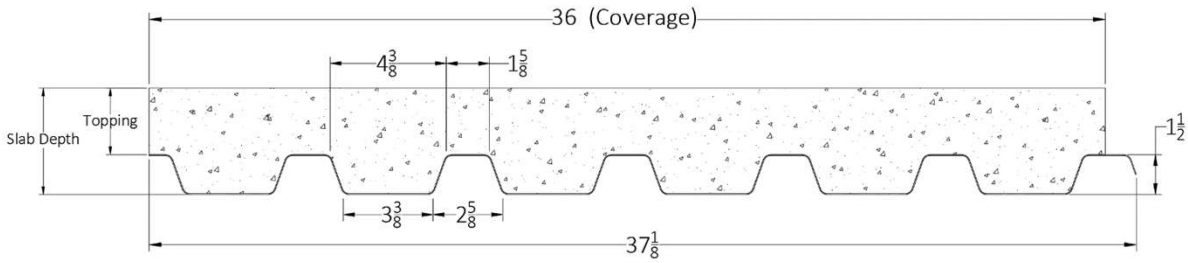


**NOMINAL.
ACTUAL
DIMENSIONS
MAY
VARY.**



1.5 FD Deck

- Deck Options and Material Specs
 - Galvanized: 20 Gauge, G60, Minimum Thickness .036" Grade: A1011 CS Type B
 - Galvanized: 20 Gauge, G40, Minimum Thickness .036" Grade: A1011 CS Type B
 - Galvanized: 22 Gauge, G40, Minimum Thickness .030" Grade: A1011 CS Type B
 - Chem dry galvanized material is not in stock but is available upon request.
 - Standard Length Options: 2' – 40' (contact sales for longer length options)
- Section properties are calculated in accordance with ANSI/SDI NC-2017 "Standard for Non-Composite Steel Floor Deck"
- Loads and spans are based on the *SDI Floor Deck Design Manual Second Edition*
- Deck may be fastened using mechanical fasteners or puddle welds.
- All fastening methods must be approved by the engineer of record.
- Minimum overlap of 2", 6" overlap recommended.
- Minimum end bearing length shall be 1 1/2".
- Minimum interior bearing length shall be 3" (check web crippling).
- Side lap screws are required if support spacing is greater than 5'.
- "Minimum Standard Yield Strength is 30 KSI based on standard mill tensile range of 30-50 KSI. For specific projects requiring higher tensile yield strengths, please contact our sales dept to request your specific demand for any orders above 225 SQs or full truck load QTY.
- Table does not account for web crippling, see *SDI Floor Deck Design Manual Second Edition*
- Reinforcement placement shall be located at center depth of topping.
- All documentation is assuming normal weight concrete 145pcf (weight per cubic foot)
- Design Process Step 1: Confirm construction loading condition. (see chart on page 2)
- Design Process Step 2: Confirm max live load. (see chart on page 2)
- Design Process Step 3: Consult with EOR (engineer of record) on design approval and fastening method.
- Design Process Step 4: Order decking material and install per EOR specs.



