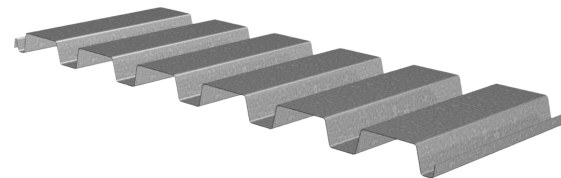


# PLB™-36/HSB®-36 ROOF DECKS GRADE 50 STEEL

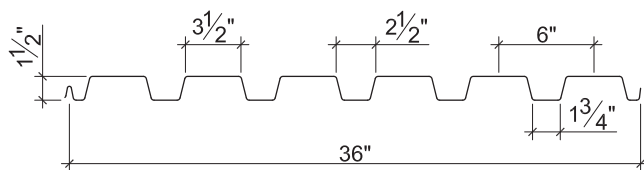
ASD

## B ROOF DECKS

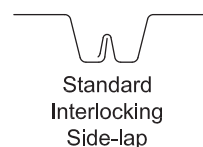
- PLB-36 Deck used with PunchLok® II System
- HSB-36 Deck used with TSWs or BPs
- HSB-36-SS Deck used with Side-lap Screws



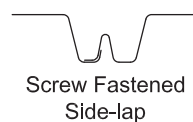
## Nominal Dimensions



PLB-36 or HSB-36



HSB-36-SS



## 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)
				$I_{d+}$ (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)	
22	1.9	0.0299	50	0.178	0.192	0.176	0.188	2688
20	2.3	0.0359	50	0.219	0.231	0.230	0.237	3220
18	2.9	0.0478	50	0.302	0.306	0.314	0.331	4264
16	3.5	0.0598	50	0.381	0.381	0.399	0.410	5302

## 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"	3"	4"	1 1/2"	2"	3"	4"	3"	4"
22	850	934	1075	1163	1558	1670	893	962	1077	1149	1933	2082
20	1188	1301	1492	1609	2189	2339	1316	1413	1575	1675	2743	2946
18	2001	2182	2485	2667	3714	3949	2388	2550	2822	2986	4713	5038
16	3006	3264	3698	3954	5604	5935	3775	4015	4419	4657	7164	7627

## Standard Features

- ASTM A653 SS GR50 Min., with G60 or G90, white or gray primer optional
- ASTM A1008 SS GR50 Min. with gray primer
- Standard lengths – 6'-0" to 40'-0"
- IAPMO UES ER-2018, UL, 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 > 40'-0"
  - Alternative metallic and painted finishes
- Web and Fully Perforated Acoustical Versions
- HSB-30-NS Deck used with Side-lap screws

# PLB™-36/HSB®-36 ROOF DECKS

## GRADE 50 STEEL

ASD

### Inward Uniform Allowable Loads, ASD (psf)

Deck Gage	Spans	Criteria	Span (ft-in.)										
			2'-0"	3'-0"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"
22	Single	$W_n / \Omega$	878	390	219	140	98	72	55	43	35	29	24
		L/240	---	---	182	93	54	34	23	16	12	9	7
	Double	$W_n / \Omega$	860	400	229	148	103	76	58	46	37	31	26
		L/240	---	---	---	---	---	---	---	42	30	23	18
	Triple	$W_n / \Omega$	1039	492	283	184	128	95	73	57	47	39	32
		L/240	---	---	---	---	110	69	46	33	24	18	14
20	Single	$W_n / \Omega$	1147	510	287	184	127	94	72	57	46	38	32
		L/240	---	---	224	115	66	42	28	20	14	11	8
	Double	$W_n / \Omega$	1075	503	288	186	130	96	73	58	47	39	33
		L/240	---	---	---	---	---	---	71	50	36	27	21
	Triple	$W_n / \Omega$	1295	617	356	231	162	119	92	72	59	49	41
		L/240	---	---	---	229	132	83	56	39	29	21	17
18	Single	$W_n / \Omega$	1566	696	392	251	174	128	98	77	63	52	44
		L/240	---	---	309	158	92	58	39	27	20	15	11
	Double	$W_n / \Omega$	1486	699	401	259	181	134	102	81	66	54	46
		L/240	---	---	---	---	---	---	94	66	48	36	28
	Triple	$W_n / \Omega$	1785	856	496	322	225	166	128	101	82	68	57
		L/240	---	---	---	303	175	110	74	52	38	28	22
16	Single	$W_n / \Omega$	1992	885	498	319	221	163	124	98	80	66	55
		L/240	---	---	390	200	116	73	49	34	25	19	14
	Double	$W_n / \Omega$	1842	865	497	321	224	165	127	100	81	67	57
		L/240	---	---	---	---	---	---	118	83	60	45	35
	Triple	$W_n / \Omega$	2213	1060	614	399	279	206	158	125	102	84	71
		L/240	---	---	---	377	218	137	92	65	47	35	27

