

Manufacturers Recommend Metal Roofing Fastening Guide

with < 20'-0" mean roof height – 2/12 to 12/12 pitch for
120-150 mph wind speeds

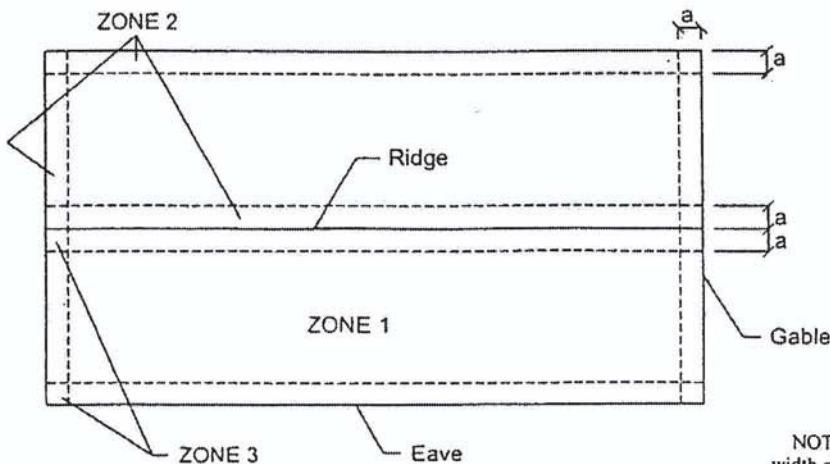
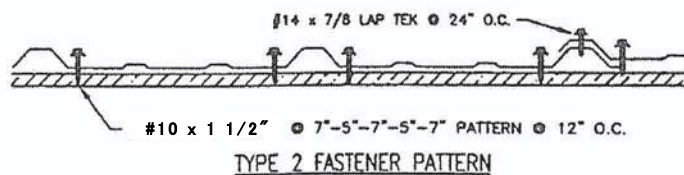
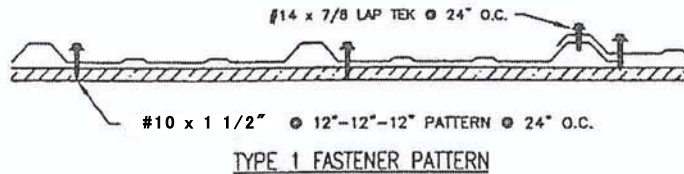
26GA. PBR FASTENER SPACING FOR OVER PLYWOOD						
ZONE	FASTENER	SUBSTRATE	WIND SPEED ZONE			
			120	130	140	150
			ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING
ZONE 1	#10 x 1 1/2"	15/32" CDX/ 19/32" CDX	24" TYPE 1	24" TYPE 1	24" TYPE 1	24" TYPE 1
ZONE 2	#10 x 1 1/2"	15/32" CDX/ 19/32" CDX	24" TYPE 1	12" TYPE 2	12" TYPE 2	12" TYPE 2
ZONE 3	#10 x 1 1/2"	15/32" CDX/ 19/32" CDX	12" TYPE 2	12" TYPE 2	12" TYPE 2	12" TYPE 2

PANEL DESCRIPTION: PBR, MIN. 26 GA. GRADE 80, 36" COVERAGE, 1-1/4" TALL.

PANEL FASTENER: (1) #10 X 1-1/2" WOOD SCREW W/WASHER

MAXIMUM ALLOWABLE PANEL UPLIFT PRESSURE: 60.5 PSF @ 24" FASTENER SPACING TYPE 1 FASTENER PATTERN, 154.75 PSF @ 12" FASTENER SPACING TYPE 2 FASTENER PATTERN BASED ON TAS 125, UL 580/UL 1897 TESTING.

PLYWOOD DECKING: MIN. 15/32" PLYWOOD. PLYWOOD MUST BE DESIGNED IN ACCORDANCE WITH FBC 2004.



NOTE: Dimension (a) is defined as 10% of the minimum width of the building or 40% of the mean height of the roof, whichever is smaller, however, (a) cannot be less than either 4% of the minimum width of the building or 3 feet.

