



Eco-ficient™ 42" Grand Panel
(Allowable Connection Load with Side joint Clip Only in PSF)

Panel Depth	Span Type	Thickness	Span in Feet								
			4'	5'	6'	7'	8'	9'	10'	11'	12'
24" Wide	Two Spans	2"	88.00	68.80	56.10	47.30	39.60	33.40	28.40	24.40	21.20
		2.5"	100.40	79.20	64.70	54.50	47.00	41.30	36.40	31.60	27.60
		3"	109.60	88.70	72.50	61.10	52.70	46.20	41.20	37.10	33.50
	Three or More Spans	2"	90.30	71.50	58.80	48.00	39.60	33.10	27.90	23.70	20.30
		2.5"	103.10	81.50	66.90	56.70	49.20	42.40	36.20	31.20	27.00
		3"	112.90	90.60	74.30	62.90	54.50	48.10	43.00	37.90	33.20
30" Wide	Two Spans	2"	70.40	55.00	44.90	37.80	32.70	28.70	25.60	23.10	21.10
		2.5"	80.30	63.40	51.70	43.60	37.60	33.00	29.40	26.50	24.10
		3"	87.60	71.00	58.00	48.90	42.10	37.00	32.90	29.60	27.00
	Three or More Spans	2"	72.30	57.20	47.30	40.40	35.20	31.20	27.90	23.70	20.30
		2.5"	82.50	65.30	54.00	46.00	40.00	35.50	31.80	28.90	26.40
		3"	90.30	72.60	60.00	51.10	44.50	39.40	35.30	32.00	29.30
36" Wide	Two Spans	2"	58.70	45.80	37.40	31.50	27.20	23.90	21.30	19.30	17.60
		2.5"	66.90	52.80	43.10	36.30	31.30	27.50	24.50	22.10	20.10
		3"	73.00	59.10	48.30	40.70	35.10	30.80	27.40	24.70	22.50
	Three or More Spans	2"	60.20	47.70	39.40	33.60	29.30	26.00	23.30	21.20	19.40
		2.5"	68.70	54.40	45.00	38.30	33.40	29.50	26.50	24.00	22.00
		3"	75.20	60.50	50.00	42.60	37.00	32.80	29.40	26.70	24.40

Notes:

1. Based on 36", 30" and 24" Grand panel with 22 ga. Flat exterior & 26 ga. Light Royal interior faces (min Fy=33 ksi).
2. Panel clips are fastened to min. 14 gage steel with (2) 1/4"-14 SDS Tek 3 at interior and end supports. For 12 gage or thicker steel, #12-24 SDS and 1/4"-14 SDS Tek 5 may be used. In lieu of self-drilling screws, self-tapping screws may be used.
3. Allowable loads based on panel stress, connection strength and deflection design criteria are derived from ASTM E72 structural testing.
4. The allowable inward or outward loads is the smallest load calculated with a factor of safety of 2.5 for bending stress, 3.0 for shear stresses, 2.0 for connection and deflection limitation of L/180.
5. The structural capacity of the girts are not considered and must be examined independently.
6. This information is subject to change without notice. Please contact MBCI for most current information.