#### Notes:

1. Table does not account for web crippling. Required bearing should be determined based on specific span conditions.
2. The symbol "—" indicates that the uniform allowable load based on deflection exceeds the allowable load based on stress.

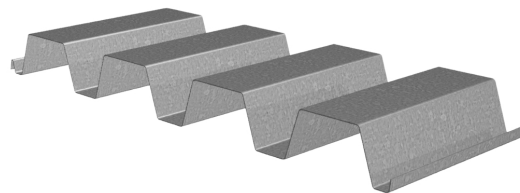
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# PLN3™-32/HSN3™-32 ROOF DECKS GRADE 50 STEEL

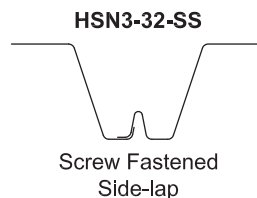
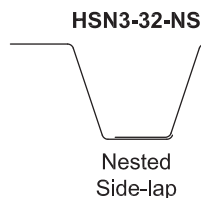
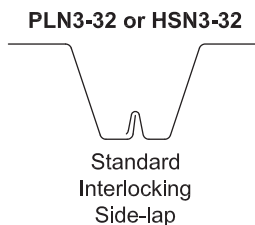
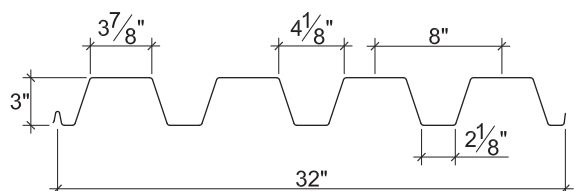
ASD

## N3 ROOF DECKS

- PLN3-32 Deck used with PunchLok® II System
- HSN3-32 Deck used with TSWs or BPs
- HSN3-32-NS Deck used with Side-lap Screws
- HSN3-32-SS Deck used with Side-lap Screws



## 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)
				$I_{d+}$ (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)	
22	2.0	0.0299	50	0.721	0.785	0.353	0.405	2346
20	2.4	0.0359	50	0.890	0.953	0.452	0.509	3829
18	3.1	0.0478	50	1.229	1.273	0.671	0.722	6823
16	3.9	0.0598	50	1.570	1.587	0.883	0.932	9108

## 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"
22	562	617	711	789	1239	1447	537	578	648	706	1448	1707
20	794	870	997	1104	1737	2153	811	871	971	1055	2065	2596
18	1359	1481	1687	1860	2940	3682	1520	1623	1797	1943	3573	4547
16	2062	2240	2537	2788	4428	5495	2453	2609	2871	3092	5455	6883

## Standard Features

- ASTM A653 SS GR50 Min., with G60 or G90, white or gray primer optional
- ASTM A1008 SS GR50 Min. with gray primer
- Standard lengths – 6'-0" to 40'-0"
- IAPMO UES ER-2018, UL, 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 > 40'-0"
  - Alternative metallic and painted finishes
- Web and Fully Perforated Acoustical Versions