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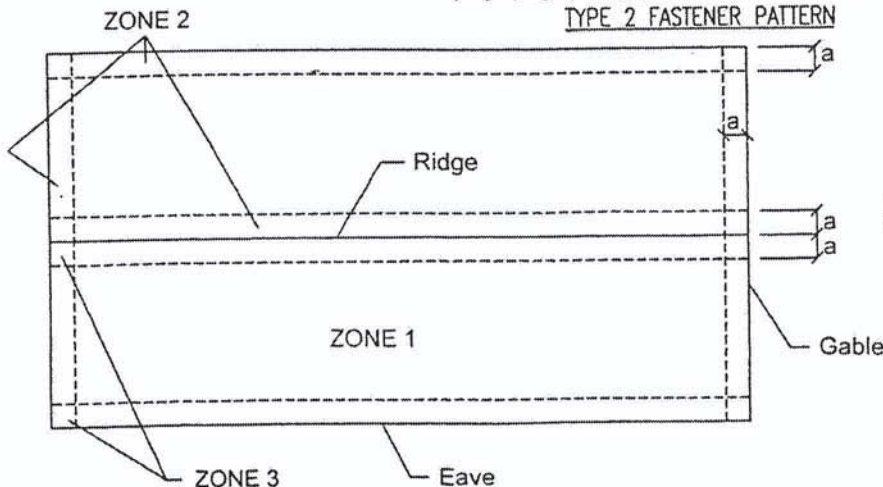
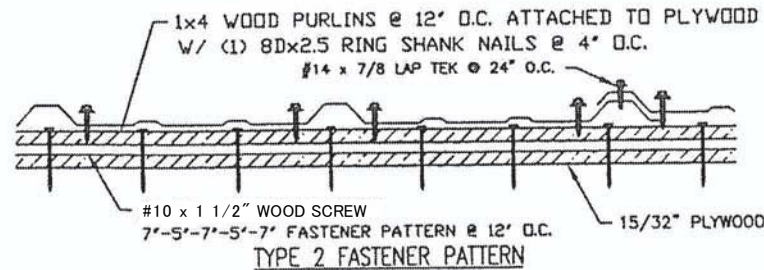
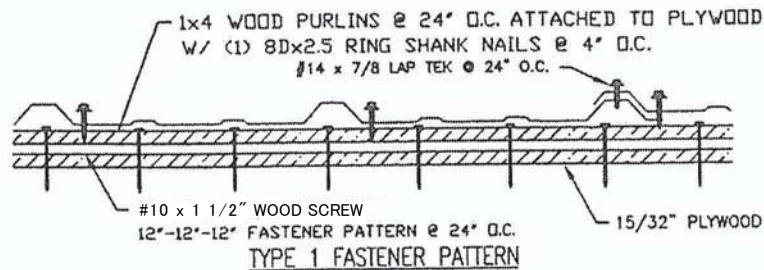
26GA. PBR FASTENER SPACING FOR OVER 1X4 WOOD PURLINS						
ZONE	FASTENER	SUBSTRATE	WIND SPEED ZONE			
			120	130	140	150
			ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING
ZONE 1	#10 x 1 1/2"	1X4 WOOD PURLINS	24" TYPE 1	24" TYPE 1	24" TYPE 1	24" TYPE 1
ZONE 2	#10 x 1 1/2"	1X4 WOOD PURLINS	24" TYPE 1	24" TYPE 2	24" TYPE 2	24" TYPE 2
ZONE 3	#10 x 1 1/2"	1X4 WOOD PURLINS	12" TYPE 2	12" TYPE 2	12" TYPE 2	12" TYPE 2

PANEL DESCRIPTION: PBR, MIN. 26 GA. GRADE 80, 36" COVERAGE, 1-1/4" TALL.

PANEL FASTENER: (1) #10 X 1-1/2" WOOD SCREW W/WASHER

MAXIMUM ALLOWABLE PANEL UPLIFT PRESSURE: 100.5 PSF @ 24" FASTENER SPACING TYPE 1 FASTENER PATTERN, 151.75 PSF @ 12" FASTENER SPACING TYPE 2 FASTENER PATTERN BASED ON TAS 125, UL 580/UL 1897 TESTING.

SUBSTRATE: 1X4 WOOD PURLINS OVER MIN. 15/32" PLYWOOD. WOOD PURLINS ATTACHED TO PLYWOOD WITH (1) 8D X 2-1/2" RING SHANK NAIL @ 4" O.C. MUST BE DESIGNED IN ACCORDANCE WITH FBC 2004.



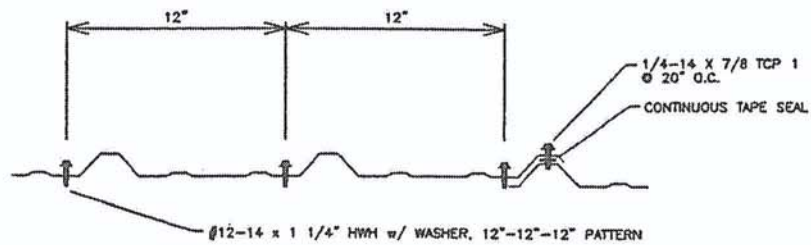
NOTE: Dimension (a) is defined as 10% of the minimum width of the building or 40% of the mean height of the roof, whichever is smaller, however, (a) cannot be less than either 4% of the minimum width of the building or 3 feet.

