

R-RIB

WALL PANEL



SECTION PROPERTIES (PER FOOT OF WIDTH)										
IMPERIAL	Base Steel Thickness (in.)	Weight G90 (psf)	Yield Stress (ksi)	Sec. Modulus		Deflection Moment of Inertia (in ⁴)	P _{e1} End (lb)	P _{e2} End (lb)	P _{i1} Interior (lb)	P _{i2} Interior (lb)
				Midspan	Support					
				(in ³)	(in ³)					
	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		2-SPAN		3-SPAN				
		BASE STEEL THICKNESS (in.)		BASE STEEL THICKNESS (in.)		BASE STEEL THICKNESS (in.)		40 Ksi	80 Ksi	
		40 Ksi	80 Ksi	40 Ksi	80 Ksi	40 Ksi	80 Ksi	0.0175	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:

- Based on ASTM A 653 structural steel.
- Values in row "S" are based on strength.
- Values in row "D" are based on deflection of 1/180th span.
- Web crippling not included in strength calculations. See Example.
- Limit States Design principles were used in accordance with CSA Standard S136-12
- 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



73000 Airport Line
R.R #2, Box 137
Hensall, Ontario
N0M 1X0

Fax: (519) 263-3108
Phone: (519)-263-3107
Toll Free: 1-888-763-7779
www.easybuildingproducts.ca

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WALL PANEL



SECTION PROPERTIES (PER METRE OF WIDTH)

METRIC	Base Steel Thickness (mm)	Mass Z275 (kg/m ²)	Yield Stress (MPa)	Sec. Modulus		Deflection Moment of Inertia (x10 ⁶ mm ⁴)	P _{e1} End (kN)	P _{e2} End (kN)	P _{i1} Interior (kN)	P _{i2} Interior (kN)
				Midspan	Support					
				(x10 ³ mm ³)	(x10 ³ mm ³)					
	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		2-SPAN		3-SPAN	
			BASE STEEL THICKNESS (mm)		BASE STEEL THICKNESS (mm)		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:

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- 4 Web crippling not included in strength calculations. See Example.
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