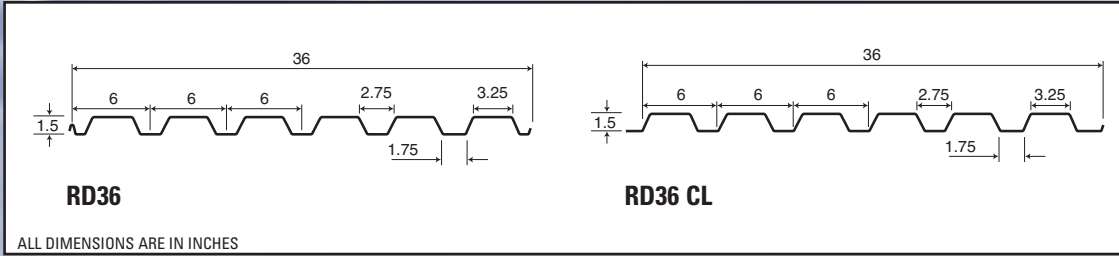


Roof Deck

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 ⁴)	Specified Web Crippling Data (lb)			
			Mid Span (in ³)	Support (in ³)		End Pe1	End Pe2	Interior Pi1	Interior Pi2
0.030	1.69	33	0.184	0.183	0.163	182	45.4	344	58.5
0.036	2.02	33	0.226	0.233	0.204	269	67.1	508	86.4
0.048	2.68	33	0.307	0.315	0.280	495	124	935	159
0.060	3.33	33	0.387	0.389	0.349	791	198	1495	254

Load Table

Live Load Factor = 1.5; Importance Factor (I_{s-sls}) = 0.90; Importance Factor (I_{s-uls}) = 1.0

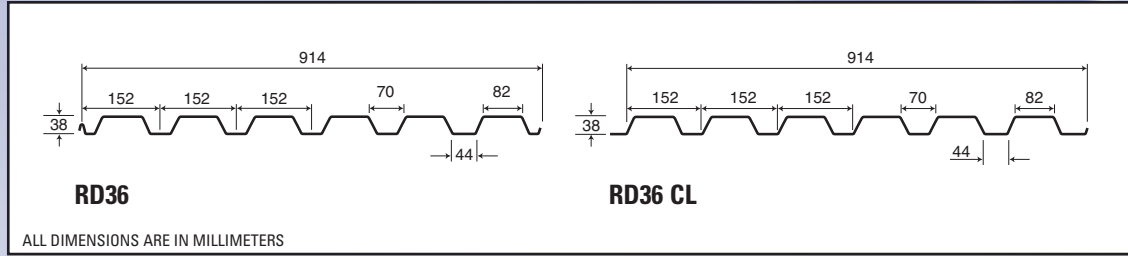
Maximum Specified Uniformly Distributed Loads in psf

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	152	186	253	319	151	192	259	321	189	240	324	401
	D	186	232	318	396	445	557	764	951	351	438	601	749
4'-6"	S	120	147	200	252	119	152	205	253	149	190	256	317
	D	130	163	223	278	313	391	536	668	246	308	422	526
5'-0"	S	97	119	162	204	97	123	166	205	121	154	208	257
	D	95	119	163	203	228	285	391	487	180	224	308	383
5'-6"	S	80	98	134	169	80	102	137	170	100	127	172	212
	D	71	89	122	152	171	214	294	366	135	169	231	288
6'-0"	S	68	83	113	142	67	85	115	143	84	107	144	178
	D	55	69	94	117	132	165	226	282	104	130	178	222
6'-6"	S	58	70	96	121	57	73	98	121	71	91	123	152
	D	43	54	74	92	104	130	178	222	82	102	140	175
7'-0"	S	50	61	83	104	49	63	85	105	62	78	106	131
	D	35	43	59	74	83	104	142	177	65	82	112	140
7'-6"	S	43	53	72	91	43	55	74	91	54	68	92	114
	D	28	35	48	60	68	84	116	144	53	66	91	114
8'-0"	S	38	47	63	80	38	48	65	80	47	60	81	100
	D	23	29	40	50	56	70	95	119	44	55	75	94
8'-6"	S	34	41	56	71	33	43	57	71	42	53	72	89
	D	19	24	33	41	46	58	80	99	37	46	63	78
9'-0"	S	30	37	50	63	30	38	51	63	37	47	64	79
	D	16	20	28	35	39	49	67	83	31	38	53	66

