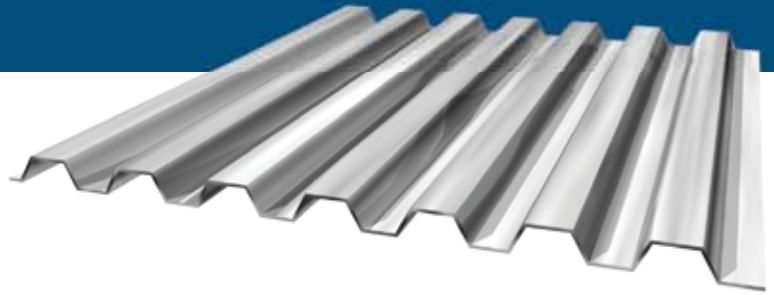




# 1.3" Form Deck



## Form Deck brought to you by the Customer Service Leader

Cordeck is a full-service manufacturer and stocking distributor of corrugated steel deck, flashing and trim, and other building construction accessories. Cordeck's mission is to provide excellent customer service. This mission is the foundation for industry wide recognition as the service leader for prompt, reliable deliveries, guaranteed quality, and large inventory of gauges and profiles. You can be certain of the product's total, maximum effectiveness, along with our ability to deliver the industry's highest quality, service, value, and customer satisfaction. Please contact us for further information. At Cordeck, we're devoted to our customers. We stand ready to earn and keep your full confidence and trust.

## Features and Benefits

**Prompt lead times** are our specialty. All orders are promptly produced and shipped to meet your on-site specifications.

**Bundle Placement plans** are provided to ensure correct location of bundles during unloading and hoisting to steel framework.

**SDI Membership** by the manufacturer guarantees product quality in accordance to the Steel Deck Institute (SDI).

**On-spec, guaranteed quality.** Our production staff are true craftsmen, not just interested in getting the job done, but in doing it perfectly.

**Form spans shown** in the table are maximum unshored clear span lengths based on Load and Resistance Factor Design (LRFD) rationale. Form loading is based upon the SDI form span criteria that allows for the sequence of construction live loading that usually occurs during the construction phase with the placement of wet concrete by construction workers. This form span loading is represented by combinations of uniformly applied dead load and 20 psf construction load or uniformly applied dead load, superimposed with 150 lb. mid-span concentrated load.

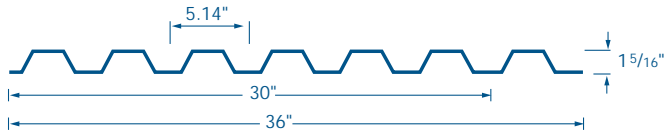
**Form Deck provides** a strong, secure, stay in-place form for poured concrete applications. Installation is fast, easy, and economical.

**Form Deck is designed** to serve as a permanent steel base for poured reinforced concrete floor slabs. Structurally, Form Deck provides a strong efficient section for forming slabs, while giving lateral stability to structural members.

**Form Deck is made from high strength**, full hard steel that conforms to ASTM A653 SS Grade 80. Galvanized in accordance with ASTM A924 Class G-60 and G-90. Form Deck should always be galvanized when used as a structural support for light weight insulating concrete fill.

**Welded wire fabric 1"** below top surface of slab is recommended. If welded wire fabric is not used, the superimposed live loads in the following tables should be reduced by 10%.

# 1.3" Form Deck



Gage	t in	Wd psf	Sp in <sup>3</sup> /ft	Sn in <sup>3</sup> /ft	Ip in <sup>4</sup> /ft	In in <sup>4</sup> /ft	Va lbs/ft	Fy ksi
26	0.018	0.99	0.097	0.098	0.070	0.069	1940	60
24	0.024	1.33	0.132	0.132	0.093	0.093	3458	60
22	0.030	1.62	0.163	0.162	0.115	0.115	4789	60
20	0.036	1.97	0.197	0.197	0.140	0.140	5727	60