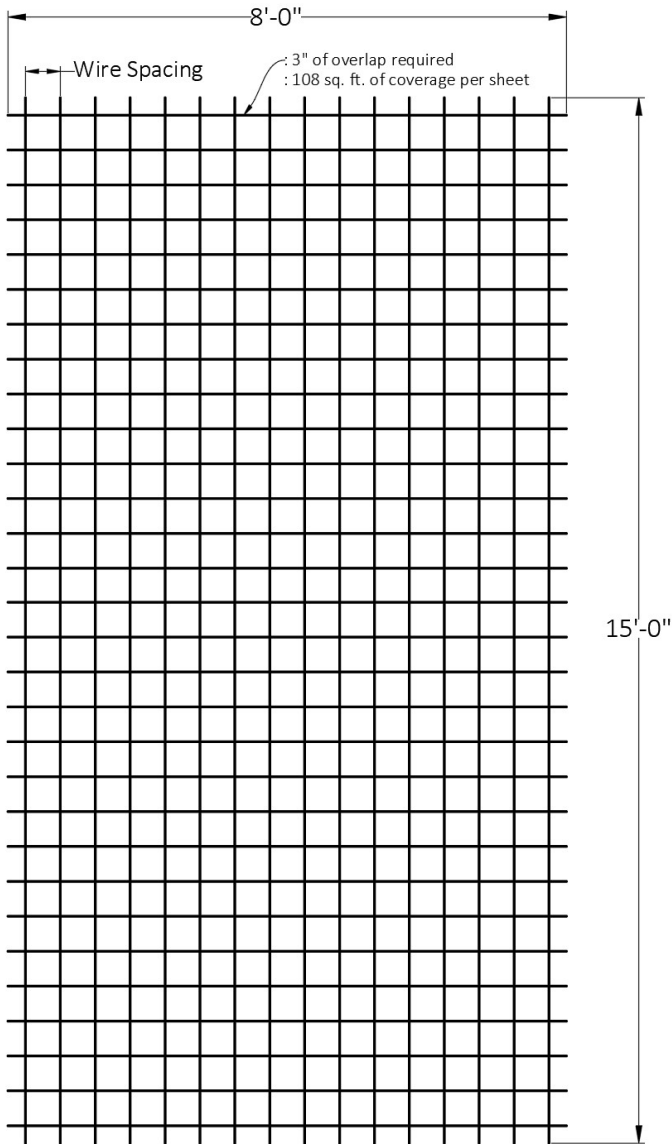
Construction Loadings					
Total Slab Depth	Deck Thickness	Concrete Weight	Maximum Unshored Construction Clear Span		
(in.)	Gauge	(psf)	Single	Double	Triple
3 1/2"	22	36	5' - 6"	5' - 6"	5' - 8"
	20		6' - 4"	6' - 1"	6' - 3"
4"	22	42	5' - 3"	5' - 3"	5' - 6"
	20		6' - 2"	5' - 11"	6' - 1"
4 1/2"	22	48	5' - 0"	5' - 1"	5' - 3"
	20		5' - 11"	5' - 8"	5' - 11"
5"	22	54	4' - 10"	5' - 0"	5' - 3"
	20		5' - 8"	5' - 6"	5' - 9"
5 1/2"	22	60	4' - 8"	4' - 10"	5' - 0"
	20		5' - 6"	5' - 4"	5' - 7"
6"	22	66	4' - 6"	4' - 8"	4' - 10"
	20		5' - 4"	5' - 3"	5' - 5"

Max Allowable Superimposed Uniform Loads PSF (pounds per square foot live load)										
Slab Depth		Wire Mesh Reinforcement	Span (ft-in.)							
Total	Topping		3' - 0"	3' - 6"	4' - 0"	4' - 6"	5' - 0"	5' - 6"	6' - 0"	6' - 6"
3 1/2"	2"	6x6 - W4.0xW4.0	368	276	214	169	137	113	95	81
		4x4 - W2.9xW2.9	400	305	234	185	150	124	104	89
		4x4 - W4.0xW4.0	400	370	284	225	182	150	126	108
4"	2 1/2"	6x6 - W4.0xW4.0	400	400	304	241	195	161	136	116
		4x4 - W2.9xW2.9	400	400	325	257	208	172	145	123
		4x4 - W4.0xW4.0	400	400	376	297	240	199	167	142
4 1/2"	3"	6x6 - W4.0xW4.0	400	400	400	349	283	234	196	167
		4x4 - W2.9xW2.9	400	400	400	383	310	257	216	184
		4x4 - W4.0xW4.0	400	400	400	400	371	307	258	220
5"	3 1/2"	6x6 - W4.0xW4.0	400	400	400	400	400	336	282	241
		4x4 - W2.9xW2.9	400	400	400	400	400	392	330	281
		4x4 - W4.0xW4.0	400	400	400	400	400	400	376	320
5 1/2"	4"	6x6 - W4.0xW4.0	400	400	400	400	400	400	357	305
		4x4 - W2.9xW2.9	400	400	400	400	400	400	400	353
		4x4 - W4.0xW4.0	400	400	400	400	400	400	400	386
6"	4 1/2"	6x6 - W4.0xW4.0	400	400	400	400	400	400	400	375
		4x4 - W2.9xW2.9	400	400	400	400	400	400	400	400
		4x4 - W4.0xW4.0	400	400	400	400	400	400	400	400



Welded Wire Reinforcement (Remesh)

- Remesh type must be approved by the engineer of record for each project.
- Note required overlap of remesh sheets.

