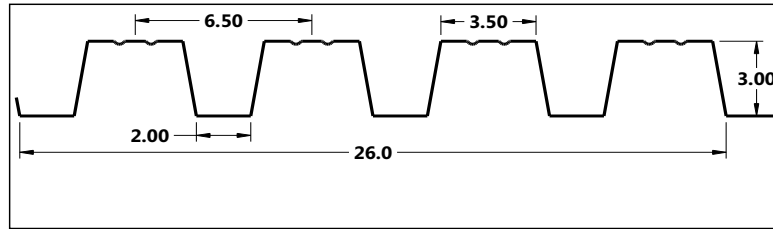


ACCUFORM METAL LTD.

AFRD 3-36 ROOF DECK



SECTION PROPERTIES (Per Foot of Width)

Base Steel Thickness (in.)	Weight G90 (psf)	Yield Stress (ksi)	Sec. Modulus		Deflection Moment of Inertia I_{xd} (in ⁴)	Web Crippling Loads		Web Crippling Data			
			Midspan	Support				P_{e1} End (lb)	P_{e2} End (lb)	P_{i1} Interior (lb)	P_{i2} Interior (lb)
0.0300	2.32	50	0.414	0.434	0.744	744	1556	269	67.2	576	97.9
0.0360	2.77	50	0.530	0.548	0.953	1048	2171	401	100	851	145
0.0480	3.68	50	0.765	0.790	1.36	1794	3669	748	187	1565	266
0.0600	4.58	50	0.975	1.01	1.74	2716	5511	1207	302	2503	425

ALLOWABLE UNIFORMLY DISTRIBUTED LOADS (psf)

SPAN LENGTH (ft)		1-SPAN				2-SPAN				3-SPAN			
		BASE STEEL THICKNESS (in.)				BASE STEEL THICKNESS (in.)				BASE STEEL THICKNESS (in.)			
		0.0300	0.0360	0.0480	0.0600	0.0300	0.0360	0.0480	0.0600	0.0300	0.0360	0.0480	0.0600
MAX CO. SPAN (ft-in)		All values are greater than 20 ft				All values are greater than 20 ft				All values are greater than 20 ft			
6.0	S	230	294	424	541	207	289	438	563	236	329	547	703
	D	301	386	548	705	716	919	1306	1680	568	728	1035	1331
6.5	S	196	250	361	461	191	259	373	479	218	304	466	599
	D	237	303	431	555	563	722	1027	1321	446	573	814	1047
7.0	S	169	216	312	397	177	223	322	413	202	279	402	517
	D	189	243	345	444	451	578	822	1058	357	458	652	838
7.5	S	147	188	271	346	154	195	280	360	189	243	350	450
	D	154	198	281	361	367	470	669	860	291	373	530	681
8.0	S	129	165	239	304	135	171	246	316	169	214	308	396
	D	127	163	231	298	302	388	551	709	239	307	437	562
8.5	S	114	146	211	269	120	151	218	280	150	189	273	350
	D	106	136	193	248	252	323	459	591	200	256	364	468
9.0	S	102	131	188	240	107	135	195	250	134	169	243	313
	D	89	114	162	209	212	272	387	498	168	216	307	394
9.5	S	92	117	169	216	96	121	175	224	120	152	218	281
	D	76	97	138	178	180	231	329	423	143	183	261	335
10.0	S	83	106	153	195	87	109	158	203	108	137	197	253
	D	65	83	118	152	155	198	282	363	123	157	224	288
10.5	S	75	96	138	177	79	99	143	184	98	124	179	230
	D	56	72	102	132	134	171	244	313	106	136	193	248
11.0	S	68	87	126	161	72	90	130	167	89	113	163	209
	D	49	63	89	114	116	149	212	273	92	118	168	216
11.5	S	62	80	115	147	66	83	119	153	82	103	149	191
	D	43	55	78	100	102	130	185	239	81	103	147	189
12.0	S	57	73	106	135	60	76	109	141	75	95	137	176
	D	38	48	69	88	90	115	163	210	71	91	129	166
12.5	S	53	68	98	125	55	70	101	130	69	88	126	162
	D	33	43	61	78	79	102	144	186	63	81	114	147
13.0	S	49	63	90	115	51	65	93	120	64	81	117	150
	D	30	38	54	69	70	90	128	165	56	72	102	131
13.5	S	45	58	84	107	48	60	87	111	59	75	108	139
	D	26	34	48	62	63	81	115	147	50	64	91	117
14.0	S	42	54	78	99	44	56	80	103	55	70	101	129
	D	24	30	43	56	56	72	103	132	45	57	81	105

- Notes:**
- Based on ASTM A 653 structural steel.
 - Values in row "S" are based on strength.
 - Values in row "D" are based on deflection of SPAN LENGTH/180.
 - P_e = Allowable end web crippling load based on $N = 1.5$ in.
 - P_i = Allowable interior web crippling load based on $N = 3.0$ in.
 - If bearing lengths are less than specified, see Example for use of web crippling data.
 - MAX CO. SPAN = Maximum construction span based on 200 lb concentrated load per foot of deck (SDI).
 - Allowable Strength Design principles were used in accordance with AISI S100-16.
 - Prepared by Dr. R.M. Schuster, Distinguished Professor Emeritus, University of Waterloo.