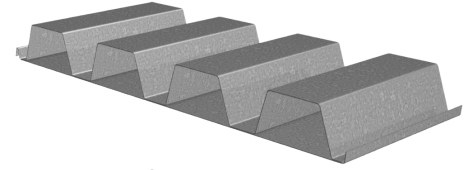


PLN3CD/HSN3CD/N3CD CELLULAR DECK GRADE 50 STEEL

LRFD

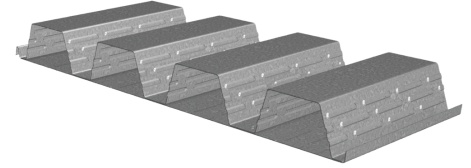
N3 CELLULAR ROOF DECK

- PLN3CD-32 Deck used with PunchLok® II System
- HSN3CD-32 Deck used with TSWs or BPs

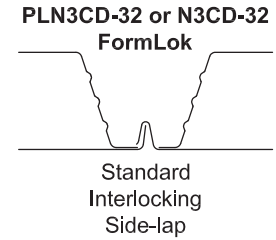
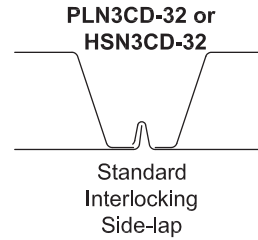
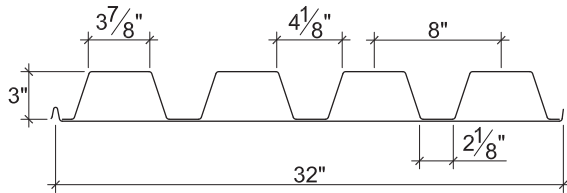


N3 CELLULAR FORMLOK® COMPOSITE DECK

- PLN3CD-32 FormLok Deck used with PunchLok® II System
- N3CD-32 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	3.9	0.0359/0.0359	50	1.579	1.353	0.505	0.709	5821	807	1811
20/18	4.4	0.0359/0.0478	50	1.716	1.550	0.503	0.801	5821	747	1141
18/20	4.6	0.0478/0.0359	50	2.017	1.684	0.804	0.869	10371	885	2196
18/18	5.1	0.0478/0.0478	50	2.194	1.897	0.824	1.030	10371	1227	2178
18/16	5.7	0.0478/0.0598	50	2.346	2.149	0.829	1.077	10371	1154	1689
16/18	5.9	0.0598/0.0478	50	2.652	2.236	1.107	1.210	13843	1316	2573
16/16	6.4	0.0598/0.0598	50	2.838	2.505	1.129	1.314	13843	1703	2649

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	1215	1331	1525	1690	2584	3203	1241	1332	1485	1614	3072	3861
18/XX	2079	2266	2581	2846	4374	5476	2325	2484	2749	2973	5315	6763
16/XX	3155	3427	3882	4266	6586	8173	3752	3992	4393	4731	8115	10239

Standard Features

- ASTM A653 SS GR50 Min., with G60
- Standard lengths – 7'-6" to 30'-0"
- IAPMO UES ER-2018, UL, and FM 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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