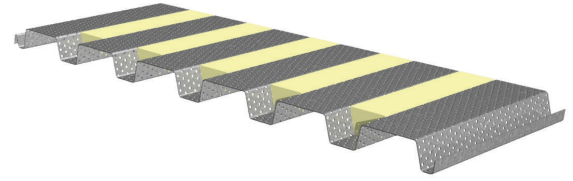


PLB™-36/HSB®-36 FULLY PERFORED ROOF DECKS GRADE 50 STEEL

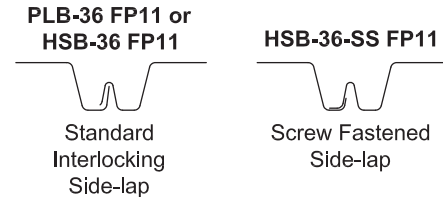
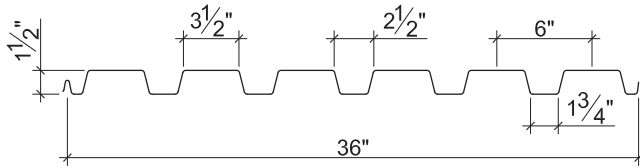
ASD

11% OPEN FULLY PERFORATED B ROOF DECKS

- PLB-36 FP11 Deck used with PunchLok® II System
- HSB-36 FP11 Deck used with TSWs or BPs
- HSB-36-SS FP11 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	1.7	0.0299	50	0.141	0.145	0.098	0.105	1991
20	2.0	0.0359	50	0.173	0.175	0.128	0.132	2385
18	2.6	0.0478	50	0.231	0.231	0.175	0.185	3158
16	3.1	0.0598	50	0.287	0.287	0.223	0.229	3927

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	824	906	1043	1127	1552	1663	844	909	1018	1085	1888	2033
20	1155	1266	1451	1565	2181	2330	1252	1344	1498	1593	2685	2884
18	1955	2131	2427	2605	3702	3936	2291	2446	2708	2865	4628	4947
16	2945	3198	3623	3873	5587	5918	3642	3874	4263	4493	7050	7506

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 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 Perforated Acoustical Versions
- HSB-30-NS FP11 Deck used with Side-lap screws

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

ASD

Inward Uniform Allowable Loads, ASD (psf)

FP11

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	489	217	122	78	54	40	31	24	20	16	14
		L/240	---	---	---	74	43	27	18	13	9	7	5
	Double	W_n / Ω	498	228	129	83	58	43	33	26	21	17	15
		L/240	---	---	---	---	---	---	---	---	---	17	13
	Triple	W_n / Ω	610	282	161	104	72	53	41	32	26	22	18
		L/240	---	---	---	---	---	51	34	24	17	13	10
20	Single	W_n / Ω	638	284	160	102	71	52	40	32	26	21	18
		L/240	---	---	---	91	53	33	22	16	11	9	7
	Double	W_n / Ω	623	285	162	104	73	54	41	32	26	22	18
		L/240	---	---	---	---	---	---	---	---	---	21	16
	Triple	W_n / Ω	761	353	202	130	91	67	51	40	33	27	23
		L/240	---	---	---	---	---	62	42	29	21	16	12
18	Single	W_n / Ω	873	388	218	140	97	71	55	43	35	29	24
		L/240	---	---	---	121	70	44	30	21	15	11	9
	Double	W_n / Ω	867	399	227	146	102	75	57	45	37	30	26
		L/240	---	---	---	---	---	---	---	---	36	27	21
	Triple	W_n / Ω	1057	492	282	182	127	93	72	57	46	38	32
		L/240	---	---	---	---	---	83	56	39	29	21	17
16	Single	W_n / Ω	1113	494	278	178	124	91	70	55	45	37	31
		L/240	---	---	---	151	87	55	37	26	19	14	11
	Double	W_n / Ω	1074	493	281	181	126	93	71	56	46	38	32
		L/240	---	---	---	---	---	---	---	---	45	34	26
	Triple	W_n / Ω	1309	609	349	225	157	116	89	70	57	47	40
		L/240	---	---	---	---	---	104	69	49	36	27	21

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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