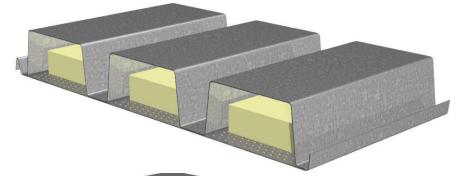


PLNCD/NCD CELLULAR ACOUSTICAL DECK GRADE 50 STEEL

ASD

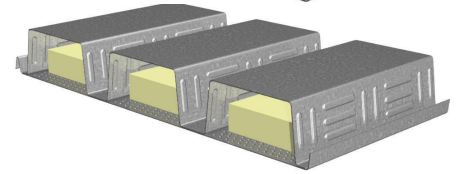
N-24 CELLULAR ACOUSTICAL ROOF DECK

- PLNCD-24 AC Deck used with PunchLok® II System
- NCD-24 AC Deck used with TSWs or BPs

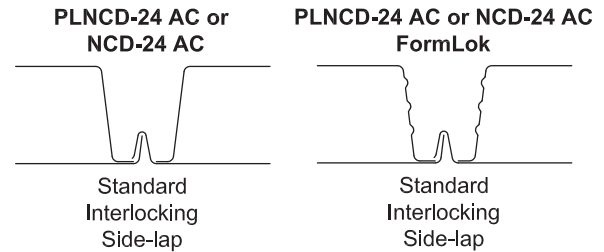
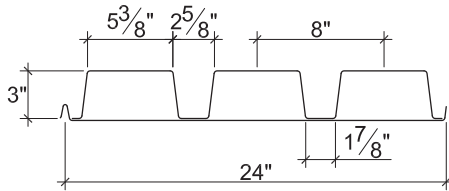


N-24 CELLULAR ACOUSTICAL FORMLOK® COMPOSITE DECK

- PLNCD-24 AC FormLok Deck used with PunchLok® II System
- NCD-24 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	Interior
20/20	4.1	0.0359/0.0359	50	1.626	1.495	0.519	0.706	4011	574	1110
20/18	4.6	0.0359/0.0478	50	1.784	1.728	0.516	0.909	4011	533	821
18/20	4.8	0.0478/0.0359	50	2.090	1.838	0.798	0.852	7087	629	1324
18/18	5.3	0.0478/0.0478	50	2.293	2.105	0.819	1.055	7087	874	1434
18/16	5.8	0.0478/0.0598	50	2.465	2.385	0.836	1.318	7087	824	1157
16/18	6.1	0.0598/0.0478	50	2.786	2.459	1.111	1.199	8835	935	1616
16/16	6.6	0.0598/0.0598	50	3.005	2.774	1.134	1.475	8835	1213	1769

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"	8"	1 1/2"	2"	3"	4"	4"	8"
20/XX	840	921	1055	1169	1822	2259	867	931	1038	1128	2181	2741
18/XX	1436	1566	1783	1966	3084	3859	1619	1729	1914	2070	3769	4792
16/XX	2179	2367	2681	2946	4647	5757	2609	2775	3054	3289	5754	7247

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

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