 22 Gauge (0.	NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION .0286"), Fy = 50 ksi, Fu = 60 ksi	148.17 133.33 139.13	69.40 85.44 85.87 80.03	44.80 55.34 55.62 51.77 52.04	31.25 38.68 38.89 36.16 36.35	23.03 28.53 28.68 26.66 26.81	17.66 21.90 19.34 20.46	13.97 17.34 13.58 16.19
3-span - 4-span -	NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	148.17 133.33 139.13	69.40 85.44 85.87 80.03	44.80 55.34 55.62 51.77 52.04	31.25 38.68 38.89 36.16	23.03 28.53 28.68 26.66 26.81	17.66 21.90 19.34 20.46	13.97 17.34 13.58 16.19
3-span 4-span 22 Gauge (0. SPAN TYPE	NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION .0286"), Fy = 50 ksi, Fu = 60 ksi	148.17 133.33 139.13 128.33	69.40 85.44 85.87 80.03 80.43	44.80 55.34 55.62 51.77 52.04	31.25 38.68 38.89 36.16 36.35 SPAN IN FEET	23.03 28.53 28.68 26.66 26.81	17.66 21.90 19.34 20.46 20.57	13.97 17.34 13.58 16.19 14.45
3-span 4-span 22 Gauge (0. SPAN	NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION .0286"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE	148.17 133.33 139.13 128.33 3.0	69.40 85.44 85.87 80.03 80.43 4.0	44.80 55.34 55.62 51.77 52.04 5.0	31.25 38.68 38.89 36.16 36.35 SPAN IN FEET 6.0 40.96 30.50	23.03 28.53 28.68 26.66 26.81	17.66 21.90 19.34 20.46 20.57 8.0	13.97 17.34 13.58 16.19 14.45 9.0
3-span 4-span 22 Gauge (0. SPAN TYPE 1-span	NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION .0286"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD	148.17 133.33 139.13 128.33 3.0 163.85	69.40 85.44 85.87 80.03 80.43 4.0 92.16	44.80 55.34 55.62 51.77 52.04 5.0 58.98	31.25 38.68 38.89 36.16 36.35 SPAN IN FEET 6.0 40.96	23.03 28.53 28.68 26.66 26.81 7.0 30.09	17.66 21.90 19.34 20.46 20.57 8.0 23.04	13.97 17.34 13.58 16.19 14.45 9.0 18.21
3-span 4-span 22 Gauge (0. SPAN TYPE	NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION .0286"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	148.17 133.33 139.13 128.33 3.0 163.85 174.46	69.40 85.44 85.87 80.03 80.43 4.0 92.16 98.14 96.14 90.50	44.80 55.34 55.62 51.77 52.04 58.98 52.70	31.25 38.68 38.89 36.16 36.35 SPAN IN FEET 6.0 40.96 30.50	23.03 28.53 28.68 26.66 26.81 7.0 30.09 19.21	17.66 21.90 19.34 20.46 20.57 8.0 23.04 12.87	13.97 17.34 13.58 16.19 14.45 9.0 18.21 9.04
3-span 4-span 22 Gauge (0. SPAN TYPE 1-span 2-span	NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION .0286"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD	148.17 133.33 139.13 128.33 3.0 163.85 174.46 168.30	69.40 85.44 85.87 80.03 80.43 4.0 92.16 98.14 96.14 90.50	44.80 55.34 55.62 51.77 52.04 58.98 52.70 61.98	31.25 38.68 38.89 36.16 36.35 SPAN IN FEET 6.0 40.96 30.50 43.21	23.03 28.53 28.68 26.66 26.81 7.0 30.09 19.21 31.83	17.66 21.90 19.34 20.46 20.57 8.0 23.04 12.87 24.41	13.97 17.34 13.58 16.19 14.45 9.0 18.21 9.04 19.31
3-span 4-span 22 Gauge (0. SPAN TYPE 1-span	NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION .0286"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	148.17 133.33 139.13 128.33 128.33 163.85 174.46 168.30 158.71	69.40 85.44 85.87 80.03 80.43 4.0 92.16 98.14 96.14	44.80 55.34 55.62 51.77 52.04 58.98 52.70 61.98 58.30	31.25 38.68 38.89 36.16 36.35 SPAN IN FEE T 6.0 40.96 30.50 43.21 40.63	23.03 28.53 28.68 26.66 26.81 7.0 30.09 19.21 31.83 29.91	17.66 21.90 19.34 20.46 20.57 8.0 23.04 12.87 24.41 22.94	13.97 17.34 13.58 16.19 14.45 9.0 18.21 9.04 19.31 18.14
3-span 4-span 22 Gauge (0. SPAN TYPE 1-span 2-span	NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION .0286"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD	148.17 133.33 139.13 128.33 128.33 163.85 174.46 168.30 158.71 207.24	69.40 85.44 85.87 80.03 80.43 4.0 92.16 98.14 96.14 90.50 119.12	44.80 55.34 55.62 51.77 52.04 58.98 52.70 61.98 58.30 77.03	31.25 38.68 38.89 36.16 36.35 SPAN IN FEET 6.0 40.96 30.50 43.21 40.63 53.80	23.03 28.53 28.68 26.66 26.81 7.0 30.09 19.21 31.83 29.91 39.67	17.66 21.90 19.34 20.46 20.57 8.0 23.04 12.87 24.41 22.94 30.44	13.97 17.34 13.58 16.19 14.45 9.0 18.21 9.04 19.31 18.14 24.09

Notes:

1. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members.

2. Allowable loads are applicable for uniform loading and spans without overhangs

3. LIVE LOAD/DEFLECTION load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads

4. NEGATIVE WIND LOAD capacities are for those loads that pull the panel away from its supports. The applicable limit states are flexure shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading

5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application whe utilizing this load chart.

6. Effective yield strength has been determined in accordance with section A2.3.2 of the 2012 NAS specification.

7. The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.

8. This material is subject to change without notice. Please contact MBCI for most current data



PRODUCT INFORMATION

PBR WALL PANEL ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

29 Gauge (0 SPAN	.0133"), Fy = 60 ksi, Fu = 61.5 ks	1			SPAN IN FEET	r		
-	LOAD TYPE	2.0	4.0		-			0.0
TYPE		3.0 93.75	4.0 52.73	5.0 33.75	6.0 23.44	7.0 17.22	8.0 13.18	9.0 10.42
1-span		67.01	41.08	26.29	18.26		10.27	8.11
	LIVE LOAD/DEFLECTION					13.41		
2-span	NEGATIVE WIND LOAD	61.91	37.19	24.61	17.42	12.96	10.00	7.94
	LIVE LOAD/DEFLECTION	70.40	45.18	30.41	21.75	16.28	12.62	10.06
3-span	NEGATIVE WIND LOAD	73.01	44.74	29.96	21.37	15.96	12.36	9.84
	LIVE LOAD/DEFLECTION	80.00	53.43	36.52	26.39	19.89	15.50	12.40
4-span	NEGATIVE WIND LOAD	69.51	42.31	28.22	20.08	14.97	11.58	9.21
	LIVE LOAD/DEFLECTION	77.00	50.82	34.56	24.89	18.72	14.56	11.63
26 Gauge (0	.0181"), Fy = 60 ksi, Fu = 61.5 ks							
SPAN					SPAN IN FEET	Г		
TYPE	LOAD TYPE	3.0	4.0	5.0	6.0	7.0	8.0	9.0
4	NEGATIVE WIND LOAD	133.48	75.08	48.05	33.37	24.52	18.77	14.83
1-span	LIVE LOAD/DEFLECTION	119.08	69.83	44.69	31.04	22.80	17.46	13.79
0	NEGATIVE WIND LOAD	114.41	66.59	43.33	30.37	22.44	17.24	13.66
2-span	LIVE LOAD/DEFLECTION	105.60	71.09	46.37	32.55	24.07	18.51	14.66
	NEGATIVE WIND LOAD	138.49	81.62	53.46	37.61	27.86	21.44	17.00
3-span	LIVE LOAD/DEFLECTION	120.00	86.91	57.11	40.25	29.85	22.99	18.24
	NEGATIVE WIND LOAD	130.70	76.70	50.12	35.22	26.06	20.05	15.89
4-span	LIVE LOAD/DEFLECTION	115.50	81.75	53.58	37.71	27.93	21.50	17.05
					-			
	.0223"), Fy = 50 ksi, Fu = 60 ksi							
SPAN	LOAD TYPE				SPAN IN FEET			
TYPE		3.0	4.0	5.0	6.0	7.0	8.0	9.0
1-span	NEGATIVE WIND LOAD	126.37	71.08	45.49	31.59	23.21	17.77	14.04
i-spail	LIVE LOAD/DEFLECTION	125.69	70.70	45.25	31.42	23.09	17.68	13.97
2-span	NEGATIVE WIND LOAD	120.59	69.04	44.56	31.09	22.91	17.57	13.90
z-span	LIVE LOAD/DEFLECTION	117.33	69.40	44.80	31.25	23.03	17.66	13.97
3-span	NEGATIVE WIND LOAD	148.17	85.44	55.34	38.68	28.53	21.90	17.34
3-span	LIVE LOAD/DEFLECTION	133.33	85.87	55.62	38.89	28.68	22.02	17.43
4-span	NEGATIVE WIND LOAD	139.13	80.03	51.77	36.16	26.66	20.46	16.19
4-span	LIVE LOAD/DEFLECTION	128.33	80.43	52.04	36.35	26.81	20.57	16.28
22 Gauge (0	.0286"), Fy = 50 ksi, Fu = 60 ksi							
SPAN					SPAN IN FEET	Г		
TYPE	LOAD TYPE	3.0	4.0	5.0	6.0	7.0	8.0	9.0
4	NEGATIVE WIND LOAD	163.85	92.16	58.98	40.96	30.09	23.04	18.21
1-span	LIVE LOAD/DEFLECTION	174.46	98.14	62.81	43.62	32.04	24.53	19.38
0	NEGATIVE WIND LOAD	168.30	96.14	61.98	43.21	31.83	24.41	19.31
2-span	LIVE LOAD/DEFLECTION	158.71	90.50	58.30	40.63	29.91	22.94	18.14
0	NEGATIVE WIND LOAD	207.24	119.12	77.03	53.80	39.67	30.44	24.09
3-span	LIVE LOAD/DEFLECTION	195.75	112.25	72.50	50.61	37.29	28.61	22.64
4	NEGATIVE WIND LOAD	194.44	111.53	72.04	50.29	37.06	28.43	22.50
4-span	LIVE LOAD/DEFLECTION	183.56	105.06	67.79	47.29	34.84	26.72	21.14
								=

Notes:

1. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members. 2. Allowable loads are applicable for uniform loading and spans without overhangs

3. LIVE LOAD/DEFLECTION load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure

shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/60 under 10-year wind loading 4. NEGATIVE WIND LOAD capacities are for those loads that pull the panel away from its supports. The applicable limit states are flexure shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading

5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application whe utilizing this load chart.

