



# PRODUCT INFORMATION

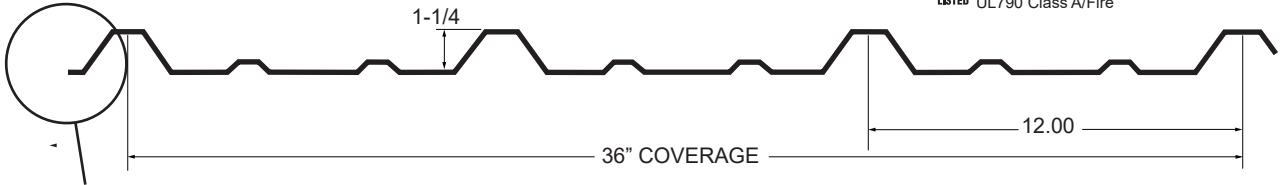
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## PBR PANEL

UL90 #560  
UL2218 Class IV/Impact  
LISTED UL790 Class A/Fire



PURLIN BEARING FEATURE

26 ga. (22 ga. & 24 ga. by special order)

SECTION PROPERTIES								
PANEL GAUGE	(Yield Stress) F <sub>y</sub> (KSI)	WEIGHT (PSF)	TOP FLAT IN COMPRESSION (Positive Bending)			BOTTOM FLAT IN COMPRESSION (Negative Bending)		
			I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> (Kip in.)	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> (Kip in.)
22	50.0	1.44	0.0567	0.0739	2.2119	0.0754	0.0787	2.3553
24	50.0	1.14	0.0404	0.0733	2.1953	0.0506	0.0521	1.5594
26	80.0	0.881	0.0400	0.0406	1.4590	0.0373	0.0497	1.7847

### NOTES

\*F<sub>y</sub> is 80-KSI reduced 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. Specifications for 80-KSI available.  
1. All calculations for 24/22GA properties of panels are calculated in accordance with the 2001 edition of the Specifications for the Design of Light Gauge Cold Formed Steel Structures Members - A2.3.2. 2. I<sub>x</sub> is for deflection determination. 3. S<sub>e</sub> is for bending. 4. M<sub>a</sub> is allowable bending movement. 5. All values are for one foot of panel width.

## ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

### 22 Gauge (F<sub>y</sub>=50KSI)

SPAN TYPE	LOAD TYPE	SPAN IN FEET					
		3.0	4.0	5.0	6.0	7.0	8.0
SINGLE	NEGATIVE WIND LOAD	231.1	130.0	83.2	57.8	42.5	32.5
	LIVE LOAD / DEFLECTION	166.1	93.4	49.6	28.7	18.1	12.1
2-SPAN	NEGATIVE WIND LOAD	166.1	93.4	59.8	41.5	30.5	23.4
	LIVE LOAD / DEFLECTION	163.1	92.5	59.4	41.3	30.4	23.3
3-SPAN	NEGATIVE WIND LOAD	207.7	116.8	74.8	51.9	38.1	29.2
	LIVE LOAD / DEFLECTION	200.6	115.1	74.1	51.6	34.1	22.8

### 24 Gauge (F<sub>y</sub>=50KSI)

SPAN TYPE	LOAD TYPE	SPAN IN FEET					
		3.0	4.0	5.0	6.0	7.0	8.0
SINGLE	NEGATIVE WIND LOAD	162.6	91.5	58.5	40.7	29.9	22.9
	LIVE LOAD / DEFLECTION	115.5	65.0	35.4	20.5	12.9	8.6
2-SPAN	NEGATIVE WIND LOAD	115.5	65.0	41.6	28.9	21.2	16.2
	LIVE LOAD / DEFLECTION	109.4	64.2	41.3	28.7	21.1	16.2
3-SPAN	NEGATIVE WIND LOAD	144.4	81.2	52.0	36.1	26.5	20.3
	LIVE LOAD / DEFLECTION	124.3	79.8	51.4	35.8	26.4	16.3

### 26 Gauge (F<sub>y</sub>=80KSI)

SPAN TYPE	LOAD TYPE	SPAN IN FEET					
		3.0	4.0	5.0	6.0	7.0	8.0
SINGLE	NEGATIVE WIND LOAD	175.8	98.9	63.3	44.0	32.3	24.7
	LIVE LOAD / DEFLECTION	108.1	54.6	28.0	16.2	10.2	6.8
2-SPAN	NEGATIVE WIND LOAD	143.7	80.9	51.7	35.9	26.4	20.2
	LIVE LOAD / DEFLECTION	132.2	71.1	36.4	21.1	13.3	8.9
3-SPAN	NEGATIVE WIND LOAD	167.9	94.5	60.5	42.0	30.8	23.6
	LIVE LOAD / DEFLECTION	154.4	86.9	52.8	30.5	19.2	12.9

### NOTES

1. Allowable loads are based on uniform span lengths and F<sub>y</sub> of 50 and 60 KSI. 2. Live load is allowable live load. 3. Negative wind load does NOT contain a 33 1/3% increase. 4. Deflection loads are limited by a maximum deflection ratio of L/180 of span or maximum bending stress from live load. 5. Weight of the panel has NOT been deducted from allowable loads. 6. Live Load is limited by bending, shear, combined shear & bending and web crippling. 7. Minimum bearing length of 1.5" required.