0.6” Form Deck Specification Sheet

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 and take pride in completing each job to perfection.

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 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. Galvanized in accordance with ASTM A924 Form Deck is made from high strength, full hard steel that conforms to ASTM A653 SS. 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%.

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0.6” Form Deck

Section Properties

0.6" Form Deck Section Properties								
Gage	t in	Wd psf	Sp in^3/ft	Sn in^3/ft	Ip in^4/ft	In in^4/ft	Va lbs/ft	Fy ksi
28	0.015	0.76	0.035	0.036	0.012	0.012	2029	60
26	0.018	0.91	0.043	0.043	0.015	0.015	2928	60
24	0.024	1.21	0.057	0.057	0.019	0.019	4064	60
22	0.030	1.49	0.070	0.070	0.024	0.024	5048	60

Allowable Uniform Load (PSF)

0.6" Form Deck Allowable Uniform Load (PSF)														
Gage	No. of Spans	Design Criteria	Clear Span												
			2' - 0"	2' - 3"	2' - 6"	2' - 9"	3' - 0"	3' - 3"	3' - 6"	3' - 9"	4' - 0"	4' - 6"	5' - 0"	5' - 6"	6' - 0"
28	1	Fb=36000	210	166	134	111	93	79	68	60	52	41	34	28	23
		L/240	98	69	50	38	29	23	18	15	12	9	6	5	4
		L/180	131	92	67	51	39	31	25	20	16	12	8	6	5
	2	Fb=36000	214	169	137	113	95	81	70	61	54	43	34	28	24
		L/240	237	167	121	91	70	55	44	36	30	21	15	11	9
		L/180	316	222	162	122	94	74	59	48	40	28	20	15	12
	3	Fb=36000	266	211	171	142	119	102	88	76	67	53	43	36	30
		L/240	186	130	95	71	55	43	35	28	23	16	12	9	7
		L/180	247	174	127	95	73	58	46	38	31	22	16	12	9
26	1	Fb=36000	257	203	165	136	114	98	84	73	64	51	41	34	29
		L/240	123	86	63	47	36	29	23	19	15	11	8	6	5
		L/180	164	115	84	63	49	38	31	25	21	14	11	8	6
	2	Fb=36000	256	202	164	136	114	97	84	73	64	51	41	34	29
		L/240	296	208	152	114	88	69	55	45	37	26	19	14	11
		L/180	395	278	202	152	117	92	74	60	49	35	25	19	15
	3	Fb=36000	319	253	205	169	142	121	105	91	80	63	51	43	36
		L/240	232	163	119	89	69	54	43	35	29	20	15	11	9
		L/180	309	217	158	119	92	72	58	47	39	27	20	15	11
24	1	Fb=36000	341	270	218	181	152	129	111	97	85	67	55	45	38
		L/240	156	110	80	60	46	36	29	24	19	14	10	7	6
		L/180	208	146	106	80	62	48	39	32	26	18	13	10	8
	2	Fb=36000	339	269	218	180	151	129	111	97	85	67	55	45	38
		L/240	375	264	192	144	111	87	70	57	47	33	24	18	14
		L/180	501	352	256	193	148	117	93	76	63	44	32	24	19
	3	Fb=36000	423	335	272	225	189	161	139	121	106	84	68	56	47
		L/240	294	206	150	113	87	68	55	45	37	26	19	14	11
		L/180	392	275	201	151	116	91	73	59	49	34	25	19	15
22	1	Fb=30000	419	331	268	222	186	159	137	119	105	83	67	55	47
		L/240	197	138	101	76	58	46	37	30	25	17	13	9	7
		L/180	263	184	134	101	78	61	49	40	33	23	17	13	10
	2	Fb=30000	417	330	267	221	186	158	137	119	105	83	67	55	47
		L/240	474	333	243	182	141	111	88	72	59	42	30	23	18
		L/180	632	444	324	243	187	147	118	96	79	56	40	30	23
	3	Fb=30000	520	411	334	276	232	198	171	149	131	103	84	69	58
		L/240	371	261	190	143	110	86	69	56	46	33	24	18	14
		L/180	495	348	253	190	147	115	92	75	62	43	32	24	18

Product Information Design

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.

The rib width limitations shown are taken at the theoretical intersection points on the flange and web projections. Depending on the radium used, the load table could very from what is shown.