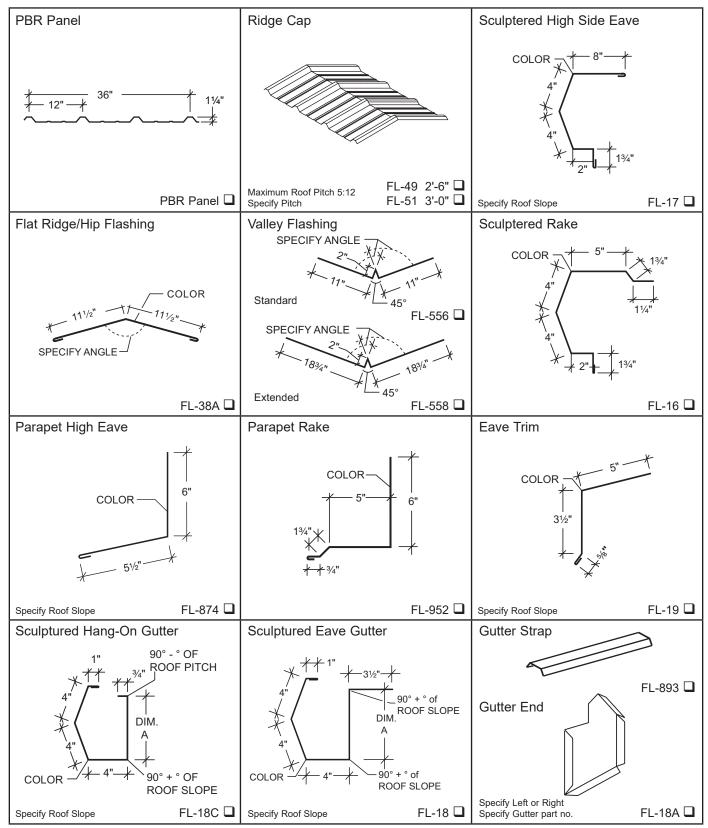
6. Effective yield strength has been determined in accordance with section A2.3.2 of the 2012 NAS specification.

7. The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data 8. This material is subject to change without notice. Please contact MBCI for most current data



PRODUCT INFORMATION

PRODUCT CHECKLIST

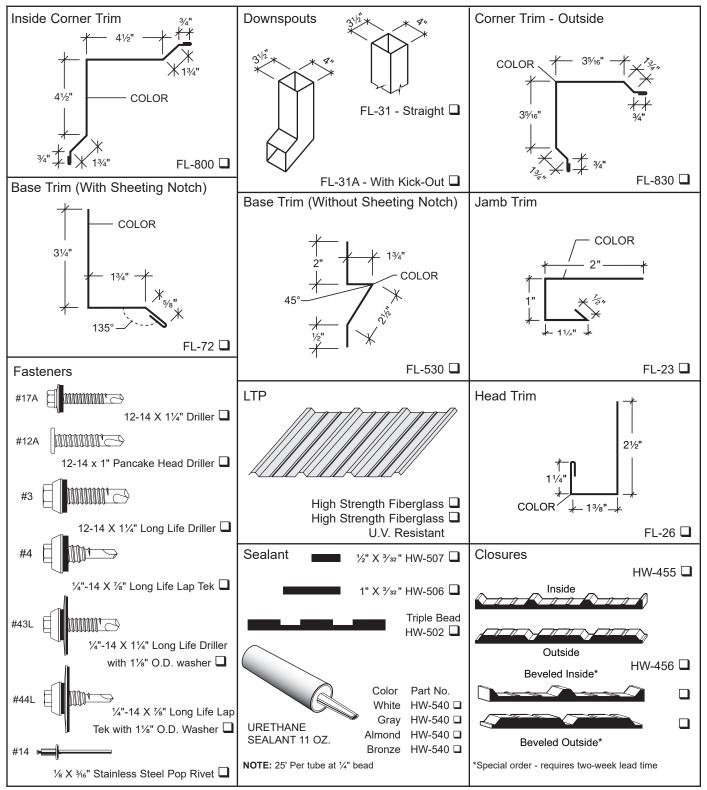


SEE **www.mbci.com** FOR CURRENT INFORMATION



PRODUCT INFORMATION

PRODUCT CHECKLIST



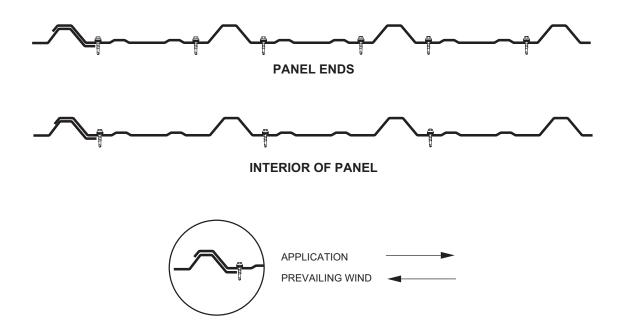
Note: It is the users responsibility to ensure that the installation and use of all light transmitting panels comply with State, Federal and OSHA regulations and laws, including, but not limited to, guarding all light transmitting panels with screens, fixed standard railings, or other acceptable safety controls that prevent fall-through.

SUBJECT TO CHANGE WITHOUT NOTICE



PRODUCT INFORMATION

PBR PANEL FASTENER LOCATIONS

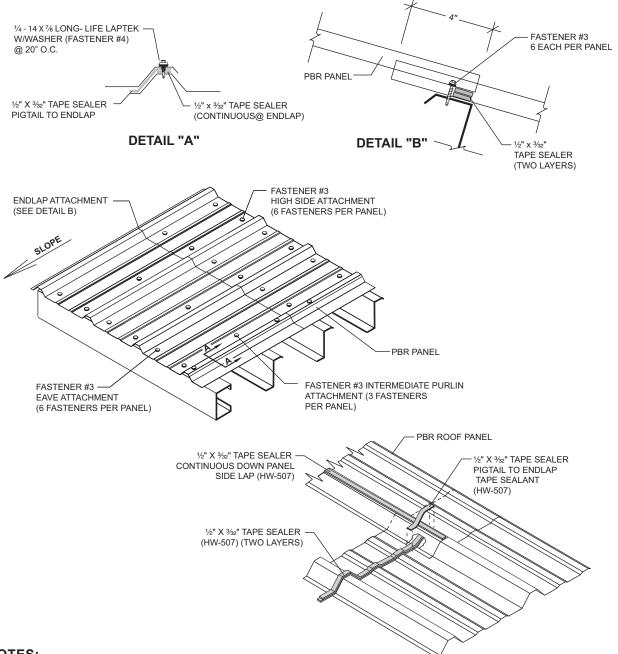


- 1. The PBR panel has an unsymmetrical purlin bearing side lap leg. Panel side lap with extended foot to bear on frame. However, where possible, the panel should be lapped against prevailing wind.
- 2. The above are typical fastener spacings. However, they may not be appropriate for all applications. Consult a professional engineer for use on any specific application.
- 3. Minimum $\frac{1}{2}$ " x $\frac{3}{32}$ " tape sealer required at panel side laps when used as roof panels.
- 4. Side lap fasteners are required. Typical spacing is 20" O.C. However, this spacing may not be appropriate for all applications. Consult a professional engineer for use on any specific application.



PRODUCT INFORMATION

PBR PANEL ATTACHNENT



NOTES:

Sidelap

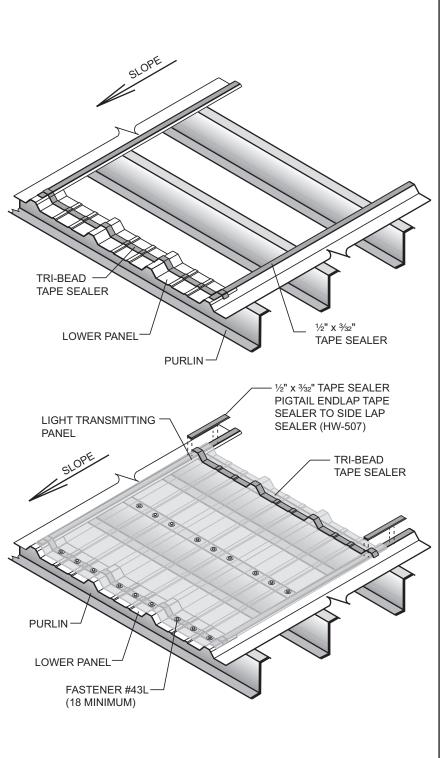
- 1. $\frac{1}{2}$ " X $\frac{3}{32}$ " tape sealer must be installed between weather infiltration point and fastener.
- 2. Install Fastener #4 (1/4"-14 X 7/8" Long Life Lap Tek) at 20" O.C. at roof panel side laps and 24" O.C. at wall panel side laps.
- 3. When possible, install panels such that sidelaps are nested away from prevailing winds.
- 4. Fastener #4A (¼"-14 X ¼" Lap Tek) are available as an alternate when long life fasteners are not desired.

Endlap

- 1. Stack 2 continuous layers of ½" X ³/₂" tape sealer on top of each other and must be installed between weather infiltration point and fastener.
- 2. Install a ½" X 3/22" tape sealer pigtail to complete the seal between the side lap tape sealant and the end lap tape sealant.
- 3. Install Fastener #3 (12-14 X 1¹/₄" Long Life driller) on each side of major ribs of panel (two fasteners per foot).
- 4. Fastener #17A (12-14 X 1¹/₄" self-driller) are available as an alternate when long life fasteners are not desired.



PRODUCT INFORMATION



CONSTRUCTION NO. 542 UL 90 LIGHT TRANSMITTING PANEL INSTALLATION

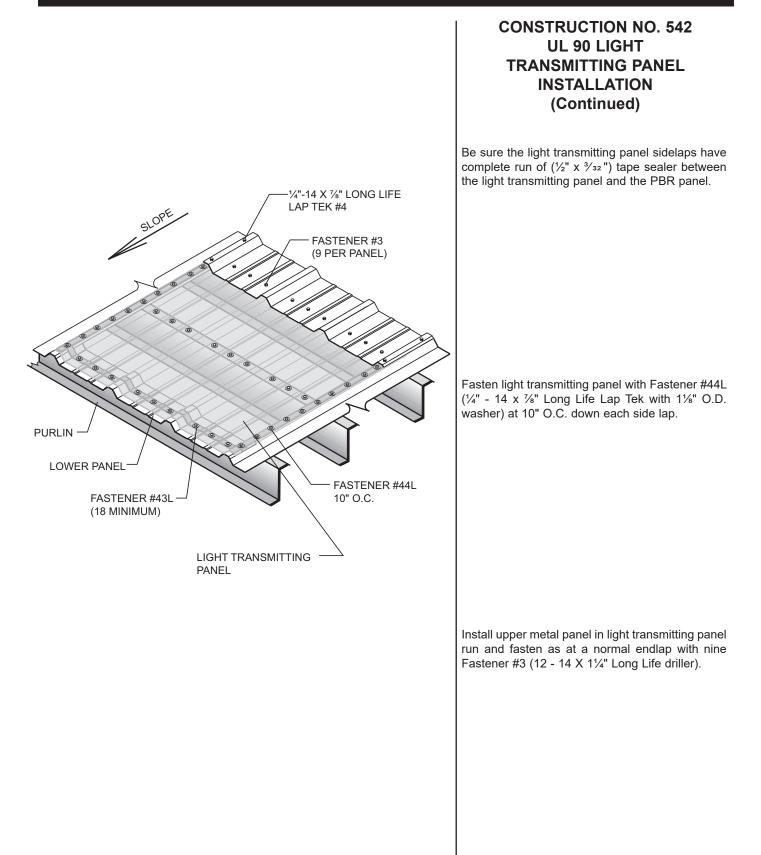
Install roof panels, leaving the light transmitting panel run open, except for lower light transmitting panel run metal panel. Install tape sealer to panel sidelaps and across panel width as normal.