# PLN3™-32/HSN3™-32 ROOF DECKS

## GRADE 50 STEEL

ASD

### Inward Uniform Allowable Loads, ASD (psf)

Deck Gage	Spans	Criteria	Span (ft-in.)										
			4'-0"	6'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"
22	Single	$W_n / \Omega$	440	196	110	87	70	58	49	36	28	22	18
		$L/240$	---	---	92	65	47	36	27	17	12	8	6
	Double	$W_n / \Omega$	445	211	122	97	79	66	55	41	31	25	20
		$L/240$	---	---	---	---	---	---	---	---	30	21	15
	Triple	$W_n / \Omega$	531	258	150	120	98	81	69	51			
		$L/240$	---	---	---	---	97	73	56	35			
20	Single	$W_n / \Omega$	564	251	141	111	90	75	63	46	35	28	23
		$L/240$	---	---	114	80	58	44	34	21	14	10	7
	Double	$W_n / \Omega$	587	272	155	123	100	83	70	51	39	31	25
		$L/240$	---	---	---	---	---	---	---	---	37	26	19
	Triple	$W_n / \Omega$	711	335	193	153	125	103	87	64			
		$L/240$	---	---	---	---	118	89	68	43			
18	Single	$W_n / \Omega$	837	372	209	165	134	111	93	68	52	41	33
		$L/240$	---	---	157	111	81	61	47	29	20	14	10
	Double	$W_n / \Omega$	855	391	222	176	143	118	99	73	56	44	36
		$L/240$	---	---	---	---	---	---	---	---	49	34	25
	Triple	$W_n / \Omega$	1047	484	276	219	178	147	124	91			
		$L/240$	---	---	---	216	158	118	91	57			
16	Single	$W_n / \Omega$	1101	490	275	218	176	146	122	90	69	54	44
		$L/240$	---	476	201	141	103	77	60	38	25	18	13
	Double	$W_n / \Omega$	1108	505	287	227	185	153	128	95	72	57	46
		$L/240$	---	---	---	---	---	---	---	91	61	43	31
	Triple	$W_n / \Omega$	1357	626	357	283	230	190	160	118			
		$L/240$	---	---	---	269	196	148	114	72			

#### Notes:

1. Table does not account for web crippling. Required bearing should be determined based on specific span conditions.
2. The symbol "—" indicates that the uniform allowable load based on deflection exceeds the allowable load based on stress.

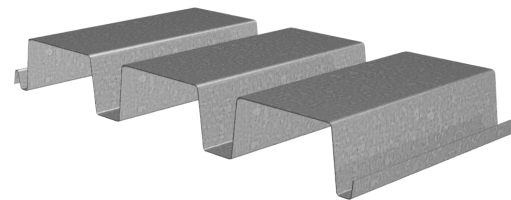
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# PLN™-24/N-24 ROOF DECKS GRADE 50 STEEL

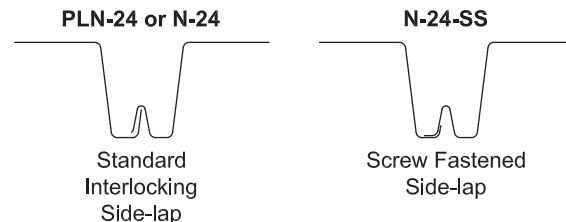
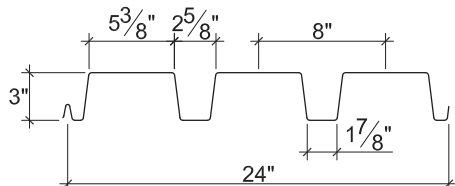
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## N-24 ROOF DECKS

- PLN-24 Deck used with PunchLok® II System
- N-24 Deck used with TSWs or BPs
- N-24-SS Deck used with Side-lap Screws