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 ²)	Yield Stress (MPa)	Section Modulus (x 10 ³ mm ³)		Deflection Moment of Inertia Mid Span (x 10 ⁶ mm ⁴)	Specified Web Crippling Data (kN)			
			Mid Span	Support		End	End	Interior	Interior
						Pe1	Pe2	Pi1	Pi2
0.762	8.27	230	9.89	9.82	0.223	2.68	0.670	5.08	0.863
0.914	9.86	230	12.1	12.5	0.278	3.96	0.989	7.49	1.27
1.22	13.1	230	16.5	16.9	0.382	7.29	1.82	13.8	2.34
1.52	16.3	230	20.8	20.9	0.476	11.7	2.92	22.0	3.75

Load Table

Live Load Factor = 1.5; Importance Factor (I_{s-SLS}) = 0.90; Importance Factor (I_{s-ULS}) = 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	7.58	9.29	12.6	15.9	7.53	9.57	13.0	16.0	9.41	12.0	16.2	20.0
	D	9.30	11.6	16.0	19.9	22.3	27.9	38.3	47.8	17.6	22.0	30.2	37.6
1400	S	5.57	6.82	9.29	11.7	5.53	7.03	9.52	11.8	6.91	8.79	11.9	14.7
	D	5.86	7.32	10.1	12.5	14.1	17.6	24.1	30.1	11.1	13.8	19.0	23.7
1500	S	4.85	5.94	8.09	10.2	4.82	6.13	8.30	10.3	6.02	7.66	10.4	12.8
	D	4.76	5.95	8.18	10.2	11.4	14.3	19.6	24.5	9.00	11.3	15.5	19.3
1600	S	4.26	5.22	7.11	8.97	4.24	5.38	7.29	9.01	5.29	6.73	9.11	11.3
	D	3.93	4.91	6.74	8.39	9.42	11.8	16.2	20.2	7.42	9.27	12.7	15.9
1800	S	3.37	4.13	5.62	7.08	3.35	4.25	5.76	7.12	4.18	5.32	7.20	8.90
	D	2.76	3.45	4.73	5.90	6.62	8.27	11.4	14.2	5.21	6.51	8.95	11.1
2000	S	2.73	3.34	4.55	5.74	2.71	3.45	4.67	5.77	3.39	4.31	5.83	7.21
	D	2.01	2.51	3.45	4.30	4.82	6.03	8.28	10.31	3.80	4.75	6.52	8.12
2200	S	2.26	2.76	3.76	4.74	2.24	2.85	3.86	4.77	2.80	3.56	4.82	5.96
	D	1.51	1.89	2.59	3.23	3.62	4.53	6.22	7.75	2.85	3.57	4.90	6.10
2400	S	1.90	2.32	3.16	3.98	1.88	2.39	3.24	4.01	2.35	2.99	4.05	5.01
	D	1.16	1.45	2.00	2.49	2.79	3.49	4.79	5.97	2.20	2.75	3.77	4.70
2500	S	1.75	2.14	2.91	3.67	1.73	2.21	2.99	3.69	2.17	2.76	3.73	4.61
	D	1.03	1.29	1.77	2.20	2.47	3.09	4.24	5.28	1.94	2.43	3.34	4.16
2600	S	1.61	1.98	2.69	3.40	1.60	2.04	2.76	3.41	2.00	2.55	3.45	4.27
	D	0.91	1.14	1.57	1.96	2.20	2.74	3.77	4.69	1.73	2.16	2.97	3.70
2800	S	1.39	1.71	2.32	2.93	1.38	1.76	2.38	2.94	1.73	2.20	2.98	3.68
	D	0.73	0.92	1.26	1.57	1.76	2.20	3.02	3.76	1.38	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.
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- Web crippling not included in strength values. See example calculation in notes to designer.
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