Attach light transmitting panels at the low and midslope connection to the purlin with nine Fastener #43L ($\frac{1}{4}$ - 14 x 1 $\frac{1}{4}$ " Long Life Driller with 1 $\frac{1}{6}$ " O.D. washer) per connection.

Install a $\frac{1}{2}$ " x $\frac{3}{32}$ " tape sealer pigtail to complete the seal between the side lap sealant and the end lap sealant.



PRODUCT INFORMATION





PRODUCT INFORMATION

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 tape sealant is required at panel sidelaps and endlaps.
- 4. PBU panel is a through-fastened panel. For proper fastener application, see page 21 and page 22.
- 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.



PRODUCT INFORMATION

UL 90 REQUIREMENTS PBU PANEL

Construction #39

26 MSG Min. Gauge PBU Panel over Purlins at 5'- 0 1/4" O.C.

1. Panel Fasteners - Panel to purlin connections to be #14 self-drilling, Hex Head with a 5%" 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.

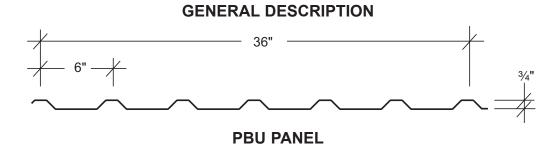
Look for classification marking on product.

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 MBCI before proceeding.



PRODUCT INFORMATION



Coverage Width - 36"

Minimum Slope - 1:12

Panel Attachment - See page 23

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.

Signature is a registered trademark of Metal Building Components, L.P. Galvalume Plus is a registered and protected trademark of BIEC International, Inc. The Galvalume Plus® coating is subject to variances in spangle from coil to coil which may result in noticeable shade variation ininstalled panels. The Galvalume Plus® coating is also subject to differential weathering after panel installation. Panels may appear to be different shades due to this weathering characteristic. If a consistent appearance is required, MBCI recommends that pre-painted panels be used in lieu of Galvalume Plus®. Shade variation in panels manufactured from Galvalume Plus® coated material do not diminish the structural integrity of the product. These shade variations should be anticipated and are not a cause for rejection.



3/4"

20.46

20.57

16.19

14.45

PRODUCT INFORMATION

PBU PANEL 36" 6" -

29 Gauge (0	.0133"), Fy = 60 ksi, Fu = 61.5 ksi							
SPAN					SPAN IN FEE	Г		
TYPE	LOAD TYPE	3.0	4.0	5.0	6.0	7.0	8.0	9.0
	NEGATIVE WIND LOAD	93.75	52.73	33.75	23.44	17.22	13.18	10.42
1-span	LIVE LOAD/DEFLECTION	67.01	32.53	16.66	9.64	6.07	4.07	2.86
2 anon	NEGATIVE WIND LOAD	61.91	37.19	24.61	17.42	12.96	10.00	7.94
2-span	LIVE LOAD/DEFLECTION	70.40	45.18	30.41	21.75	16.28	12.62	9.40
2	NEGATIVE WIND LOAD	73.01	44.74	29.96	21.37	15.96	12.36	9.84
3-span	LIVE LOAD/DEFLECTION	80.00	53.43	36.52	22.73	14.32	9.59	6.74
4	NEGATIVE WIND LOAD	69.51	42.31	28.22	20.08	14.97	11.58	9.21
4-span	LIVE LOAD/DEFLECTION	77.00	50.82	34.56	24.74	15.58	10.44	7.33
26 Gauge (0	.0181"), Fy = 60 ksi, Fu = 61.5 ksi							
SPAN	LOAD TYPE				SPAN IN FEE	Г		
TYPE	LOAD I FPE	3.0	4.0	5.0	6.0	7.0	8.0	9.0
1	NEGATIVE WIND LOAD	133.48	75.08	48.05	33.37	24.52	18.77	14.83
1-span	LIVE LOAD/DEFLECTION	119.08	52.22	26.74	15.47	9.74	6.53	4.58
2	NEGATIVE WIND LOAD	114.41	66.59	43.33	30.37	22.44	17.24	13.66
2-span	LIVE LOAD/DEFLECTION	105.60	71.09	46.37	32.55	24.07	18.51	13.88
2	NEGATIVE WIND LOAD	138.49	81.62	53.46	37.61	27.86	21.44	17.00
3-span	LIVE LOAD/DEFLECTION	120.00	86.91	57.11	34.86	21.95	14.71	10.33
4	NEGATIVE WIND LOAD	130.70	76.70	50.12	35.22	26.06	20.05	15.89
4-span	LIVE LOAD/DEFLECTION	115.50	81.75	53.58	37.71	23.77	15.93	11.18
24 Gauge (0	.0223"), Fy = 50 ksi, Fu = 60 ksi							
SPAN					SPAN IN FEE	Г		
TYPE	LOAD TYPE	3.0	4.0	5.0	6.0	7.0	8.0	9.0
4	NEGATIVE WIND LOAD	126.37	71.08	45.49	31.59	23.21	17.77	14.04
1-span	LIVE LOAD/DEFLECTION	125.69	70.70	38.51	22.28	14.03	9.40	6.60
2	NEGATIVE WIND LOAD	120.59	69.04	44.56	31.09	22.91	17.57	13.90
2-span	LIVE LOAD/DEFLECTION	117.33	69.40	44.80	31.25	23.03	17.66	13.97
2	NEGATIVE WIND LOAD	148.17	85.44	55.34	38.68	28.53	21.90	17.34
3-span	LIVE LOAD/DEFLECTION	133.33	85.87	55.62	38.89	28.68	19.34	13.58

		120.00	00.40	02.04	00.00	20.01	20.01	14.40
22 Gauge (0	.0286"), Fy = 50 ksi, Fu = 60 ksi							
SPAN	LOAD TYPE				SPAN IN FEE	Г		
TYPE	LOAD TIPE	3.0	4.0	5.0	6.0	7.0	8.0	9.0
1	NEGATIVE WIND LOAD	163.85	92.16	58.98	40.96	30.09	23.04	18.21
1-span	LIVE LOAD/DEFLECTION	174.46	98.14	52.70	30.50	19.21	12.87	9.04
2 anon	NEGATIVE WIND LOAD	168.30	96.14	61.98	43.21	31.83	24.41	19.31
2-span	LIVE LOAD/DEFLECTION	158.71	90.50	58.30	40.63	29.91	22.94	18.14
2	NEGATIVE WIND LOAD	207.24	119.12	77.03	53.80	39.67	30.44	24.09
3-span	LIVE LOAD/DEFLECTION	195.75	112.25	72.50	50.61	37.24	24.95	17.52
4 on on	NEGATIVE WIND LOAD	194.44	111.53	72.04	50.29	37.06	28.43	22.50
4-span	LIVE LOAD/DEFLECTION	183.56	105.06	67.79	47.29	34.84	26.54	18.64

80.03

80.43

51.77

52.04

36.16

36.35

26.66

26.81

Notes:

4-span

1. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members.

2. Allowable loads are applicable for uniform loading and spans without overhangs

NEGATIVE WIND LOAD

LIVE LOAD/DEFLECTION

3. LIVE LOAD/DEFLECTION load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure

shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads 4. NEGATIVE WIND LOAD capacities are for those loads that pull the panel away from its supports. The applicable limit states are flexure

shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading 5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application whe utilizing this load chart.

6. Effective yield strength has been determined in accordance with section A2.3.2 of the 2012 NAS specification.

139.13

128.33

7. The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all

engineering data.