## 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)
				$I_{d+}$ (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)	
22	2.2	0.0299	50	0.733	0.857	0.344	0.429	2648
20	2.6	0.0359	50	0.907	1.031	0.443	0.531	4011
18	3.5	0.0478	50	1.267	1.369	0.652	0.735	7087
16	4.2	0.0598	50	1.642	1.706	0.837	0.914	8835

## 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"
22	595	654	753	836	1299	1517	575	620	694	757	1530	1803
20	840	921	1055	1169	1822	2259	867	931	1038	1128	2181	2741
18	1436	1566	1783	1966	3084	3859	1619	1729	1914	2070	3769	4792
16	2179	2367	2681	2946	4647	5757	2609	2775	3054	3289	5754	7247

## Standard Features

- ASTM A653 SS GR50 Min., with G60 or G90, white or gray primer optional
- ASTM A1008 SS GR50 Min. with gray primer
- Standard lengths – 6'-0" to 40'-0"
- IAPMO UES ER-2018, UL, 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 > 40'-0"
  - Alternative metallic and painted finishes
- Web and Fully Perforated Acoustical Versions

# PLN™-24/N-24 ROOF DECKS

## GRADE 50 STEEL

ASD

### Inward Uniform Allowable Loads, ASD (psf)

Deck Gage	Spans	Criteria	Span (ft-in.)										
			4'-0"	6'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"
22	Single	$W_n / \Omega$	429	191	107	85	69	57	48	35	27	21	17
		$L/240$	---	---	94	66	48	36	28	18	12	8	6
	Double	$W_n / \Omega$	478	225	130	103	84	70	59	43	33	26	21
		$L/240$	---	---	---	---	---	---	---	---	33	23	17
	Triple	$W_n / \Omega$	572	276	160	128	104	86	73	54			
		$L/240$	---	---	---	---	---	80	61	39			
20	Single	$W_n / \Omega$	553	246	138	109	88	73	61	45	35	27	22
		$L/240$	---	---	116	82	59	45	34	22	15	10	7
	Double	$W_n / \Omega$	612	284	162	129	105	87	73	54	41	33	26
		$L/240$	---	---	---	---	---	---	---	---	40	28	20
	Triple	$W_n / \Omega$	742	350	201	160	130	108	91	67			
		$L/240$	---	---	---	---	128	96	74	47			
18	Single	$W_n / \Omega$	813	362	203	161	130	108	90	66	51	40	33
		$L/240$	---	---	162	114	83	62	48	30	20	14	10
	Double	$W_n / \Omega$	873	398	226	179	146	120	101	75	57	45	37
		$L/240$	---	---	---	---	---	---	---	---	53	37	27
	Triple	$W_n / \Omega$	1069	493	281	223	181	150	126	93			
		$L/240$	---	---	---	---	169	127	98	62			
16	Single	$W_n / \Omega$	1044	464	261	206	167	138	116	85	65	52	42
		$L/240$	---	---	210	148	108	81	62	39	26	18	13
	Double	$W_n / \Omega$	1085	495	281	223	181	150	126	93	71	56	46
		$L/240$	---	---	---	---	---	---	---	---	66	46	34
	Triple	$W_n / \Omega$	1329	613	350	277	225	187	157	116			
		$L/240$	---	---	---	---	211	159	122	77			

#### Notes:

1. Table does not account for web crippling. Required bearing should be determined based on specific span conditions.
2. The symbol "---" indicates that the uniform allowable load based on deflection exceeds the allowable load based on stress.

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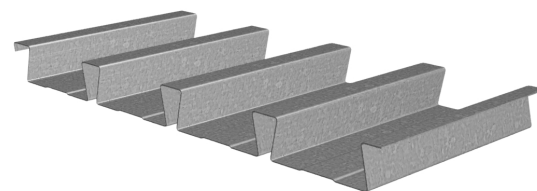


