

PRODUCT
N Deck

MEMBER
3ND474

GAGE
18

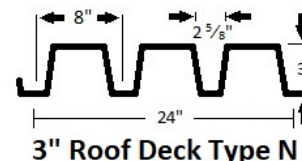
DESIGN METHOD
ASD

PHYSICAL PROPERTIES

Deck Type	N Deck
Design Thickness	0.0474
Weight	3.32
Area	0.977
KSI	50
Coating	G90

SECTION PROPERTIES

I_p (In ⁴)	1.1576
I_n (In ⁴)	1.3689
S_p (In ³)	0.663
S_n (In ³)	0.7158



BARE DECK DESIGN

Bending Moment Positive (M_p/Ω)	19852
Bending Moment Negative (M_n/Ω)	21431
Shear Strength (V_n/Ω)	7094
Web Crippling OFE (R_{be}/Ω)	1336
Web Crippling OFI (R_{bi}/Ω)	2728
Web Crippling TFE (R_{be}/Ω)	1557
Web Crippling TFI (R_{bi}/Ω)	3315

[ASD] MAXIMUM CONSTRUCTION CLEAR SPAN (ft-in.)

[ASD] CANTILEVERED SPANS

1-SPAN	2-SPAN	3-SPAN	(ft-in)
27' 0"	30' 0"	30' 0"	6' 9"

NOTES

- All section properties are calculated in accordance with AISI S100-2012.
- All section properties and strengths are reported per foot of panel width.
- p = Property in positive bending; n = Property in negative bending.
- Zinc-Coated (Galvanized) sheet metal meets or exceeds ASTM A653 and ASTM A1003
- Web crippling values are based on minimum bearing lengths of 1"1/2 for end bearing and 3" for interior bearing.
- All construction and cantilever spans are calculated in accordance with ANSI/SDI RD-2010.

DISCLAIMER:

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[ASD] TOTAL ALLOWABLE UNIFORM LOADS (PSF)

Span Condition	Design Criteria	Clear Span (ft-in)										
		10' 0"	10' 6"	11' 0"	11' 6"	12' 0"	12' 6"	13' 0"	13' 6"	14' 0"	14' 6"	15' 0"
Single	Downward	132	120	109	100	91	84	78	72	67	62	58
	Upward	142	129	118	108	99	91	84	78	72	67	63
	L/120	152	131	114	100	88	78	69	62	55	50	45
	L/180	101	88	76	67	59	52	46	41	37	33	30
	L/240	76	66	57	50	44	39	35	31	28	25	23
Double	Downward	142	129	118	108	99	91	84	78	72	67	63
	Upward	132	120	109	100	91	84	78	72	67	62	58
	L/120	366	316	275	241	212	187	167	149	133	120	108
	L/180	244	211	183	160	141	125	111	99	89	80	72
	L/240	183	158	137	120	106	94	83	74	67	60	54
3 or More	Downward	178	161	147	135	124	114	105	97	91	84	79
	Upward	165	150	136	125	114	105	97	90	84	78	73
	L/120	286	247	215	188	166	147	130	116	104	94	85
	L/180	191	165	143	126	110	98	87	78	70	63	57
	L/240	143	124	108	94	83	73	65	58	52	47	42

NOTES:

- Load tables are calculated using section properties based on the steel design thickness.
- Loads shown in tables are uniformly distributed loads in psf. Span length assumes center-to-center spacing of supports.
- Uniform loads are calculated in accordance with ANSI/SDI RD-2010.

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