8. This material is subject to change without notice. Please contact MBCI for most current data



PRODUCT INFORMATION

PBU ROOF PANEL

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

29 Gauge (0	.0133"), Fy = 60 ksi, Fu = 61.5 ksi							
SPAN	LOAD TYPE				SPAN IN FEET			
TYPE		3.0	4.0	5.0	6.0	7.0	8.0	9.0
1-span	NEGATIVE WIND LOAD	93.75	52.73	33.75	23.44	17.22	13.18	10.42
1-span	LIVE LOAD/DEFLECTION	67.01	32.53	16.66	9.64	6.07	4.07	2.86
2-span	NEGATIVE WIND LOAD	61.91	37.19	24.61	17.42	12.96	10.00	7.94
z-span	LIVE LOAD/DEFLECTION	70.40	45.18	30.41	21.75	16.28	12.62	9.40
3-span	NEGATIVE WIND LOAD	73.01	44.74	29.96	21.37	15.96	12.36	9.84
5-span	LIVE LOAD/DEFLECTION	80.00	53.43	36.52	22.73	14.32	9.59	6.74
4-span	NEGATIVE WIND LOAD	69.51	42.31	28.22	20.08	14.97	11.58	9.21
4-span	LIVE LOAD/DEFLECTION	77.00	50.82	34.56	24.74	15.58	10.44	7.33
26 Gauge (0	.0181"), Fy = 60 ksi, Fu = 61.5 ksi							
SPAN					SPAN IN FEET	Г		
TYPE	LOAD TYPE	3.0	4.0	5.0	6.0	7.0	8.0	9.0
1	NEGATIVE WIND LOAD	133.48	75.08	48.05	33.37	24.52	18.77	14.83
1-span	LIVE LOAD/DEFLECTION	119.08	52.22	26.74	15.47	9.74	6.53	4.58
2-span	NEGATIVE WIND LOAD	114.41	66.59	43.33	30.37	22.44	17.24	13.66
2-span	LIVE LOAD/DEFLECTION	105.60	71.09	46.37	32.55	24.07	18.51	13.88
3-span	NEGATIVE WIND LOAD	138.49	81.62	53.46	37.61	27.86	21.44	17.00
3-span	LIVE LOAD/DEFLECTION	120.00	86.91	57.11	34.86	21.95	14.71	10.33
4-span	NEGATIVE WIND LOAD	130.70	76.70	50.12	35.22	26.06	20.05	15.89
4-3pan	LIVE LOAD/DEFLECTION	115.50	81.75	53.58	37.71	23.77	15.93	11.18
	а. а. Т	115.50		53.58	37.71	23.77	15.93	11.18
	.0223"), Fy = 50 ksi, Fu = 60 ksi	115.50			37.71		15.93	11.18
24 Gauge (0	а. а. Т	3.0					15.93 8.0	9.0
24 Gauge (0 SPAN TYPE	.0223"), Fy = 50 ksi, Fu = 60 ksi		81.75		SPAN IN FEET	Г		
24 Gauge (0 SPAN	.0223"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE	3.0	81.75 4.0	5.0	SPAN IN FEET	Г 7.0	8.0	9.0
24 Gauge (0 SPAN TYPE 1-span	.0223"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD	3.0 126.37	81.75 4.0 71.08	5.0 45.49	SPAN IN FEET 6.0 31.59	7.0 23.21	8.0 17.77	9.0 14.04
24 Gauge (0 SPAN TYPE	.0223"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	3.0 126.37 125.69	4.0 71.08 70.70	5.0 45.49 38.51	SPAN IN FEE 6.0 31.59 22.28	7.0 23.21 14.03	8.0 17.77 9.40	9.0 14.04 6.60
24 Gauge (0 SPAN TYPE 1-span 2-span	0223"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD	3.0 126.37 125.69 120.59 117.33 148.17	4.0 71.08 70.70 69.04	5.0 45.49 38.51 44.56	SPAN IN FEET 6.0 31.59 22.28 31.09 31.25 38.68	7.0 23.21 14.03 22.91 23.03 28.53	8.0 17.77 9.40 17.57 17.66 21.90	9.0 14.04 6.60 13.90 13.97 17.34
24 Gauge (0 SPAN TYPE 1-span	0223"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	3.0 126.37 125.69 120.59 117.33 148.17 133.33	4.0 71.08 70.70 69.04 69.40 85.44 85.87	5.0 45.49 38.51 44.56 44.80 55.34 55.62	SPAN IN FEET 6.0 31.59 22.28 31.09 31.25 38.68 38.89	7.0 23.21 14.03 22.91 23.03 28.53 28.68	8.0 17.77 9.40 17.57 17.66 21.90 19.34	9.0 14.04 6.60 13.90 13.97 17.34 13.58
24 Gauge (0 SPAN TYPE 1-span 2-span 3-span	0.0223"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD	3.0 126.37 125.69 120.59 117.33 148.17 133.33 139.13	4.0 71.08 70.70 69.04 69.40 85.44 85.87 80.03	5.0 45.49 38.51 44.56 44.80 55.34 55.62 51.77	SPAN IN FEE 6.0 31.59 22.28 31.09 31.25 38.68 38.68 38.89 36.16	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66	8.0 17.77 9.40 17.57 17.66 21.90 19.34 20.46	9.0 14.04 6.60 13.90 13.97 17.34 13.58 16.19
24 Gauge (0 SPAN TYPE 1-span 2-span	0223"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	3.0 126.37 125.69 120.59 117.33 148.17 133.33	4.0 71.08 70.70 69.04 69.40 85.44 85.87	5.0 45.49 38.51 44.56 44.80 55.34 55.62	SPAN IN FEET 6.0 31.59 22.28 31.09 31.25 38.68 38.89	7.0 23.21 14.03 22.91 23.03 28.53 28.68	8.0 17.77 9.40 17.57 17.66 21.90 19.34	9.0 14.04 6.60 13.90 13.97 17.34 13.58
24 Gauge (0 SPAN TYPE 1-span 2-span 3-span 4-span	0223"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	3.0 126.37 125.69 120.59 117.33 148.17 133.33 139.13	4.0 71.08 70.70 69.04 69.40 85.44 85.87 80.03	5.0 45.49 38.51 44.56 44.80 55.34 55.62 51.77	SPAN IN FEE 6.0 31.59 22.28 31.09 31.25 38.68 38.68 38.89 36.16	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66	8.0 17.77 9.40 17.57 17.66 21.90 19.34 20.46	9.0 14.04 6.60 13.90 13.97 17.34 13.58 16.19
24 Gauge (0 SPAN TYPE 1-span 2-span 3-span 4-span	1.0223"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	3.0 126.37 125.69 120.59 117.33 148.17 133.33 139.13	4.0 71.08 70.70 69.04 69.40 85.44 85.87 80.03	5.0 45.49 38.51 44.56 44.80 55.34 55.62 51.77 52.04	SPAN IN FEET 6.0 31.59 22.28 31.09 31.25 38.68 38.89 36.16 36.35	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66 26.81	8.0 17.77 9.40 17.57 17.66 21.90 19.34 20.46	9.0 14.04 6.60 13.90 13.97 17.34 13.58 16.19
24 Gauge (0 SPAN TYPE 1-span 2-span 3-span 4-span	0223"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	3.0 126.37 125.69 120.59 117.33 148.17 133.33 139.13	4.0 71.08 70.70 69.04 69.40 85.44 85.87 80.03	5.0 45.49 38.51 44.56 44.80 55.34 55.62 51.77 52.04	SPAN IN FEE 6.0 31.59 22.28 31.09 31.25 38.68 38.68 38.89 36.16	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66 26.81	8.0 17.77 9.40 17.57 17.66 21.90 19.34 20.46	9.0 14.04 6.60 13.90 13.97 17.34 13.58 16.19
24 Gauge (0 SPAN TYPE 1-span 2-span 3-span 4-span 22 Gauge (0 SPAN TYPE	1.0223"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	3.0 126.37 125.69 120.59 117.33 148.17 133.33 139.13 128.33	4.0 71.08 70.70 69.04 69.40 85.44 85.87 80.03 80.43	5.0 45.49 38.51 44.56 44.80 55.34 55.62 51.77 52.04	SPAN IN FEET 6.0 31.59 22.28 31.09 31.25 38.68 38.89 36.16 36.35 SPAN IN FEET	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66 26.81	8.0 17.77 9.40 17.57 17.66 21.90 19.34 20.46 20.57	9.0 14.04 6.60 13.90 13.97 17.34 13.58 16.19 14.45
24 Gauge (0 SPAN TYPE 1-span 2-span 3-span 4-span 22 Gauge (0 SPAN	1.0223"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION .0286"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE	3.0 126.37 125.69 120.59 117.33 148.17 133.33 139.13 128.33	4.0 71.08 70.70 69.04 69.40 85.44 85.87 80.03 80.43 4.0	5.0 45.49 38.51 44.56 44.80 55.34 55.62 51.77 52.04 5.0	SPAN IN FEET 6.0 31.59 22.28 31.09 31.25 38.68 38.89 36.16 36.35 SPAN IN FEET 6.0	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66 26.81	8.0 17.77 9.40 17.57 17.66 21.90 19.34 20.46 20.57 8.0	9.0 14.04 6.60 13.90 13.97 17.34 13.58 16.19 14.45 9.0
24 Gauge (0 SPAN TYPE 1-span 2-span 3-span 4-span 22 Gauge (0 SPAN TYPE 1-span	1.0223"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION 1.0286"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD	3.0 126.37 125.69 120.59 117.33 148.17 133.33 139.13 128.33 3.0 163.85	4.0 71.08 70.70 69.04 69.40 85.44 85.87 80.03 80.43 4.0 92.16 98.14 96.14	5.0 45.49 38.51 44.56 44.80 55.34 55.62 51.77 52.04 5.0 58.98	SPAN IN FEET 6.0 31.59 22.28 31.09 31.25 38.68 38.89 36.16 36.35 SPAN IN FEET 6.0 40.96	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66 26.81 7.0 30.09 19.21 31.83	8.0 17.77 9.40 17.57 17.66 21.90 19.34 20.46 20.57 8.0 23.04	9.0 14.04 6.60 13.90 13.97 17.34 13.58 16.19 14.45 9.0 18.21
24 Gauge (0 SPAN TYPE 1-span 2-span 3-span 4-span 22 Gauge (0 SPAN TYPE	1.0223"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION 1.0286"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	3.0 126.37 125.69 120.59 117.33 148.17 133.33 139.13 128.33 3.0 163.85 174.46	4.0 71.08 70.70 69.04 69.40 85.44 85.87 80.03 80.43 4.0 92.16 98.14	5.0 45.49 38.51 44.56 44.80 55.34 55.62 51.77 52.04 5.0 5.0 58.98 52.70	SPAN IN FEET 6.0 31.59 22.28 31.09 31.25 38.68 38.89 36.16 36.35 SPAN IN FEET 6.0 40.96 30.50	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66 26.81 7.0 30.09 19.21	8.0 17.77 9.40 17.57 17.66 21.90 19.34 20.46 20.57 8.0 23.04 12.87	9.0 14.04 6.60 13.90 13.97 17.34 13.58 16.19 14.45 9.0 18.21 9.04
24 Gauge (0 SPAN TYPE 1-span 2-span 3-span 4-span 22 Gauge (0 SPAN TYPE 1-span 2-span	1.0223"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION 1.0286"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD	3.0 126.37 125.69 120.59 117.33 148.17 133.33 139.13 128.33 128.33 3.0 163.85 174.46 168.30 158.71 207.24	4.0 71.08 70.70 69.04 69.40 85.44 85.87 80.03 80.43 4.0 92.16 98.14 96.14 90.50 119.12	5.0 45.49 38.51 44.56 44.80 55.34 55.62 51.77 52.04 5.0 5.0 58.98 52.70 61.98 58.30 77.03	SPAN IN FEET 6.0 31.59 22.28 31.09 31.25 38.68 38.89 36.16 36.35 SPAN IN FEET 6.0 40.96 30.50 43.21 40.63 53.80	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66 26.81 7.0 30.09 19.21 31.83 29.91 39.67	8.0 17.77 9.40 17.57 17.66 21.90 19.34 20.46 20.57 8.0 23.04 12.87 24.41 22.94 30.44	9.0 14.04 6.60 13.90 13.97 17.34 13.58 16.19 14.45 9.0 18.21 9.04 19.31 18.14 24.09
24 Gauge (0 SPAN TYPE 1-span 2-span 3-span 4-span 22 Gauge (0 SPAN TYPE 1-span	1.0223"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION 1.0286"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	3.0 126.37 125.69 120.59 117.33 148.17 133.33 139.13 128.33 128.33 3.0 163.85 174.46 168.30 158.71	4.0 71.08 70.70 69.04 69.40 85.44 85.87 80.03 80.43 4.0 92.16 98.14 96.14 90.50 1119.12 112.25	5.0 45.49 38.51 44.56 44.80 55.34 55.62 51.77 52.04 5.0 5.0 58.98 52.70 61.98 58.30 77.03 72.50	SPAN IN FEET 6.0 31.59 22.28 31.09 31.25 38.68 38.89 36.16 36.35 SPAN IN FEET 6.0 40.96 30.50 43.21 40.63 53.80 50.61	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66 26.81 7.0 30.09 19.21 31.83 29.91	8.0 17.77 9.40 17.57 17.66 21.90 19.34 20.46 20.57 8.0 23.04 12.87 24.41 22.94	9.0 14.04 6.60 13.90 13.97 17.34 13.58 16.19 14.45 9.0 18.21 9.04 19.31 18.14 24.09 17.52
24 Gauge (0 SPAN TYPE 1-span 2-span 3-span 4-span 22 Gauge (0 SPAN TYPE 1-span 2-span	0223"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION 0286"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD	3.0 126.37 125.69 120.59 117.33 148.17 133.33 139.13 128.33 128.33 3.0 163.85 174.46 168.30 158.71 207.24	4.0 71.08 70.70 69.04 69.40 85.44 85.87 80.03 80.43 4.0 92.16 98.14 96.14 90.50 119.12	5.0 45.49 38.51 44.56 44.80 55.34 55.62 51.77 52.04 5.0 5.0 58.98 52.70 61.98 58.30 77.03	SPAN IN FEET 6.0 31.59 22.28 31.09 31.25 38.68 38.89 36.16 36.35 SPAN IN FEET 6.0 40.96 30.50 43.21 40.63 53.80	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66 26.81 7.0 30.09 19.21 31.83 29.91 39.67	8.0 17.77 9.40 17.57 17.66 21.90 19.34 20.46 20.57 8.0 23.04 12.87 24.41 22.94 30.44	9.0 14.04 6.60 13.90 13.97 17.34 13.58 16.19 14.45 9.0 18.21 9.04 19.31 18.14 24.09

Notes:

1. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members. 2. Allowable loads are applicable for uniform loading and spans without overhangs

3. LIVE LOAD/DEFLECTION load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure

shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads 4. NEGATIVE WIND LOAD capacities are for those loads that pull the panel away from its supports. The applicable limit states are flexure

4. NEGATIVE WIND LOAD capacities are for those loads that pull the panel away from its supports. The applicable limit states are liex shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading

5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application whe utilizing this load chart.

