

Limit States Design

Notes:

1. Loads are based on Grade 33 steel conforming to ASTM A653 with a minimum yield stress of 33,000 psi and a maximum stress under factored loads of 29,700 psi.

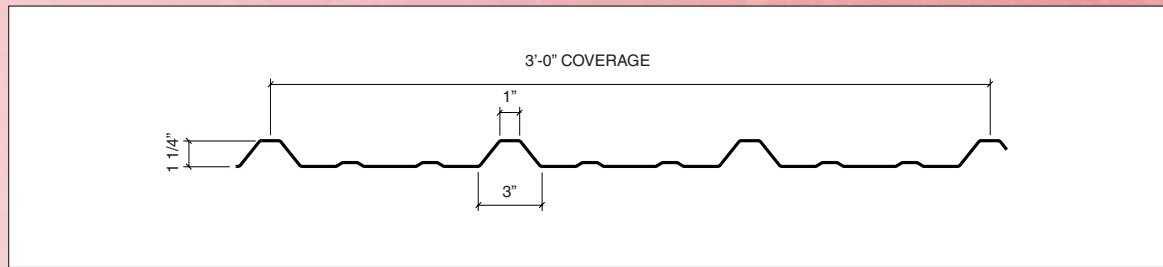
2. Section properties are in accordance with CSA S136-12.

3. Values in row "S" are the maximum specified uniform loads based on strength which must be greater than the applied factored load.

4. Values in row "D" are the maximum specified uniformly distributed loads based on a deflection limit of L/180. The load in row "D" should not be used if it exceeds the load in row "S". The lesser value governs.

5. Reductions for web crippling have been included in the load table when they apply.

Imperial



Physical Properties | Per meter width in accordance with CSA S136-12

Base Steel Nominal Thickness (in)	Gauge	Section Modulus		Moment of Inertia Midspan (in ⁴)	Factored Resistance Moment		Factored Web Crippling Resistance. (Bearing = 3")	
		Midspan (in ³)	Support (in ³)		Midspan (ft-lb)	Support (ft-lb)	Midspan (kip)	Support (kip)
0.0300	22	0.232	0.232	0.2191	500	539	2.316	1.215
0.0239	24	0.178	0.178	0.1677	350	407	0.663	0.666
0.0179	26	0.122	0.126	0.1151	217	235	0.398	0.336

Load Table | Maximum specified uniformly distributed load in psf (lbs/ft²)

Span (ft)		1-Span Base Steel Gauge			2-Span Base Steel Gauge			3-Span Base Steel Gauge		
		22 ga.	24 ga.	26 ga.	22 ga.	24 ga.	26 ga.	22 ga.	24 ga.	26 ga.
2'-0"	S	274	192	102	175	71	42	231	104	68
	D	646	494	339	1556	1191	817	1219	993	640
2'-6"	S	176	123	76	123	52	31	164	78	53
	D	331	253	174	796	610	418	624	478	328
3'-0"	S	122	85	53	91	41	24	123	62	42
	D	191	146	101	461	353	242	361	276	190
4'-0"	S	69	48	30	56	27	16	77	42	30
	D	81	62	42	194	149	102	152	117	80
4'-6"	S	54	38	23	46	23	13	63	36	26
	D	57	43	30	137	105	72	107	82	56
5'-0"	S	44	31	19	38	19	11	52	31	22
	D	41	32	22	100	76	52	78	60	41
6'-0"	S	30	21	13	28	15	9	38	24	18
	D	24	18	13	58	44	30	45	35	24
6'-5"	S	27	19	12	25	13	8	34	21	16
	D	20	15	10	47	36	25	37	28	19
7'-0"	S	22	16	10	21	12	7	29	19	13
	D	15	12	8	36	28	19	28	22	15
8'-0"	S	17	12	7	17	9	5	23	15	10
	D	10	8	5	24	19	13	19	15	10



MakLoc Buildings Inc. reserves the right to change the specifications contained herein without notice.

The values in these tables are for general information only and are not intended to serve as a form of advice. The information presented was calculated by a registered professional engineer with the intent to provide the most accurate values. Therefore, MakLoc believes that the values contained herein are accurate and reliable as of the date of publication. Any reliance on the information above without the consultation of MakLoc shall be at the user's own risk.

© MakLoc Buildings Inc. All rights reserved.

MC001509/01