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# PBR/R-PANEL

## GRAVITY LOAD CHART

### GRAVITY - TOTAL ALLOWABLE LOAD IN PSF (SPAN IN FEET)

Gauge	Span Type	Load Type	3	3.5	4	4.5	5	6	7	8	9	10
29 (Fy=80ksi)	Single Span	Stress	58.5	43.0	32.9	26.0	21.1	14.6	10.7	8.2	6.5	5.3
		Deflection	72.2	45.5	30.5	21.4	15.6	9.0	5.7	3.8	2.7	2.0
	2 Spans	Stress	85.6	62.9	48.2	38.1	30.8	21.4	15.7	12.0	9.5	7.7
		Deflection	164.1	103.3	69.2	48.6	35.4	20.5	12.9	8.7	6.1	4.4
	3 Spans or More	Stress	99.9	73.4	56.2	44.4	36.0	25.0	18.4	14.1	11.1	9.0
		Deflection	136.4	85.9	57.6	40.4	29.5	17.1	10.7	7.2	5.1	3.7

26 (Fy=80ksi)	Single Span	Stress	95.8	70.4	53.9	42.6	34.5	23.9	17.6	13.5	10.6	8.6
		Deflection	119.7	75.4	50.5	35.5	25.8	15.0	9.4	6.3	4.4	3.2
	2 Spans	Stress	120.4	88.5	67.7	53.5	43.3	30.1	22.1	16.9	13.4	10.8
		Deflection	243.0	153.0	102.5	72.0	52.5	30.4	19.1	12.8	9.0	6.6
	3 Spans or More	Stress	140.5	103.3	79.1	62.5	50.6	35.1	25.8	19.8	15.6	12.6
		Deflection	202.1	127.3	85.3	59.9	43.7	25.3	15.9	10.7	7.5	5.5

24 (Fy=50ksi)	Single Span	Stress	123.8	91.0	69.7	55.0	44.6	31.0	22.7	17.4	13.8	11.1
		Deflection	171.2	107.8	72.2	50.7	37.0	21.4	13.5	9.0	6.3	4.6
	2 Spans	Stress	130.5	95.9	73.4	58.0	47.0	32.6	24.0	18.4	14.5	11.7
		Deflection	335.8	211.4	141.7	99.5	72.5	42.0	26.4	17.7	12.4	9.1
	3 Spans or More	Stress	152.3	111.9	85.7	67.7	54.8	38.1	28.0	21.4	16.9	13.7
		Deflection	279.2	175.8	117.8	82.7	60.3	34.9	22.0	14.7	10.3	7.5

22 (Fy=50ksi)	Single Span	Stress	174.9	128.5	98.4	77.7	63.0	43.7	32.1	24.6	19.4	15.7
		Deflection	237.4	149.5	100.2	70.3	51.3	29.7	18.7	12.5	8.8	6.4
	2 Spans	Stress	168.0	123.4	94.5	74.7	60.5	42.0	30.9	23.6	18.7	15.1
		Deflection	452.3	284.8	190.8	134.0	97.7	56.5	35.6	23.9	16.8	12.2
	3 Spans or More	Stress	196.1	144.1	110.3	87.1	70.6	49.0	36.0	27.6	21.8	17.6
		Deflection	376.1	236.9	158.7	111.4	81.2	47.0	29.6	19.8	13.9	10.2

Section Properties			Top In Compression			Bott. In Compression		
Gauge	fy	wt	ix	sx	ma	ix	sx	ma
	(ksi)	(psf)	(in <sup>4</sup> /ft)	(in <sup>3</sup> /ft)	(kip-in)	(in <sup>4</sup> /ft)	(in <sup>3</sup> /ft)	(kip-in)
26	80	0.88	0.0376	0.0379	1.2928	0.0317	0.0452	1.6256
24	50	1.12	0.0538	0.0558	1.6717	0.0438	0.0588	1.7618
22	50	1.42	0.0746	0.0789	2.3612	0.0590	0.0758	2.2680
<b>Max Deflection:</b>		<b>180</b>						

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