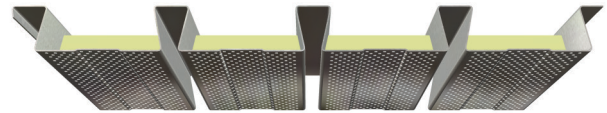


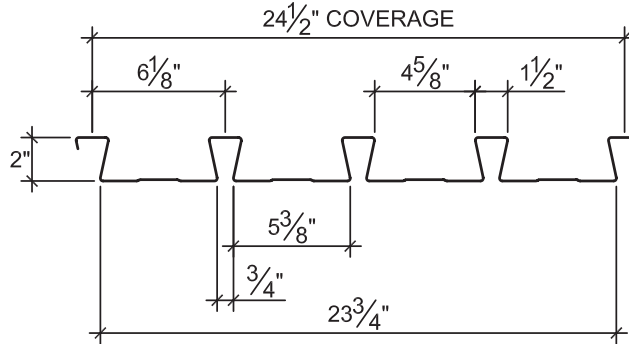
2.0DA ACOUSTICAL DOVETAIL ROOF DECK

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- 2" Deep Deck
- FM Approved
- IAPMO UES ER-423



Nominal Dimensions



Deck Section Properties

Deck Gage	Deck Weight w_{dd} (psf)	Base Metal Thickness t (in.)	Yield Strength F_y (ksi)	Effective Moment of Inertia at Service Load $I_d = (2I_e + I_g)/3$		Effective Section Modulus at $F_y = 40$ ksi		Vertical Web Shear V_n/Ω (lb/ft)
				I_{d+} (in ⁴ /ft)	I_{d-} (in ⁴ /ft)	S_{e+} (in ³ /ft)	S_{e-} (in ³ /ft)	
22	1.98	0.0295	40	0.340	0.310	0.261	0.258	2896
20	2.41	0.0358	40	0.415	0.385	0.330	0.317	3496
18	3.20	0.0474	40	0.551	0.528	0.445	0.427	4584
16	4.04	0.0598	40	0.697	0.684	0.564	0.546	5722

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

Deck Gage	Bearing Length of Webs											
	End Bearing						Interior Bearing					
	1 1/2"	2"	3"	4"	5"	≥ 5 1/4"	1 1/2"	2"	3"	4"	5"	≥ 5 1/4"
22	653	718	827	918	999	1006	1045	1133	1282	1407	1517	1527
20	932	1021	1171	1297	1408	1415	1499	1621	1825	1996	2148	2158
18	1557	1698	1934	2134	2309	2314	2527	2718	3039	3309	3547	3554
16	2380	2585	2928	3217	3469	3469	3891	4168	4632	5024	5364	5364

Standard Features

- ASTM A653 or A1063 SS GR 40 minimum steel with $F_y = 40$ ksi.
- G90 stocked standard
- Standard lengths – 6'-0" to 42'-0"
- Tables conform to ANSI/SDI RD-2017.

Optional Features

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

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Allowable Uniform Load, W_u/Ω (psf)

Deck Gage	Spans	Criteria	Span (ft.-in.)										
			4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"
22	Single	F_y / Ω	260	166	115	85	65	51	41	34	28	24	21
		L/240	---	---	103	65	44	31	22	17	13	10	8
		L/180	---	---	---	---	58	41	30	22	17	14	11
	Double	F_y / Ω	251	162	113	83	63	50	41	33	28	24	20
		L/240	---	---	---	---	---	---	---	---	---	22	18
		L/180	---	---	---	---	---	---	---	---	---	---	---
	Triple	F_y / Ω	310	201	140	103	79	63	51	42	35	30	26
		L/240	---	---	---	---	75	53	38	29	22	17	14
		L/180	---	---	---	---	---	---	---	38	30	23	19
20	Single	F_y / Ω	329	210	146	107	82	65	52	43	36	31	26
		L/240	---	---	126	79	53	37	27	20	16	12	10
		L/180	---	---	---	106	71	50	36	27	21	17	13
	Double	F_y / Ω	308	199	139	102	78	62	50	41	35	29	25
		L/240	---	---	---	---	---	---	---	---	---	28	22
		L/180	---	---	---	---	---	---	---	---	---	---	---
	Triple	F_y / Ω	381	247	172	127	97	77	62	52	43	37	32
		L/240	---	---	---	---	93	65	48	36	28	22	17
		L/180	---	---	---	---	---	---	---	48	37	29	23
18	Single	F_y / Ω	444	284	197	145	111	87	71	58	49	42	36
		L/240	---	---	167	105	71	50	36	27	21	16	13
		L/180	---	---	---	141	94	66	48	36	28	22	18
	Double	F_y / Ω	415	268	187	137	105	83	67	56	47	40	34
		L/240	---	---	---	---	---	---	---	---	---	38	30
		L/180	---	---	---	---	---	---	---	---	---	---	---
	Triple	F_y / Ω	513	332	232	171	131	104	84	70	58	50	43
		L/240	---	---	---	---	128	90	65	49	38	30	24
		L/180	---	---	---	---	---	---	---	65	50	40	32
16	Single	F_y / Ω	562	360	250	183	140	111	90	74	62	53	45
		L/240	---	---	212	133	89	63	46	34	26	21	17
		L/180	---	---	---	178	119	84	61	46	35	28	22
	Double	F_y / Ω	530	342	239	176	135	107	86	71	60	51	44
		L/240	---	---	---	---	---	---	---	---	---	49	39
		L/180	---	---	---	---	---	---	---	---	---	---	---
	Triple	F_y / Ω	654	424	297	219	168	133	108	89	75	64	55
		L/240	---	---	---	---	165	116	85	64	49	39	31
		L/180	---	---	---	---	---	---	---	85	65	51	41

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

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