



Eco-ficient™ 7.2 Panel
(Allowable Loads in PSF)

Panel Depth	Span Type	Load Type	Span in Feet									
			4'	5'	6'	7'	8'	9'	10'	11'	12'	13'
2.5"	Two Spans	Bending & Shear	143.10	95.20	68.50	52.00	41.00	33.30	27.60	23.30	20.00	17.40
		L/180	577.20	320.30	201.20	137.20	99.10	74.70	58.10	46.30	37.60	31.00
		Pattern FP1	27.10	24.10	22.10	20.70	19.60	18.80	18.10	17.50	17.00	17.40
		Pattern FP11	143.10	95.20	68.50	52.00	41.00	33.30	27.60	23.30	20.00	17.40
	Three or More Spans	Bending & shear	171.60	113.10	80.90	61.20	48.20	39.10	32.50	27.50	23.60	20.50
		L/180	492.70	278.60	177.10	121.70	88.10	66.40	51.50	40.90	33.00	27.10
		Pattern FP1	30.40	27.00	24.80	23.20	22.00	21.00	20.30	19.70	19.10	20.50
		Pattern FP11	171.60	113.10	80.90	61.20	48.20	39.10	32.50	27.50	23.60	20.50
3"	Two Spans	Bending & Shear	147.50	99.40	72.40	55.60	44.30	36.30	30.30	25.80	22.30	19.50
		L/180	601.40	339.60	217.20	150.90	111.00	85.10	67.20	54.40	44.90	37.50
		Pattern FP1	42.40	35.80	31.30	28.10	25.60	23.70	22.20	20.90	19.90	18.30
		Pattern FP11	147.50	99.40	72.40	55.60	44.30	36.30	30.30	25.80	22.30	19.50
	Three or More Spans	Bending & Shear	175.50	116.80	84.40	64.40	51.20	41.90	35.00	29.80	25.80	22.60
		L/180	521.00	300.90	195.50	137.00	101.30	77.70	61.40	49.50	40.70	33.80
		Pattern FP1	47.40	39.90	34.90	31.30	28.60	26.40	24.80	23.40	22.20	20.50
		Pattern FP11	175.50	116.80	84.40	64.40	51.20	41.90	35.00	29.80	25.80	22.60
4"	Two Spans	Bending & Shear	153.80	105.40	78.20	61.00	49.30	41.00	34.70	29.80	26.00	22.90
		L/180	635.90	367.80	241.00	171.50	129.10	101.30	81.80	67.60	56.90	48.60
		Pattern FP1	47.70	39.60	34.20	30.30	27.30	24.90	23.00	21.40	20.10	18.60
		Pattern FP11	153.80	105.40	78.20	61.00	49.30	41.00	34.70	29.80	26.00	22.90
	Three or More Spans	Bending & Shear	181.20	122.20	89.50	69.20	55.60	46.00	38.90	33.50	29.20	25.80
		L/180	560.90	332.90	222.30	160.10	121.50	95.70	77.40	64.00	53.70	45.70
		Pattern FP1	53.00	43.90	37.70	33.30	30.00	27.50	25.40	23.70	22.30	20.60
		Pattern FP11	181.20	122.20	89.50	69.20	55.60	46.00	38.90	33.50	29.20	25.80
5"	Two Spans	Bending & Shear	161.40	112.50	84.70	66.90	54.70	45.80	39.10	33.90	29.70	26.30
		L/180	683.80	405.90	272.40	198.10	152.10	121.40	99.70	83.60	71.30	61.60
		Pattern FP1	48.10	40.00	34.60	30.60	27.60	25.20	23.30	21.70	20.40	18.70
		Pattern FP11	161.40	112.50	84.70	66.90	54.70	45.80	39.10	33.90	29.70	26.30
	Three or More Spans	Bending & Shear	188.00	128.60	95.30	74.60	60.60	50.60	43.10	37.30	32.80	29.10
		L/180	614.40	374.40	256.00	188.40	145.80	116.90	96.20	80.70	68.70	59.30
		Pattern FP1	53.20	44.00	37.90	33.50	30.10	27.60	25.50	23.80	22.40	20.60
		Pattern FP11	188.00	128.60	95.30	74.60	60.60	50.60	43.10	37.30	32.80	29.10
6"	Two Spans	Bending & Shear	168.30	118.80	90.40	72.20	59.50	50.20	43.10	37.60	33.10	29.40
		L/180	729.40	442.10	302.40	223.60	174.20	140.80	117.00	99.10	85.40	74.40
		Pattern FP1	48.40	40.40	34.90	30.90	27.90	25.50	23.50	21.90	20.60	18.90
		Pattern FP11	168.30	118.80	90.40	72.20	59.50	50.20	43.10	37.60	33.10	29.40
	Three or More Spans	Bending & Shear	194.30	134.40	100.60	79.40	65.00	54.60	46.80	40.80	35.90	32.00
		L/180	664.30	413.20	287.60	215.00	168.80	137.10	114.10	96.80	83.30	72.50
		Pattern FP1	53.30	44.10	38.00	33.60	30.20	27.60	25.60	23.80	22.40	20.70
		Pattern FP11	194.30	134.40	100.60	79.40	65.00	54.60	46.80	40.80	35.90	32.00

Notes:

1. Based on 7.2 panel with 22 Ga. exterior & 26 Ga. interior face (min Fy = 33 ksi) for loads listed above.
2. Allowable positive load is the lowest value of the panel bending and shear strength or deflection limit.
3. Allowable suction load is the lowest value of the panel bending and shear strength, deflection limited and connection strength for each fastener pattern.
The numbers have been reduced to reflect the lowest value.
4. Loads based on panel stress, deflection and connection design criteria are derived from ASTM E-72 testing.
5. Allowable loads are calculated with a factor of safety of 2.5 for bending, 3.0 for shear and 2.0 for connection.
6. Pattern FP1 is based on clip with (2) 1/4"-14 Tek III's in minimum 14 gage steel.
7. Pattern FP11 is based on five (7.2" on center, low cell of product), 1/4"-14" Tek III's with 5/8" neoprene bonded washer in minimum 14 gage steel.
8. The structural capacity of the girts are not considered and must be examined independently.
9. This information is subject to change without notice. Please contact MBCI for most current information.