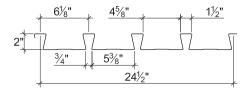
2.0D DOVETAIL ROOF DECK

- Enhanced 2-Coat Polyester Paint
- White Factory Primer Paint
- Galvanized Finish
- FM Listed

Nominal Dimensions







Section Properties

	Deck Weight	Base Metal Thickness	Yield Strength	of In	ce Load	Effe Section at F _y =	Modulus		vable nent	Vertical Web Shear
Deck Gage	w _{dd} (psf)	t (in.)	F _y (ksi)	l _d + (in⁴/ft)	l _d - (in⁴/ft)	S _e + (in³/ft)	S _e - (in³/ft)	M _n +/Ω (lb-ft/ft)	M _n -/Ω (lb-ft/ft)	V _n /Ω (Ib/ft)
22	2.1	0.0295	40	0.387	0.359	0.272	0.272	543	543	2896
20	2.6	0.0358	40	0.472	0.447	0.343	0.334	684	666	3498
18	3.4	0.0474	40	0.626	0.612	0.463	0.450	924	898	4584
16	4.3	0.0598	40	0.792	0.791	0.587	0.576	1172	1150	5723

Allowable Reactions at Supports Based on Web Crippling, R_n/Ω (lb/ft)

	Bearing Length of Webs												
		Ο	ne-Flang	je Loadi	ng	Two-Flange Loading							
Deck	End Bearing				Interior Bearing			End B	Interior Bearing				
Gage	1 ½"	2"	3"	4"	3"	5"	11⁄2"	2"	3"	4"	3"	5"	
22	653	717	826	917	1281	1516	702	757	848	925	1567	1877	
20	931	1020	1170	1296	1823	2146	1058	1136	1266	1376	2258	2690	
18	1556	1697	1933	2132	3036	3544	1893	2023	2239	2422	3813	4507	
16	2378	2582	2926	3215	4629	5360	3043	3237	3563	3837	5866	6880	

Standard Features

- ASTM A653 SS GR 40 Min. with G90
- Standard lengths 6'-0" to 42'-0"
- Tables conform to ANSI/SDI RD-2017
- IAPMO UES ER-423, FM and UL Listed

Optional Features

- Inquire regarding cost and lead times for:
 - -19 gage
 - -Short cuts < 6'-0"
 - -Alternative metallic and painted finishes
- Acoustical Version



2.0D DOVETAIL ROOF DECK GRADE 40 STEEL

Inward Uniform Allowable Loads, ASD (psf)