6. Effective yield strength has been determined in accordance with section A2.3.2 of the 2012 NAS specification.

7. The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.

8. This material is subject to change without notice. Please contact MBCI for most current data



PRODUCT INFORMATION

PBU WALL PANEL

ALLOWABLE UN	IFORM L	OADS IN		S PER S	QUARE	FOOT	
.0133"). Fv = 60 ksi. Fu = 61.5 ksi							
	SPAN IN FEET						
SPAN LOAD TYPE	3.0	4.0				8.0	9.0
NEGATIVE WIND LOAD							10.42
1-span LIVE LOAD/DEFLECTION			16.66		6.07	4.07	2.86
2-span NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION			24.61		12.96	10.00	7.94
							9.40
3-span NEGATIVE WIND LOAD	73.01	44.74	29.96		15.96	12.36	9.84
							6.74
							9.21
LIVE LOAD/DEFLECTION	77.00	50.82	34.56	24.74	15.58	10.44	7.33
).0181"). Fv = 60 ksi. Fu = 61.5 ksi							
	SPAN IN FEET						
SPAN LOAD TYPE	3.0	4.0	5.0	6.0	7.0	8.0	9.0
NEGATIVE WIND LOAD	133.48	75.08	48.05		24.52	18.77	14.83
LIVE LOAD/DEFLECTION	119.08	52.22	26.74	15.47	9.74	6.53	4.58
NEGATIVE WIND LOAD	114.41	66.59	43.33	30.37	22.44	17.24	13.66
LIVE LOAD/DEFLECTION	105.60	71.09	46.37	32.55	24.07	18.51	13.88
							17.00
			57.11			14.71	10.33
	130.70		50.12			20.05	15.89
LIVE LOAD/DEFLECTION	115.50	81.75	53.58	37.71	23.77	15.93	11.18
.0223"). Fv = 50 ksi. Fu = 60 ksi							
0.0223"), Fy = 50 ksi, Fu = 60 ksi				SPAN IN FEET			
0.0223"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE	3.0	4.0	5.0	SPAN IN FEET 6.0	7.0	8.0	9.0
	3.0 126.37	4.0 71.08				8.0 17.77	9.0 14.04
LOAD TYPE	126.37		5.0	6.0	7.0		
LOAD TYPE NEGATIVE WIND LOAD		71.08	5.0 45.49	6.0 31.59	7.0 23.21	17.77	14.04
LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	126.37 125.69 120.59	71.08 70.70	5.0 45.49 38.51	6.0 31.59 22.28	7.0 23.21 14.03	17.77 9.40	14.04 6.60
LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD	126.37 125.69 120.59 117.33 148.17	71.08 70.70 69.04	5.0 45.49 38.51 44.56	6.0 31.59 22.28 31.09	7.0 23.21 14.03 22.91	17.77 9.40 17.57	14.04 6.60 13.90
LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	126.37 125.69 120.59 117.33	71.08 70.70 69.04 69.40	5.0 45.49 38.51 44.56 44.80	6.0 31.59 22.28 31.09 31.25	7.0 23.21 14.03 22.91 23.03	17.77 9.40 17.57 17.66	14.04 6.60 13.90 13.97
LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD	126.37 125.69 120.59 117.33 148.17	71.08 70.70 69.04 69.40 85.44	5.0 45.49 38.51 44.56 44.80 55.34 55.62	6.0 31.59 22.28 31.09 31.25 38.68	7.0 23.21 14.03 22.91 23.03 28.53	17.77 9.40 17.57 17.66 21.90	14.04 6.60 13.90 13.97 17.34
LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	126.37 125.69 120.59 117.33 148.17 133.33	71.08 70.70 69.04 69.40 85.44 85.87	5.0 45.49 38.51 44.56 44.80 55.34	6.0 31.59 22.28 31.09 31.25 38.68 38.89	7.0 23.21 14.03 22.91 23.03 28.53 28.68	17.77 9.40 17.57 17.66 21.90 19.34	14.04 6.60 13.90 13.97 17.34 13.58
LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD NEGATIVE WIND LOAD	126.37 125.69 120.59 117.33 148.17 133.33 139.13	71.08 70.70 69.04 69.40 85.44 85.87 80.03	5.0 45.49 38.51 44.56 44.80 55.34 55.62 51.77	6.0 31.59 22.28 31.09 31.25 38.68 38.89 36.16	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66	17.77 9.40 17.57 17.66 21.90 19.34 20.46	14.04 6.60 13.90 13.97 17.34 13.58 16.19
LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	126.37 125.69 120.59 117.33 148.17 133.33 139.13	71.08 70.70 69.04 69.40 85.44 85.87 80.03	5.0 45.49 38.51 44.56 44.80 55.34 55.62 51.77 52.04	6.0 31.59 22.28 31.09 31.25 38.68 38.89 36.16	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66 26.81	17.77 9.40 17.57 17.66 21.90 19.34 20.46	14.04 6.60 13.90 13.97 17.34 13.58 16.19
LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	126.37 125.69 120.59 117.33 148.17 133.33 139.13	71.08 70.70 69.04 69.40 85.44 85.87 80.03	5.0 45.49 38.51 44.56 44.80 55.34 55.62 51.77 52.04	6.0 31.59 22.28 31.09 31.25 38.68 38.89 36.16 36.35	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66 26.81	17.77 9.40 17.57 17.66 21.90 19.34 20.46	14.04 6.60 13.90 13.97 17.34 13.58 16.19
LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	126.37 125.69 120.59 117.33 148.17 133.33 139.13 128.33	71.08 70.70 69.04 69.40 85.44 85.87 80.03 80.43	5.0 45.49 38.51 44.56 44.80 55.34 55.62 51.77 52.04	6.0 31.59 22.28 31.09 31.25 38.68 38.89 36.16 36.35 SPAN IN FEET	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66 26.81	17.77 9.40 17.57 17.66 21.90 19.34 20.46 20.57	14.04 6.60 13.90 13.97 17.34 13.58 16.19 14.45
LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION 0.0286"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE	126.37 125.69 120.59 117.33 148.17 133.33 139.13 128.33	71.08 70.70 69.04 69.40 85.44 85.87 80.03 80.43 4.0	5.0 45.49 38.51 44.56 44.80 55.34 55.62 51.77 52.04 5.0	6.0 31.59 22.28 31.09 31.25 38.68 38.89 36.16 36.35 SPAN IN FEET 6.0	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66 26.81	17.77 9.40 17.57 17.66 21.90 19.34 20.46 20.57 8.0	14.04 6.60 13.90 13.97 17.34 13.58 16.19 14.45 9.0
LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION 0.0286"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD	126.37 125.69 120.59 117.33 148.17 133.33 139.13 128.33 128.33 3.0 163.85	71.08 70.70 69.04 69.40 85.44 85.87 80.03 80.43 4.0 92.16	5.0 45.49 38.51 44.56 44.80 55.34 55.62 51.77 52.04 5.0 58.98	6.0 31.59 22.28 31.09 31.25 38.68 38.89 36.16 36.35 SPAN IN FEET 6.0 40.96	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66 26.81 7.0 30.09	17.77 9.40 17.57 17.66 21.90 19.34 20.46 20.57 8.0 23.04	14.04 6.60 13.90 13.97 17.34 13.58 16.19 14.45 9.0 18.21
LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION 0.0286"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	126.37 125.69 120.59 117.33 148.17 133.33 139.13 128.33 128.33 3.0 163.85 174.46	71.08 70.70 69.04 69.40 85.44 85.87 80.03 80.43 4.0 92.16 98.14	5.0 45.49 38.51 44.56 45.34 55.62 51.77 52.04 5.0 58.98 52.70	6.0 31.59 22.28 31.09 31.25 38.68 38.89 36.16 36.35 SPAN IN FEET 6.0 40.96 30.50	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66 26.81 7.0 30.09 19.21	17.77 9.40 17.57 17.66 21.90 19.34 20.46 20.57 8.0 23.04 12.87	14.04 6.60 13.90 13.97 17.34 13.58 16.19 14.45 9.0 18.21 9.04
LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION 0.0286"), Fy = 50 ksi, Fu = 60 ksi LOAD TYPE NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	126.37 125.69 120.59 117.33 148.17 133.33 139.13 128.33 3.0 163.85 174.46 168.30 158.71	71.08 70.70 69.04 69.40 85.44 85.87 80.03 80.43 4.0 92.16 98.14 96.14 90.50	5.0 45.49 38.51 44.56 44.80 55.34 55.62 51.77 52.04 52.04 5.0 58.98 52.70 61.98 58.30	6.0 31.59 22.28 31.09 31.25 38.68 38.89 36.16 36.35 SPAN IN FEET 6.0 40.96 30.50 43.21 40.63	7.0 23.21 14.03 22.91 23.03 28.53 28.68 26.66 26.81 7 7.0 30.09 19.21 31.83 29.91	17.77 9.40 17.57 17.66 21.90 19.34 20.46 20.57 8.0 23.04 12.87 24.41 22.94	14.04 6.60 13.90 13.97 17.34 13.58 16.19 14.45 9.0 18.21 9.04 19.31 18.14
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Notes:

1. Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members. 2. Allowable loads are applicable for uniform loading and spans without overhangs

3. LIVE LOAD/DEFLECTION load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure

shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads 4. NEGATIVE WIND LOAD capacities are for those loads that pull the panel away from its supports. The applicable limit states are flexure

shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading 5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application whe utilizing this load chart.

