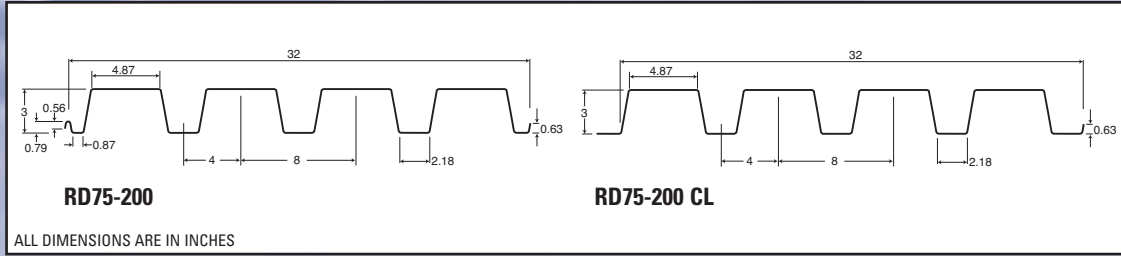


Roof Deck

RD75-200 / RD75-200 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	2.08	33	0.375	0.397	0.677	130	32.5	267	45.4
0.036	2.48	33	0.485	0.503	0.880	194	48.5	395	67.1
0.048	3.29	33	0.675	0.724	1.27	362	90.6	728	124
0.060	4.10	33	0.862	0.904	1.64	585	146	1165	198

Load Table

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

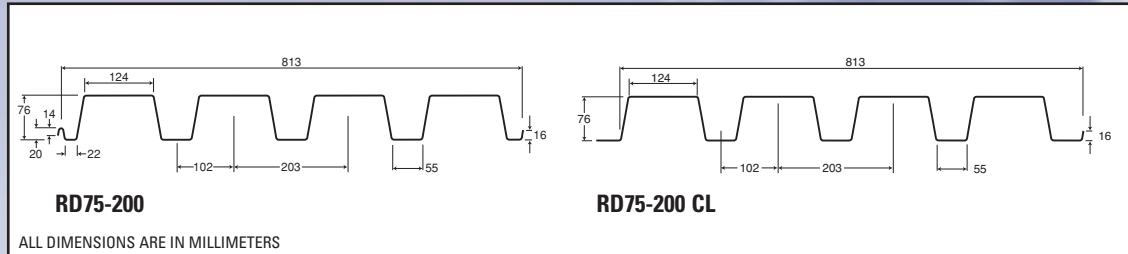
Maximum Specified Uniformly Distributed Loads in psf

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	138	178	247	316	146	184	265	331	182	230	332	414
	D	228	296	426	553	547	711	1022	1327	430	560	805	1045
6'-6"	S	117	152	211	269	124	157	226	282	155	196	283	353
	D	179	233	335	435	430	559	804	1043	339	440	633	822
7'-0"	S	101	131	182	232	107	135	195	243	134	169	244	304
	D	143	187	268	348	344	448	644	835	271	353	507	658
7'-6"	S	88	114	158	202	93	118	170	212	116	147	212	265
	D	117	152	218	283	280	364	523	679	220	287	412	535
8'-0"	S	77	100	139	178	82	104	149	186	102	130	187	233
	D	96	125	180	233	231	300	431	560	182	236	340	441
8'-6"	S	69	89	123	157	73	92	132	165	91	115	165	206
	D	80	104	150	194	192	250	360	467	151	197	283	367
9'-0"	S	61	79	110	140	65	82	118	147	81	102	147	184
	D	67	88	126	164	162	211	303	393	128	166	239	310
9'-6"	S	55	71	99	126	58	74	106	132	73	92	132	165
	D	57	75	107	139	138	179	258	334	108	141	203	263
10'-0"	S	50	64	89	114	52	66	96	119	66	83	119	149
	D	49	64	92	119	118	154	221	287	93	121	174	226
10'-6"	S	45	58	81	103	48	60	87	108	59	75	108	135
	D	43	55	79	103	102	133	191	248	80	104	150	195
11'-0"	S	41	53	74	94	43	55	79	99	54	69	99	123
	D	37	48	69	90	89	115	166	215	70	91	131	170
11'-6"	S	37	48	67	86	40	50	72	90	50	63	90	113
	D	32	42	60	79	78	101	145	188	61	80	114	148
12'-0"	S	34	44	62	79	36	46	66	83	45	58	83	104
	D	28	37	53	69	68	89	128	166	54	70	101	131
12'-6"	S	32	41	57	73	34	42	61	76	42	53	76	95
	D	25	33	47	61	60	79	113	147	48	62	89	116
13'-0"	S	29	38	53	67	31	39	57	71	39	49	71	88
	D	22	29	42	54	54	70	100	130	42	55	79	103
13'-6"	S	27	35	49	62	29	36	52	65	36	46	66	82
	D	20	26	37	49	48	62	90	116	38	49	71	92
14'-0"	S	25	33	45	58	27	34	49	61	33	42	61	76
	D	18	23	34	44	43	56	80	104	34	44	63	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 (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	10.1	230	20.1	21.3	0.922	1.92	0.480	3.94	0.670
0.914	12.1	230	26.0	27.0	1.20	2.86	0.715	5.82	0.990
1.22	16.1	230	36.2	38.8	1.73	5.34	1.34	10.7	1.83
1.52	20.0	230	46.3	48.6	2.24	8.63	2.16	17.2	2.92

