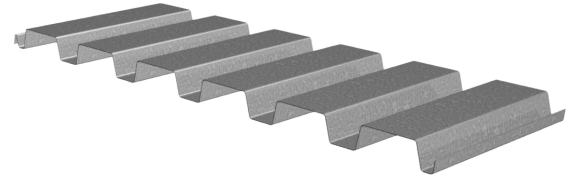


PLB™-36/HSB®-36 ROOF DECKS GRADE 50 STEEL

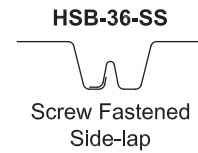
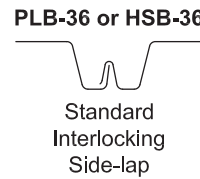
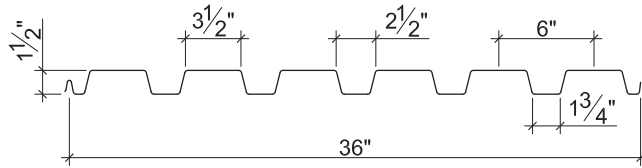
ASD

B ROOF DECKS

- PLB-36 Deck used with PunchLok® II System
- HSB-36 Deck used with TSWs or BPs
- HSB-36-SS Deck used with Side-lap Screws



Nominal Dimensions



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 $F_y = 50$ 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	1.9	0.0299	50	0.178	0.192	0.176	0.188	2688
20	2.3	0.0359	50	0.219	0.231	0.230	0.237	3220
18	2.9	0.0478	50	0.302	0.306	0.314	0.331	4264
16	3.5	0.0598	50	0.381	0.381	0.399	0.410	5302

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

Deck Gage	Bearing Length of Webs											
	One-Flange Loading						Two-Flange Loading					
	End Bearing				Interior Bearing		End Bearing				Interior Bearing	
	1 1/2"	2"	3"	4"	3"	4"	1 1/2"	2"	3"	4"	3"	4"
22	850	934	1075	1163	1558	1670	893	962	1077	1149	1933	2082
20	1188	1301	1492	1609	2189	2339	1316	1413	1575	1675	2743	2946
18	2001	2182	2485	2667	3714	3949	2388	2550	2822	2986	4713	5038
16	3006	3264	3698	3954	5604	5935	3775	4015	4419	4657	7164	7627

Standard Features

- ASTM A653 SS GR50 Min., with G60 or G90, white or gray primer optional
- ASTM A1008 SS GR50 Min. with gray primer
- Standard lengths – 6'-0" to 40'-0"
- IAPMO UES ER-2018, UL, and FM Listed
- Tables conform to ANSI/SDI RD-2017

Optional Features

- Inquire regarding cost and lead times for:
 - Short cuts < 6'-0"
 - Sheet Lengths > 40'-0"
 - Alternative metallic and painted finishes
- Web and Fully Perforated Acoustical Versions
- HSB-30-NS Deck used with Side-lap screws

PLB™-36/HSB®-36 ROOF DECKS GRADE 50 STEEL

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Inward Uniform Allowable Loads, ASD (psf)

Deck Gage	Spans	Criteria	Span (ft-in.)										
			2'-0"	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"
22	Single	W_n / Ω	878	390	219	140	98	72	55	43	35	29	24
		L/240	---	---	182	93	54	34	23	16	12	9	7
	Double	W_n / Ω	860	400	229	148	103	76	58	46	37	31	26
		L/240	---	---	---	---	---	---	---	42	30	23	18
	Triple	W_n / Ω	1039	492	283	184	128	95	73	57	47	39	32
		L/240	---	---	---	---	110	69	46	33	24	18	14
20	Single	W_n / Ω	1147	510	287	184	127	94	72	57	46	38	32
		L/240	---	---	224	115	66	42	28	20	14	11	8
	Double	W_n / Ω	1075	503	288	186	130	96	73	58	47	39	33
		L/240	---	---	---	---	---	---	71	50	36	27	21
	Triple	W_n / Ω	1295	617	356	231	162	119	92	72	59	49	41
		L/240	---	---	---	229	132	83	56	39	29	21	17
18	Single	W_n / Ω	1566	696	392	251	174	128	98	77	63	52	44
		L/240	---	---	309	158	92	58	39	27	20	15	11
	Double	W_n / Ω	1486	699	401	259	181	134	102	81	66	54	46
		L/240	---	---	---	---	---	---	94	66	48	36	28
	Triple	W_n / Ω	1785	856	496	322	225	166	128	101	82	68	57
		L/240	---	---	---	303	175	110	74	52	38	28	22
16	Single	W_n / Ω	1992	885	498	319	221	163	124	98	80	66	55
		L/240	---	---	390	200	116	73	49	34	25	19	14
	Double	W_n / Ω	1842	865	497	321	224	165	127	100	81	67	57
		L/240	---	---	---	---	---	---	118	83	60	45	35
	Triple	W_n / Ω	2213	1060	614	399	279	206	158	125	102	84	71
		L/240	---	---	---	377	218	137	92	65	47	35	27

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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