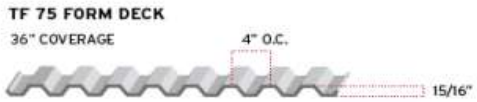
15/16" ROOF DECK

Oates
Metal Deck and Building Products, Inc.



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)
0.0179	1.00	80	0.0654	0.0654	0.0368	514	741	156	39.1	231	39.3
0.0238	1.31	80	0.0945	0.0945	0.0501	870	1328	291	72.9	456	77.6
0.0295	1.61	80	0.124	0.124	0.0621	1289	2035	463	116	750	127
0.0358	1.94	80	0.154	0.154	0.0752	1837	2973	702	175	1163	198

SPAN LENGTH (ft)		*1-SPAN* BASE STEEL THICKNESS (in.)				*2-SPAN* BASE STEEL THICKNESS (in.)				*3-SPAN* BASE STEEL THICKNESS (in.)			
		0.0179	0.0238	0.0295	0.0358	0.0179	0.0238	0.0295	0.0358	0.0179	0.0238	0.0295	0.0358
MAX CO. SPAN (ft-in)		*3' 11"*	*5' 8"*	*7' 5"*	*9' 3"*	*4' 10"*	*7' 0"*	*9' 2"*	*11' 5"*	*4' 11"*	*7' 1"*	*9' 3"*	*11' 7"*
3.0	S	174	252	330	411	174	252	330	411	217	314	413	514
	D	89	122	151	182	212	290	359	434	168	230	285	344
3.5	S	128	185	243	302	128	185	243	302	160	231	303	377
	D	56	77	95	115	134	183	226	274	106	145	179	217
4.0	S	98	141	186	231	98	141	186	231	122	177	232	289
	D	38	51	64	77	90	122	151	183	71	97	120	145
4.5	S	77	112	147	183	77	112	147	183	97	140	184	228
	D	26	36	45	54	63	86	106	129	50	68	84	102
5.0	S	63	91	119	148	63	91	119	148	78	113	149	185
	D	19	26	33	39	46	63	78	94	36	50	61	74
5.5	S	52	75	98	122	52	75	98	122	65	94	123	153
	D	14	20	24	30	34	47	58	71	27	37	46	56
6.0	S	43	63	83	103	43	63	83	103	54	79	103	128
	D	11	15	19	23	27	36	45	54	21	29	36	43
6.5	S	37	54	70	88	37	54	70	88	46	67	88	109
	D	9	12	15	18	21	29	35	43	17	23	28	34
7.0	S	32	46	61	75	32	46	61	75	40	58	76	94
	D	7	10	12	14	17	23	28	34	13	18	22	27
7.5	S	28	40	53	66	28	40	53	66	35	50	66	82
	D	6	8	10	12	14	19	23	28	11	15	18	22
8.0	S		35	46	58	24	35	46	58	31	44	58	72
	D		6	8	10	11	15	19	23	9	12	15	18

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/240.
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.