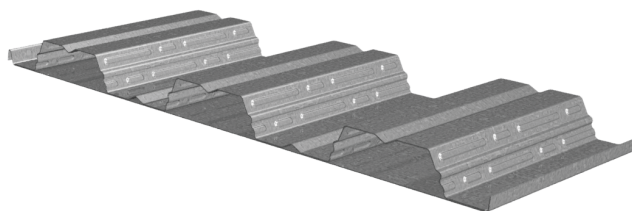


PLW2CD/W2CD CELLULAR DECK GRADE 50 STEEL

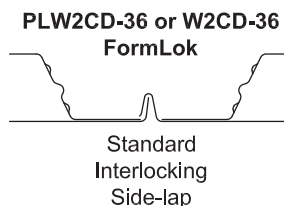
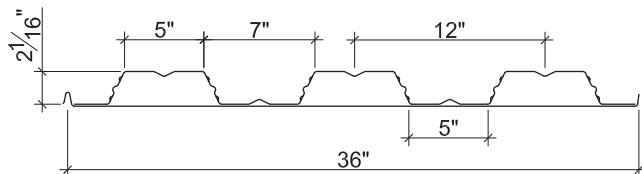
LRFD

W2 CELLULAR FORMLOK® COMPOSITE DECK

- PLW2CD-36 FormLok Deck used with PunchLok® II System
- W2CD-36 FormLok Deck used with TSWs or BPs



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 ϕV_n (lb/ft)	Vertical Shear ϕV_n	
				I_{d+} (in ⁴ /ft)	I_{d-} (in ⁴ /ft)	S_{e+} (in ³ /ft)	S_{e-} (in ³ /ft)		End (lb/ft)	Interior (lb/ft)
20/20	3.4	0.036/0.0359	50	0.667	0.561	0.363	0.429	3715	617	938
20/18	3.8	0.036/0.0478	50	0.713	0.615	0.372	0.446	3715	575	662
18/20	3.9	0.047/0.0359	50	0.847	0.695	0.526	0.549	4900	671	1153
18/18	4.3	0.047/0.0478	50	0.911	0.756	0.536	0.570	4900	910	1132
18/16	4.8	0.047/0.0598	50	0.964	0.850	0.544	0.586	4900	858	987
16/18	4.9	0.059/0.0478	50	1.087	0.905	0.704	0.702	6132	974	1323
16/16	5.4	0.059/0.0598	50	1.153	0.973	0.714	0.722	6132	1269	1450

Design Reactions at Supports Based on Web Crippling, ϕR_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"	4"	6"	1 1/2"	2"	3"	4"	4"	6"
20/XX	805	882	1011	1120	1649	1887	857	920	1025	1114	2016	2328
18/XX	1319	1439	1639	1808	2689	3058	1515	1619	1793	1939	3342	3838
16/XX	2005	2177	2468	2712	4071	4604	2439	2595	2857	3078	5116	5844

Standard Features

- ASTM A653 SS GR50 Min., with G60
- Standard lengths – 7'-6" to 30'-0"
- IAPMO UES ER-2018 and UL Listed
- Tables conform to ANSI/SDI RD-2017 and C-2017

Optional Features

- Inquire regarding cost and lead times for:
 - Sheet Lengths > 30'-0"
 - Alternative metallic finishes
- Cellular Acoustical Versions

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