Gage	No. of Spans	Design Criteria	Clear Span												
			4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"
26	1	Fb=36000	145	115	93	77	65	55	47	41	36	32	29	26	23
		L/240	72	50	37	28	21	17	13	11	9	7	6	5	5
		L/180	96	67	49	37	28	22	18	15	12	10	8	7	6
	2	Fb=36000	144	114	93	77	65	55	48	42	37	32	29	26	23
		L/240	172	121	88	66	51	40	32	26	21	18	15	13	11
		L/180	229	161	117	88	68	53	43	35	29	24	20	17	15
	3	Fb=36000	179	142	115	96	81	69	59	52	46	40	36	32	29
		L/240	134	94	69	52	40	31	25	20	17	14	12	10	9
		L/180	179	126	92	69	53	42	33	27	22	19	16	13	11
24	1	Fb=36000	198	156	126	105	88	75	65	56	49	44	39	35	32
		L/240	95	67	49	37	28	22	18	14	12	10	8	7	6
		L/180	127	89	65	49	38	30	24	19	16	13	11	9	8
	2	Fb=36000	196	155	126	104	87	75	64	56	49	44	39	35	32
		L/240	230	161	118	88	68	54	43	35	29	24	20	17	15
		L/180	306	215	157	118	91	71	57	46	38	32	27	23	20
	3	Fb=36000	243	193	157	130	109	93	80	70	62	55	49	44	39
		L/240	180	126	92	69	53	42	34	27	22	19	16	13	12
		L/180	240	168	123	92	71	56	45	36	30	25	21	18	15
22	1	Fb=36000	244	193	156	129	108	92	80	69	61	54	48	43	39
		L/240	118	83	60	45	35	27	22	18	15	12	10	9	8
		L/180	157	110	81	61	47	37	29	24	20	16	14	12	10
	2	Fb=36000	241	190	154	128	107	92	79	69	61	54	48	43	39
		L/240	284	199	145	109	84	66	53	43	36	30	25	21	18
		L/180	379	266	194	146	112	88	71	57	47	39	33	28	24
	3	Fb=36000	300	237	193	159	134	114	99	86	76	67	60	54	48
		L/240	222	156	114	86	66	52	41	34	28	23	20	17	14
		L/180	296	208	152	114	88	69	55	45	37	31	26	22	19
20	1	Fb=36000	295	233	189	156	131	112	96	84	74	65	58	52	47
		L/240	144	101	74	55	43	33	27	22	18	15	13	11	9
		L/180	192	135	98	74	57	45	36	29	24	20	17	14	12
	2	Fb=36000	292	232	188	155	131	111	96	84	74	65	58	52	47
		L/240	346	243	177	133	102	81	65	52	43	36	30	26	22
		L/180	461	324	236	177	137	107	86	70	58	48	40	34	30
	3	Fb=36000	364	289	234	194	163	139	120	105	92	81	73	65	59
		L/240	271	190	139	104	80	63	50	41	34	28	24	20	17
		L/180	361	253	185	139	107	84	67	55	45	38	32	27	23

## Product Information Design

1. Cordeck certifies that our form deck has been evaluated in accordance with the applicable SDI standards and property values for the Uniform Load Tables, and meets or exceeds SDI requirements.
2. The rib width limitations shown are taken at the theoretical intersection points of the flange and web projections. Depending on the radius used, the load table could vary from that shown.

# 1.3" Form Deck

1.3" Form Deck Maximum Construction Clear Spans									
Total Slab Depth	Gage	Weight PSF	N.W. Concrete (145 PCF)			Weight PSF	L.W. Concrete (110 PCF)		
			1 Span	2 Span	3 Span		1 Span	2 Span	3 Span
3.3	26	33	4'-6"	5'-11"	6'-0"	25	4'-10"	6'-4"	6'-5"
	24	34	5'-6"	7'-4"	7'-5"	26	6'-0"	7'-11"	8'-0"
	22	34	6'-4"	8'-3"	8'-3"	26	6'-11"	8'-10"	9'-0"
	20	34	7'-1"	8'-9"	8'-9"	26	7'-9"	9'-7"	9'-7"
3.8	26	39	4'-3"	5'-7"	5'-8"	30	4'-7"	6'-1"	6'-2"
	24	40	5'-3"	6'-11"	7'-0"	30	5'-8"	7'-7"	7'-8"
	22	40	6'-0"	7'-10"	7'-10"	31	6'-7"	8'-6"	8'-6"
	20	40	6'-9"	8'-4"	8'-4"	31	7'-4"	9'-1"	9'-1"
4.3	26	45	4'-1"	5'-5"	5'-5"	35	4'-5"	5'-10"	5'-11"
	24	46	5'-0"	6'-8"	6'-9"	35	5'-5"	7'-3"	7'-4"
	22	46	5'-8"	7'-5"	7'-5"	35	6'-3"	8'-2"	8'-2"
	20	46	6'-5"	7'-11"	7'-11"	36	7'-0"	8'-8"	8'-8"
4.8	26	51	3'-11"	5'-2"	5'-3"	39	4'-3"	5'-8"	5'-8"
	24	52	4'-9"	6'-4"	6'-5"	40	5'-3"	6'-11"	7'-0"
	22	52	5'-5"	7'-2"	7'-2"	40	6'-0"	7'-10"	7'-10"
	20	52	6'-1"	7'-7"	7'-7"	40	6'-9"	8'-4"	8'-4"
5.3	26	57	3'-9"	5'-0"	5'-1"	44	4'-1"	5'-5"	5'-6"
	24	58	4'-7"	6'-2"	6'-2"	44	5'-0"	6'-9"	6'-10"
	22	58	5'-3"	6'-11"	6'-11"	44	5'-9"	7'-6"	7'-6"
	20	58	5'-10"	7'-4"	7'-4"	45	6'-6"	8'-0"	8'-0"
5.8	26	63	3'-8"	4'-9"	4'-11"	48	4'-0"	5'-3"	5'-4"
	24	64	4'-5"	5'-11"	6'-0"	49	4'-10"	6'-6"	6'-7"
	22	64	5'-1"	6'-8"	6'-8"	49	5'-7"	7'-3"	7'-3"
	20	64	5'-8"	7'-1"	7'-1"	49	6'-3"	7'-9"	7'-9"
6.3	26	69	3'-7"	4'-5"	4'-9"	53	3'-10"	5'-2"	5'-2"
	24	70	4'-4"	5'-9"	5'-10"	53	4'-8"	6'-4"	6'-5"
	22	70	4'-11"	6'-6"	6'-6"	54	5'-4"	7'-1"	7'-1"
	20	70	5'-6"	6'-11"	6'-11"	54	6'-0"	7'-6"	7'-6"

