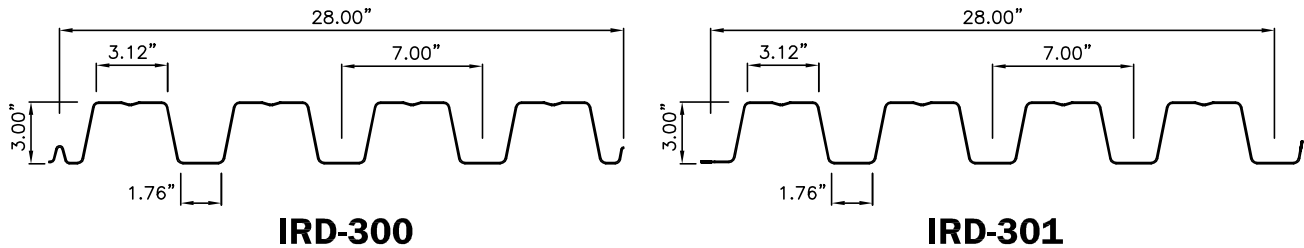


# IRD-300 and IRD-301 Roof Deck



SECTION PROPERTIES (Per foot of width)										
IMPERIAL	Base Steel Thickness (in.)	Coated Steel Thickness (G90) (in.)	Coated Weight (psf)	Sec. Modulus		Deflection Moment of Inertia (in. <sup>4</sup> )	Specified Web Crippling Data			
				Midspan	Support		P <sub>e1</sub> End (lb)	P <sub>e2</sub> End (lb)	P <sub>i1</sub> Interior (lb)	P <sub>i2</sub> Interior (lb)
				(in. <sup>3</sup> )	(in. <sup>3</sup> )					
	0.030	0.0315	2.16	0.436	0.447	0.773	144	36.1	273	46.5
	0.036	0.0375	2.58	0.559	0.564	0.967	216	54.0	409	69.5
	0.048	0.0495	3.42	0.769	0.799	1.35	404	101	766	130
	0.060	0.0615	4.26	0.981	0.996	1.70	654	163	1238	210

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOADS (PSF)														
SPAN LENGTH (ft)		1-SPAN				2-SPAN				3-SPAN				
		BASE STEEL THICKNESS (inches)				BASE STEEL THICKNESS (inches)				BASE STEEL THICKNESS (inches)				
		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	160	205	282	360	164	207	293	365	205	258	366	457	
	D	234	293	408	515	562	703	980	1236	443	554	772	973	
6.5	S	136	175	240	306	140	176	249	311	175	220	312	389	
	D	184	230	321	405	442	553	771	972	348	435	607	765	
7.0	S	117	151	207	264	120	152	215	268	151	190	269	336	
	D	147	184	257	324	354	443	617	778	279	349	486	613	
7.5	S	102	131	180	230	105	132	187	234	131	165	234	292	
	D	120	150	209	264	288	360	502	633	227	283	395	498	
8.0	S	90	115	159	202	92	116	165	206	115	145	206	257	
	D	99	124	172	217	237	297	414	521	187	234	326	411	
8.5	S	80	102	140	179	82	103	146	182	102	129	182	228	
	D	82	103	144	181	198	247	345	435	156	195	271	342	
9.0	S	71	91	125	160	73	92	130	162	91	115	163	203	
	D	69	87	121	153	167	208	290	366	131	164	229	288	
9.5	S	64	82	112	143	65	82	117	146	82	103	146	182	
	D	59	74	103	130	142	177	247	311	112	139	194	245	
10.0	S	58	74	101	129	59	74	105	132	74	93	132	164	
	D	51	63	88	111	121	152	212	267	96	120	167	210	
10.5	S	52	67	92	117	54	68	96	119	67	84	120	149	
	D	44	55	76	96	105	131	183	231	83	103	144	182	
11.0	S	48	61	84	107	49	62	87	109	61	77	109	136	
	D	38	48	66	84	91	114	159	201	72	90	125	158	
11.5	S	43	56	77	98	45	56	80	99	56	70	100	124	
	D	33	42	58	73	80	100	139	175	63	79	110	138	
12.0	S	40	51	70	90	41	52	73	91	51	65	91	114	
	D	29	37	51	64	70	88	123	154	55	69	96	122	
12.5	S	37	47	65	83	38	48	67	84	47	60	84	105	
	D	26	32	45	57	62	78	108	137	49	61	85	108	
13.0	S	34	44	60	77	35	44	62	78	44	55	78	97	
	D	23	29	40	51	55	69	96	121	44	54	76	96	
13.5	S	32	40	56	71	32	41	58	72	40	51	72	90	
	D	21	26	36	45	49	62	86	108	39	49	68	85	
14.0	S	29	38	52	66	30	38	54	67	38	47	67	84	
	D	18	23	32	41	44	55	77	97	35	44	61	77	

- Notes:
- 1 Based on ASTM A 653 Grade 33 structural steel.
  - 2 Values in row "S" are based on strength.
  - 3 Values in row "D" are based on deflection of 1/240th span.
  - 4 Web crippling not included in strength calculations. See example.

Limit States Design principles were used in accordance with CSA Standard S136-07