# 2.0D DOVETAIL ROOF DECK GRADE 40 STEEL

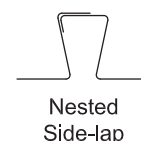
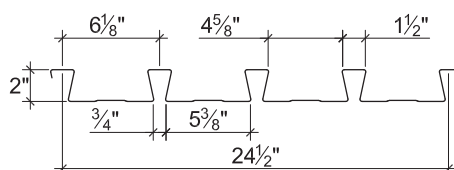
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## 2.0D DOVETAIL ROOF DECK

- Enhanced 2-Coat Polyester Paint
- White Factory Primer Paint
- Galvanized Finish
- FM Listed



## 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)	
22	2.1	0.0295	40	0.387	0.359	0.272	0.272	543	543	2896
20	2.6	0.0358	40	0.472	0.447	0.343	0.334	684	666	3498
18	3.4	0.0474	40	0.626	0.612	0.463	0.450	924	898	4584
16	4.3	0.0598	40	0.792	0.791	0.587	0.576	1172	1150	5723

## 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"	3"	5"	1 1/2"	2"	3"	4"	3"	5"
22	653	717	826	917	1281	1516	702	757	848	925	1567	1877
20	931	1020	1170	1296	1823	2146	1058	1136	1266	1376	2258	2690
18	1556	1697	1933	2132	3036	3544	1893	2023	2239	2422	3813	4507
16	2378	2582	2926	3215	4629	5360	3043	3237	3563	3837	5866	6880

## Standard Features

- ASTM A653 SS GR 40 Min. with G90
- Standard lengths – 6'-0" to 42'-0"
- Tables conform to ANSI/SDI RD-2017
- IAPMO UES ER-423, FM and UL Listed

## Optional Features

- Inquire regarding cost and lead times for:
  - 19 gage
  - Short cuts < 6'-0"
  - Alternative metallic and painted finishes
- Acoustical Version

# 2.0D DOVETAIL ROOF DECK GRADE 40 STEEL

ASD

## Inward Uniform Allowable Loads, ASD (psf)

Deck Gage	Spans	Criteria	Span (ft-in.)										
			4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"
22	Single	$W_n / \Omega$	272	174	121	89	68	54	43	36	30	26	22
		L/240	---	---	117	74	50	35	25	19	15	12	9
	Double	$W_n / \Omega$	264	171	119	88	67	53	43	36	30	26	22
		L/240	---	---	---	---	---	---	---	---	---	---	21
	Triple	$W_n / \Omega$	327	212	148	109	84	67	54	45	38	32	28
		L/240	---	---	---	---	---	61	44	33	26	20	16
20	Single	$W_n / \Omega$	342	219	152	112	86	68	55	45	38	32	28
		L/240	---	---	143	90	60	42	31	23	18	14	11
	Double	$W_n / \Omega$	324	209	146	108	83	65	53	44	37	31	27
		L/240	---	---	---	---	---	---	---	---	---	---	26
	Triple	$W_n / \Omega$	401	260	182	134	103	82	66	55	46	39	34
		L/240	---	---	---	---	---	76	55	42	32	25	20
18	Single	$W_n / \Omega$	462	296	205	151	115	91	74	61	51	44	38
		L/240	---	---	190	120	80	56	41	31	24	19	15
	Double	$W_n / \Omega$	436	282	197	145	111	88	72	59	50	42	37
		L/240	---	---	---	---	---	---	---	---	---	---	35
	Triple	$W_n / \Omega$	539	350	245	181	139	110	89	74	62	53	46
		L/240	---	---	---	---	---	104	76	57	44	34	28
16	Single	$W_n / \Omega$	586	375	260	191	146	116	94	77	65	55	48
		L/240	---	---	240	151	101	71	52	39	30	24	19
	Double	$W_n / \Omega$	558	361	252	186	143	113	92	76	64	54	47
		L/240	---	---	---	---	---	---	---	---	---	---	46
	Triple	$W_n / \Omega$	688	447	313	231	178	141	114	94	79	68	58
		L/240	---	---	---	---	---	134	98	74	57	45	36

### Notes:

1. Table does not account for web crippling. Required bearing should be determined based on specific span conditions.
2. The symbol "—" indicates that the uniform allowable load based on deflection exceeds the allowable load based on stress.

