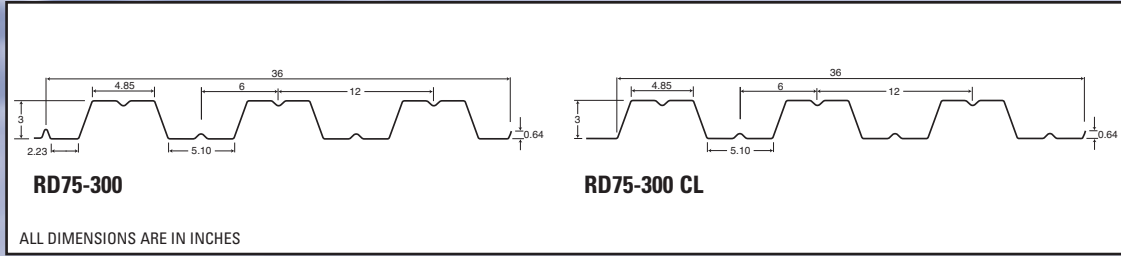


Roof Deck

RD75-300 / RD75-300 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	1.77	33	0.472	0.473	0.814	79.8	20.0	153	26.0
0.036	2.11	33	0.599	0.601	0.982	120	29.9	228	38.8
0.048	2.80	33	0.846	0.846	1.31	224	56.0	428	72.7
0.060	3.48	33	1.05	1.05	1.63	363	90.7	691	118

Load Table

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

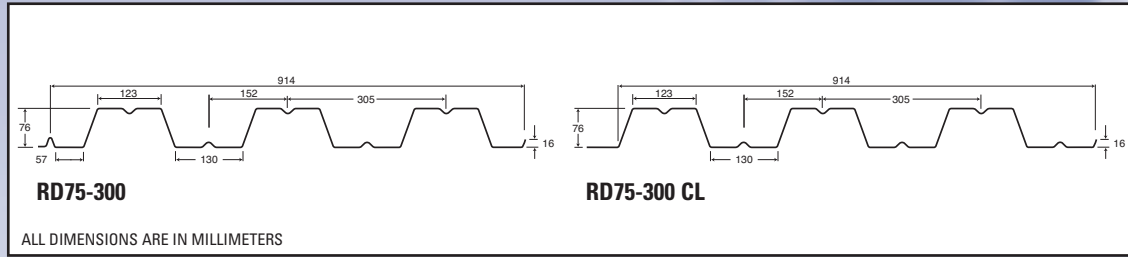
Maximum Specified Uniformly Distributed Loads in psf

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
6'-0"	S	173	219	310	386	173	220	308	383	217	276	385	478
	D	274	330	440	550	657	793	1056	1319	518	624	832	1039
6'-6"	S	148	187	264	329	148	188	262	326	185	235	328	408
	D	215	260	346	432	517	624	831	1038	407	491	654	817
7'-0"	S	127	161	228	284	127	162	226	281	159	202	283	351
	D	172	208	277	346	414	499	665	831	326	393	524	654
7'-6"	S	111	140	199	247	111	141	197	245	139	176	246	306
	D	140	169	225	281	337	406	541	676	265	320	426	532
8'-0"	S	97	123	174	217	98	124	173	215	122	155	216	269
	D	116	139	186	232	277	334	446	557	218	263	351	438
8'-6"	S	86	109	155	192	86	110	153	191	108	137	192	238
	D	96	116	155	193	231	279	372	464	182	220	293	365
9'-0"	S	77	98	138	172	77	98	137	170	96	122	171	213
	D	81	98	130	163	195	235	313	391	153	185	246	308
9'-6"	S	69	88	124	154	69	88	123	153	87	110	153	191
	D	69	83	111	138	166	200	266	332	130	157	210	262
10'-0"	S	62	79	112	139	62	79	111	138	78	99	138	172
	D	59	71	95	119	142	171	228	285	112	135	180	224
10'-6"	S	57	72	101	126	57	72	100	125	71	90	126	156
	D	51	62	82	103	123	148	197	246	97	116	155	194
11'-0"	S	52	65	92	115	52	66	92	114	65	82	114	142
	D	44	54	71	89	107	129	171	214	84	101	135	169
11'-6"	S	47	60	84	105	47	60	84	104	59	75	105	130
	D	39	47	63	78	93	113	150	187	74	89	118	148
12'-0"	S	43	55	78	96	43	55	77	96	54	69	96	120
	D	34	41	55	69	82	99	132	165	65	78	104	130
12'-6"	S	40	51	71	89	40	51	71	88	50	63	89	110
	D	30	37	49	61	73	88	117	146	57	69	92	115
13'-0"	S	37	47	66	82	37	47	66	82	46	59	82	102
	D	27	32	43	54	65	78	104	130	51	61	82	102
13'-6"	S	34	43	61	76	34	44	61	76	43	54	76	94
	D	24	29	39	48	58	70	93	116	45	55	73	91
14'-0"	S	32	40	57	71	32	40	57	70	40	51	71	88
	D	22	26	35	43	52	62	83	104	41	49	65	82

