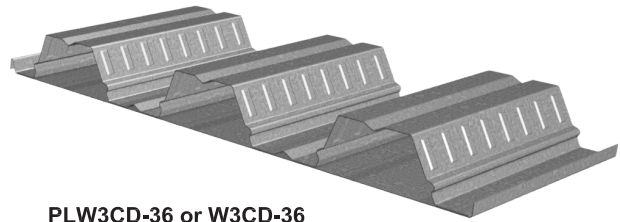


PLW3CD/W3CD CELLULAR DECK GRADE 50 STEEL

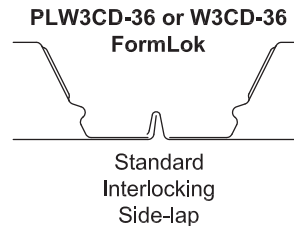
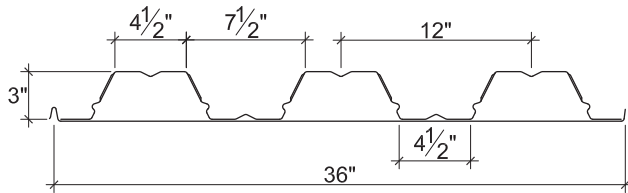
LRFD

W3 CELLULAR FORMLOK® COMPOSITE DECK

- PLW3CD-36 FormLok Deck used with PunchLok® II System
- W3CD-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	3.6	0.0359/0.0359	50	1.455	1.185	0.542	0.625	3587	872	1392
20/18	4.0	0.0359/0.0478	50	1.554	1.296	0.541	0.652	3587	806	942
18/20	4.1	0.0478/0.0359	50	1.813	1.492	0.852	0.813	6515	960	1789
18/18	4.6	0.0478/0.0478	50	1.949	1.618	0.862	0.846	6515	1327	1748
18/16	5.0	0.0478/0.0598	50	2.062	1.813	0.859	0.874	6515	1246	1460
16/18	5.2	0.0598/0.0478	50	2.316	1.931	1.105	1.037	9422	1427	2069
16/16	5.7	0.0598/0.0598	50	2.453	2.073	1.123	1.073	9422	1842	2148

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"	8"	1 1/2"	2"	3"	4"	4"	8"
20/XX	754	827	947	1049	1622	2010	763	819	913	992	1914	2405
18/XX	1293	1410	1606	1771	2744	3436	1435	1532	1696	1834	3315	4218
16/XX	1966	2135	2419	2658	4134	5130	2321	2469	2718	2927	5066	6392

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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