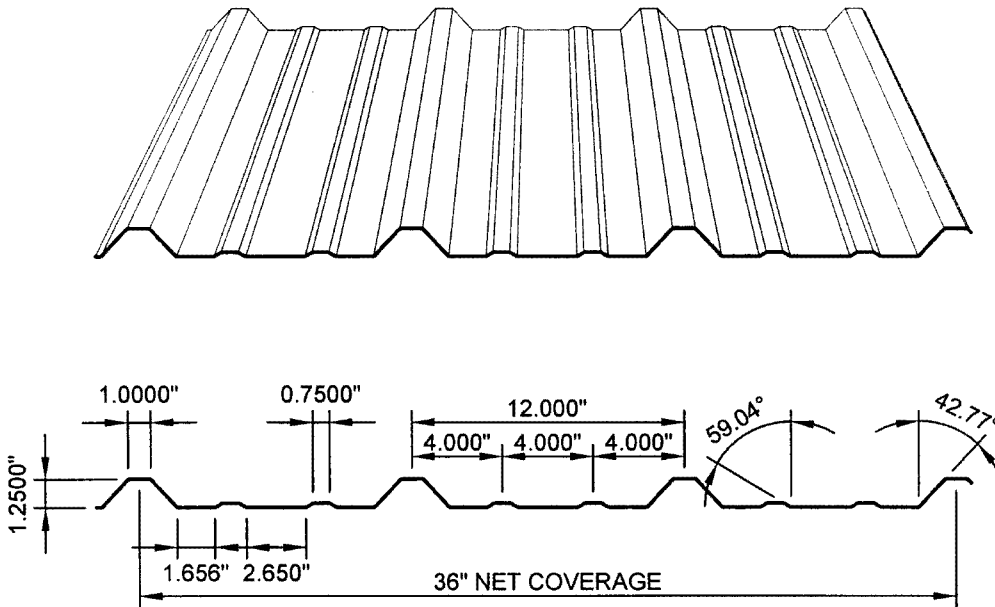


WESTERN R-PANEL



Section Properties			Top in Compression			Bott. in Compression		
gauge	f_y	wt	i_x	s_x	ma	i_x	s_x	ma
	(ksi)	(psf)	(in ⁴ /ft)	(in ³ /ft)	(kip-in)	(in ⁴ /ft)	(in ³ /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

NOTES:

1. Effective section properties are calculated in accordance with the 2004 North American Specifications for the design of Cold-Formed Steel Structural Members.
2. I_x is for the determination of deflection.
3. S_x and M_a are for stress determination.

GRAVITY LOAD, R PANEL												
span type	load type	Gravity - Total Allowable Load in psf, (span in feet)										
		3	3.5	4	4.5	5	6	7	8	9	10	
29 Gage(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
span type	load type	Gravity - Total Allowable Load in psf, (span in feet)										
26 Gage(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
span type	load type	Gravity - Total Allowable Load in psf, (span in feet)										
24 Gage(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
span type	load type	Gravity Total Allowable Load in psf, (span in feet)										
22 Gage(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 ⁴ /ft)	(in ³ /ft)	(kip-in)	(in ⁴ /ft)	(in ³ /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
max. deflection		180						

UPLIFT LOAD, R PANEL												
	span type	load type	Uplift - Total Allowable Load in psf, (span in feet)									
			3	3.5	4	4.5	5	6	7	8	9	10
29 Gage(Fy=80ksi)	single span	stress	85.6	62.9	48.2	38.1	30.8	21.4	15.7	12.0	9.5	7.7
		deflection	68.1	42.9	28.7	20.2	14.7	8.5	5.4	3.6	2.5	1.8
	2 spans	stress	58.5	43.0	32.9	26.0	21.1	14.6	10.7	8.2	6.5	5.3
		deflection	174.0	109.6	73.4	51.6	37.6	21.8	13.7	9.2	6.4	4.7
	3 spans or more	stress	68.2	50.1	38.4	30.3	24.6	17.1	12.5	9.6	7.6	6.1
		deflection	144.7	91.1	61.1	42.9	31.3	18.1	11.4	7.6	5.4	3.9
	span type	load type	Uplift - Total Allowable Load in psf, (span in feet)									
			3	3.5	4	4.5	5	6	7	8	9	10
26 Gage(Fy=80ksi)	single span	stress	120.4	88.5	67.7	53.5	43.3	30.1	22.1	16.9	13.4	10.8
		deflection	100.9	63.5	42.6	29.9	21.8	12.6	7.9	5.3	3.7	2.7
	2 spans	stress	95.8	70.4	53.9	42.6	34.5	23.9	17.6	13.5	10.6	8.6
		deflection	288.2	181.5	121.6	85.4	62.3	36.0	22.7	15.2	10.7	7.8
	3 spans or more	stress	111.8	82.1	62.9	49.7	40.2	27.9	20.5	15.7	12.4	10.1
		deflection	239.7	151.0	101.1	71.0	51.8	30.0	18.9	12.6	8.9	6.5
	span type	load type	Uplift - Total Allowable Load in psf, (span in feet)									
			3	3.5	4	4.5	5	6	7	8	9	10
24 Gage(Fy=50ksi)	single span	stress	130.5	95.9	73.4	58.0	47.0	32.6	24.0	18.4	14.5	11.7
		deflection	139.4	87.8	58.8	41.3	30.1	17.4	11.0	7.4	5.2	3.8
	2 spans	stress	123.8	91.0	69.7	55.0	44.6	31.0	22.7	17.4	13.8	11.1
		deflection	412.4	259.7	174.0	122.2	89.1	51.6	32.5	21.7	15.3	11.1
	3 spans or more	stress	144.5	106.2	81.3	64.2	52.0	36.1	26.5	20.3	16.1	13.0
		deflection	343.0	216.0	144.7	101.6	74.1	42.9	27.0	18.1	12.7	9.3
	span type	load type	Uplift - Total Allowable Load in psf, (span in feet)									
			3	3.5	4	4.5	5	6	7	8	9	10
22 Gage(Fy=50ksi)	single span	stress	168.0	123.4	94.5	74.7	60.5	42.0	30.9	23.6	18.7	15.1
		deflection	187.8	118.2	79.2	55.6	40.6	23.5	14.8	9.9	7.0	5.1
	2 spans	stress	174.9	128.5	98.4	77.7	63.0	43.7	32.1	24.6	19.4	15.7
		deflection	571.9	360.1	241.3	169.4	123.5	71.5	45.0	30.2	21.2	15.4
	3 spans or more	stress	204.1	150.0	114.8	90.7	73.5	51.0	37.5	28.7	22.7	18.4
		deflection	475.6	299.5	200.6	140.9	102.7	59.4	37.4	25.1	17.6	12.8

Section Properties			Top in Compression			Bott. in Compression		
gauge	fy	wt	ix	sx	ma	ix	sx	ma
	(ksi)	(psf)	(in ⁴ /ft)	(in ³ /ft)	(kip-in)	(in ⁴ /ft)	(in ³ /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
max. deflection		180						