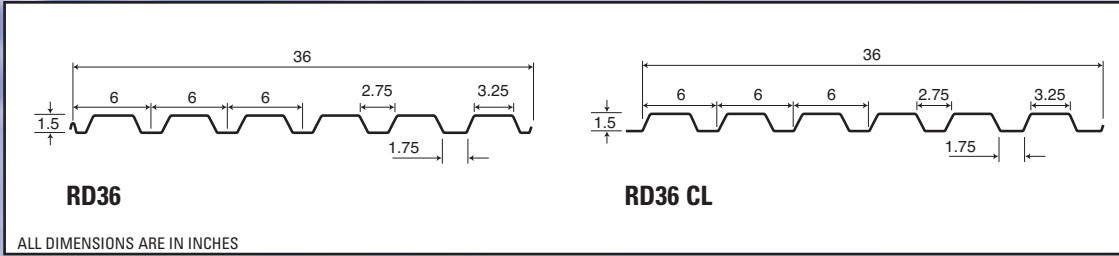


Roof Deck

RD36 / RD36 CL



Section Properties

(Per Foot of Width)

Base Steel Thickness (in.)	Weight G90 (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia Mid Span (in <sup>4</sup> )	Specified Web Crippling Data (lb)			
			Mid Span (in <sup>3</sup> )	Support (in <sup>3</sup> )		End Pe1	End Pe2	Interior Pi1	Interior Pi2
0.030	1.69	33	0.184	0.194	0.163	178.7	44.7	312.5	53.1
0.036	2.02	33	0.226	0.233	0.204	264.6	66.2	467.0	79.4
0.048	2.68	33	0.307	0.315	0.280	488.8	122.2	872.7	148.4
0.060	3.33	33	0.387	0.389	0.349	783.6	195.9	1409.2	239.6

Load Table

Live Load Factor = 1.5; Importance Factor (I<sub>s-sls</sub>) = 0.90; Importance Factor (I<sub>s-uls</sub>) = 1.0

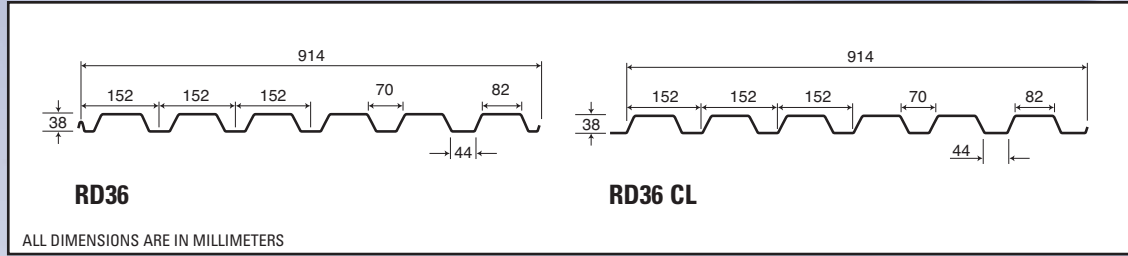
Maximum Specified Uniformly Distributed Loads in psf

Span (ft.)		1-Span Base Steel Thickness (in.)				2-Span Base Steel Thickness (in.)				3-Span Base Steel Thickness (in.)			
		0.030	0.036	0.048	0.060	0.030	0.036	0.048	0.060	0.030	0.036	0.048	0.060
4'-0"	S	150	185	251	317	159	191	258	318	199	239	323	398
	D	182	228	313	390	439	550	755	941	344	431	591	737
4'-6"	S	119	146	198	249	125	150	203	251	157	188	254	314
	D	128	160	220	274	309	386	530	661	242	303	415	518
5'-0"	S	96	118	160	202	101	121	164	201	127	152	206	254
	D	93	117	160	200	225	281	386	482	176	221	303	377
5'-6"	S	79	97	132	166	83	100	135	167	104	125	170	209
	D	70	88	121	150	169	211	290	362	132	166	228	284
6'-0"	S	66	81	110	139	70	84	113	140	88	105	142	176
	D	54	68	93	116	130	163	224	279	102	128	175	218
6'-6"	S	56	69	94	118	59	71	96	119	74	89	121	149
	D	43	53	73	91	102	128	176	219	80	100	138	172
7'-0"	S	48	59	80	101	51	61	81	102	64	77	104	128
	D	34	43	58	73	82	103	141	176	64	80	110	138
7'-6"	S	42	51	70	88	44	53	72	89	55	67	90	111
	D	28	35	48	59	67	83	114	143	52	65	90	112
8'-0"	S	37	45	61	77	39	46	63	77	49	58	79	98
	D	23	29	39	49	55	69	94	118	43	54	74	92
8'-6"	S	32	40	54	68	34	41	55	68	43	52	70	86
	D	19	24	33	41	46	57	79	98	36	45	62	77
9'-0"	S	29	35	48	60	30	36	49	61	38	46	62	76
	D	16	20	28	34	39	48	66	83	30	38	52	65

Notes:

- Steel conforms to ASTM A653.
- Section properties are in accordance with CSA-S136-07.
- Values in row "S" are based on strength.
- Values in row "D" are based on a deflection limit of 1/240 of the span.
- Web crippling not included in strength values. See example calculation in notes to designer.
- Contact the sales department for stocked colours and gauges.
- The load table contained on this data sheet was prepared by Dr. R.M. Schuster P.Eng. Professor Emeritus of Structural Engineering, University of Waterloo, Ontario, Canada.
- Bundled deck produced from either Galvalume or G90 Galvanized coated steel is susceptible to storage stain when exposed to the elements. This staining is superficial only and is not a valid reason for rejection of this product.





