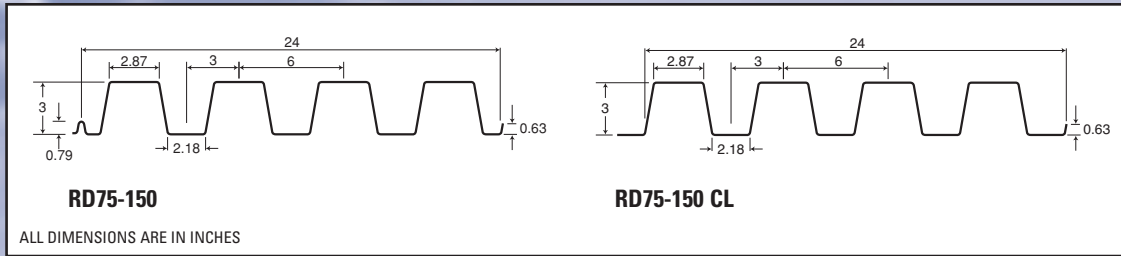


Roof Deck

RD75-150 / RD75-150 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	2.34	33	0.485	0.492	0.866	174	43.4	356	60.6
0.036	2.80	33	0.621	0.624	1.07	259	64.7	527	89.5
0.048	3.71	33	0.882	0.898	1.46	483	121	970	165
0.060	4.63	33	1.12	1.12	1.82	780	195	1553	264

Load Table

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

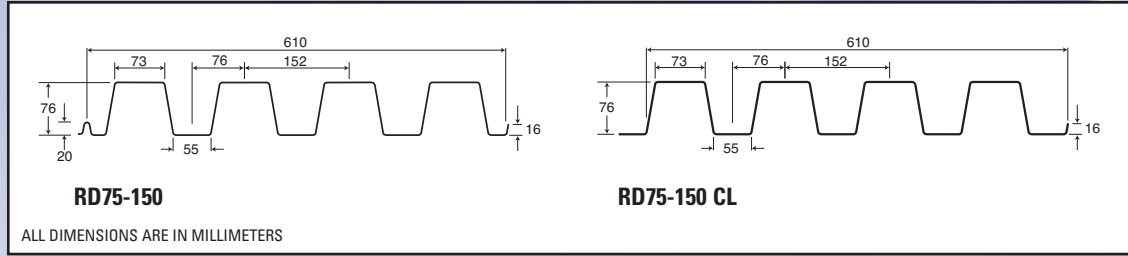
Maximum Specified Uniformly Distributed Loads in psf

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	178	228	323	410	180	229	329	411	226	286	412	514
	D	291	361	492	613	699	867	1182	1471	551	683	931	1159
6'-6"	S	152	194	275	349	154	195	281	350	192	243	351	438
	D	229	284	387	482	550	682	930	1157	433	537	732	911
7'-0"	S	131	167	238	301	133	168	242	302	166	210	302	377
	D	183	227	310	386	440	546	744	927	347	430	586	730
7'-6"	S	114	146	207	262	115	146	211	263	144	183	263	329
	D	149	185	252	314	358	444	605	753	282	350	477	593
8'-0"	S	100	128	182	230	102	129	185	231	127	161	232	289
	D	123	152	208	259	295	366	499	621	232	288	393	489
8'-6"	S	89	113	161	204	90	114	164	205	112	142	205	256
	D	102	127	173	216	246	305	416	518	194	240	327	408
9'-0"	S	79	101	144	182	80	102	146	183	100	127	183	228
	D	86	107	146	182	207	257	350	436	163	202	276	343
9'-6"	S	71	91	129	163	72	91	131	164	90	114	164	205
	D	73	91	124	154	176	218	298	371	139	172	234	292
10'-0"	S	64	82	116	147	65	82	119	148	81	103	148	185
	D	63	78	106	132	151	187	255	318	119	147	201	250
10'-6"	S	58	74	106	134	59	75	108	134	74	93	134	168
	D	54	67	92	114	130	162	221	275	103	127	174	216
11'-0"	S	53	68	96	122	54	68	98	122	67	85	122	153
	D	47	59	80	99	113	141	192	239	89	111	151	188
11'-6"	S	48	62	88	111	49	62	90	112	61	78	112	140
	D	41	51	70	87	99	123	168	209	78	97	132	165
12'-0"	S	44	57	81	102	45	57	82	103	56	71	103	128
	D	36	45	62	77	87	108	148	184	69	85	116	145
12'-6"	S	41	52	74	94	42	53	76	95	52	66	95	118
	D	32	40	54	68	77	96	131	163	61	76	103	128
13'-0"	S	38	48	69	87	38	49	70	88	48	61	88	109
	D	29	36	48	60	69	85	116	145	54	67	92	114
13'-6"	S	35	45	64	81	36	45	65	81	45	56	81	101
	D	26	32	43	54	61	76	104	129	48	60	82	102
14'-0"	S	33	42	59	75	33	42	60	75	41	52	76	94
	D	23	28	39	48	55	68	93	116	43	54	73	91