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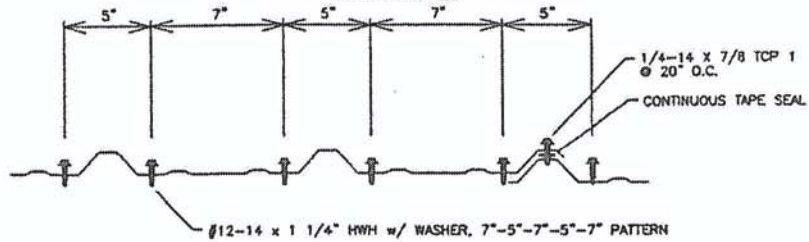
with < 20'-0" mean roof height – ½:12 to 12:12 pitch for
110-140 mph wind speeds

26GA. PBR FASTENER SPACING FOR OVER OPEN FRAMING						
ZONE	FASTENER	SUBSTRATE	WIND SPEED ZONE			
			110	120	130	140
			ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING
ZONE 1	#12-14 X 1-1/4"	MIN 16GA. PURLIN	60"	60"	60"	60"
ZONE 2	#12-14 X 1-1/4"	MIN 16GA. PURLIN	60"	60"	60"	60"
ZONE 3	#12-14 X 1-1/4"	MIN 16GA. PURLIN	60"	60"	60"	60"

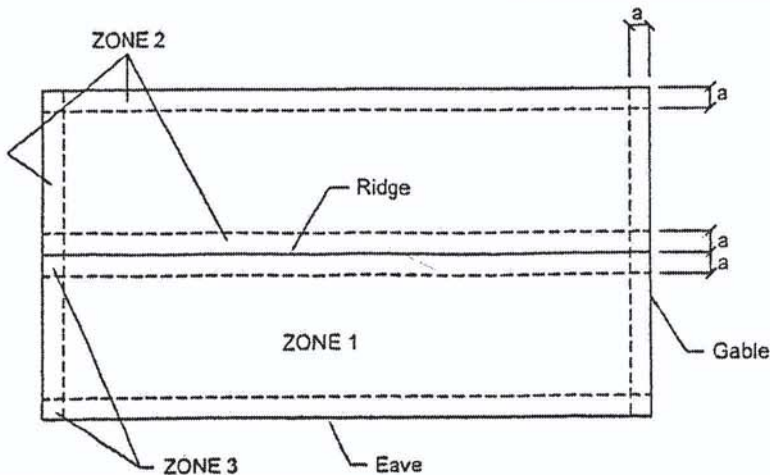
PANEL DESCRIPTION: PBR, MIN. 26 GA. GRADE 80, 36" COVERAGE, 1-1/4" TALL.
PANEL FASTENER: (1) #12-14X1-1/4" HWH W/SEALING WASHER.
MAXIMUM ROOF COMPONENT UPLIFT PRESSURE: +41.0 PSF @ 5' O.C. FASTENER SPACING, -41.7 PSF @ 5' O.C. FASTENER SPACING.
SUBSTRATE: MIN. 16GA. DESIGNED BY A FLORIDA P.E.



FASTENER PATTERN FOR INTERIOR SUPPORTS



FASTENER PATTERN FOR PANEL END AND PANEL END LAPS



NOTE: Dimension (a) is defined as 10% of the minimum width of the building or 40% of the mean height of the roof, whichever is smaller, however, (a) cannot be less than either 4% of the minimum width of the building or 3 feet.

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WWW.MARLYNMETALSINC.COM

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with <20'-0" mean roof height-1/2:12 to 12:12 pitch for 120-150 mph wind speeds

