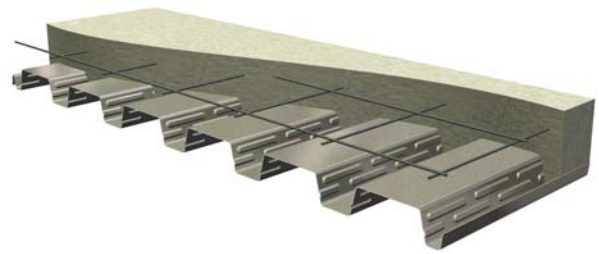
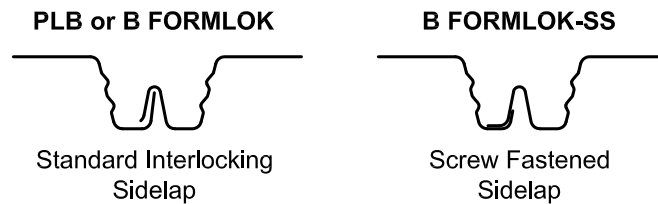
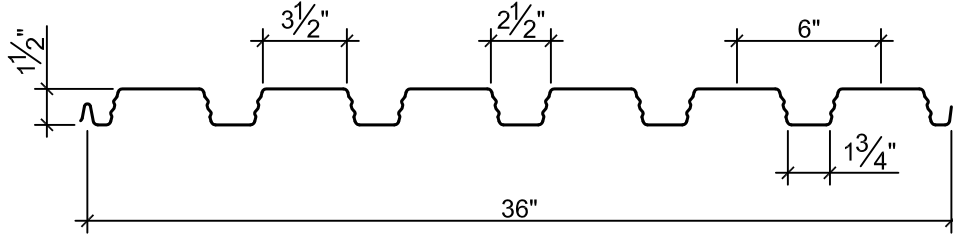


PLB™ or B FORMLOK™

- 1½ in. Deep FORMLOK Deck
- Phosphatized/Painted or Galvanized
- PLB FORMLOK used with PunchLok II System
- B FORMLOK used with TSWs or BPs
- B FORMLOK-SS used with Screws



Dimensions

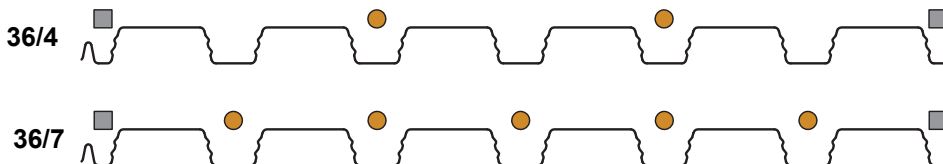


Deck Weight and Section Properties

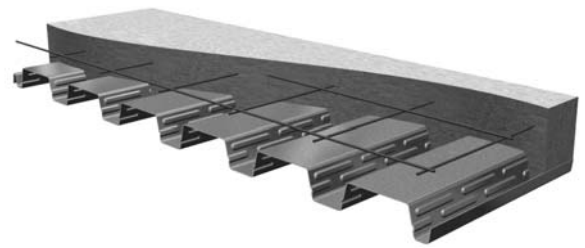
Gage	Weight		I_d for Deflection		Moment		Allowable Reactions per ft of Width (lb) due to Web Crippling									
	Galv (psf)	Painted (psf)	Single Span (in. ⁴ /ft)	Multi Span (in. ⁴ /ft)	+ S_{eff} (in. ³ /ft)	- S_{eff} (in. ³ /ft)	One Flange Loading				Two Flange Loading					
							End Bearing Length		Interior Bearing Length		End Bearing Length		Interior Bearing Length			
							2"	3"	4"	3"	4"	2"	3"	4"	3"	4"
22	1.9	1.8	0.177	0.192	0.176	0.188	935	1076	1163	1559	1671	962	1078	1150	1935	2084
20	2.3	2.2	0.219	0.231	0.230	0.237	1301	1492	1609	2190	2340	1413	1576	1675	2744	2947
18	2.9	2.8	0.302	0.306	0.314	0.331	2181	2484	2667	3714	3950	2551	2823	2987	4713	5038
16	3.5	3.4	0.381	0.381	0.399	0.410	3265	3699	3955	5607	5938	4018	4422	4660	7168	7631

- Notes:**
1. Section properties are based on $F_y = 50,000$ psi.
 2. I_d is for deflection due to uniform loads.
 3. S_{eff} (+ or -) is the effective section modulus.
 4. Allowable (ASD) reactions are based on web crippling, per AISI S100 Section C3.4, where $\Omega_w = 1.70$ for end bearing and 1.75 for interior bearing. Nominal reactions may be determined by multiplying the table values by Ω_w . LRFSD reactions may be determined by multiplying nominal reactions by $\phi_w = 0.9$ for end reactions and 0.85 for interior reactions.

Attachment Patterns to Supports



- Note:** ● indicates location of arc spot weld, power actuated fastener, or screw as indicated in the load tables.
 ■ indicates location of arc seam weld, power actuated fastener, or screw as indicated in the load tables.



Footnotes for Maximum Unshored Clear Span, Allowable Superimposed Loads, and Allowable Diaphragm Shear Strength Tables

1. Shoring calculations are based on the following:
 - Deck supporting dead load of concrete plus 20 psf uniform construction load or 150 pound concentrated construction live load for flexure. 4 psf is added for normal weight concrete and 3 psf is added for light weight concrete to account for ponding due to deck deflection between support members.
 - Dead load deflection limited to L/180 of span length, not to exceed 3/4".
 - Minimum end and interior bearing of 2".
2. Concrete fill to have minimum 28-day compressive strength $f'_c = 3,000$ psi.
3. Total slab depth is nominal depth from top of concrete to bottom of steel deck.
4. Shoring is required at midspan for allowable superimposed loads in the shaded area to the right of the heavy line.
5. Nominal diaphragm shear strengths may be determined by multiplying the tabulated strengths by $\Omega = 3.0$. LRFD diaphragm shear strength may be determined by multiplying nominal diaphragm shear strength by $\phi = 0.55$.
6. To obtain allowable diaphragm shear strengths using mechanical fasteners, multiply the tabulated strengths by the appropriate adjustment factor, A_q listed in the following table.

Attachment Pattern	Adjustment Factor	Total Slab Depth (in.)								
		Normal Weight Concrete				Light Weight Concrete				
		3 1/2	4	4 1/2	5	6	3 1/2	4	4 3/4	5 3/4
36/4	A_{q4}	0.60	0.66	0.68	0.62	0.53	0.46	0.53	0.62	0.69
36/7	A_{q7}	0.49	0.57	0.62	0.66	0.72	0.38	0.44	0.52	0.61

Notes:

- a. Mechanical fastener attachment patterns are to match the listed attachment patterns for welds.
- b. Applicable mechanical fasteners are limited to the following: Hilti Fasteners, Pneutek Fasteners and SDI Recognized #12 or #14 Screws produced by Buildex, Elco, Hilti or Simpson Strong-Tie. Comply with minimum and maximum substrate thickness requirements for applicable mechanical fasteners. Note that these adjustment factors are based on the most conservative value for all listed connectors.
- c. Nominal diaphragm shear strengths for mechanically fastened FORMLOK slabs may be determined by multiplying the adjusted tabulated strengths by $\Omega = 3.25$. LRFD diaphragm shear strengths for mechanically fastened FORMLOK slabs may be determined by multiplying the adjusted nominal strengths by $\phi = 0.50$.
- d. Consult fastener manufacturer for applicable fire-resistance assembly ratings where mechanical fasteners are required.