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 Pe1	End Pe2	Interior Pi1	Interior Pi2
0.762	11.4	230	26.0	26.4	1.18	2.56	0.640	5.26	0.893
0.914	13.7	230	33.3	33.4	1.46	3.82	0.954	7.76	1.32
1.22	18.1	230	47.4	48.2	2.00	7.13	1.78	14.3	2.43
1.52	22.6	230	60.0	60.3	2.49	11.5	2.88	22.9	3.90

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	7.19	9.19	13.1	16.6	7.29	9.23	13.3	16.6	9.11	11.5	16.6	20.8
	D	10.7	13.2	18.0	22.4	25.6	31.7	43.3	53.9	20.1	25.0	34.1	42.4
2200	S	5.94	7.59	10.8	13.7	6.03	7.63	11.0	13.7	7.53	9.54	13.8	17.2
	D	8.00	9.92	13.5	16.9	19.2	23.8	32.5	40.5	15.1	18.8	25.6	31.9
2400	S	4.99	6.38	9.08	11.5	5.06	6.41	9.24	11.6	6.33	8.01	11.6	14.4
	D	6.16	7.64	10.4	13.0	14.8	18.3	25.0	31.2	11.7	14.4	19.7	24.6
2500	S	4.60	5.88	8.37	10.6	4.67	5.91	8.52	10.6	5.83	7.38	10.6	13.3
	D	5.45	6.76	9.23	11.5	13.1	16.2	22.2	27.6	10.3	12.8	17.4	21.7
2600	S	4.25	5.44	7.74	9.80	4.31	5.46	7.87	9.84	5.39	6.83	9.84	12.3
	D	4.85	6.01	8.20	10.2	11.6	14.4	19.7	24.5	9.16	11.4	15.5	19.3
2800	S	3.67	4.69	6.67	8.45	3.72	4.71	6.79	8.49	4.65	5.89	8.49	10.6
	D	3.88	4.81	6.57	8.18	9.32	11.6	15.8	19.6	7.34	9.10	12.4	15.5
3000	S	3.19	4.08	5.81	7.36	3.24	4.10	5.91	7.39	4.05	5.13	7.39	9.24
	D	3.16	3.91	5.34	6.65	7.57	9.39	12.8	16.0	5.96	7.40	10.1	12.6
3200	S	2.81	3.59	5.11	6.47	2.85	3.61	5.20	6.50	3.56	4.51	6.50	8.12
	D	2.60	3.22	4.40	5.48	6.24	7.74	10.6	13.2	4.91	6.09	8.32	10.4
3400	S	2.49	3.18	4.52	5.73	2.52	3.19	4.60	5.75	3.15	3.99	5.76	7.19
	D	2.17	2.69	3.67	4.57	5.20	6.45	8.80	11.0	4.10	5.08	6.93	8.63
3500	S	2.35	3.00	4.27	5.41	2.38	3.01	4.34	5.43	2.98	3.77	5.43	6.79
	D	1.99	2.46	3.36	4.19	4.77	5.91	8.07	10.1	3.76	4.66	6.36	7.91
3600	S	2.22	2.84	4.04	5.11	2.25	2.85	4.11	5.13	2.81	3.56	5.13	6.42
	D	1.83	2.26	3.09	3.85	4.38	5.43	7.42	9.24	3.45	4.28	5.84	7.27
3800	S	1.99	2.55	3.62	4.59	2.02	2.56	3.69	4.61	2.52	3.20	4.61	5.76
	D	1.55	1.93	2.63	3.27	3.73	4.62	6.31	7.85	2.94	3.64	4.97	6.18
4000	S	1.80	2.30	3.27	4.14	1.82	2.31	3.33	4.16	2.28	2.88	4.16	5.20
	D	1.33	1.65	2.25	2.81	3.20	3.96	5.41	6.73	2.52	3.12	4.26	5.30

Notes:

- Steel conforms to ASTM A653M.
- Section properties are in accordance with CSA-S136-07.
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- Web crippling not included in strength values. See example calculation in notes to designer.
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