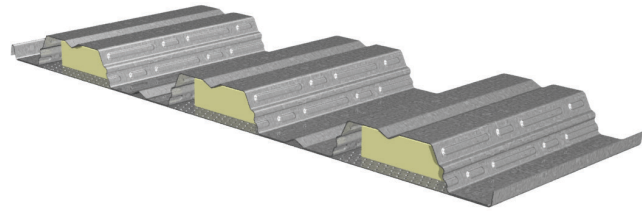


PLW2CD/W2CD CELLULAR ACOUSTICAL DECK GRADE 50 STEEL

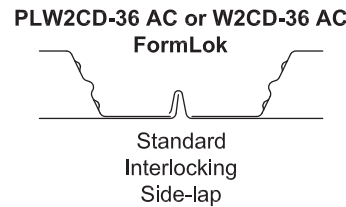
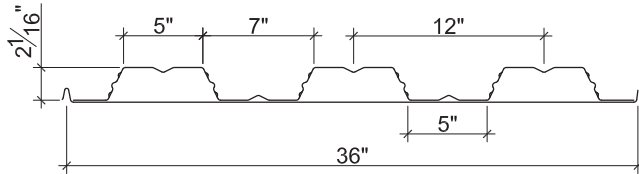
ASD

W2 CELLULAR ACOUSTICAL FORMLOK® COMPOSITE DECK

- PLW2CD-36 AC FormLok Deck used with PunchLok® II System
- W2CD-36 AC 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 V_n/Ω (lb/ft)	Vertical Shear V_n/Ω	
				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	0.653	0.531	0.363	0.420	2444	414	776
20/18	3.8	0.036/0.0478	50	0.700	0.580	0.370	0.439	2444	385	470
18/20	3.9	0.047/0.0359	50	0.830	0.662	0.524	0.539	3224	453	985
18/18	4.3	0.047/0.0478	50	0.892	0.717	0.534	0.561	3224	611	844
18/16	4.8	0.047/0.0598	50	0.945	0.775	0.542	0.579	3224	574	643
16/18	4.9	0.059/0.0478	50	1.065	0.863	0.700	0.690	4034	657	1028
16/16	5.4	0.059/0.0598	50	1.129	0.926	0.711	0.712	4034	853	1026

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"	4"	6"	1 1/2"	2"	3"	4"	4"	6"
20/XX	526	577	661	732	1109	1268	560	601	670	728	1355	1565
18/XX	862	940	1071	1182	1808	2056	990	1058	1172	1267	2247	2580
16/XX	1310	1423	1613	1773	2737	3095	1594	1696	1867	2011	3439	3929

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

NOTICE: Design defects that could cause injury or death may result from relying on the information in this document without independent verification by a qualified professional. The information in this document is provided "AS IS". Nucor Corporation and its affiliates expressly disclaim: (i) any and all representations, warranties and conditions and (ii) all liability arising out of or related to this document and the information in it.