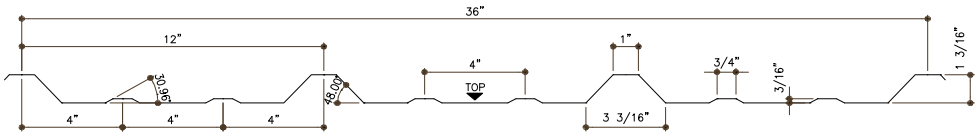
DOMTEK - PB-RIB Panel

Grade 80

Imperial



Physical Properties

Per Foot Width - In accordance with CSA S136-01 - Limit States Design

Thickness		Weight	Yield Strength	Section Modulus		Moment of Inertia	Factored Moment Resistance		Specified Crippling Bearing N = 1.5 in.	
Gauge	Base	Z275		Mid	Support	Mid Span	Mid	Support	End	Interior
	(in.)	*(lb/ft^2)*	*(ksi)*	*(in.^{3})*	*(in.^{3})*	*(in.^{4})*	*(ft-lb)*	*(ft-lb)*	*(lb)*	*(lb)*
26	0.0180	0.950	54	0.0306	0.0479	0.03453	137.52	215.76	198	316
24	0.0239	1.220	54	0.0453	0.0589	0.05126	203.94	264.86	363	539

Load Table

Maximum Specified Uniformly Distributed Load in lb/ft^2 (psf)

Span		1 Span		2 Span		3 Span	
		Gauge		Gauge		Gauge	
(ft)		26	24	26	24	26	24
2	B	183	272	288	353	286	425
	D	377	560	898	1333	712	1057
2.5	B	117	174	184	226	183	272
	D	193	287	460	683	364	541
3	B	81	121	128	157	127	189
	D	112	166	266	395	211	313
3.5	B	60	89	94	115	94	139
	D	70	104	168	249	133	197
4	B	46	68	72	88	72	106
	D	47	70	112	167	89	132
4.5	B	36	54	57	70	57	84
	D	33	49	79	117	62	93
5	B	29	44	46	57	46	68
	D	24	36	57	85	46	68
5.5	B	24	36	38	47	38	56
	D	18	27	43	64	34	51
6	B	20	30	32	39	32	47
	D	14	21	33	49	26	39
6.5	B	17	26	27	33	27	40
	D	11	16	26	39	21	31
7	B	15	22	23	29	23	35
	D	9	13	21	31	17	25
7.5	B	13	19	20	25	20	30
	D	7	11	17	25	13	20
8	B	11	17	18	22	18	27
	D	6	9	14	21	11	17

Notes:

1. Properties and loads are based on Grade 80 Steel with a minimum yield stress of 80,000 psi and a maximum yield stress under factored loads of 54,000 psi.
2. Figures in Row B indicate the load capacity based on strength. Strength capacity B should be checked against [Specified Live Load] + [0.833 x Specified Dead Load].
3. Figures in Row D indicate the load capacity based on deflection of 1/180th span. For allowable deflection of 1/90th of the span, values in Row D can be doubled, but must not exceed the value in Row B. Deflection capacity should be checked against Specified Load(s).
4. Specified web crippling capacity should be checked against specified load at support location.

Notes to the Designer:

1. The Load Tables were developed in accordance with CSA S136-01 - North American Specification for the Design of Cold Formed Steel Structural Members and S136S1-04 - Supplement 2004 to the North American Specification for the Design of Cold Formed Steel Structural Members.
2. The Load Tables were developed using Limit States Design principles.
3. The Load Tables are based on specified uniformly distributed loads only.
4. The effective moment of inertia for deflection determination has been calculated at a specified live load stress of 0.6Fy.
5. Specified Web Crippling loads were determined using a bearing width of 1.5".
6. The load tables do not consider the effect of pattern loading.
7. The load tables do not account for concentrated loads.
8. All span applications assumes all spans are equal.