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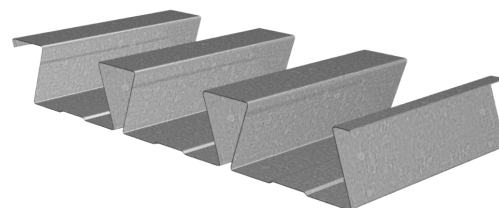


# 3.5D DOVETAIL ROOF DECK GRADE 40 STEEL

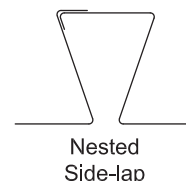
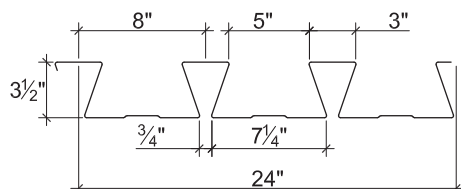
ASD

## 3.5D DOVETAIL ROOF DECK

- Enhanced 2-Coat Polyester Paint
- White Factory Primer Paint
- Galvanized Finish
- FM Listed



## 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	3.3	0.0358	40	1.762	1.646	0.676	0.781	1349	1559	3435
18	4.3	0.0474	40	2.415	2.272	0.980	1.070	1956	2136	6012
16	5.4	0.0598	40	3.133	2.968	1.317	1.377	2629	2749	8313

## 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	
	2"	3"	4"	5"	4"	6"	2"	3"	4"	5"	4"	6"
20	693	794	880	955	1459	1670	714	796	865	926	1724	1991
18	1168	1330	1467	1588	2422	2753	1310	1450	1568	1672	2927	3360
16	1793	2032	2233	2410	3681	4162	2137	2352	2533	2693	4515	5157

## Standard Features

- ASTM A653 SS GR 40 Min. with G90
- Standard lengths – 6'-0" to 42'-0"
- Tables conform to ANSI/SDI RD-2017
- IAPMO UES ER-423, FM and UL Listed

## Optional Features

- Inquire regarding cost and lead times for:
  - 19 gage
  - Short cuts < 6'-0"
  - Alternative metallic and painted finishes
- Acoustical Version

# 3.5D DOVETAIL ROOF DECK GRADE 40 STEEL

ASD

## Inward Uniform Allowable Loads, ASD (psf)

Deck Gage	Spans	Criteria	Span (ft-in.)										
			11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"
20	Single	$W_n / \Omega$	89	75	64	55	48	42	37	33	30	27	24
		L/240	87	67	53	42	34	28	24	20	17	14	12
	Double	$W_n / \Omega$	101	85	73	63	55	48	43	38	34	31	28
		L/240	---	---	---	---	---	---	---	---	---	---	28
	Triple	$W_n / \Omega$	125	106	90	78							
		L/240	---	---	---	74							
18	Single	$W_n / \Omega$	129	109	93	80	70	61	54	48	43	39	35
		L/240	119	92	72	58	47	39	32	27	23	20	17
	Double	$W_n / \Omega$	139	117	100	86	75	66	59	52	47	43	39
		L/240	---	---	---	---	---	---	---	---	---	---	---
	Triple	$W_n / \Omega$	173	146	125	108							
		L/240	---	---	---	102							
16	Single	$W_n / \Omega$	174	146	124	107	93	82	73	65	58	53	48
		L/240	154	119	93	75	61	50	42	35	30	26	22
	Double	$W_n / \Omega$	180	151	129	111	97	85	76	68	61	55	50
		L/240	---	---	---	---	---	---	---	---	---	---	---
	Triple	$W_n / \Omega$	224	188	161	139							
		L/240	---	---	---	134							

### Notes:

1. Table does not account for web crippling. Required bearing should be determined based on specific span conditions.
2. The symbol "---" indicates that the uniform allowable load based on deflection exceeds the allowable load based on stress.

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