CORDECK building solutions

0.6” FORM DECK
Specification Sheet

FEATURES & 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.

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.

Tables shown are derived using Allowable Strength Design rationale. Allowable Uniform Load is based on the un-poured capacity of the steel deck, and include construction loading of a 20 psf distributed load or a 150 lb concentrated load. Superimposed loading of the hardened slab varies depending on the type and quantity of reinforcement used.

Maximum Construction spans shown include the concrete weight and construction loading of a 20 psf distributed load or a 150 lb 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.

CORDECK IS YOUR NATIONWIDE METAL DECK SUPPLY COMPANY

Roof Deck | **Form Deck** | **Cellular Roof Deck**

Composite Floor Deck | **Cellular Composite Floor Deck** | **Metal Deck Accessories**

sales@cordeck.com | 877-857-6400 | cordeck.com

0.6” FORM DECK

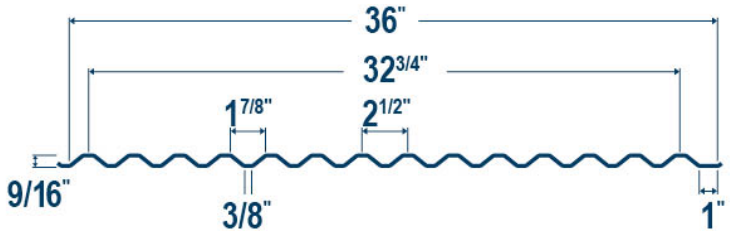
Section Properties

9/16" Form Deck Section Properties (ASD)										
Gage	t	Wd	Sp	Sn	Ip	In	Va	Rext	Rint	Fy
	in	psf	in^3/ft	in^3/ft	in^4/ft	in^4/ft	plf	plf	plf	ksi
28	0.0149	0.7	0.03	0.029	0.008	0.008	2432	916	1196	60
26	0.0179	0.84	0.037	0.035	0.01	0.01	3219	1265	1677	60
24	0.0239	1.25	0.049	0.047	0.013	0.013	4286	2095	2837	60
22	0.0299	1.41	0.061	0.059	0.017	0.017	5348	3088	4245	60

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 vary from what is shown.



