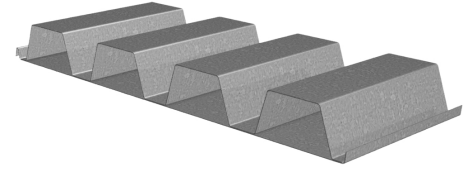


3NP-32/3PLNP-32 CELLULAR DECK GRADE 50 STEEL

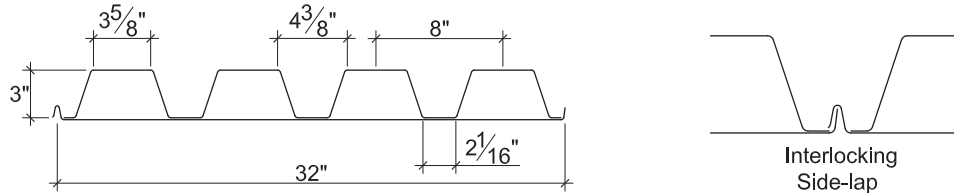
ASD

32" WIDE 3NP CELLULAR ROOF DECK

- 3NP-32 Deck used with TSWs or BPs
- 3PLNP-32 Deck used with PunchLok® II System



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		Allowable Moment		Vertical Web Shear V_n/Ω (lb/ft)
				I_{d+} (in ⁴ /ft)	I_{d-} (in ⁴ /ft)	S_{e+} (in ³ /ft)	S_{e-} (in ³ /ft)	M_{n+}/Ω (lb-ft/ft)	M_{n-}/Ω (lb-ft/ft)	
20/20	3.7	0.0358/0.0358	50	1.519	1.153	0.496	0.492	1238	1228	3761
20/18	4.2	0.0358/0.0474	50	1.645	1.248	0.523	0.552	1305	1377	3761
18/20	4.4	0.0474/0.0358	50	1.931	1.460	0.786	0.674	1961	1682	6598
18/18	4.9	0.0474/0.0474	50	2.094	1.568	0.806	0.733	2011	1829	6598
18/16	5.5	0.0474/0.0598	50	2.243	1.699	0.806	0.822	2011	2051	6598
16/18	5.7	0.0598/0.0474	50	2.549	1.901	1.093	0.901	2727	2248	9064
16/16	6.2	0.0598/0.0598	50	2.732	2.046	1.116	0.998	2784	2490	9064

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	774	848	972	1077	1697	2101	788	846	944	1026	2014	2529
18/XX	1313	1432	1631	1799	2847	3565	1464	1563	1731	1872	3454	4397
16/XX	2031	2206	2499	2746	4365	5416	2414	2568	2826	3043	5374	6781

Standard Features

- ASTM A653 SS GR50 Min., with G60
- Standard lengths – 6'-0" to 42'-0"
- IAPMO UES ER-0652 and FM Listed
- Tables conform to ANSI/SDI RD-2017

Optional Features

- Inquire regarding cost and lead times for:
 - Short Cuts < 6'-0"
 - Sheet Lengths > 42'-0"
 - Alternative metallic finishes
- Cellular Acoustical Versions

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