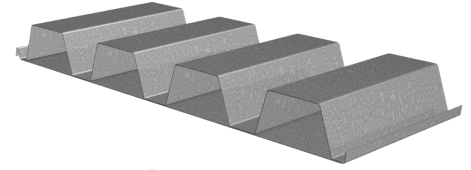


# PLN3CD/HSN3CD/N3CD CELLULAR DECK GRADE 50 STEEL

ASD

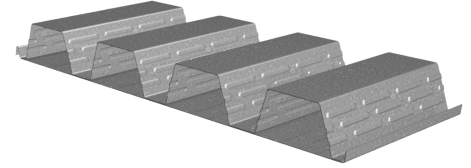
## N3 CELLULAR ROOF DECK

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

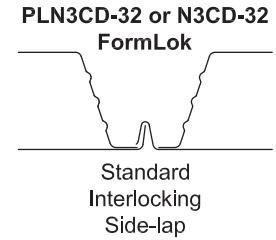
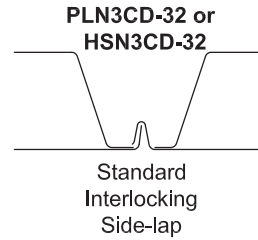
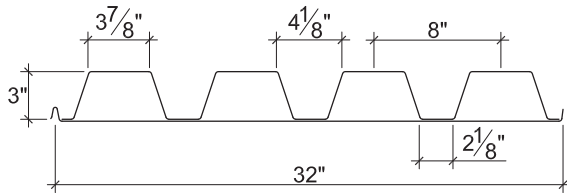


## N3 CELLULAR FORMLOK® COMPOSITE DECK

- 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 $V_n/\Omega$ (lb/ft)	Vertical Shear $V_n/\Omega$	
				$I_{d+}$ (in <sup>4</sup> /ft)	$I_{d-}$ (in <sup>4</sup> /ft)	$S_{e+}$ (in <sup>3</sup> /ft)	$S_{e-}$ (in <sup>3</sup> /ft)		End	Interior
20/20	3.9	0.0359/0.0359	50	1.579	1.353	0.505	0.709	3829	528	1186
20/18	4.4	0.0359/0.0478	50	1.716	1.550	0.503	0.801	3829	489	747
18/20	4.6	0.0478/0.0359	50	2.017	1.684	0.804	0.869	6823	579	1438
18/18	5.1	0.0478/0.0478	50	2.194	1.897	0.824	1.030	6823	803	1426
18/16	5.7	0.0478/0.0598	50	2.346	2.149	0.829	1.077	6823	756	1106
16/18	5.9	0.0598/0.0478	50	2.652	2.236	1.107	1.210	9108	862	1684
16/16	6.4	0.0598/0.0598	50	2.838	2.505	1.129	1.314	9108	1115	1734

## Allowable Reactions at Supports Based on Web Crippling, $R_n/\Omega$ (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
- Cellular Acoustical Versions

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