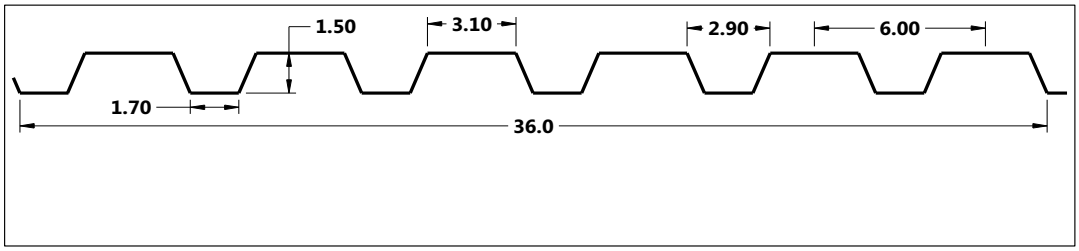
ACCUFORM METAL LTD. AFRD 15-36 ROOF DECK



SECTION PROPERTIES (Per Foot of Width)

Base Steel Thickness (in.)	Weight G90 (psf)	Yield Stress (ksi)	Sec. Modulus Midspan S_{pos} (in^3)	Sec. Modulus Support S_{neg} (in^3)	Deflection Moment of Inertia I_{xd} (in^4)	Web Crippling Loads P_e (lb)	Web Crippling Loads P_i (lb)	Web Crippling Data P_{e1} End (lb)	Web Crippling Data P_{e2} End (lb)	Web Crippling Data P_{i1} Interior (lb)	Web Crippling Data P_{i2} Interior (lb)
0.0300	1.69	33	0.190	0.188	0.172	547	1059	198	49.4	392	66.7
0.0360	2.02	33	0.232	0.239	0.215	764	1477	292	73.0	579	98.4
0.0480	2.67	33	0.316	0.323	0.293	1290	2492	538	135	1063	181
0.0600	3.32	33	0.398	0.400	0.365	1938	3740	861	215	1698	289

ALLOWABLE UNIFORMLY DISTRIBUTED LOADS (psf)

SPAN LENGTH (ft)		*1-SPAN* BASE STEEL THICKNESS (in.)				*2-SPAN* BASE STEEL THICKNESS (in.)				*3-SPAN* 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)		*6' 3"*	*7' 8"*	*10' 5"*	*13' 1"*	*7' 8"*	*9' 5"*	*12' 10"*	*16' 2"*	*7'10"*	*9' 7"*	*13' 0"*	*16'5"*
5.0	S	100	122	166	210	99	126	170	210	124	158	213	263
	D	120	150	205	255	287	357	488	608	227	283	387	482
5.5	S	83	101	138	173	82	104	141	174	103	130	176	217
	D	90	113	154	192	215	269	367	457	171	213	291	362
6.0	S	69	85	116	146	69	88	118	146	86	110	148	183
	D	70	87	119	148	166	207	283	352	131	164	224	279
6.5	S	59	72	99	124	59	75	101	125	73	93	126	156
	D	55	68	93	116	130	163	222	277	103	129	176	219
7.0	S	51	62	85	107	51	64	87	107	63	80	109	134
	D	44	55	75	93	104	130	178	222	83	103	141	176
7.5	S	44	54	74	93	44	56	76	94	55	70	95	117
	D	36	44	61	76	85	106	145	180	67	84	115	143
8.0	S	39	48	65	82	39	49	67	82	48	62	83	103
	D	29	37	50	62	70	87	119	148	55	69	95	118
8.5	S	35	42	58	73	34	44	59	73	43	55	74	91
	D	25	31	42	52	58	73	99	124	46	58	79	98
9.0	S	31	38	51	65	31	39	53	65	38	49	66	81
	D	21	26	35	44	49	61	84	104	39	49	66	83
9.5	S	28	34	46	58	27	35	47	58	34	44	59	73
	D	18	22	30	37	42	52	71	89	33	41	56	70
10.0	S	25	31	42	52	25	32	43	53	31	39	53	66
	D	15	19	26	32	36	45	61	76	28	35	48	60
10.5	S	23	28	38	48	23	29	39	48	28	36	48	60
	D	13	16	22	28	31	39	53	66	25	31	42	52
11.0	S	21	25	34	43	21	26	35	43	26	33	44	54
	D	11	14	19	24	27	34	46	57	21	27	36	45
11.5	S	19	23	31	40	19	24	32	40	23	30	40	50
	D	10	12	17	21	24	29	40	50	19	23	32	40
12.0	S	17	21	29	36	17	22	30	37	22	27	37	46
	D	9	11	15	18	21	26	35	44	16	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.