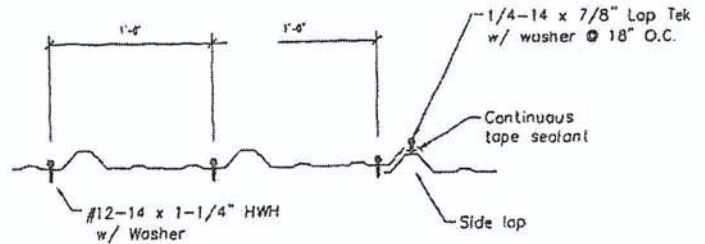
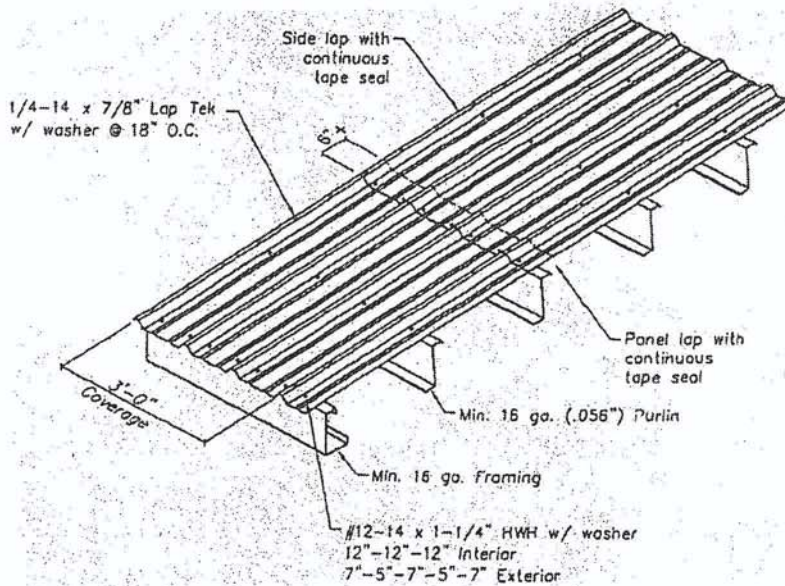
24GA. PBR FASTENER SPACING FOR OVER OPEN FRAMING						
ZONE	FASTENER	SUBSTRATE	WIND SPEED ZONE			
			120 ON CENTER SPACING	130 ON CENTER SPACING	140 ON CENTER SPACING	150 ON CENTER SPACING
ZONE 1	#12-14 X 1-1/4"	MIN 16GA. PURLIN	60"	60"	60"	60"
ZONE 2	#12-14 X 1-1/4"	MIN 16GA. PURLIN	60"	60"	60"	60"
ZONE 3	#12-14 X 1-1/4"	MIN 16GA. PURLIN	60"	60"	60"	60"

PANEL DESCRIPTION: PBR, MIN. 24GA. GRADE 50, 36" COVERAGE, 1-1/4" TALL.

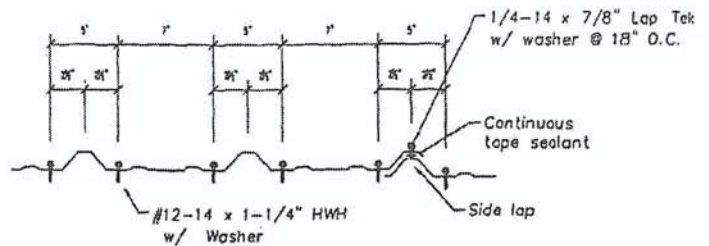
PANEL FASTENER: (1) #12-14X1-1/4" HWH W/SEALING WASHER.

MAXIMUM ROOF COMPONENT UPLIFT PRESSURE: -60.0 PSF@5'0" O.C. FASTENER SPACING, -150.0 PSF@2'0" O.C. FASTENER SPACING.

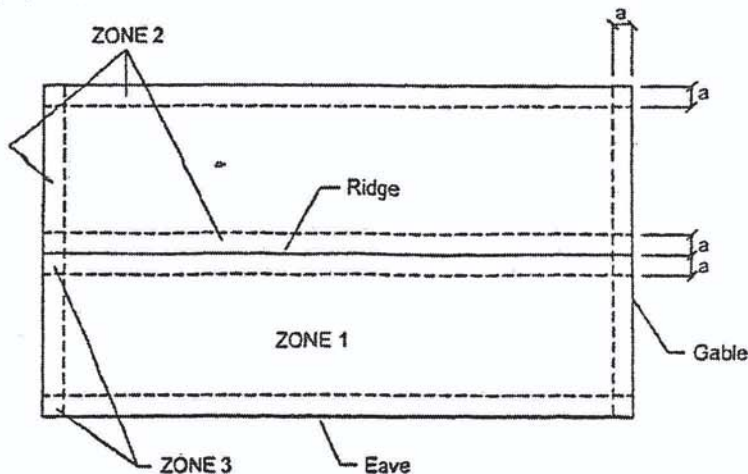
SUBSTRATE: MIN, 16GA. FRAMING DESIGNED BY A FLORIDA P.E.



DETAIL AT REMAINING SUPPORTS @ 5'-0" O.C. MAX.