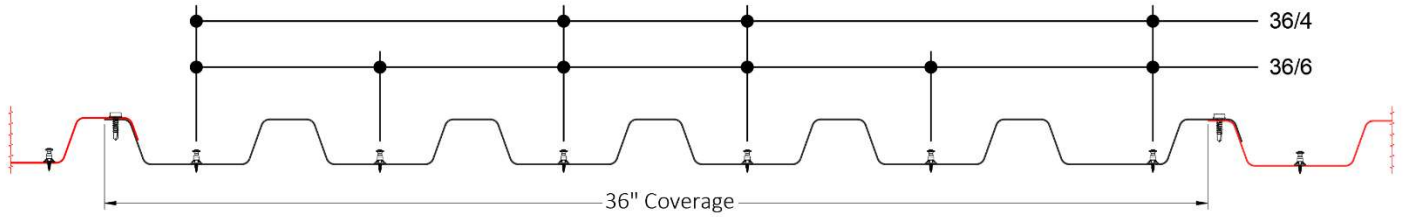


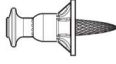
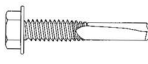
Gauge - Diameter Chart				
Old Gauge Sizes			W-Number Sizes	
Gauge	Nominal Diameter (inch)	"W" Size	Nominal Diameter (inch)	Nominal Weight (lbs/ft)
7/0	0.49	W18.9	0.49	0.643
7/0.5	0.476	W17.8	0.476	0.605
6/0	0.4615	W16.7	0.461	0.568
6/0.5	0.446	W15.6	0.445	0.53
5/0	0.4305	W14.5	0.431	0.496
5/0.5	0.412	W13.3	0.411	0.452
4/0	0.3938	W12.2	0.394	0.415
4/0.5	0.378	W11.2	0.377	0.381
3/0	0.3625	W10.3	0.362	0.35
3/0.5	0.347	W9.5	0.347	0.323
2/0	0.331	W8.5	0.33	0.292
2/0.5	0.319	W8	0.319	0.272
0	0.3065	W7.4	0.306	0.252
0.5	0.295	W6.8	0.294	0.231
1	0.283	W6.3	0.283	0.214
1.5	0.273	W5.9	0.274	0.201
2	0.2625	W5.4	0.262	0.184
2.5	0.253	W5	0.252	0.17
3	0.2437	W4.7	0.244	0.16
3.5	0.235	W4.3	0.233	0.146
4	0.2253	W4	0.225	0.136
4.5	0.216	W3.7	0.217	0.126
5	0.207	W3.4	0.208	0.116
5.5	0.2	W3.1	0.198	0.105
6	0.192	W2.9	0.192	0.099
6.5	0.185	W2.7	0.185	0.092
7	0.177	W2.5	0.178	0.085
7.5	0.17	W2.3	0.171	0.078
8	0.162	W2.1	0.163	0.071
9	0.1483	W1.7	0.147	0.058
10	0.135	W1.4	0.133	0.048

The technical information presented is intended for assessment by individuals with technical expertise and is of a theoretical nature. Any utilization of this information is at the independent discretion and risk of the user. Structuraldeck.com disclaims any responsibility or liability for outcomes or damages arising from the improper evaluation or use of Form Deck.