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		Deflection Moment of Inertia Mid Span (x 10 ⁶ mm ⁴)	Specified Web Crippling Data (kN)			
			Mid Span (x 10 ³ mm ³)	Support (x 10 ³ mm ³)		End Pe1	End Pe2	Interior Pi1	Interior Pi2
0.762	8.6	230	25.4	25.4	1.09	1.18	0.294	2.25	0.383
0.914	10.3	230	32.1	32.3	1.34	1.76	0.441	3.37	0.573
1.22	13.7	230	45.5	45.5	1.79	3.31	0.826	6.31	1.07
1.52	17.0	230	56.6	56.6	2.23	5.35	1.34	10.2	1.73

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
2000	S	7.00	8.87	12.6	15.6	7.01	8.91	12.6	15.6	8.76	11.1	15.7	19.5
	D	9.82	12.1	16.1	20.1	23.6	29.0	38.7	48.3	18.6	22.9	30.5	38.0
2200	S	5.78	7.33	10.4	12.9	5.79	7.36	10.4	12.9	7.24	9.20	13.0	16.1
	D	7.38	9.09	12.1	15.1	17.7	21.8	29.1	36.3	13.9	17.2	22.9	28.6
2400	S	4.86	6.16	8.72	10.9	4.87	6.19	8.71	10.8	6.08	7.73	10.9	13.6
	D	5.68	7.00	9.32	11.7	13.6	16.8	22.4	28.0	10.7	13.2	17.6	22.0
2500	S	4.48	5.67	8.03	10.0	4.49	5.70	8.03	9.99	5.61	7.13	10.0	12.5
	D	5.03	6.19	8.25	10.3	12.1	14.9	19.8	24.7	9.50	11.7	15.6	19.5
2600	S	4.14	5.25	7.43	9.24	4.15	5.27	7.42	9.24	5.18	6.59	9.28	11.6
	D	4.47	5.50	7.33	9.16	10.7	13.2	17.6	22.0	8.45	10.4	13.9	17.3
2800	S	3.57	4.52	6.40	7.97	3.58	4.54	6.40	7.96	4.47	5.68	8.00	9.96
	D	3.58	4.41	5.87	7.33	8.59	10.6	14.1	17.6	6.76	8.33	11.1	13.9
3000	S	3.11	3.94	5.58	6.94	3.11	3.96	5.58	6.94	3.89	4.95	6.97	8.67
	D	2.91	3.58	4.77	5.96	6.98	8.60	11.5	14.3	5.50	6.77	9.02	11.3
3200	S	2.73	3.46	4.90	6.10	2.74	3.48	4.90	6.10	3.42	4.35	6.13	7.62
	D	2.40	2.95	3.93	4.91	5.75	7.09	9.44	11.8	4.53	5.58	7.43	9.29
3400	S	2.42	3.07	4.34	5.40	2.43	3.08	4.34	5.40	3.03	3.85	5.43	6.75
	D	2.00	2.46	3.28	4.10	4.80	5.91	7.87	9.83	3.78	4.65	6.20	7.74
3500	S	2.28	2.90	4.10	5.10	2.29	2.91	4.10	5.10	2.86	3.64	5.12	6.37
	D	1.83	2.26	3.01	3.76	4.40	5.42	7.22	9.01	3.46	4.26	5.68	7.10
3600	S	2.16	2.74	3.87	4.82	2.16	2.75	3.87	4.82	2.70	3.44	4.84	6.02
	D	1.68	2.07	2.76	3.45	4.04	4.98	6.63	8.28	3.18	3.92	5.22	6.52
3800	S	1.94	2.46	3.48	4.33	1.94	2.47	3.48	4.32	2.43	3.08	4.34	5.41
	D	1.43	1.76	2.35	2.93	3.44	4.23	5.64	7.04	2.71	3.33	4.44	5.55
4000	S	1.75	2.22	3.14	3.90	1.75	2.23	3.14	3.90	2.19	2.78	3.92	4.88
	D	1.23	1.51	2.01	2.52	2.95	3.63	4.83	6.04	2.32	2.86	3.81	4.75

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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