DETAIL AT END LAP AND PANEL LAP



NOTE: Dimension (a) is defined as 10% of the minimum width of the building or 40% of the mean height of the roof, whichever is smaller, however, (a) cannot be less than either 4% of the minimum width of the building or 3 feet.

Manufacturers Recommended Wall Panel Fastening Guide

R-PBR WALL PANELS

R or PBR PANEL SECTION PROPERTIES								
GAUGE	F _y (ksi)	WEIGHT (psf)	POSITIVE BENDING			NEGATIVE BENDING		
			I _x (in ⁴ /ft)	S _x (in ³ /ft)	M _a (in-kip/ft)	I _x (in ⁴ /ft)	S _x (in ³ /ft)	M _a (in-kip/ft)
26	80	0.94	0.0423	0.0388	1.8620	0.039	0.0437	2.0980

R or PBR PANEL SECTION PROPERTIES								
GAUGE	F _y (ksi)	WEIGHT (psf)	POSITIVE BENDING			NEGATIVE BENDING		
			I _x (in ⁴ /ft)	S _x (in ³ /ft)	M _a (in-kip/ft)	I _x (in ⁴ /ft)	S _x (in ³ /ft)	M _a (in-kip/ft)
26	50	0.94	0.0423	0.0388	1.1640	0.039	0.0437	1.3110

Notes:

- Section properties have been calculated in accordance with the 1996 AISI Cold-Formed Steel Specification (equivalent to AISI-NASPEC).**

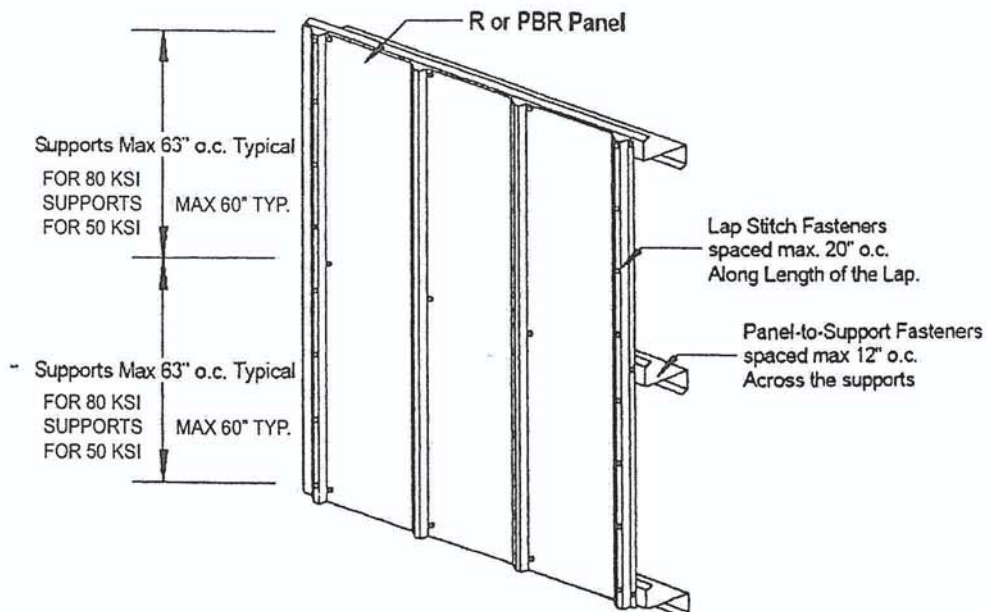
PANEL DESCRIPTION: PBR, MIN. 26 GA. GRADE 50 OR 80, 36" COVERAGE, 1-1/4" TALL.

PANEL FASTENER: (1) #12-14 X MINIMUM PENETRATION THROUGH SUPPORTS 3/4", HEX-HEAD, SELF DRILLING, CORROSION RESISTANT SCREWS, PER SAE J78-1979 WITH 5/8" OD FORMED STEEL WASHERS AND A NEOPRENE SEALING WASHERS..

DESIGN PRESSURE: NEGATIVE: 45 PSF, POSITIVE: 40 PSF. (SAFETY FACTOR-2:1)

SUPPORT TYPE: GIRTS/FRAMING MEMBERS-SPACED MAXIMUM 60" O.C. FOR 50 KSI AND 63" O.C. FOR 80 KSI. (DESIGN OF SUPPORT SYSTEM IS NOT INCLUDED IN THIS EVALUATION).

SUPPORT DESCRIPTION: STEEL, MINIMUM 16 GAUGE, MINIMUM YIELD STRENGTH 50 OR 80 KSI.



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