0.6” Form Deck

Maximum Construction Clear Spans

0.6" 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
2	28	23	2' - 3"	2' - 10"	2' - 11"	17	2' - 4"	2' - 11"	3' - 0"
	26	23	2' - 8"	3' - 5"	3' - 5"	18	2' - 9"	3' - 6"	3' - 7"
	24	23	3' - 4"	4' - 3"	4' - 4"	18	3' - 6"	4' - 6"	4' - 6"
	22	23	3' - 10"	5' - 0"	5'- 1"	18	4' - 1"	5' - 3"	5' - 4"
2.5	28	29	2' - 2"	2' - 9"	2' - 9"	22	2' - 3"	2' - 10"	2' - 11"
	26	29	2' - 6"	3' - 3"	3' - 4"	22	2' - 8"	3' - 5"	3' - 6"
	24	29	3' - 2"	4' - 1"	4' - 2"	22	3' - 4"	4' - 4"	4' - 4"
	22	29	3' - 8"	4' - 9"	4' - 10"	23	3' - 11"	5' - 1"	5' - 1"
3	28	35	2' - 1"	2' - 8"	2' - 8"	27	2' - 2"	2' - 9"	2' - 10"
	26	35	2' - 5"	3' - 2"	3' - 2"	27	2' - 7"	3' - 4"	3' - 4"
	24	35	3' - 0"	3' - 11"	3' - 11"	27	3' - 2"	4' - 2"	4' - 2"
	22	36	3' - 6"	4' - 7"	4' - 7"	27	3' - 9"	4' - 10"	4' - 11"
3.5	28	41	2' - 0"	2' - 7"	2' - 7"	31	2' - 1"	2' - 9"	2' - 9"
	26	41	2' - 4"	3' - 0"	3' - 1"	31	2' - 6"	3' - 3"	3' - 3"
	24	41	2' - 10"	3' - 9"	3' - 10"	32	3' - 1"	4' - 0"	4' - 1"
	22	42	3' - 4"	4' - 5"	4' - 5"	32	3' - 7"	4' - 8"	4' - 9"
4	28	47	1' - 11"	2' - 6"	2' - 6"	36	2' - 1"	2' - 8"	2' - 8"
	26	47	2' - 3"	2' - 11"	3' - 0"	36	2' - 5"	3' - 1"	3' - 2"
	24	47	2' - 9"	3' - 8"	3' - 8"	36	3' - 0"	3' - 11"	3' - 11"
	22	48	3' - 2"	4' - 3"	4' - 3"	36	3' - 5"	4' - 6"	4' - 7"
4.5	28	53	1' - 10"	2' - 5"	2' - 6"	40	2' - 0"	2' - 7"	2' - 7"
	26	53	2' - 2"	2' - 10"	2' - 11"	40	2' - 4"	3' - 1"	3' - 1"
	24	53	2' - 8"	3' - 6"	3' - 7"	41	2' - 11"	3' - 9"	3' - 10"
	22	54	3' - 1"	4' - 1"	4' - 1"	41	3' - 4"	4' - 5"	4' - 5"
5	28	59	1' - 10"	2' - 5"	2' - 5"	45	1' - 11"	2' - 6"	2' - 7"
	26	59	2' - 1"	2' - 9"	2' - 10"	45	2' - 3"	3' - 0"	3' - 0"
	24	59	2' - 7"	3' - 5"	3' - 6"	45	2' - 10"	3' - 8"	3' - 9"
	22	60	3' - 0"	3' - 11"	4' - 0"	46	3' - 3"	4' - 3"	4' - 4"

Material

All steel used to manufacture Cordeck’s 0.6” Form Deck will be galvanized, prime painted, or a combination of the two.

Prime Painted

1. All steel shall be produced to ASTM A1008 standard.
3. 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.

4. Field painting of prime painted material is recommended especially where the deck is exposed.

Galvanized

1. All G-60 or G-90 shall be produced to ASTM A653 standards.

2. All steel shall be coated to conform to ASTM A924 G-60 or G-90 for to Federal Specifications QQ-S-775.

3. Galvanized finish in G-60 coating is desirable in high moisture atmospheric conditions.

4. Cordeck shall not be responsible for the cleaning of the underside of the 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.

Accessories

1. Cordeck can supply metal deck accessories necessary to complete your project.

0.6” Form Deck

SDI Member

1. All steel deck material is manufactured by Steel Deck Institute members or manufactured in accordance to SDI.

2. Cordeck certifies that all material will be in accordance with the SDI Deck Manual specifications.

3. Cordeck’s 0.6” Form Deck conforms to all applicable SDI Deck Manual specifications.

Installation

1. Cordeck’s Metal Deck shall be installed by qualified and experienced workers.

2. Metal Deck installation drawings shall be submitted to the project architect and engineer for approval prior to the manufacture of materials.

3. Metal Deck shall be placed in accordance with approved erection drawings.

4. Metal 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, conduit, plumbing, vents, etc., shall be cut and reinforced 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 composite 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.

Attachment Cont.

3. Deck panels are to be fastened to all supports at 12” on center maximum with no 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 metal 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 condensations with a ventilated waterproof covering.

3. Bundles must be stacked so there is no danger of shifting or material damage. Bundles must be checked for tightness and re-tightened if necessary.

4. Deck bundles on the building frame must always be placed near a main supporting beam at the column or a wall. In no situation are the bundles to be placed on unbolted frames or unattached and unbridged joists. The structural frame must be properly braced to receive the bundles.