## Material

All steel to be used in Cordeck form deck will be galvanized, prime painted, or a combination of the two.

### 1. Prime Painted

- Form Deck shall receive one coat of standard gray primer paint over cleaned and pretreated steel.
- The primer coat is intended to protect the steel for only a reasonably short period of exposure, in normal atmospheric conditions, and shall be considered an impermanent and provisional coating.
- Field painting of prime painted material is recommended, especially where the deck is exposed.

### 2. Galvanized

- All steel shall be coated to conform to ASTM A924 G-60 or G-90 or to Federal Specification QQ-S-775.
- Galvanized finish in G-60 or G-90 coating is desirable in high moisture atmospheric conditions.

- Cordeck shall not be responsible for the cleaning of the underside of steel deck to ensure bond of fireproofing. Adherence of fireproofing material is dependent on many variables. The adhesion ability of fireproofing materials is the responsibility of the fireproofing applicator.

### 3. Accessories

- Cordeck can supply end & side closures, pour stops, deck plates, rubber cell closures, screws and other accessories needed to complete the project.

# 1.3" Form Deck

## SDI Member

1. All steel deck material is manufactured by SDI members or manufactured in accordance to SDI.
2. Cordeck certifies that all material will be in accordance with the SDI Form Deck Manual specifications.
3. Cordeck 1.3" Form Deck conforms to all applicable SDI Form Deck Manual specifications.

## Installation

1. Cordeck steel deck shall be installed by qualified and experienced workers.
2. Deck installation drawings shall be submitted to the project architect and engineer for approval prior to the manufacture of materials.
3. Deck shall be placed in accordance with approved erection drawings.
4. Deck sheets shall be butted over supports.
5. End bearing: install deck ends over supports with a minimum end bearing of 1-1/2" or as indicated on erection drawings.
6. Each deck unit shall be placed on supporting steel framework and adjusted to final positions before permanently fastened. Do not use unfastened deck as a working platform or storage area.
7. Cutting of openings through the deck and all skew cutting shall be performed in the field. Openings not shown on the erection drawings such as those required for stack, conduits, plumbing, vents, etc., shall be cut, and reinforced, if necessary, in accordance with SDI.

## Attachment

1. Form Deck sheets and accessories shall be attached as soon as possible and all sheets and accessories shall be attached at the end of each working day. Electric arc welding is the best and most economical method for attaching form deck sheets to structural supports. Welder shall follow close to the placement crew.
2. All welds are to be made from the top of the deck down through the bottom flange of the ribs. Welds shall penetrate and attach all thicknesses of material to the structural supports.

3. Deck panels are to be fastened to all supports at 12" on center maximum with not less than 3/4" diameter arc spot welds. At deck butt joints, both sheets are to be fastened. Deck panels with spans greater than 5 feet shall have side laps and perimeter edges (at perimeter supports) fastened at mid-span or 36" intervals, whichever is smaller.
4. Puddle welds shall be at least 5/8" diameter or elongated puddle welds with an equal perimeter. Fillet welds, when used, shall be at least 1" long.
  - a. 1-1/2" deep deck side laps are to be screw attached or welded. 2" and 3" deep deck side laps are to be button punched, welded, or Gator Crimp (GTR).
  - b. End closures of the deck, if required, are to be fastened by tack welding or sheet metal screws at 36" centers maximum. Side closures of the deck if required are to be fastened by 1" fillet welds at, 12" centers maximum.
  - c. Pour stop accessories of the deck, if required, are to be fastened by 1" fillet welds at 12" centers maximum.

Attachment must be determined by the designer as part of the overall building design process. Values given in this document are adequate in most cases.

## Storage and Handling

1. Protect steel deck from corrosion, deformation, and other damage during storage, handling, and installation.
2. Deck not promptly erected shall be stored off the ground, with one end elevated to provide drainage. Bundles must be protected against condensation with a ventilated waterproof covering. Deck should always be protected from snow and salt.
3. Bundles must be stacked so there is no danger of shifting or material damage. Bundles must be checked for tightness, and retightened as necessary.
4. Deck bundles on the building frame must always be placed near a main supporting beam, at a column, or a wall. In no situation are the bundles to be placed on unbolted frames or on unattached and unbridged joists. The structural frame must be properly braced to receive the bundles.

"Whatever it takes"



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