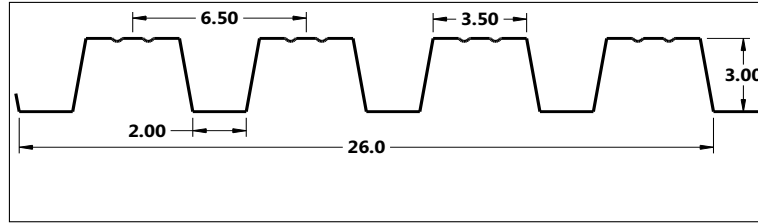


ACCUFORM METAL LTD.

AFRD 3-26US ROOF DECK



$F_y = 33 \text{ ksi}$

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_e (lb)	P_i (lb)	P_{e1} End (lb)	P_{e2} End (lb)	P_{i1} Interior (lb)	P_{i2} Interior (lb)
0.0300	2.32	33	0.447	0.461	0.801	621	1294	178	44.4	380	64.6
0.0360	2.77	33	0.572	0.582	1.00	869	1794	265	66.2	561	95.5
0.0480	3.68	33	0.784	0.818	1.40	1470	2997	494	123	1033	176
0.0600	4.58	33	0.997	1.01	1.75	2205	4460	797	199	1652	281

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)		14'9"	18'10"	25'10"	32'10"	18'2"	23'3"	31'10"	40'5"	18'5"	23'7"	32'3"	41'0"
6.0	S	164	209	287	365	169	213	299	371	196	266	374	464
	D	324	406	565	710	771	966	1346	1691	611	765	1067	1340
6.5	S	139	178	245	311	144	181	255	316	180	227	319	396
	D	255	319	445	558	607	760	1059	1330	481	602	839	1054
7.0	S	120	154	211	268	124	156	220	273	155	196	275	341
	D	204	255	356	447	486	608	848	1065	385	482	672	844
7.5	S	105	134	184	234	108	136	192	238	135	170	240	297
	D	166	208	290	364	395	495	689	866	313	392	546	686
8.0	S	92	118	161	205	95	120	168	209	119	150	211	261
	D	137	171	239	300	325	408	568	713	258	323	450	565
8.5	S	81	104	143	182	84	106	149	185	105	133	186	231
	D	114	143	199	250	271	340	474	595	215	269	375	471
9.0	S	73	93	128	162	75	95	133	165	94	118	166	206
	D	96	120	168	210	229	286	399	501	181	227	316	397
9.5	S	65	84	114	146	67	85	119	148	84	106	149	185
	D	82	102	142	179	194	243	339	426	154	193	269	338
10.0	S	59	75	103	131	61	77	108	134	76	96	135	167
	D	70	88	122	153	167	209	291	365	132	165	230	289
10.5	S	53	68	94	119	55	70	98	121	69	87	122	152
	D	60	76	106	132	144	180	251	315	114	143	199	250
11.0	S	49	62	85	109	50	63	89	110	63	79	111	138
	D	53	66	92	115	125	157	218	274	99	124	173	217
11.5	S	45	57	78	99	46	58	81	101	57	72	102	126
	D	46	58	80	101	110	137	191	240	87	109	152	190
12.0	S	41	52	72	91	42	53	75	93	53	67	94	116
	D	40	51	71	89	96	121	168	211	76	96	133	167
12.5	S	38	48	66	84	39	49	69	86	49	61	86	107
	D	36	45	63	79	85	107	149	187	68	85	118	148
13.0	S	35	45	61	78	36	45	64	79	45	57	80	99
	D	32	40	56	70	76	95	132	166	60	75	105	132
13.5	S	32	41	57	72	33	42	59	73	42	53	74	92
	D	28	36	50	62	68	85	118	148	54	67	94	118
14.0	S	30	38	53	67	31	39	55	68	39	49	69	85
	D	25	32	45	56	61	76	106	133	48	60	84	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 $N_e = 3.0$ in.
- P_i = Allowable interior web crippling load based on $N_i = 6.0$ 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.