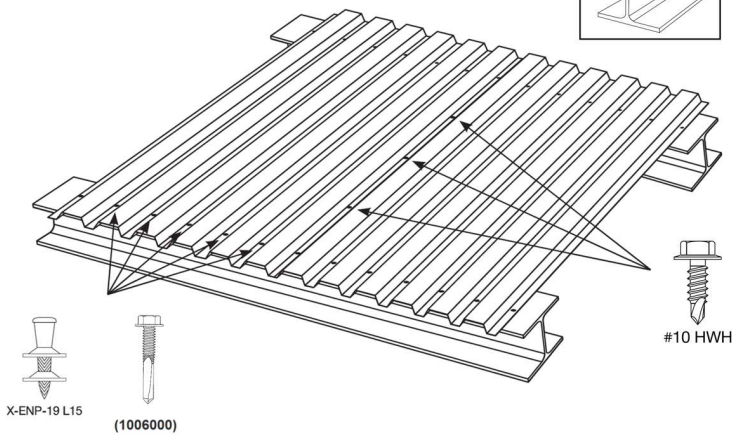
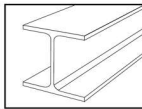


1.5 FD
Fastener Layout
(EOR to specify fastener pattern)

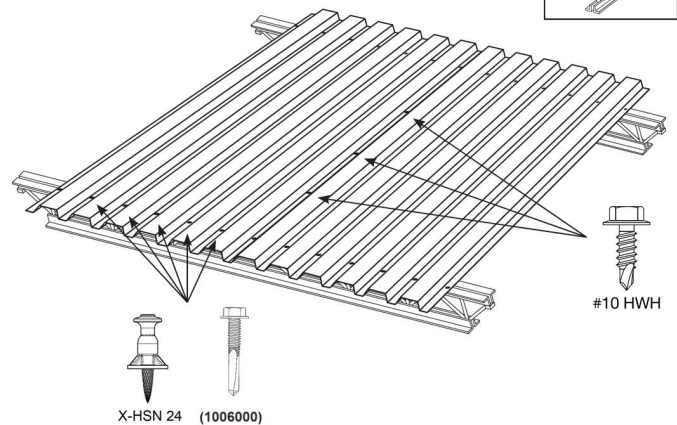
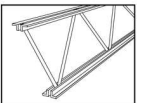


Base Material	Propellant	Fastener Type	Installation Tool
Joist and Structural Steel (0 - 1/4")	RED (short) 2128214 DX Cartridge 6.8/11 M40	Powder-Actuated (X-HSN 24)	DX 9-HSN
Joist and Structural Steel (1/4" - 3/8")	BLACK (long) 2208111 DX Cartridge 6.8/11 M40	 	
Joist and Structural Steel (1/4" - 1"+)	BLACK (long) 2128213 DX Cartridge 6.8/18 M40	Powder-Actuated (X-ENP-19 L15 MXR)	DX 9-ENP
Joist and structural steel (1/8" - 1/2")	N/A	 12-24 x 1-1/4" Hex Screw (1006000) 	Screw Gun/Impact Driver (5/16" hex)  

Solutions for structural steel applications

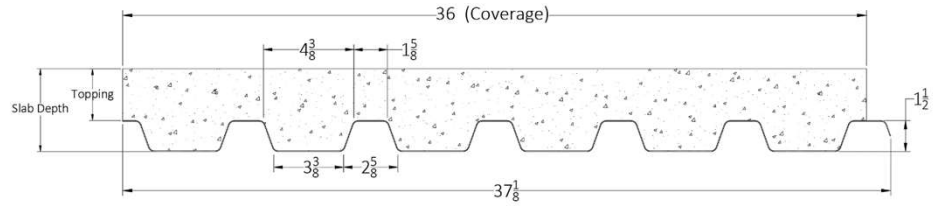


Solutions for bar joist (open web joists)





- Side Lap Screw
 - Hilti #10 HWH Screw
- Support Member Spacing:
 - 3': use (1) side lap screw
 - 4': use (2) side lap screws
 - 5': use (2) side lap screws
 - 6': use (3) side lap screws



Hilti #10 HWH Screw



HILTI SDT 9 STAND-UP HANDLE

