

PRODUCT
Form Deck

MEMBER
916FD300

GAGE
22

DESIGN METHOD
ASD

PHYSICAL PROPERTIES

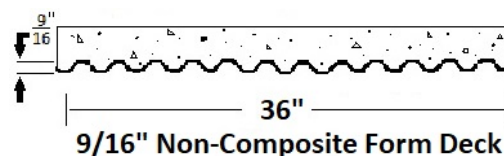
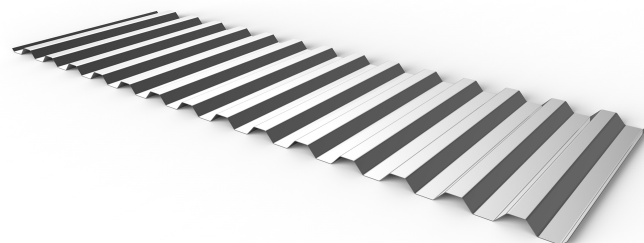
Deck Type	Form Deck
Design Thickness	0.0295
Weight	1.5
Area	0.435
KSI	50
Coating	G60

SECTION PROPERTIES

I_p (in ⁴)	0.0225
I_n (in ⁴)	0.0225
S_p (in ³)	0.071
S_n (in ³)	0.071

BARE DECK DESIGN

Bending Moment Positive (M_p/Ω)	2126
Bending Moment Negative (M_n/Ω)	2126
Shear Strength (V_n/Ω)	2766
Web Crippling OFE (R_{be}/Ω)	1716
Web Crippling OFI (R_{bi}/Ω)	3122



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

Slab Depth (in.)	1-SPAN	2-SPAN	3-SPAN
2 (22 PSF)	3' 8"	4' 5"	4' 5"
2.5 (29 PSF)	3' 6"	4' 2"	4' 3"
3 (35 PSF)	3' 4"	4' 0"	4' 0"
3.5 (42 PSF)	3' 3"	3' 10"	3' 10"
4 (48 PSF)	3' 1"	3' 8"	3' 9"
4.5 (55 PSF)	3' 0"	3' 7"	3' 7"
5 (61 PSF)	2' 11"	3' 6"	3' 6"

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 1"1/2 for end bearing and 3" for interior bearing.

DISCLAIMER:

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[ASD] CANTILEVERED SPANS FOR NORMAL WEIGHT CONCRETE 145 PCF

Slab Depth (in.)	2 (22 PSF)	2.5 (29 PSF)	3 (35 PSF)	3.5 (42 PSF)	4 (48 PSF)	4.5 (55 PSF)	5 (61 PSF)
Span (ft-in)	1' 0"	1' 0"	1' 0"	1' 0"	1' 0"	0' 11"	0' 11"

[ASD] TOTAL ALLOWABLE UNIFORM LOADS (PSF)

Span Condition	Design Criteria	Clear Span (ft-in)																	
		2' 0"	2' 3"	2' 6"	2' 9"	3' 0"	3' 3"	3' 6"	3' 9"	4' 0"	4' 3"	4' 6"	4' 9"	5' 0"	5' 3"	5' 6"	5' 9"	6' 0"	
Single	Strength	353	278	225	186	156	133	114	99	87	77	68	61	55	50	45	41	38	
	L/180	245	171	125	93	71	56	44	36	29	24	20	17	14	12	10	9	8	
	L/240	183	128	93	70	53	42	33	27	22	18	15	12	10	9	7	6	5	
Double	Strength	353	278	225	186	156	133	114	99	87	77	68	61	55	50	45	41	38	
	L/180	591	415	302	227	174	137	109	88	73	60	51	43	36	31	27	23	20	
	L/240	443	311	226	170	130	102	81	66	54	45	38	32	27	23	20	17	15	
3 or More	Strength	377	298	241	199	167	142	122	106	93	82	73	66	59	53	49	44	41	
	L/180	462	324	236	177	136	107	85	69	56	47	39	33	28	24	21	18	16	
	L/240	346	243	177	132	102	80	63	51	42	35	29	24	21	18	15	13	11	

REINFORCEMENT FOR TEMPERATURE & SHRINKAGE

Overall Slab Depth (in.)	Min. Welded Wire Reinforcement as per SDI	Wire Area (in ²)
2	6X6 - W1.4X1.4	0.028
2.5	6X6 - W1.4X1.4	0.028
3	6X6 - W1.4X1.4	0.028
3.5	6X6 - W1.4X1.4	0.028
4	6X6 - W2.0X2.0	0.04
4.5	6X6 - W2.0X2.0	0.04
5	6X6 - W2.9X2.9	0.058

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 OEG for additional design information.

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