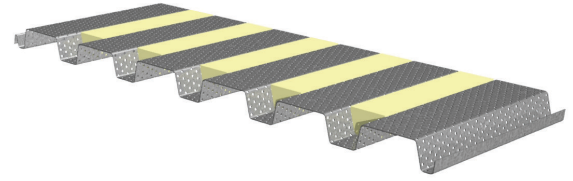


# PLB™-36/HSB®-36 FULLY PERFORED ROOF DECKS GRADE 50 STEEL

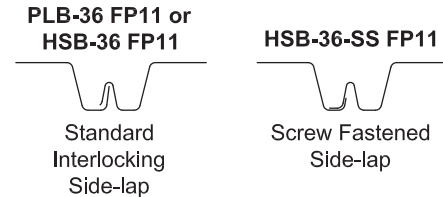
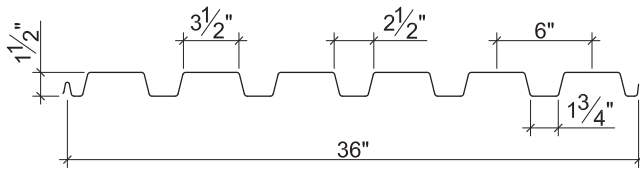
LRFD

## 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 $\phi V_n$ (lb/ft)
				$I_{d+}$ (in <sup>4</sup> /ft)	$I_{d-}$ (in <sup>4</sup> /ft)	$S_{e+}$ (in <sup>3</sup> /ft)	$S_{e-}$ (in <sup>3</sup> /ft)	
22	1.7	0.0299	50	0.141	0.145	0.098	0.105	3026
20	2.0	0.0359	50	0.173	0.175	0.128	0.132	3625
18	2.6	0.0478	50	0.231	0.231	0.175	0.185	4800
16	3.1	0.0598	50	0.287	0.287	0.223	0.229	5969

## Design Reactions at Supports Based on Web Crippling, $\phi R_n$ (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	1261	1386	1595	1725	2308	2474	1291	1390	1557	1660	2808	3024
20	1768	1936	2220	2394	3244	3466	1915	2056	2292	2437	3994	4290
18	2991	3261	3713	3986	5506	5855	3505	3743	4143	4383	6884	7358
16	4505	4893	5543	5926	8311	8802	5572	5927	6523	6874	10487	11165

## 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

LRFD

## Inward Uniform Design Loads, LRFD (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	$\phi W_n$	734	326	184	118	82	60	46	36	29	24	20
		L/240	1155	342	144	74	43	27	18	13	9	7	5
	Double	$\phi W_n$	750	342	195	125	87	64	49	39	31	26	22
		L/240	2862	848	358	183	106	67	45	31	23	17	13
	Triple	$\phi W_n$	918	424	242	156	109	80	61	48	39	32	27
		L/240	2181	646	273	140	81	51	34	24	17	13	10
20	Single	$\phi W_n$	959	426	240	154	107	78	60	47	38	32	27
		L/240	1418	420	177	91	53	33	22	16	11	9	7
	Double	$\phi W_n$	937	429	244	157	109	80	62	49	40	33	27
		L/240	3454	1024	432	221	128	81	54	38	28	21	16
	Triple	$\phi W_n$	1145	531	303	195	136	100	77	61	49	41	34
		L/240	2677	793	335	171	99	62	42	29	21	16	12
18	Single	$\phi W_n$	1312	583	328	210	146	107	82	65	52	43	36
		L/240	1893	561	237	121	70	44	30	21	15	11	9
	Double	$\phi W_n$	1305	600	341	220	153	113	86	68	55	46	38
		L/240	4560	1351	570	292	169	106	71	50	36	27	21
	Triple	$\phi W_n$	1592	741	424	273	191	141	108	85	69	57	48
		L/240	3574	1059	447	229	132	83	56	39	29	21	17
16	Single	$\phi W_n$	1672	743	418	268	186	137	105	83	67	55	46
		L/240	2352	697	294	151	87	55	37	26	19	14	11
	Double	$\phi W_n$	1616	742	423	272	189	139	107	85	69	57	48
		L/240	5665	1679	708	363	210	132	89	62	45	34	26
	Triple	$\phi W_n$	1971	917	525	338	236	174	133	106	86	71	59
		L/240	4440	1316	555	284	164	104	69	49	36	27	21

### Note:

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

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