6. Effective yield strength has been determined in accordance with section A2.3.2 of the 2012 NAS specification.

7. The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.

8. This material is subject to change without notice. Please contact MBCI for most current data

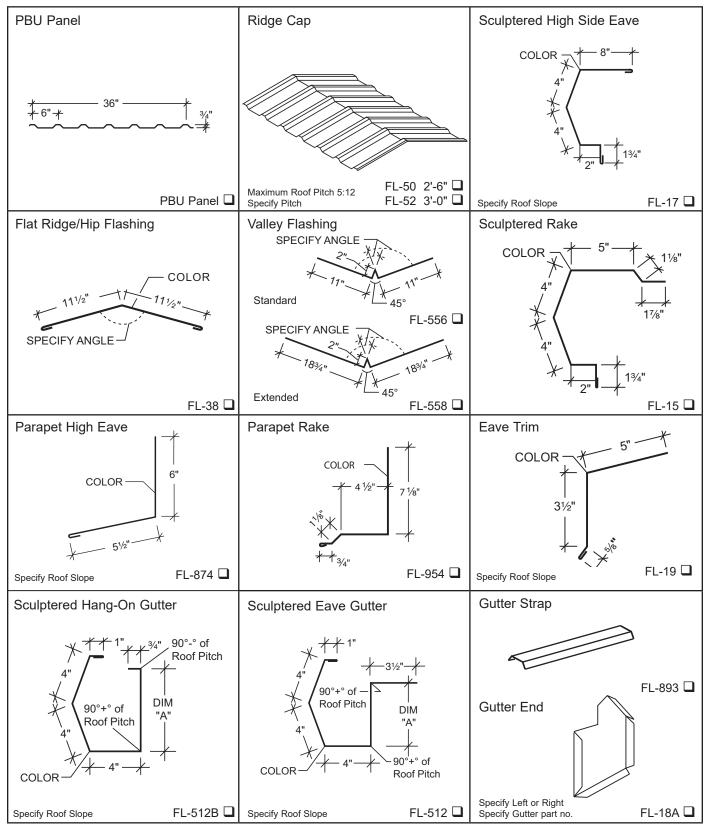
The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the *North American Specification for the Design of Cold-Formed Steel Structural Members* published by the American Iron and Steel Institute to facilitate design. This Specification contains the design criteria for cold-formed steel components. Along with the Specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer.

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PRODUCT INFORMATION

PRODUCT CHECKLIST



PB-20 REV 00.04

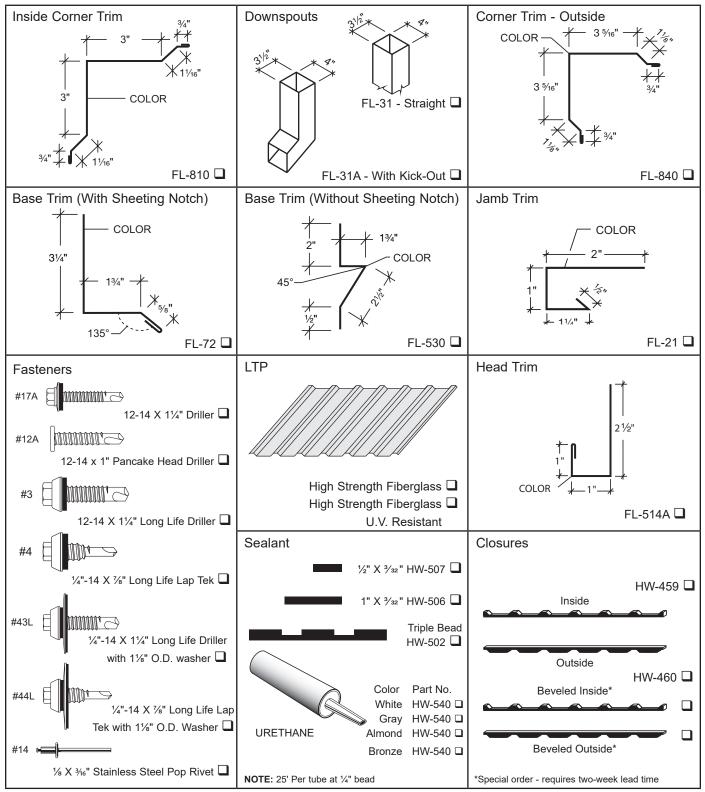
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PRODUCT INFORMATION

PRODUCT CHECKLIST

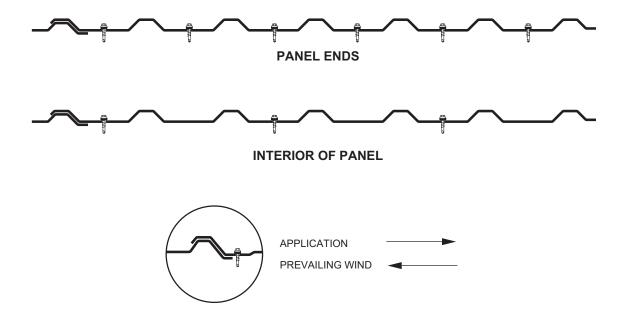


Note: It is the users responsibility to ensure that the installation and use of all light transmitting panels comply with State, Federal and OSHA regulations and laws, including, but not limited to, guarding all light transmitting panels with screens, fixed standard railings, or other acceptable safety controls that prevent fall-through. SUBJECT TO CHANGE WITHOUT NOTICE



PRODUCT INFORMATION

PBU PANEL FASTENER LOCATIONS

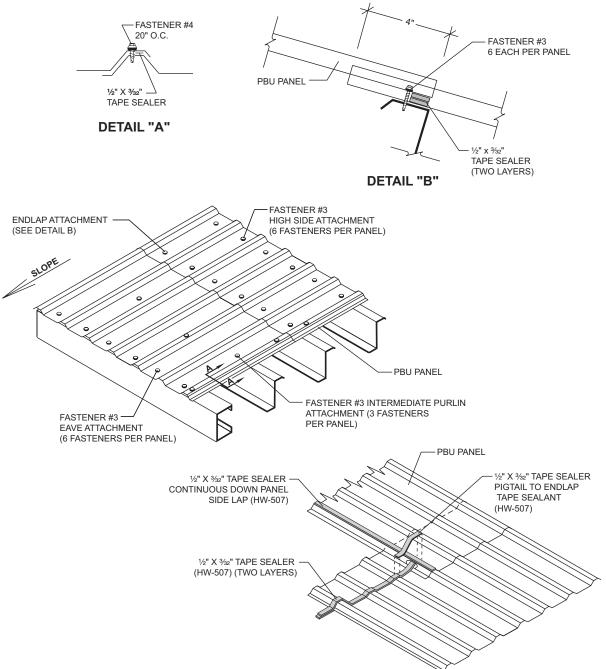


- 1. The PBU panel has an unsymmetrical purlin bearing side lap leg. Panel side lap with extended foot to bear on frame. However, where possible, the panel should be lapped against prevailing wind.
- 2. The above are typical fastener spacings. However, they may not be appropriate for all applications. Consult a professional engineer for use on any specific application.
- 3. Minimum $\frac{1}{2}$ " X $\frac{3}{32}$ " tape sealer required at panel side laps when used as roof panels.
- 4. Side lap fasteners are required. Typical spacing is 20" O.C. However, this spacing may not be appropriate for all applications. Consult a professional engineer for use on any specific application.



PRODUCT INFORMATION

PBU PANEL ATTACHMENT



NOTES:

Sidelap

- 1/2" X 3/32" tape sealer must be installed between weather infiltration point and fastener. 1.
- 2. Install Fastener #4 (1/4"-14 X 1/8" 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 ⁷/₈" Lap Tek) are available as an alternate when long life fasteners are not desired.

Endlap

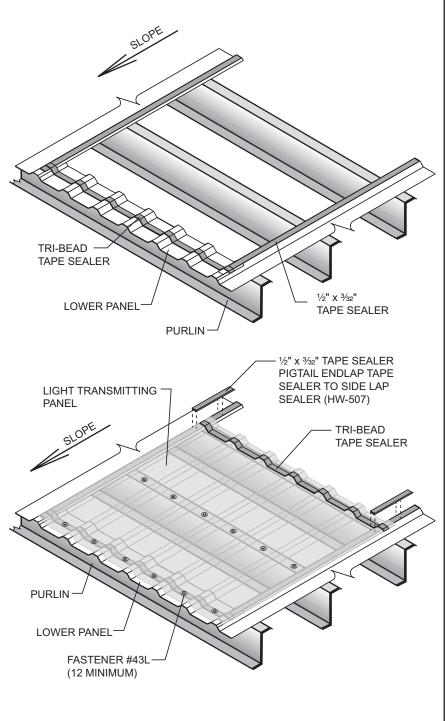
- Stack 2 continuous layers of 1/2" X 3/2" tape sealer on top of each other and must be installed between weather 1. infiltration point and fastener.
- Install Fastener #3 (12-14 X 1¹/₄" Long Life driller) on each side of major ribs of panel (two fasteners per foot). 2.
- 3. Fastener #17A (12-14 X 1¼" self-driller) are available as an alternate when long life fasteners are not desired.

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PRODUCT INFORMATION

LIGHT TRANSMITTING PANEL INSTALLATION



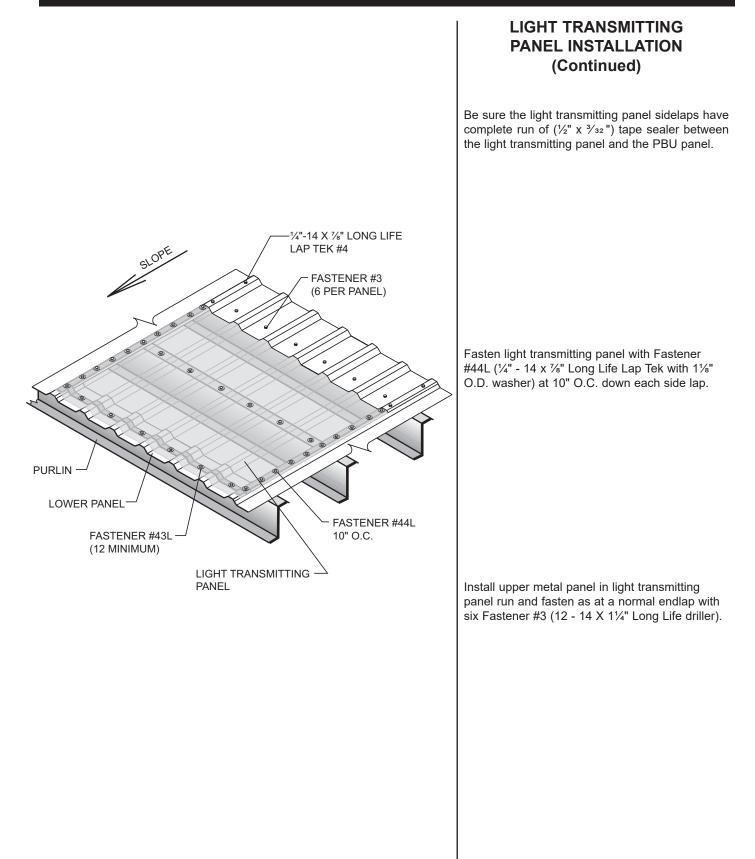
Install roof panels, leaving the light transmitting panel run open, except for lower light transmitting panel run metal panel. Install tape sealer to panel sidelaps and across panel width as normal.

Attach light transmitting panels at the low and midslope connection to the purlin with six Fastener #43L ($\frac{1}{4}$ - 14 x 1 $\frac{1}{4}$ " Long Life Driller with 1 $\frac{1}{6}$ " O.D. washer) per connection.

Install a $1\!/\!2"$ x $3\!/\!_{32}"$ tape sealer pigtail to complete the seal between the side lap sealant and the end lap sealant.



