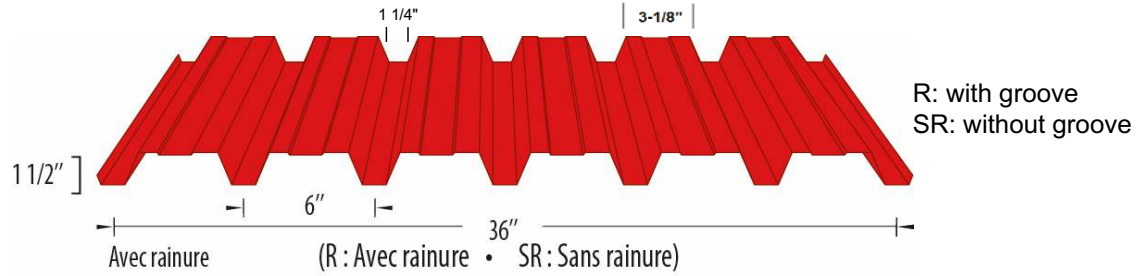


# METALUNIC INDUSTRIAL 36 - R/SR (WALL)



## SECTION PROPERTIES (Per Foot of Width)

IMPERIAL	Base Steel Thickness (in.)	Weight [G90] (psf)	Yield (ksi)	Stress (ksi)	Sec. Modulus		Deflection Moment of Inertia (in <sup>4</sup> )	Specified Web Crippling Data			
					Midspan	Support		P <sub>e1</sub> End (lb)	P <sub>e2</sub> End (lb)	P <sub>i1</sub> Interior (lb)	P <sub>i2</sub> Interior (lb)
					(in <sup>3</sup> )	(in <sup>3</sup> )					
	0.0210	1.20	33		0.111	0.116	0.101	80.5	20.1	156	26.5
	0.0260	1.47	33		0.141	0.152	0.133	128	32.1	248	42.1
	0.0330	1.85	33		0.184	0.195	0.179	215	53.7	414	70.3

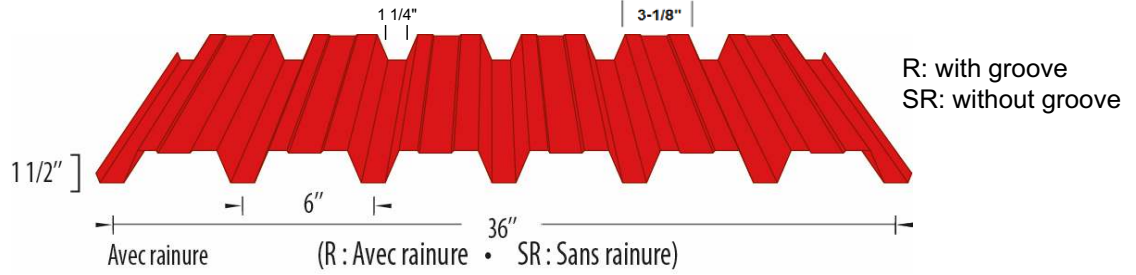
0,0210"=26G - 0,0260"=24G - 0,0330"=22G LLF = 1.40; IMPF = 0.75; NORMAL OCCUPANCY = 1.0

## MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOADS (psf)

SPAN LENGTH (ft)		1-SPAN			2-SPAN			3-SPAN					
		BASE STEEL THICKNESS (in.)			BASE STEEL THICKNESS (in.)			BASE STEEL THICKNESS (in.)					
		0.021	0.0260	0.0330	0.021	0.0260	0.0330	0.021	0.0260	0.0330			
	Yield stress (ksi)	33	33	33	33	33	33	33	33	33			
3.0	S	175	222	288	182	238	307	227	298	384			
	D	436	575	770	1047	1380	1849	824	1086	1456			
3.5	S	128	163	212	134	175	226	167	219	282			
	D	275	362	485	659	869	1164	519	684	917			
4.0	S	98	125	162	102	134	173	128	168	216			
	D	184	243	325	442	582	780	348	458	614			
4.5	S	78	99	128	81	106	137	101	132	171			
	D	129	170	228	310	409	548	244	322	431			
5.0	S	63	80	104	66	86	111	82	107	138			
	D	94	124	166	226	298	399	178	235	314			
5.5	S	52	66	86	54	71	91	68	89	114			
	D	71	93	125	170	224	300	134	176	236			
6.0	S	44	55	72	45	60	77	57	75	96			
	D	55	72	96	131	172	231	103	136	182			
6.5	S	37	47	61	39	51	65	48	63	82			
	D	43	57	76	103	136	182	81	107	143			
7.0	S	32	41	53	33	44	56	42	55	71			
	D	34	45	61	82	109	146	65	86	115			
7.5	S	28	35	46	29	38	49	36	48	61			
	D	28	37	49	67	88	118	53	70	93			
8.0	S	25	31	41	26	34	43	32	42	54			
	D	23	30	41	55	73	97	43	57	77			
8.5	S	22	28	36	23	30	38	28	37	48			
	D	19	25	34	46	61	81	36	48	64			
9.0	S	19	25	32	20	26	34	25	33	43			
	D	16	21	29	39	51	68	31	40	54			
9.5	S	17	22	29	18	24	31	23	30	38			
	D	14	18	24	33	43	58	26	34	46			
10.0	S	16	20	26	16	21	28	20	27	35			
	D	12	16	21	28	37	50	22	29	39			

