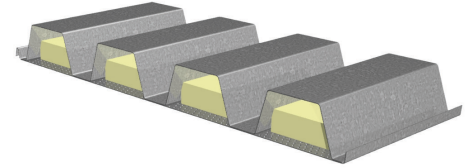


PLN3CD/HSN3CD/N3CD CELLULAR ACOUSTICAL DECK GRADE 50 STEEL

ASD

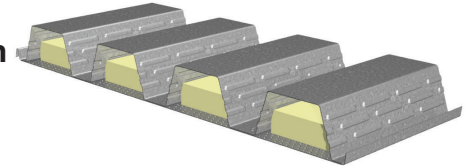
N3 CELLULAR ACOUSTICAL ROOF DECK

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

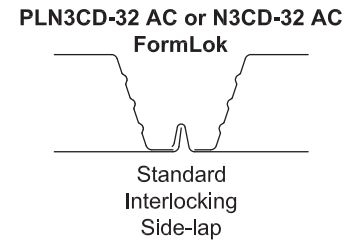
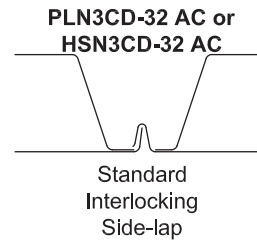
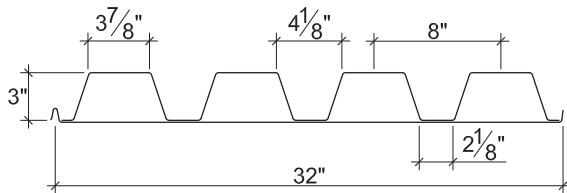


N3 CELLULAR ACOUSTICAL FORMLOK® COMPOSITE DECK

- PLN3CD-32 AC FormLok Deck used with PunchLok® II System
- N3CD-32 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	3.9	0.0359/0.0359	50	1.530	1.335	0.507	0.709	3829	546	1186
20/18	4.4	0.0359/0.0478	50	1.664	1.532	0.505	0.801	3829	502	747
18/20	4.6	0.0478/0.0359	50	1.955	1.662	0.796	0.869	6823	603	1438
18/18	5.1	0.0478/0.0478	50	2.127	1.873	0.817	1.030	6823	830	1426
18/16	5.7	0.0478/0.0598	50	2.273	2.124	0.832	1.077	6823	777	1106
16/18	5.9	0.0598/0.0478	50	2.569	2.208	1.096	1.210	9108	895	1684
16/16	6.4	0.0598/0.0598	50	2.749	2.475	1.119	1.314	9108	1152	1734

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	794	870	997	1104	1737	2153	811	871	971	1055	2065	2596
18/XX	1359	1481	1687	1860	2940	3682	1520	1623	1797	1943	3573	4547
16/XX	2062	2240	2537	2788	4428	5495	2453	2609	2871	3092	5455	6883

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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