PRODUCT INFORMATION





DETAILS

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.

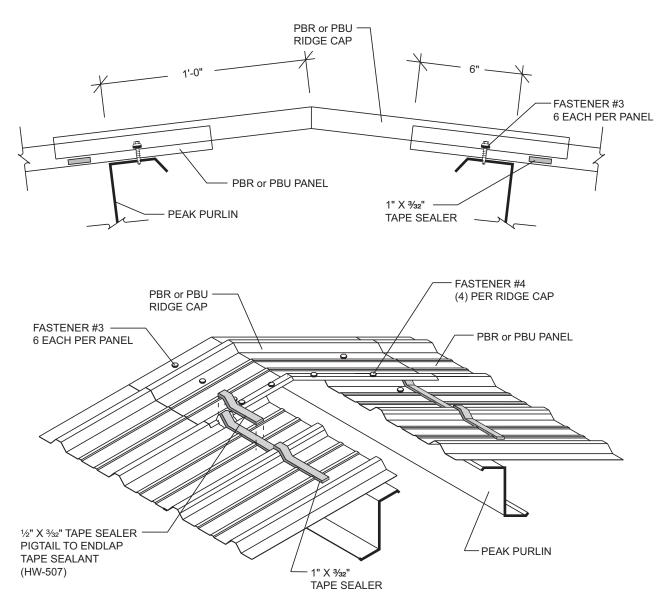
III. Application Checklist

- 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.



DETAILS

TYPICAL DETAILS Ridge

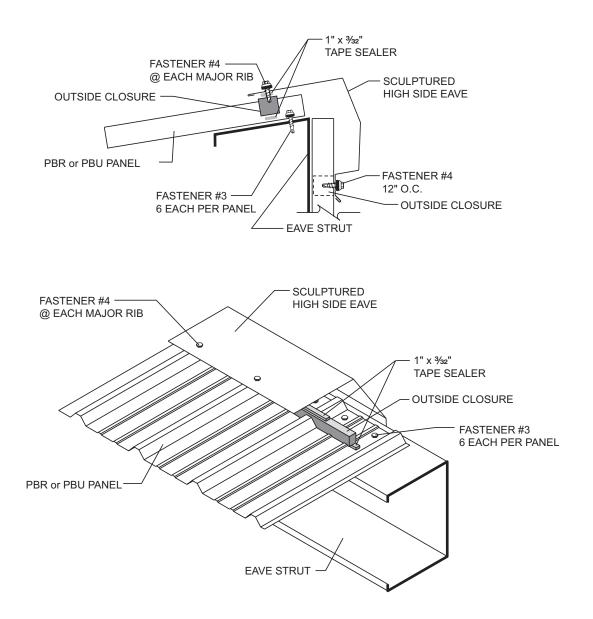


- 1. When ordering ridge caps, specify roof slope. Refer to MBCI price pages for maximum slope for each ridge cap.
- Install 1" x ³√x[™] tape sealer across full width of ridge cap on both sides. Tape sealer must be installed between weather infiltration point and fasteners.
- 3. Install 1" x ³/∞" tape 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 ⁷/₄" 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.



DETAILS

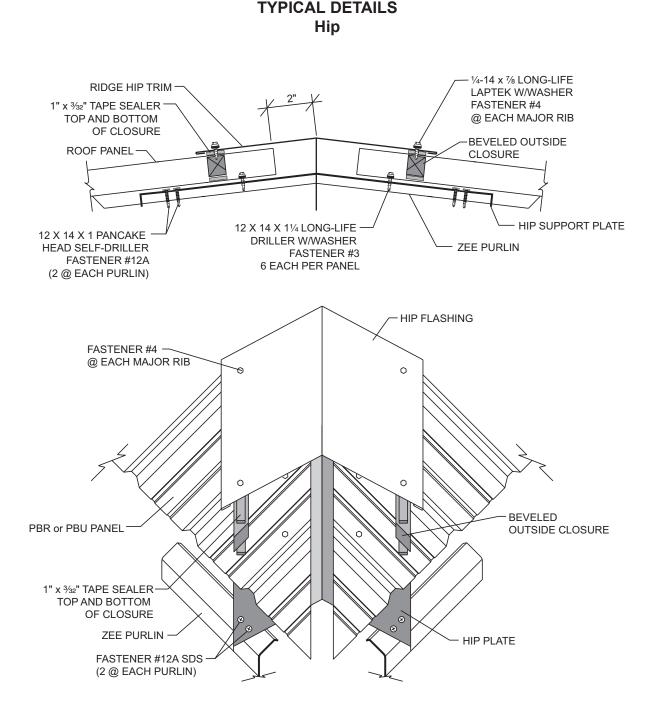
TYPICAL DETAILS High Side Eave



- 1. Install outside closure, with 1" x ³/₃₂" tape sealer top and bottom, across width of PBR or PBU panels.
- 2. Install Sculptured High Side Eave to PBR or PBU panels at each major rib with Fastener #4 (¼"-14 X ½" 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 amount of Fastener #4 (1/4"-14 X 1/6" Long Life Lap Tek) to hold lap together. Apply bead of urethane sealant between trim at 3" lap.



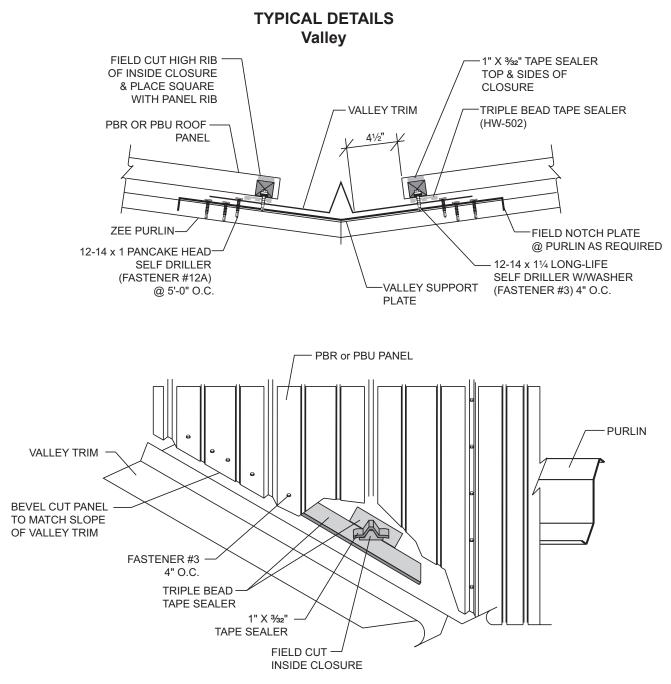
DETAILS



- 1. Bevel cut and install PBR or PBU panels to follow bevel of hip.
- 2. Install beveled outside closures to panels, with 1" x ³⁄₂₂" 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 ½" 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 Fastener #4 (¼"-14 X ½" Long Life Lap Tek) to hold lap together.



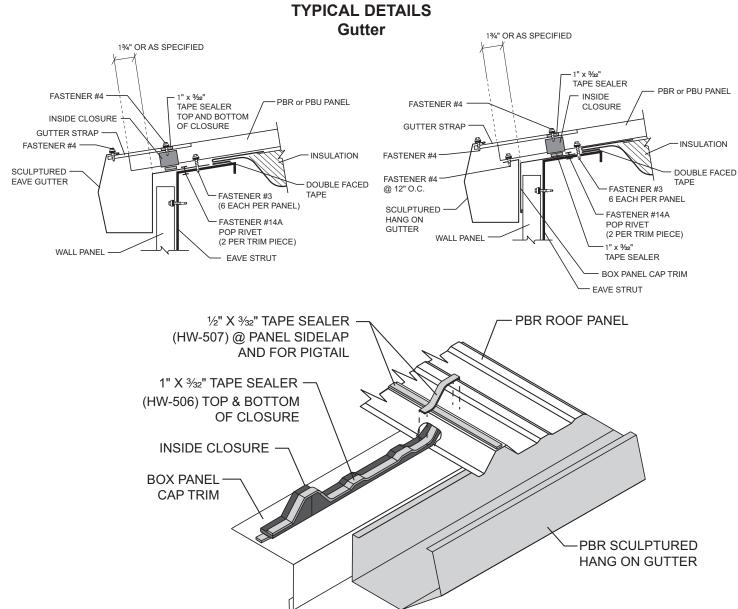
DETAILS



- 1. For valleys 30' or less in length, use standard valley trim. Valleys over 30' in length require extended valley trim.
- 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'-O" straight closure. Place the cut closure square with the rib of the panel. Install 1" x ³/₂" 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 or PBU panels to fit slope of valley and install to valley with Fastener #3 (12-14 X 1¹/₄" Long Life driller) at 4" on center. Fasteners must be installed through the the 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 ½" Long Life Lap Tek) into each side of water diverter while holding lap tightly together.



DETAILS



NOTES:

Eave Gutter

- 1. Attach gutter to eave strut with two Fastener #14A pop rivets per section.
- 2. Install inside closures to top leg of gutter with 1" x 3/22" tape sealer top and bottom.
- 3. Install PBR or 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 1/4" 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 #14A (two per 10'-0" section).
- 2. Install inside closure on top of Box Panel Cap Trim with 1" x ³/₂₂" tape sealer top and bottom of closure.
- 3. Install PBR or PBU panels with Fastener #3 (12-14 X 11/4" 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 (1/4"-14 X 7/6" Long Life Lap Tek) at 12" O.C.
- 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 (1/4"-14 X 7/6" Long Life Lap Tek) at each end.

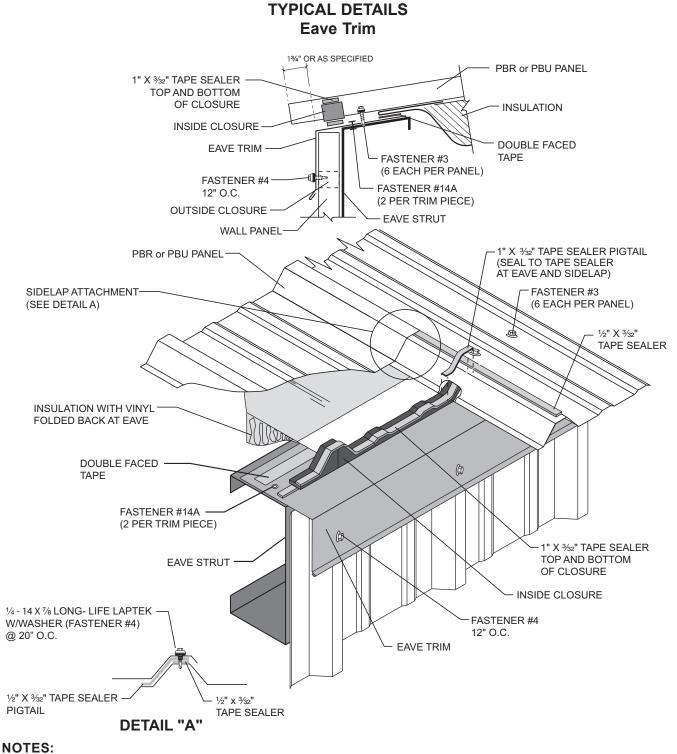
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DETAILS

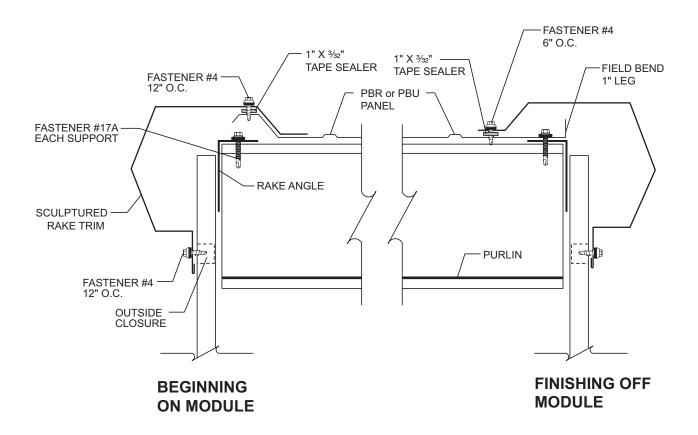


- 1. Install eave trim to structure with two pop rivets per section.
- 2. Install inside closures along top leg of eave trim with 1" x ³/₃₂" tape sealer top and bottom.
- 3. Install PBR or PBU panel with Fastener #3 (12-14 X 1¼" Long Life driller) on each side of major ribs (2 fasteners per foot) allowing panel to overhang 1¾" 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 #4 (¼"-14 X ⁷/₄" Long Life Lap Tek) to hold lap together.