Section Properties

(Per Metre of Width)

Base Steel Thickness (mm)	Mass Z275 (kg/m <sup>2</sup> )	Yield Stress (MPa)	Section Modulus (x 10 <sup>3</sup> mm <sup>3</sup> )		Deflection Moment of Inertia Mid Span (x 10 <sup>6</sup> mm <sup>4</sup> )	Specified Web Crippling Data (kN)			
			Mid Span	Support		End	End	Interior	Interior
						Pe1	Pe2	Pi1	Pi2
0.762	8.27	230	9.89	10.4	0.223	2.64	0.66	4.61	0.78
0.914	9.86	230	12.1	12.5	0.278	3.90	0.98	6.88	1.17
1.22	13.1	230	16.5	16.9	0.382	7.22	1.81	12.89	2.19
1.52	16.3	230	20.8	20.9	0.476	11.50	2.87	20.67	3.51

Load Table

Live Load Factor = 1.5; Importance Factor (I<sub>S-SLS</sub>) = 0.90; Importance Factor (I<sub>S-ULS</sub>) = 1.0

Maximum Specified Uniformly Distributed Loads in kPa

Span (mm)		1-Span Base Steel Thickness (mm)				2-Span Base Steel Thickness (mm)				3-Span Base Steel Thickness (mm)			
		0.762	0.914	1.22	1.52	0.762	0.914	1.22	1.52	0.762	0.914	1.22	1.52
1200	S	7.51	9.20	12.54	15.81	7.91	9.50	12.85	15.89	9.90	11.90	16.09	19.90
	D	9.33	11.63	15.99	19.92	22.48	28.03	38.51	47.99	17.62	21.97	30.18	37.61
1400	S	5.50	6.73	9.19	11.58	5.79	6.96	9.41	11.64	7.25	8.72	11.79	14.58
	D	5.88	7.33	10.07	12.55	14.16	17.65	24.25	30.22	11.10	13.83	19.01	23.69
1500	S	4.79	5.86	7.99	10.07	5.04	6.05	8.19	10.12	6.31	7.59	10.26	12.69
	D	4.78	5.95	8.19	10.20	11.51	14.35	19.72	24.57	9.02	11.25	15.45	19.26
1600	S	4.20	5.34	7.01	8.84	4.42	5.31	7.18	8.83	5.54	6.66	9.00	11.13
	D	3.94	4.91	6.74	8.40	9.48	11.82	16.25	20.24	7.43	9.27	12.73	15.87
1800	S	3.30	4.04	5.52	6.95	3.48	4.18	5.65	6.99	4.36	5.24	7.09	8.77
	D	2.77	3.45	4.74	5.90	6.66	8.30	11.41	14.22	5.22	6.51	8.94	11.14
2000	S	2.66	3.26	4.45	5.61	2.80	3.37	4.56	5.64	3.52	4.23	5.72	7.08
	D	2.02	2.51	3.45	4.30	4.86	6.05	8.32	10.37	3.81	4.74	6.52	8.12
2200	S	2.19	2.68	3.66	4.61	2.30	2.77	3.75	4.63	2.90	3.48	4.71	5.83
	D	1.51	1.89	2.59	3.21	3.65	4.55	6.25	7.79	2.86	3.56	4.90	6.10
2400	S	1.83	2.24	3.06	3.85	1.93	2.32	3.13	3.87	2.42	2.91	3.94	4.87
	D	1.17	1.45	2.00	2.49	2.81	3.50	4.81	6.00	2.20	2.75	3.77	4.70
2500	S	1.68	2.06	2.81	3.54	1.77	2.13	2.88	3.56	2.23	2.68	3.62	4.48
	D	1.03	1.29	1.77	2.20	2.49	3.10	4.26	5.31	1.95	2.43	3.34	4.16
2600	S	1.55	1.90	2.59	3.26	1.63	1.96	2.65	3.28	2.06	2.47	3.34	4.13
	D	0.92	1.14	1.57	1.96	2.21	2.75	3.79	4.72	1.73	2.16	2.97	3.70
2800	S	1.33	1.62	2.22	2.80	1.40	1.68	2.27	2.81	1.76	2.12	2.87	3.55
	D	0.73	0.92	1.26	1.57	1.77	2.21	3.03	3.78	1.39	1.73	2.38	2.96

Notes:

- Steel conforms to ASTM A653M.
- Section properties are in accordance with CSA-S136-07.
- Values in row "S" are based on strength.
- Values in row "D" are based on a deflection limit of 1/240 of the span.
- Web crippling not included in strength values. See example calculation in notes to designer.
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