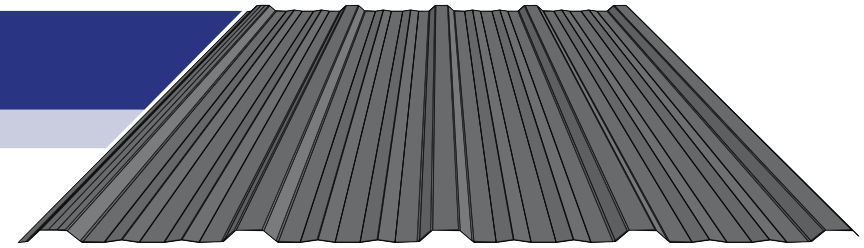
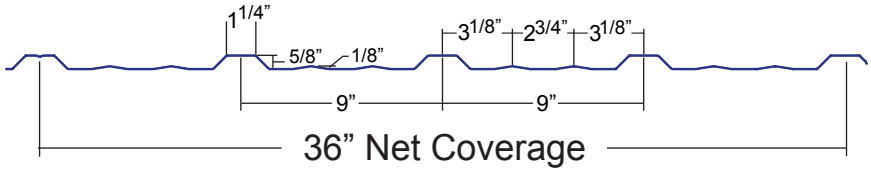
D-RIB
WALL PANEL





36" Net Coverage

SECTION PROPERTIES (PER FOOT OF WIDTH)										
	Base Steel Thickness (in.)	Weight G90 (psf)	Yield Stress (ksi)	Sec. Modulus Midspan (in^3)	Sec. Modulus Support (in^3)	Deflection Moment of Inertia (in^4)	P_{e1} End (lb)	P_{e2} End (lb)	P_{i1} Interior (lb)	P_{i2} Interior (lb)
IMPERIAL										
	0.0175	0.870	40	0.0198	0.0188	0.0112	39.3	9.83	70.6	12.0
	0.0126	0.617	80	0.0115	0.0105	0.0066	28.6	7.15	50.6	8.61

Live load factor = 1.4; Importance factor = 0.75; Importance Category = 1.0

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOADS (psf)													
SPAN LENGTH (in.)		1-SPAN BASE STEEL THICKNESS (in.)		2-SPAN BASE STEEL THICKNESS (in.)		3-SPAN BASE STEEL THICKNESS (in.)	
		40 Ksi 0.0175	80 Ksi 0.0126	40 Ksi 0.0175	80 Ksi 0.0126	40 Ksi 0.0175	80 Ksi 0.0126
12	S	340	294	322	267	402	333
	D	1302	773	3126	1855	2462	1461
16	S	191	165	181	150	226	187
	D	549	326	1319	783	1038	616
20	S	122	106	116	96	145	120
	D	281	167	675	401	532	316
24	S	85	73	80	67	101	83
	D	163	97	391	232	308	183
28	S	62	54	59	49	74	61
	D	103	61	246	146	194	115
32	S	48	41	45	37	57	47
	D	69	41	165	98	130	77
36	S	38	33	36	30	45	37
	D	48	29	116	69	91	54

Notes:

1. Based on ASTM A 653 structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculations. See Example.
5. Limit States Design principles were used in accordance with CSA Standard S136-12
6. The information in this load table was prepared by Dr. R.M. Schuster P.Eng. Professor Emeritus of Structural Engineering, University of Waterloo, Ontario, Canada

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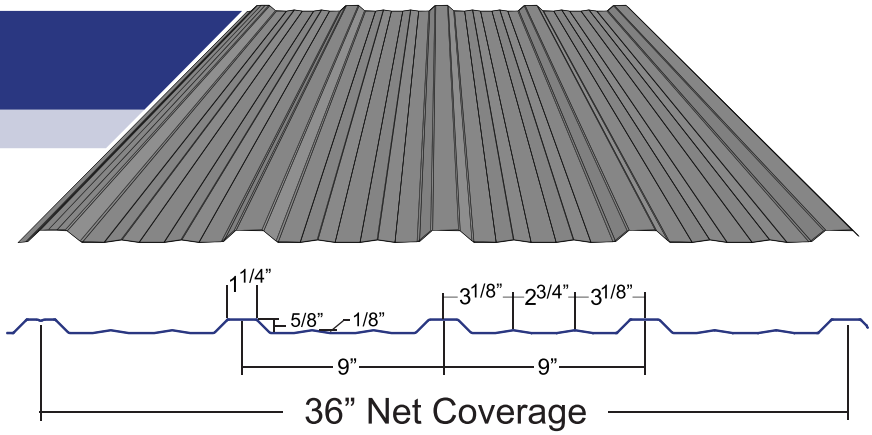
March 01, 2014

D-RIB
WALL PANEL



SECTION PROPERTIES (PER METRE OF WIDTH)										
	Base Steel Thickness (mm)	Mass Z275 (kg/m^2)	Yield Stress (MPa)	Sec. Modulus Midspan ($x10^3$ mm^3)	Sec. Modulus Support ($x10^3$ mm^3)	Deflection Moment of Inertia ($x10^6 mm^4$)	P_{e1} End (kN)	P_{e2} End (kN)	P_{i1} Interior (kN)	P_{i2} Interior (kN)
METRIC										
	0.445	4.25	275	1.07	1.01	0.0153	0.572	0.143	1.03	0.175
	0.320	3.01	550	0.620	0.562	0.0091	0.417	0.104	0.739	0.126

Live load factor = 1.4; Importance factor = 0.75; Importance Category = 1.0

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOADS (kPa)													
SPAN LENGTH (mm)		1-SPAN BASE STEEL THICKNESS (mm)				2-SPAN BASE STEEL THICKNESS (mm)				3-SPAN BASE STEEL THICKNESS (mm)			
		275 MPa		550 MPa		275 MPa		550 MPa		275 MPa		550 MPa	
		0.445		0.320		0.445		0.320		0.445		0.320	
300	S	16.7		14.5		15.9		13.2		19.8		16.5	
	D	65.4		38.8		157		93.2		124		73.4	
400	S	9.42		8.17		8.93		7.41		11.2		9.26	
	D	27.6		16.4		66.3		39.3		52.2		31.0	
500	S	6.03		5.23		5.71		4.74		7.14		5.93	
	D	14.1		8.38		33.9		20.1		26.7		15.9	
600	S	4.19		3.63		3.97		3.29		4.96		4.12	
	D	8.18		4.85		19.6		11.7		15.5		9.17	
700	S	3.08		2.67		2.92		2.42		3.64		3.02	
	D	5.15		3.06		12.4		7.33		9.74		5.78	
800	S	2.35		2.04		2.23		1.85		2.79		2.32	
	D	3.45		2.05		8.28		4.91		6.52		3.87	
900	S	1.86		1.61		1.76		1.46		2.20		1.83	
	D	2.42		1.44		5.82		3.45		4.58		2.72	

Notes:

1. Based on ASTM A 653 structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
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