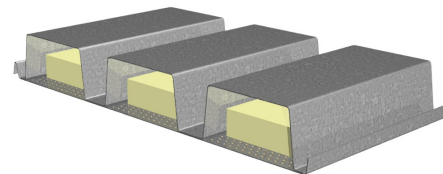


# 3NPA-24 CELLULAR ACOUSTICAL DECK GRADE 40 STEEL

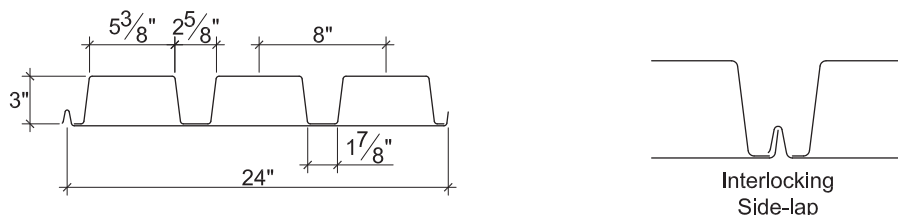
ASD

## 24" WIDE 3NP CELLULAR ACOUSTICAL ROOF DECK

- 3NPA-24 Deck used with TSWs or BPs
- 3NPLPA-24 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 $F_y = 40$ 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	3.8	0.0358/0.0358	40	1.684	1.419	0.522	0.543	1042	1084	3589
20/18	4.3	0.0358/0.0474	40	1.834	1.563	0.537	0.628	1072	1253	3589
18/20	4.6	0.0474/0.0358	40	2.151	1.773	0.809	0.707	1615	1411	5738
18/18	5.0	0.0474/0.0474	40	2.351	1.937	0.829	0.791	1655	1579	5738
18/16	5.6	0.0474/0.0598	40	2.532	2.035	0.847	0.797	1691	1591	5738
16/18	5.9	0.0598/0.0474	40	2.883	2.321	1.139	0.952	2273	1900	7204
16/16	6.4	0.0598/0.0598	40	3.111	2.434	1.163	0.955	2321	1906	7204

## 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	667	731	838	928	1451	1796	686	737	821	893	1733	2176
18/XX	1130	1233	1404	1548	2433	3047	1269	1355	1501	1623	2967	3777
16/XX	1745	1895	2147	2359	3726	4624	1745	1895	2147	2359	3726	5816

## Standard Features

- ASTM A653 SS GR40 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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