GameStrainCriteria4'-0"5'-0"6'-0"7'-0"8'-0"10'-0"11'-0"12'-013'-013'-014'-0'ParelWn / Ω2721741218968544336630026022DathWn / Ω26417111988675343336630026022ParelWn / Ω26417111988675343336630026022ParelWn / Ω26417111988675343336630026022ParelWn / Ω26417111988675343336630026022ParelWn / Ω3272121481098467534333683228ParelWn / Ω324212112180686654455383228ParelWn / Ω324209152112806042313314403127ParelWn / Ω324209162112806855453832383238ParelWn / Ω32420916211390604255463741313433ParelWn / Ω40020916011211381131<	Deck		Span (ft-in.)											
Single 1/240 117 74 50 35 25 19 15 12 9 22 Double W _n /Ω 264 171 119 88 67 53 43 36 30 26 222 Triple W _n /Ω 327 212 148 109 84 67 54 45 38 32 288 Triple W _n /Ω 327 212 148 109 84 67 54 45 38 32 288 L/240 61 44 33 26 20 16 L/240 61 44 33 26 20 20 28 Double W _n /Ω 324 209 146 108 83 65 53 44 37 31 27 L/240 <th>Gage</th> <th>Spans</th> <th>Criteria</th> <th>4'-0"</th> <th>5'-0"</th> <th>6'-0"</th> <th>7'-0"</th> <th>8'-0"</th> <th>9'-0"</th> <th>10'-0"</th> <th>11'-0"</th> <th>12'-0"</th> <th>13'-0"</th> <th>14'-0"</th>	Gage	Spans	Criteria	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"
$ \frac{1}{1} \frac{1}{2} 1$	22	Single	W _n /Ω	272	174	121	89	68	54	43	36	30	26	22
$ \frac{1}{2} 2 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		Single	L/240			117	74	50	35	25	19	15	12	9
		Double	W _n / Ω	264	171	119	88	67	53	43	36	30	26	22
			L/240											21
		Triplo	W _n / Ω	327	212	148	109	84	67	54	45	38	32	28
Single n 143 90 60 42 31 23 18 14 11 20 M N Ω 324 209 146 108 83 65 53 44 37 31 27 L/240		mple	L/240						61	44	33	26	20	16
$ 18 \frac{1}{100} \frac{1}{100} $		Cincelo	W _n /Ω	342	219	152	112	86	68	55	45	38	32	28
Double L/240 26 Triple W _n / Ω 401 260 182 134 103 82 66 55 46 39 34 L/240 76 55 42 32 25 20 Main M _n / Ω 462 296 205 151 115 91 74 61 51 44 38 L/240 190 120 80 56 41 31 24 19 15 Double W _n / Ω 436 282 197 145 111 88 72 59 50 42 37 L/240 35 M _n / Ω 539 350 245 181 139 110 89		Single	L/240			143	90	60	42	31	23	18	14	11
$ 18 \frac{1}{1240} \frac{1}{1240} \frac{1}{1260} \frac{1}{1260}$	20	Double	W _n / Ω	324	209	146	108	83	65	53	44	37	31	27
	20		L/240											26
		Triple	W _n / Ω	401	260	182	134	103	82	66	55	46	39	34
$ \frac{\text{Single}}{\text{L}^{2}40} {} 190 120 80 56 41 31 24 19 15 \\ \frac{12}{10} 15 100 $			L/240						76	55	42	32	25	20
$ 18 \begin{array}{ c c c c c c c c c } \hline U_{240} & & & 190 & 120 & 80 & 56 & 41 & 31 & 24 & 19 & 15 \\ \hline & & & & & & & & & & & & & & & & & &$		Single	W _n /Ω	462	296	205	151	115	91	74	61	51	44	38
$ \frac{18}{16} = \frac{1}{1240} - \frac{1}{140} - $			L/240			190	120	80	56	41	31	24	19	15
$ \frac{1}{100} = \frac{1}{100} + 1$	18	Double	W _n /Ω	436	282	197	145	111	88	72	59	50	42	37
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			L/240											35
$16 \frac{1}{100} \frac{1}{100} $		Triple	W _n /Ω	539	350	245	181	139	110	89	74	62	53	46
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			L/240						104	76	57	44	34	28
$16 \frac{1}{100} \frac{1}{100} $	16	Single	W _n / Ω	586	375	260	191	146	116	94	77	65	55	48
16 Double L/240 46 Triple W_n / Ω 688 447 313 231 178 141 114 94 79 68 58			L/240			240	151	101	71	52	39	30	24	19
$\mathbf{Triple} = \frac{W_{n}}{\Omega} = \frac{1}{688} + \frac{1}{313} + \frac{1}{313} + \frac{1}{178} + \frac{1}{114} + \frac{1}{94} + \frac{1}{79} + \frac{1}{68} + $		Double	W _n / Ω	558	361	252	186	143	113	92	76	64	54	47
			L/240											46
L/240 134 98 74 57 45 36		Triple	W _n /Ω	688	447	313	231	178	141	114	94	79	68	58
			L/240						134	98	74	57	45	36

Notes:

1. Table does not account for web crippling. Required bearing should be determined based on specific span conditions.

2. The symbol "---" indicates that the uniform allowable load based on deflection exceeds the allowable load based on stress.

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