



ISOLEREN TECHNICAL BULLETIN: ALLOWABLE UNIFORM LOADS TABLE

PRODUCT:

Isoleren Insulated Metal Wall Panels
 Isoleren Profiles: IN, ST, IM, ML, SL, WL, VL
 Width: 42" max.
 Thickness: 2" min.
 Gauge: 26-gauge min. (facer and liner)
 Finish: Embossed or Smooth

ALLOWABLE UNIFORM LOADS (PSF):

Panel Thickness (in.)	Span Type	Load Type	Span (ft.)												
			5	6	7	8	9	10	11	12	13	14	15	16	
2	Single	Positive	95.73	71.34	53.32	40.50	31.69	25.72	21.42	17.61					
		Negative FP1	33.99	28.49	24.30	21.17	18.85	17.08	15.59	14.14					
	Two	Positive	102.92	82.86	66.79	54.15	44.36	36.86	31.08	26.45					
		Negative FP1	38.64	33.37	29.02	25.46	22.55	20.17	18.19	16.48					
	Three	Positive	102.30	82.35	66.10	53.09	42.86	34.95	28.90	24.26					
		Negative FP1	39.62	33.69	29.10	25.60	22.93	20.85	19.10	17.45					
2.5	Single	Positive	120.38	92.01	70.43	54.49	43.03	34.91	28.98	24.09					
		Negative FP1	37.13	31.13	26.56	23.15	20.61	18.68	17.07	15.51					
	Two	Positive	121.34	99.88	82.32	68.14	56.83	47.88	40.79	35.04					
		Negative FP1	41.34	35.63	31.11	27.54	24.68	22.31	20.18	18.05					
	Three	Positive	119.56	99.15	81.94	67.61	55.85	46.33	38.74	32.75					
		Negative FP1	42.51	36.32	31.47	27.73	24.85	22.58	20.68	18.91					
3	Single	Positive	141.11	109.57	85.36	67.24	53.99	44.38	37.18	31.17					
		Negative FP1	41.18	34.56	29.52	25.74	22.93	20.76	18.93	17.13					
	Two	Positive	135.40	112.51	93.90	78.93	66.99	57.43	49.63	42.96					
		Negative FP1	45.26	38.82	33.89	30.14	27.23	24.85	22.65	20.30					
	Three	Positive	132.58	111.20	93.39	78.64	66.52	56.57	48.32	41.30					
		Negative FP1	46.68	39.85	34.55	30.49	27.38	24.94	22.80	20.91					
4	Single	Positive	166.83	133.06	106.71	86.58	71.45	60.08	51.26	43.77	36.39	29.05	24.07	19.95	
		Negative FP1	40.10	33.59	28.72	25.09	22.36	20.26	18.59	17.21	16.03	15.04	14.28	13.87	
	Two	Positive	150.20	125.05	105.55	90.61	79.14	70.05	62.25	54.64	46.13	40.04	34.74	30.14	
		Negative FP1	43.00	35.75	30.21	26.02	22.83	20.38	18.46	16.90	15.60	14.51	13.63	13.03	
	Three	Positive	154.14	127.79	107.29	91.58	79.56	70.18	62.35	54.99	47.03	39.99	34.63	29.98	
		Negative FP1	44.26	36.89	31.35	27.19	24.03	21.58	19.60	17.91	16.42	15.11	14.00	13.20	
5	Single	Positive	165.44	137.02	113.78	95.04	80.09	68.24	58.79	51.03	44.29	36.08	30.59	25.94	
		Negative FP1	39.70	33.79	28.94	25.08	22.06	19.74	17.96	16.58	15.45	14.42	13.35	12.09	
	Two	Positive	155.78	128.86	108.25	92.79	81.31	72.67	65.70	59.23	52.12	43.78	38.33	33.56	
		Negative FP1	42.15	35.94	30.81	26.62	23.23	20.59	18.49	16.83	15.49	14.33	13.25	12.10	
	Three	Positive	151.78	125.57	105.66	90.87	80.01	71.91	65.38	59.23	52.29	44.06	38.72	34.04	
		Negative FP1	43.33	36.99	31.79	27.59	24.24	21.61	19.56	17.90	16.65	15.32	14.41	13.20	
6	Single	Positive	159.06	134.07	113.58	96.94	83.54	72.73	63.88	56.36	49.54	41.64	36.02	31.16	
		Negative FP1	39.77	33.79	28.94	25.08	22.06	19.74	17.96	16.58	15.45	14.42	13.35	12.09	
	Two	Positive	156.02	129.69	109.28	93.77	82.17	73.46	66.65	60.72	54.68	45.31	39.82	35.01	
		Negative FP1	41.38	35.64	30.84	26.88	23.65	21.05	18.96	17.27	15.89	14.71	13.60	12.48	
	Three	Positive	152.49	126.47	106.42	91.31	80.11	71.80	65.34	59.70	53.85	44.97	39.61	34.89	
		Negative FP1	42.59	36.92	31.69	27.65	24.40	21.82	19.77	18.14	16.81	15.66	14.57	13.42	

NOTES:

1. Allowable loads were derived from test conducted in accordance with ASTM E1592 and ASTM E72.
2. All loads reflect Fastener Pattern 1 (FP1) – Standard clip with (2) ¼ - 14 self-drilling fasteners.
3. The above loads reflect attachment to 14-ga. steel supports. Attachment to other substrates must be designed separately.
4. Allowable loads assume a minimum bearing surface of 1.5”.
5. Allowable loads are for uniform span lengths.
6. Allowable loads reflect a deflection limit of L/180.
7. The panel self-weight was not added or subtracted from the allowable loads.
8. Above load table does not consider thermal effects.