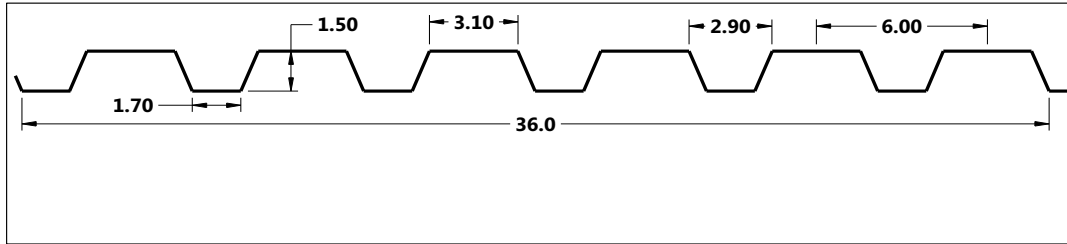


ACCUFORM METAL LTD.

AFRD 15-36 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			
			S_{pos} (in ³)	S_{neg} (in ³)		P_e (lb)	P_i (lb)	P_{e1} End (lb)	P_{e2} End (lb)	P_{i1} Interior (lb)	P_{i2} Interior (lb)
0.0300	1.69	50	0.172	0.175	0.162	829	1605	300	74.9	594	101
0.0360	2.02	50	0.224	0.223	0.205	1157	2237	443	111	877	149
0.0480	2.67	50	0.309	0.323	0.289	1955	3776	816	204	1611	274
0.0600	3.32	50	0.391	0.400	0.365	2936	5666	1305	326	2573	437

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)		8' 6"	11' 2"	15' 5"	19' 6"	10' 6"	13' 9"	19' 0"	24' 0"	10' 8"	14' 0"	19' 3"	24' 4"
5.0	S	137	179	247	312	140	178	258	319	174	223	323	399
	D	113	143	202	255	270	341	481	608	214	270	381	482
5.5	S	113	148	204	258	115	147	213	264	144	184	267	329
	D	85	108	152	192	203	256	361	457	161	203	286	362
6.0	S	95	124	171	217	97	124	179	221	121	155	224	277
	D	66	83	117	148	156	197	278	352	124	156	221	279
6.5	S	81	106	146	185	83	105	153	189	103	132	191	236
	D	52	65	92	116	123	155	219	277	97	123	174	219
7.0	S	70	91	126	159	71	91	132	163	89	114	165	203
	D	41	52	74	93	98	124	175	222	78	99	139	176
7.5	S	61	79	110	139	62	79	115	142	78	99	143	177
	D	34	42	60	76	80	101	143	180	63	80	113	143
8.0	S	54	70	96	122	55	70	101	125	68	87	126	156
	D	28	35	49	62	66	83	117	148	52	66	93	118
8.5	S	47	62	85	108	48	62	89	110	60	77	112	138
	D	23	29	41	52	55	69	98	124	44	55	78	98
9.0	S	42	55	76	96	43	55	80	98	54	69	100	123
	D	19	25	35	44	46	59	82	104	37	46	65	83
9.5	S	38	50	68	87	39	49	71	88	48	62	89	110
	D	17	21	29	37	39	50	70	89	31	39	56	70
10.0	S	34	45	62	78	35	45	65	80	44	56	81	100
	D	14	18	25	32	34	43	60	76	27	34	48	60
10.5	S	31	41	56	71	32	40	59	72	40	51	73	90
	D	12	15	22	28	29	37	52	66	23	29	41	52
11.0	S	28	37	51	65	29	37	53	66	36	46	67	82
	D	11	13	19	24	25	32	45	57	20	25	36	45
11.5	S	26	34	47	59	26	34	49	60	33	42	61	75
	D	9	12	17	21	22	28	40	50	18	22	31	40
12.0	S	24	31	43	54	24	31	45	55	30	39	56	69
	D	8	10	15	18	20	25	35	44	15	20	28	35

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