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	5.56	7.18	10.0	12.8	5.88	7.44	10.7	13.4	7.35	9.30	13.4	16.8
	D	8.32	10.8	15.6	20.2	20.0	26.0	37.4	48.5	15.7	20.5	29.4	38.2
2200	S	4.59	5.93	8.27	10.6	4.86	6.15	8.86	11.1	6.08	7.69	11.1	13.9
	D	6.25	8.13	11.7	15.2	15.0	19.5	28.1	36.5	11.8	15.4	22.1	28.7
2400	S	3.86	4.99	6.95	8.87	4.08	5.17	7.44	9.31	5.11	6.46	9.31	11.6
	D	4.82	6.26	9.01	11.7	11.6	15.0	21.6	28.1	9.10	11.8	17.0	22.1
2500	S	3.56	4.60	6.40	8.18	3.76	4.76	6.86	8.58	4.70	5.95	8.58	10.7
	D	4.26	5.54	7.97	10.4	10.2	13.3	19.1	24.9	8.05	10.5	15.1	19.6
2600	S	3.29	4.25	5.92	7.56	3.48	4.40	6.34	7.93	4.35	5.50	7.93	9.92
	D	3.79	4.93	7.09	9.20	9.09	11.8	17.0	22.1	7.16	9.31	13.4	17.4
2800	S	2.84	3.66	5.10	6.52	3.00	3.80	5.47	6.84	3.75	4.75	6.84	8.55
	D	3.03	3.94	5.67	7.37	7.28	9.46	13.6	17.7	5.73	7.45	10.7	13.9
3000	S	2.47	3.19	4.45	5.68	2.61	3.31	4.76	5.96	3.27	4.13	5.96	7.45
	D	2.47	3.21	4.61	5.99	5.92	7.69	11.1	14.4	4.66	6.06	8.72	11.3
3200	S	2.17	2.81	3.91	4.99	2.30	2.91	4.19	5.24	2.87	3.63	5.23	6.55
	D	2.03	2.64	3.80	4.94	4.88	6.34	9.12	11.9	3.84	4.99	7.18	9.33
3400	S	1.92	2.48	3.46	4.42	2.03	2.57	3.71	4.64	2.54	3.22	4.64	5.80
	D	1.69	2.20	3.17	4.12	4.07	5.29	7.60	9.88	3.20	4.16	5.99	7.78
3500	S	1.81	2.34	3.27	4.17	1.92	2.43	3.50	4.38	2.40	3.04	4.38	5.47
	D	1.55	2.02	2.90	3.77	3.73	4.85	6.97	9.06	2.93	3.82	5.49	7.13
3600	S	1.72	2.22	3.09	3.94	1.82	2.30	3.31	4.14	2.27	2.87	4.14	5.17
	D	1.43	1.86	2.67	3.47	3.42	4.45	6.41	8.32	2.70	3.51	5.05	6.55
3800	S	1.54	1.99	2.77	3.54	1.63	2.06	2.97	3.71	2.04	2.58	3.71	4.64
	D	1.21	1.58	2.27	2.95	2.91	3.79	5.45	7.08	2.29	2.98	4.29	5.57
4000	S	1.39	1.80	2.50	3.19	1.47	1.86	2.68	3.35	1.84	2.33	3.35	4.19
	D	1.04	1.35	1.95	2.53	2.50	3.25	4.67	6.07	1.97	2.56	3.68	4.78

Notes:

- Steel conforms to ASTM A653M.
- Section properties are in accordance with CSA-S136-07.
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