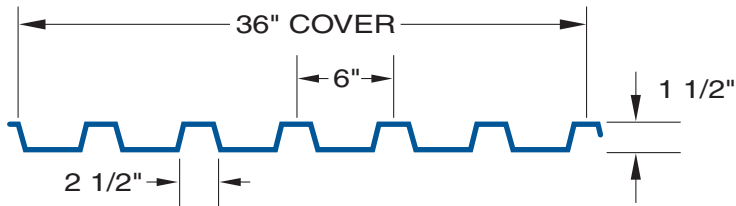


TYPE "BI" (TYPE "B" INVERTED FORM DECK)



Helpful Hint: Type "BI" inverted form deck is used when the spans and loads exceed the capability of standard and heavy duty form decks.

Section Properties (F_y=40 ksi)

Gage	Design Thickness	Weight (psf) Glv	I _p (In ⁴)	Sp(In ³)	Sn(In ³)
22	.0295	1.61	0.188	0.192	0.187
20	.0358	2.04	0.230	0.243	0.232
18	.0474	2.70	0.305	0.326	0.315

- Section properties calculated in accordance with AISI specifications

Maximum Construction Clear Spans

Slab Depth	Gage	Weight PSF	NW Concrete 145 PCF			Weight PSF	LW Concrete 110 PCF		
			1 Span	2 Span	3 Span		1 Span	2 Span	3 Span
3.5"	22	37	4-7	6-2	6-2	29	5-0	6-7	6-8
	20	38	5-5	7-3	7-4	29	5-10	7-10	7-11
	18	38	6-6	8-6	8-10	30	7-1	9-2	9-7
4.0"	22	43	4-5	5-10	5-11	33	4-9	6-4	6-5
	20	44	5-1	6-10	6-11	34	5-7	7-5	7-6
	18	44	6-2	8-1	8-5	34	6-9	8-10	9-1
4.5"	22	49	4-2	5-8	5-8	38	4-7	6-1	6-2
	20	50	4-11	6-7	6-8	38	5-4	7-2	7-3
	18	50	5-11	7-9	8-0	39	6-5	8-5	8-9
5.0"	22	55	4-0	5-5	5-6	42	4-5	5-11	6-0
	20	55	4-8	6-4	6-5	43	5-2	6-11	7-0
	18	56	5-7	7-5	7-8	43	6-3	8-2	8-5
5.5"	22	61	3-11	5-3	5-4	47	4-3	5-8	5-9
	20	62	4-6	6-1	6-2	47	5-0	6-8	6-9
	18	63	5-5	7-1	7-4	48	6-0	7-10	8-2
6.0"	22	68	3-9	5-1	5-1	52	4-2	5-6	5-7
	20	68	4-4	5-11	6-0	52	4-10	6-6	6-7
	18	69	5-2	6-10	7-1	53	5-9	7-7	7-10
6.5"	22	74	3-8	4-11	5-0	56	4-0	5-5	5-5
	20	74	4-3	5-9	5-9	57	4-8	6-3	6-4
	18	75	5-0	6-8	6-10	57	5-7	7-5	7-8

TYPE "BI" (TYPE "B" INVERTED FORM DECK) *continued...*

Span Condition	Gage	Design Criteria	Uniform Total Load in Pounds Per Square Foot (Dead and Live)								
			5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"
One	22	36000	101	83	70	60	51	45	39	35	
		L/240	98	74	57	44	36	29	24	20	
		L/180	*	*	*	59	48	39	32	26	
	20	36000	128	105	89	75	65	57	50	44	39
		L/240	120	90	69	54	43	35	29	24	20
		L/180	*	*	93	73	58	47	39	32	27
	18	36000	171	142	119	101	87	76	67	59	53
		L/240	160	120	92	72	58	47	39	32	27
		L/180	*	*	123	97	77	63	52	43	36
Two	22	36000	98	81	68	58	50	43	38	34	30
		L/240	*	*	*	*	86	70	58	48	40
		L/180	*	*	*	*	*	*	77	64	54
	20	36000	122	101	84	72	62	54	47	42	37
		L/240	*	*	*	*	*	*	70	59	49
		L/180	*	*	*	*	*	*	*	*	*
	18	36000	166	137	115	98	84	74	65	57	51
		L/240	*	*	*	*	*	*	*	*	*
		L/180	*	*	*	*	*	*	*	*	*
Three or More	22	36000	123	101	85	72	62	54	48	42	38
		L/240	*	*	*	85	68	55	45	38	32
		L/180	*	*	*	*	*	73	60	50	42
	20	36000	152	126	106	90	78	67	59	52	47
		L/240	*	*	*	103	83	67	55	46	39
		L/180	*	*	*	*	*	90	74	61	52
	18	36000	208	172	144	123	106	92	81	72	64
		L/240	*	*	*	*	110	89	74	61	51
		L/180	*	*	*	*	*	*	*	*	69