

1.5BPA/1.5VLP CELLULAR ACOUSTICAL DECKS GRADE 50 STEEL

ASD

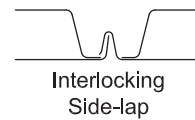
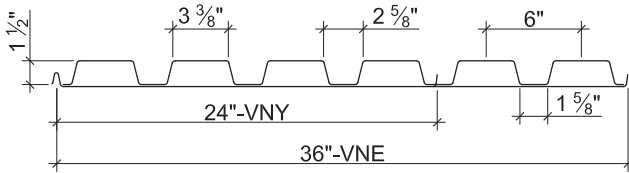
BP CELLULAR ACOUSTICAL ROOF DECK

- 1.5BPA Deck used with TSWs or BPs
- 1.5PLBPA Deck used with PunchLok® II System

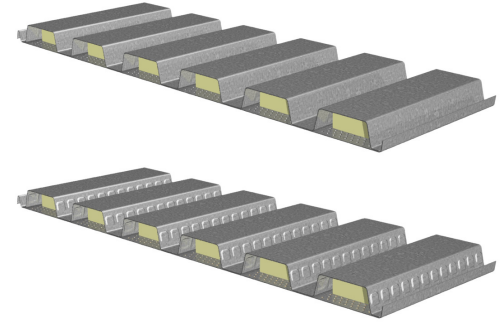
VLP CELLULAR ACOUSTICAL COMPOSITE DECK

- 1.5VPLA Deck used with TSWs or BPs
- 1.5PLVPA Deck used with PunchLok® II System

Nominal Dimensions



Plant	Cover Width
VNY	24"
VNE	36"



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		Allowable Moment		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)	M_{n+}/Ω (lb-ft/ft)	M_{n-}/Ω (lb-ft/ft)	
20/20	3.3	0.0358/0.0358	50	0.380	0.293	0.270	0.240	674	599	3207
20/18	3.8	0.0358/0.0474	50	0.414	0.315	0.277	0.259	691	646	3207
18/20	4.0	0.0474/0.0358	50	0.485	0.369	0.400	0.312	998	778	4209
18/18	4.4	0.0474/0.0474	50	0.530	0.395	0.411	0.330	1025	823	4209
18/16	4.9	0.0474/0.0598	50	0.572	0.407	0.420	0.311	1048	776	4209
16/18	5.1	0.0598/0.0474	50	0.641	0.478	0.571	0.400	1425	998	5261
16/16	5.6	0.0598/0.0598	50	0.692	0.492	0.583	0.380	1455	948	5261

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"
20/XX	1153	1263	1448	1574	2127	2289	1274	1368	1525	1632	2662	2881
18/XX	1931	2105	2398	2588	3586	3831	2297	2454	2716	2887	4546	4884
16/XX	2958	3212	3639	3900	5517	5855	3713	3950	4347	4590	7050	7523

Standard Features

- ASTM A653 SS GR50 Min., with G60
- Standard lengths – 6'-0" to 42'-0"
- IAPMO UES ER-0652, UL, and FM Listed
- Tables conform to ANSI/SDI RD-2017 and C-2017

Optional Features

- Inquire regarding cost and lead times for:
 - Short Cuts < 6'-0"
 - Sheet Lengths > 42'-0"
 - Alternative metallic finishes

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