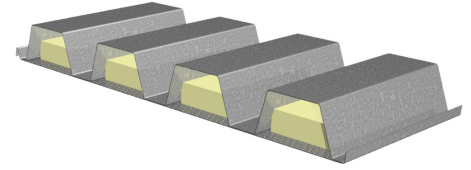


# 3NPA-32/3PLNPA-32 CELLULAR ACOUSTICAL DECK GRADE 50 STEEL

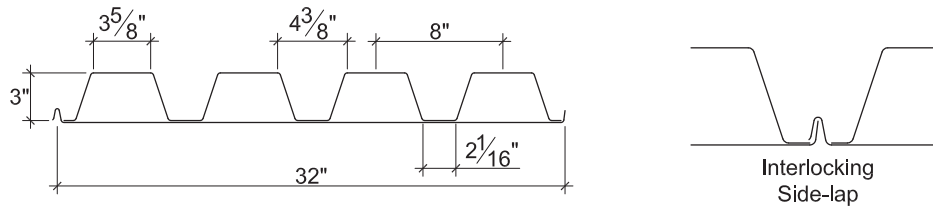
ASD

## 32" WIDE 3NPA CELLULAR ACOUSTICAL ROOF DECK

- 3NPA-32 Deck used with TSWs or BPs
- 3PLNPA-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 $V_n/\Omega$ (lb/ft)
				$I_{d+}$ (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)	$M_{n+}/\Omega$ (lb-ft/ft)	$M_{n-}/\Omega$ (lb-ft/ft)	
20/20	3.6	0.0358/0.0358	50	1.458	1.152	0.491	0.492	1225	1228	3761
20/18	4.0	0.0358/0.0474	50	1.578	1.247	0.504	0.552	1257	1377	3761
18/20	4.3	0.0474/0.0358	50	1.851	1.459	0.775	0.674	1934	1682	6598
18/18	4.7	0.0474/0.0474	50	2.007	1.567	0.795	0.733	1984	1829	6598
18/16	5.2	0.0474/0.0598	50	2.151	1.636	0.797	0.745	1989	1859	6598
16/18	5.5	0.0598/0.0474	50	2.439	1.900	1.078	0.901	2690	2248	9064
16/16	6.0	0.0598/0.0598	50	2.613	1.980	1.101	0.908	2747	2265	9064

## 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	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

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