DETAILS

TYPICAL DETAILS Rake



NOTES:

Beginning on Module

- Install 1" x 3/32" tape sealer to top of PBR or PBU panel rib. 1.
- 2. Install rake trim to PBR or PBU panel rib with Fastener #4 (¼"-14 X ½" Long Life Lap Teks) at 1'-0" on center.
- Attach front face of rake trim to wall with fasteners or cleat as required for wall substrate. 3.
- 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.

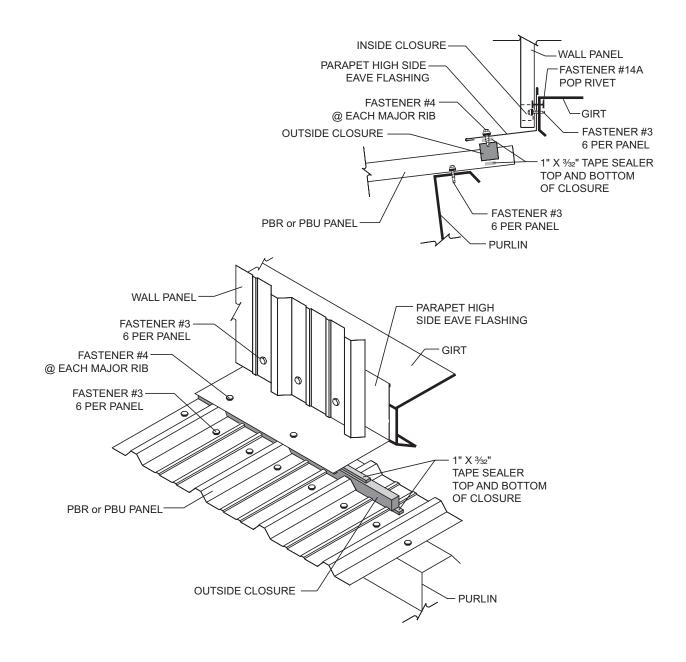
Finishing off Module

- Cut and bend a 1" leg on PBR or PBU Panel. 1. 2.
 - Install 1" x 3/32" tape sealer to top of PBR or PBU panel.
- Install rake trim to PBR or PBU panel with Fastener #4 (¼"-14 X ⁷/₆" Long Life Lap Teks) at 6" 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 5. Fastener #14 pop rivets to hold lap together.



DETAILS

TYPICAL DETAILS Parapet High Side Eave



NOTES:

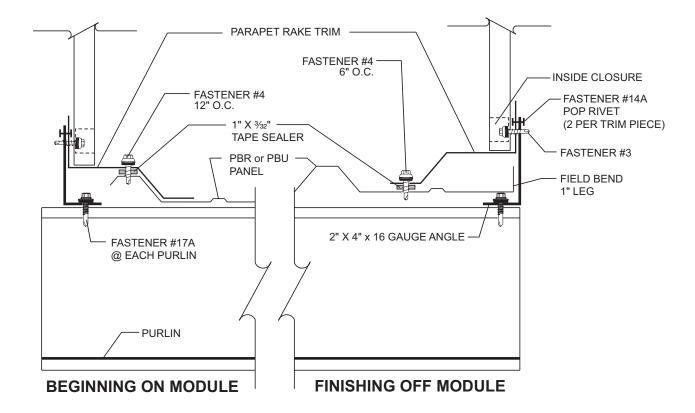
- 1. Install outside closure, with 1" x ³/₃₂" tape sealer top and bottom, across width of PBR or PBU panels.
- 2. Install parapet high side trim to PBR or PBU panels at each major rib with Fastener #4 (¼"-14 X ½" Long Life Lap Teks). Trim should overhang outside closures ½" 1".
- 3. Attach top leg of 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 Fastener #4 (1/4"-14 X 7/8" Long Life Lap Tek) to hold lap together.

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DETAILS

TYPICAL DETAILS Parapet Rake



NOTES:

Beginning on Module

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

Finishing off Module

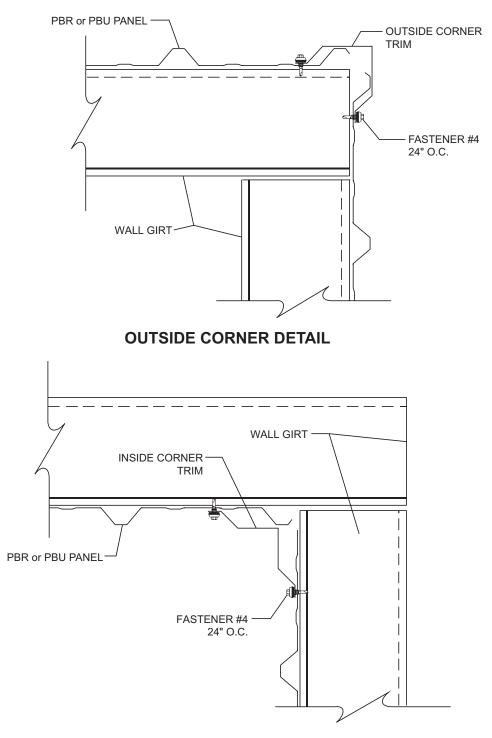
- 1. Cut and bend a 1" leg on PBR or PBU Panel.
- 2. Install 1" x ³/₃₂" tape sealer to top of PBR or PBU panel.
- 3. Install parapet rake trim to PBR or PBU panel with Fastener #4 (¼"-14 X ½" Long Life Lap Teks) at 6" on center.
- 4. Attach top leg of parapet rake trim to 2" X 4" angle with pop rivets.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





DETAILS

TYPICAL DETAILS Corner



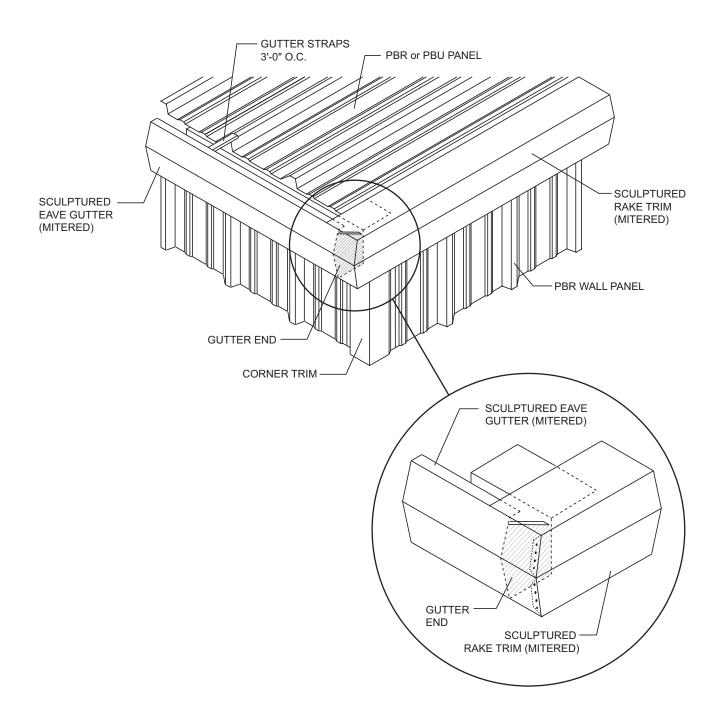
INSIDE CORNER DETAIL

NOTES:1.Install corner trim with Fastener #4 (¼ - 14 X ½" Long Life Lap Tek) at 2'-0" O.C.



DETAILS

TYPICAL DETAILS Corner Box



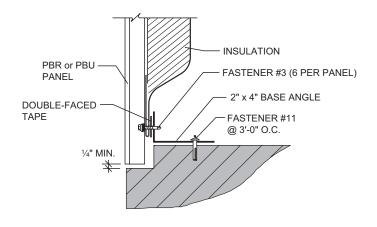
NOTES:

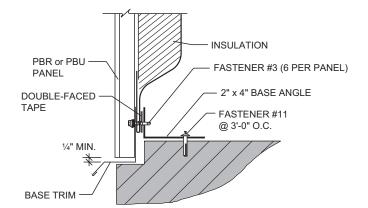
1. Gutter and rake trim must be ordered with a left and right mitered end. To determine left or right, stand on ground and look toward eave. **Roof slope must also be specified.**



DETAILS

TYPICAL DETAILS Base



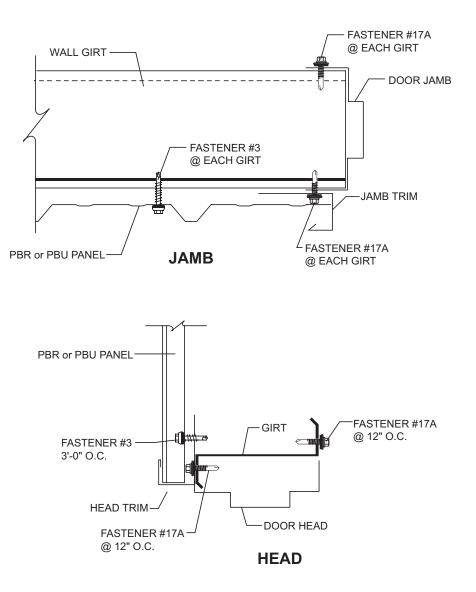


- 1. Wall with vinyl insulation, pull back fiberglass approximately 4" pull over end and staple. Apply double face tape to base angle and stick insulation to it before applying panel and fastening with Fastener #3 (¼ 14 x 1¼" Long Life Driller), six each per panel.
- 2. Should base trim be desired, temporarily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



DETAILS

TYPICAL DETAILS Head Jamb



NOTES: 1.

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



Metal Roof and Wall Systems

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