

PRODUCT
Form Deck

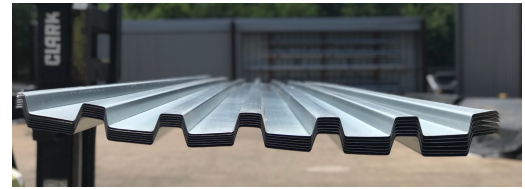
MEMBER
150FD295

GAGE
22

DESIGN METHOD
ASD

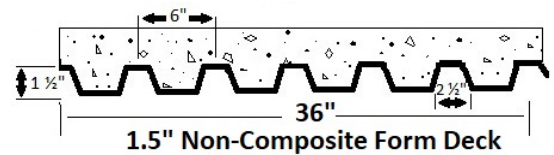
PHYSICAL PROPERTIES

Deck Type	Form Deck
Design Thickness	0.0295
Weight	1.7
Area	0.476
KSI	50
Coating	G60



SECTION PROPERTIES

I_p (In ⁴)	0.1742
I_n (In ⁴)	0.1473
S_p (In ³)	0.172
S_n (In ³)	0.18



BARE DECK DESIGN

Bending Moment Positive (M_p/Ω)	5129
Bending Moment Negative (M_n/Ω)	5401
Shear Strength (V_n/Ω)	2207
Web Crippling OFE (R_{be}/Ω)	885
Web Crippling OFI (R_{bi}/Ω)	1601

[ASD] MAXIMUM CONSTRUCTION CLEAR SPAN (ft.-in.) FOR NORMAL WEIGHT CONCRETE 145 PCF

Slab Depth (in.)	1-SPAN	2-SPAN	3-SPAN
4 (40 PSF)	5' 6"	7' 3"	7' 5"
4.5 (46 PSF)	5' 4"	6' 11"	7' 1"
5 (52 PSF)	5' 0"	6' 8"	6' 10"
5.5 (58 PSF)	4' 10"	6' 5"	6' 7"
6 (64 PSF)	4' 8"	6' 2"	6' 4"
6.5 (70 PSF)	4' 7"	6' 0"	6' 2"

NOTES

- All section properties and strengths are reported per foot of panel width.
- p = Property in positive bending; n = Property in negative bending.
- Steel deck section properties were calculated in accordance with AISI S100-12.
- Web crippling values are based on minimum bearing lengths of 2" for end bearing and 4" for interior bearing.

DISCLAIMER:

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[ASD] TOTAL ALLOWABLE UNIFORM LOADS (PSF)

Span Condition	Design Criteria	Clear Span (ft-in)												
		4' 0"	4' 6"	5' 0"	5' 6"	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"	8' 6"	9' 0"	9' 6"	10' 0"
Single	Strength	223	176	143	118	99	85	73	64	56	56	49	40	36
	L/180	242	170	124	93	72	56	45	37	30	25	21	18	15
	L/240	182	128	93	70	54	42	24	28	23	19	16	14	12
Double	Strength	207	164	133	110	93	79	68	60	52	47	41	37	34
	L/180	527	370	270	203	156	123	98	80	66	55	46	39	34
	L/240	395	276	202	152	117	92	74	60	49	41	35	29	25
3 or More	Strength	257	209	166	137	116	99	85	74	65	58	52	47	42
	L/180	412	290	211	159	122	96	77	64	53	44	36	31	26
	L/240	309	217	158	119	92	72	58	47	39	32	27	23	20

REINFORCEMENT FOR TEMPERATURE & SHRINKAGE

Overall Slab Depth (in.)	Min. Welded Wire Reinforcement as per SDI	Wire Area (in ²)
3.5	6X6 - W1.4X1.4	0.028
4	6X6 - W1.4X1.4	0.028
4.5	6X6 - W1.4X1.4	0.028
4.75	6X6 - W1.4X1.4	0.028
5	6X6 - W2.0X2.0	0.04
5.5	6X6 - W2.0X2.0	0.04
5.75	6X6 - W2.0X2.0	0.04
6	6X6 - W2.0X2.0	0.04

NOTES:

- Load tables are calculated using section properties based on the steel design thickness.
- Shoring requirements were established in accordance with SDI C-2011.
- Bending Moment and Deflection formulae are in accordance with ANSI/SDI C-2017.
- Span length assumes clear spans. Center-to-center spacing of supports can be used for design as a conservative assumption.
- Loads greater than 200 psf are usually the result of large concentrated dynamic loads. In such cases, contact Oates Metal Deck for additional design information.

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