- 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 calculation. See Example.
  - 5 Limit States Design principles were used in accordance with CSA Standard S136-12

# METALUNIC INDUSTRIAL 36 - R/SR (WALL)



## SECTION PROPERTIES (PER METRE OF WIDTH)

METRIC	Base Steel Thickness (mm)	Mass [Z275] (kg/m <sup>2</sup> )	Yield (MPa)	Stress (MPa)	Sec. Modulus		Deflection Moment of Inertia (x10 <sup>6</sup> mm <sup>4</sup> )	Specified Web Crippling Data			
					Midspan	Support		P <sub>e1</sub> End (kN)	P <sub>e2</sub> End (kN)	P <sub>i1</sub> Interior (kN)	P <sub>i2</sub> Interior (kN)
					(x10 <sup>3</sup> mm <sup>3</sup> )	(x10 <sup>3</sup> mm <sup>3</sup> )					
	0.533	5.89	230		5.97	6.22	0.138	1.19	0.297	2.30	0.391
	0.660	7.19	230		7.58	8.15	0.182	1.89	0.473	3.66	0.622
	0.838	9.05	230		9.87	10.5	0.244	3.17	0.792	6.10	1.04

0,533mm=26G - 0,660mm=24G - 0,838mm=22G LLF = 1.40; IMPF = 0.75; NORMAL OCCUPANCY = 1.0

## MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOADS (kPa)

SPAN LENGTH (m)		1-SPAN				2-SPAN				3-SPAN			
		BASE STEEL THICKNESS (mm)				BASE STEEL THICKNESS (mm)				BASE STEEL THICKNESS (mm)			
		0.533	0.660	0.838		0.533	0.660	0.838		0.533	0.660	0.838	
	Yield stress (MPa)	230	230	230		230	230	230		230	230	230	
1.0	S	7.06	8.97	11.7		7.35	9.64	12.4		9.19	12.1	15.5	
	D	15.9	21.0	28.2		38.3	50.4	67.6		30.1	39.7	53.2	
1.2	S	4.91	6.23	8.10		5.11	6.69	8.63		6.38	8.37	10.8	
	D	9.22	12.2	16.3		22.1	29.2	39.1		17.4	23.0	30.8	
1.4	S	3.60	4.57	5.95		3.75	4.92	6.34		4.69	6.15	7.93	
	D	5.81	7.66	10.3		13.9	18.4	24.6		11.0	14.5	19.4	
1.6	S	2.76	3.50	4.56		2.87	3.76	4.86		3.59	4.71	6.07	
	D	3.89	5.13	6.88		9.34	12.3	16.5		7.36	9.70	13.0	
1.8	S	2.18	2.77	3.60		2.27	2.97	3.84		2.84	3.72	4.80	
	D	2.73	3.60	4.83		6.56	8.65	11.6		5.17	6.81	9.13	
2.0	S	1.77	2.24	2.92		1.84	2.41	3.11		2.30	3.01	3.88	
	D	1.99	2.63	3.52		4.78	6.30	8.45		3.77	4.96	6.65	
2.2	S	1.46	1.85	2.41		1.52	1.99	2.57		1.90	2.49	3.21	
	D	1.50	1.97	2.65		3.59	4.74	6.35		2.83	3.73	5.00	
2.4	S	1.23	1.56	2.03		1.28	1.67	2.16		1.60	2.09	2.70	
	D	1.15	1.52	2.04		2.77	3.65	4.89		2.18	2.87	3.85	
2.6	S	1.04	1.33	1.73		1.09	1.43	1.84		1.36	1.78	2.30	
	D	0.91	1.20	1.60		2.18	2.87	3.85		1.71	2.26	3.03	
2.8	S	0.90	1.14	1.49		0.94	1.23	1.59		1.17	1.54	1.98	
	D	0.73	0.96	1.28		1.74	2.30	3.08		1.37	1.81	2.43	
3.0	S	0.78	1.00	1.30		0.82	1.07	1.38		1.02	1.34	1.73	
	D	0.59	0.78	1.04		1.42	1.87	2.50		1.12	1.47	1.97	
3.2	S		0.88	1.14		0.72	0.94	1.21		0.90	1.18	1.52	
	D		0.64	0.86		1.17	1.54	2.06		0.92	1.21	1.62	
3.4	S		0.78	1.01		0.64	0.83	1.08		0.80	1.04	1.34	
	D		0.53	0.72		0.97	1.28	1.72		0.77	1.01	1.35	

- 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 calculation. See Example.
  - 5 Limit States Design principles were used in accordance with CSA Standard S136-12