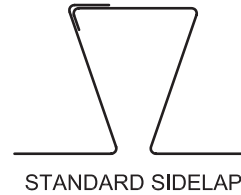
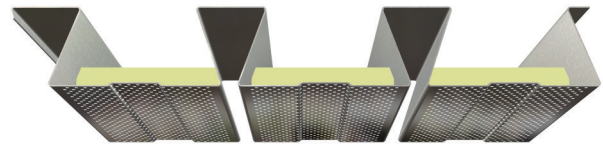
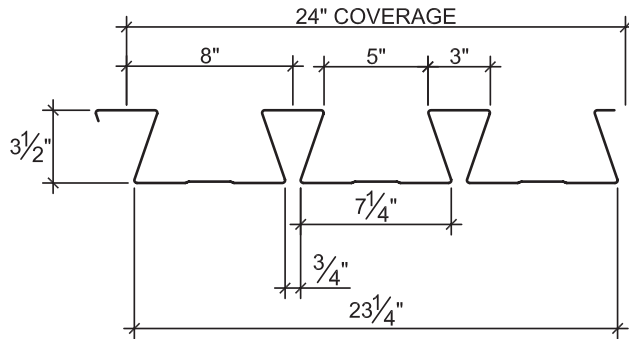


3.5DA ACOUSTICAL DOVETAIL ROOF DECK

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- 3.5" 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)	
20	3.06	0.0358	40	1.531	1.430	0.655	0.657	3434
18	4.06	0.0474	40	2.098	1.950	0.934	0.928	6010
16	5.13	0.0598	40	2.719	2.533	1.255	1.241	8313

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

Deck Gage	Bearing Length of Webs											
	End Bearing						Interior Bearing					
	2"	3"	4"	5"	6"	8"	2"	3"	4"	5"	6"	8"
20	693	794	880	955	1023	1117	1185	1333	1459	1570	1670	1807
18	1168	1330	1467	1588	1697	1890	1989	2224	2422	2596	2753	3033
16	1793	2032	2233	2410	2569	2854	3054	3394	3681	3933	4162	4567

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 or 14 gage
 - Short cuts < 6'-0"
 - Alternative metallic and painted finishes

3.5DA ACOUSTICAL DOVETAIL ROOF DECK

Allowable Uniform Load, W_n/Ω (psf)

Deck Gage	Spans	Criteria	Span (ft.-in.)										
			11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"
20	Single	F_y / Ω	86	72	61	53	46	40	36	32	28	26	23
		L/240	76	58	46	37	30	25	20	17	15	13	11
		L/180	---	---	---	49	40	33	27	23	20	17	14
	Double	F_y / Ω	85	71	61	53	46	40	36	32	28	26	23
		L/240	---	---	---	---	---	---	---	---	---	---	---
		L/180	---	---	---	---	---	---	---	---	---	---	---
	Triple	F_y / Ω	106	89	76	66	57	50	44	40	36	32	29
		L/240	---	---	---	64	52	43	36	30	26	22	19
		L/180	---	---	---	---	---	---	---	---	34	29	25
18	Single	F_y / Ω	123	103	88	76	66	58	51	46	41	37	33
		L/240	103	80	63	50	41	34	28	24	20	17	15
		L/180	---	---	84	67	54	45	37	31	27	23	20
	Double	F_y / Ω	121	102	87	75	65	57	51	45	40	36	33
		L/240	---	---	---	---	---	---	---	---	---	---	---
		L/180	---	---	---	---	---	---	---	---	---	---	---
	Triple	F_y / Ω	150	127	108	93	81	71	63	56	51	46	41
		L/240	---	---	---	88	71	59	49	41	35	30	26
		L/180	---	---	---	---	---	---	---	55	47	40	35
16	Single	F_y / Ω	165	139	118	102	89	78	69	61	55	50	45
		L/240	134	103	81	65	53	44	36	31	26	22	19
		L/180	---	138	108	87	71	58	48	41	35	30	26
	Double	F_y / Ω	162	136	116	100	87	77	68	60	54	49	44
		L/240	---	---	---	---	---	---	---	---	---	---	43
		L/180	---	---	---	---	---	---	---	---	---	---	---
	Triple	F_y / Ω	202	170	145	125	109	96	85	76	68	61	55
		L/240	---	---	143	114	93	77	64	54	46	39	34
		L/180	---	---	---	---	---	---	---	72	61	52	45

Notes:

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

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