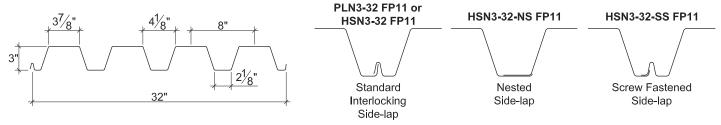
PLN3[™]-32/HSN3[™]-32 FULLY PERFED ROOF DECKS GRADE 50 STEEL

11% OPEN FULLY PERFORATED N3 ROOF DECKS

- PLN3-32 FP11 Deck used with PunchLok[®] II System
- HSN3-32 FP11 Deck used with TSWs or BPs
- HSN3-32-NS FP11 Deck used with Side-lap Screws
- HSN3-32-SS FP11 Deck used with Side-lap Screws

Nominal Dimensions



Section Properties

	Deck Weight					Effective Modu F _y = 5	Vertical Web Shear	
Deck Gage	w _{dd} (psf)	t (in.)	F _y (ksi)	l _a + (in⁴/ft)	l _d - (in⁴/ft)	S _e + (in³/ft)	S _e - (in³/ft)	V _n /Ω (lb/ft)
22	1.8	0.0299	50	0.577	0.603	0.197	0.226	1738
20	2.1	0.0359	50	0.706	0.724	0.252	0.284	2853
18	2.8	0.0478	50	0.958	0.961	0.374	0.403	5054
16	3.5	0.0598	50	1.199	1.199	0.493	0.520	6746

Allowable Reactions at Supports Based on Web Crippling, R_n/Ω (lb/ft)

	Bearing Length of Webs													
	One-Flange Loading							Two-Flange Loading						
Deck		End B	earing		Interior Bearing			End B	Interior Bearing					
Gage	1 ½"	2"	3"	4"	4"	8"	1 ½"	2"	3"	4"	4"	8"		
22	533	586	674	748	1231	1437	482	519	581	633	1391	1641		
20	757	830	951	1054	1727	2140	739	793	884	961	1993	2506		
18	1307	1424	1622	1789	2925	3663	1411	1507	1668	1804	3469	4414		
16	1993	2165	2453	2695	4408	5470	2303	2450	2696	2904	5315	6707		

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 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 Perforated Acoustical Versions



Inward Uniform Allowable Loads, ASD (psf)

Deck		Span (ft-in.)											
Gage	Spans	Criteria	4'-0"	6'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0'
	Single	W _n / Ω	246	109	61	49	39	33	27	20	15	12	10
		L/240					38	28	22	14	9	6	5
00	Double	W _n / Ω	261	121	69	55	45	37	31	23	18	14	11
22		L/240											
	Triplo	W _n / Ω	317	149	86	68	55	46	39	29			
	Triple	L/240								27			
	Single	W _n / Ω	314	140	79	62	50	42	35	26	20	16	13
		L/240					46	35	27	17	11	8	6
20	Double	W _n / Ω	338	154	88	69	56	47	39	29	22	17	14
		L/240											
	Triple	W _n / Ω	415	191	109	86	70	58	49	36			
		L/240								33			
	Single	W _n / Ω	466	207	117	92	75	62	52	38	29	23	19
		L/240				86	63	47	36	23	15	11	8
40	Doublo	W _n / Ω	488	220	125	99	80	66	56	41	31	25	20
18	Double	L/240											19
	Triple	W _n /Ω	602	274	155	123	100	83	69	51			
		L/240							69	43			
	Single	W _n / Ω	615	273	154	121	98	81	68	50	38	30	25
16		L/240			154	108	79	59	45	29	19	13	10
	Double	W _n / Ω	631	285	161	127	103	85	72	53	40	32	26
		L/240											24
	Triple	W _n / Ω	779	354	201	159	129	107	90	66			
	Triple	L/240							86	54			

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.

NOTICE: Design defects that could cause injury or death may result from relying on the information in this document without independent verification by a qualified professional. The information in this document is provided "AS IS". Nucor Corporation and its affiliates expressly disclaim: (i) any and all representations, warranties and conditions and (ii) all liability arising out of or related to this document and the information in it.



FP11