0.6” FORM DECK

Allowable Uniform Load

9/16" Form Deck Load Table (psf)																			
Design Method: ASD Yield Strength: 60ksi																			
Gage	Span	Critera	2'-0"	2'-3"	2'-6"	2'-9"	3'-0"	3'-3"	3'-6"	3'-9"	4'-0"	4'-3"	4'-6"	4'-9"	5'-0"	5'-3"	5'-6"	5'-9"	6'-0"
28	1	L/360	43	30	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		L/240	65	45	33	25	-	-	-	-	-	-	-	-	-	-	-	-	-
		L/180	87	61	44	33	25	-	-	-	-	-	-	-	-	-	-	-	-
		L/120	131	92	67	50	38	30	24	-	-	-	-	-	-	-	-	-	-
		Stress	134	106	86	71	59	50	43	38	33	29	26	23	-	-	-	-	-
	2	L/360	105	73	53	40	31	24	-	-	-	-	-	-	-	-	-	-	-
		L/240	131	103	80	60	46	36	29	23	-	-	-	-	-	-	-	-	-
		L/180	131	103	83	69	58	48	39	31	26	21	-	-	-	-	-	-	-
		L/120	131	103	83	69	58	49	42	37	32	28	25	23	-	-	-	-	-
		Stress	131	103	83	69	58	49	42	37	32	28	25	23	-	-	-	-	-
	3	L/360	82	57	42	31	24	-	-	-	-	-	-	-	-	-	-	-	-
		L/240	123	86	63	47	36	28	22	-	-	-	-	-	-	-	-	-	-
		L/180	140	110	84	63	48	38	30	24	-	-	-	-	-	-	-	-	-
		L/120	140	110	89	74	62	53	45	37	30	25	21	-	-	-	-	-	-
		Stress	140	110	89	74	62	53	45	39	34	30	27	24	22	-	-	-	-
26	1	L/360	54	38	27	20	-	-	-	-	-	-	-	-	-	-	-	-	-
		L/240	81	57	41	31	23	-	-	-	-	-	-	-	-	-	-	-	-
		L/180	109	76	55	41	32	25	-	-	-	-	-	-	-	-	-	-	-
		L/120	163	114	83	62	48	37	30	24	-	-	-	-	-	-	-	-	-
		Stress	197	156	126	104	87	74	64	56	49	43	38	34	31	28	25	23	21
	2	L/360	131	92	67	50	38	30	24	-	-	-	-	-	-	-	-	-	-
		L/240	157	124	100	75	58	45	36	29	24	-	-	-	-	-	-	-	-
		L/180	157	124	100	83	69	59	48	39	32	27	22	-	-	-	-	-	-
		L/120	157	124	100	83	69	59	51	44	39	34	30	27	24	21	-	-	-
		Stress	157	124	100	83	69	59	51	44	39	34	30	27	24	22	-	-	-
	3	L/360	102	72	52	39	30	23	-	-	-	-	-	-	-	-	-	-	-
		L/240	154	108	78	59	45	35	28	23	-	-	-	-	-	-	-	-	-
		L/180	168	133	105	78	60	47	38	30	25	21	-	-	-	-	-	-	-
		L/120	168	133	107	89	74	63	54	46	38	31	26	22	-	-	-	-	-
		Stress	168	133	107	89	74	63	54	47	41	37	33	29	26	24	22	-	-
24	1	L/360	70	49	35	26	-	-	-	-	-	-	-	-	-	-	-	-	-
		L/240	105	74	53	40	30	24	-	-	-	-	-	-	-	-	-	-	-
		L/180	141	99	72	53	41	32	25	20	-	-	-	-	-	-	-	-	-
		L/120	212	149	108	81	62	48	39	31	25	21	-	-	-	-	-	-	-
		Stress	262	207	167	138	116	98	85	74	65	57	51	45	41	37	34	31	28
	2	L/360	170	119	86	65	49	39	31	25	20	-	-	-	-	-	-	-	-
		L/240	210	166	130	98	75	59	47	38	31	26	21	-	-	-	-	-	-
		L/180	210	166	134	111	93	79	63	51	42	34	29	24	21	-	-	-	-
		L/120	210	166	134	111	93	79	68	59	52	46	41	36	32	27	23	20	-
		Stress	210	166	134	111	93	79	68	59	52	46	41	36	33	29	27	24	22
	3	L/360	133	93	67	50	38	30	24	-	-	-	-	-	-	-	-	-	-
		L/240	200	140	102	76	58	46	36	29	24	-	-	-	-	-	-	-	-
		L/180	225	177	136	102	78	61	49	39	32	27	22	-	-	-	-	-	-
		L/120	225	177	143	118	99	84	73	60	49	41	34	29	24	21	-	-	-
		Stress	225	177	143	118	99	84	73	63	55	49	43	39	35	32	29	26	24
22	1	L/360	92	64	46	34	26	20	-	-	-	-	-	-	-	-	-	-	-
		L/240	138	97	70	52	40	31	25	-	-	-	-	-	-	-	-	-	-
		L/180	185	129	94	70	54	42	33	27	22	-	-	-	-	-	-	-	-
		L/120	278	195	141	106	81	64	51	41	33	28	23	-	-	-	-	-	-
		Stress	362	286	231	191	160	136	117	102	89	79	70	63	57	51	47	43	39
	2	L/360	223	156	113	85	65	51	40	33	27	22	-	-	-	-	-	-	-
		L/240	291	230	171	128	98	77	61	50	41	34	28	24	20	-	-	-	-
		L/180	291	230	186	154	129	103	82	67	55	45	38	32	27	23	20	-	-
		L/120	291	230	186	154	129	110	94	82	72	64	57	49	42	36	31	27	23
		Stress	291	230	186	154	129	110	94	82	72	64	57	51	46	41	37	34	31
	3	L/360	174	122	88	66	51	39	31	25	20	-	-	-	-	-	-	-	-
		L/240	261	183	133	100	76	60	48	38	31	26	22	-	-	-	-	-	-
		L/180	312	245	178	133	102	80	64	52	42	35	29	25	21	-	-	-	-
		L/120	312	246	199	164	138	117	97	78	64	53	45	38	32	28	24	21	-
		Stress	312	246	199	164	138	117	101	88	77	68	60	54	49	44	40	37	33

0.6” FORM DECK

Maximum Construction Clear Spans

9/16" Form Deck Unshored Clear Spans (LRFD)									
Total Concrete	Gage	Weight	NW Concrete 145 pcf			Weight	LW Concrete 110 pcf		
Depth (in)		(psf)	1 Span	2 Span	3 Span	(psf)	1 Span	2 Span	3 Span
2	28	21.5	2'-0"	2'-6"	2'-7"	16.5	2'-1"	2'-7"	2'-8"
	26	21.6	2'-9"	3'-6"	3'-6"	16.6	2'-11"	3'-8"	3'-8"
	24	22	3'-6"	4'-4"	4'-5"	17	3'-8"	4'-7"	4'-8"
	22	22.2	4'-5"	5'-7"	5'-8"	17.2	4'-9"	5'-11"	6'-0"
2.5	28	27.5	1'-11"	2'-5"	2'-6"	21	2'-0"	2'-6"	2'-7"
	26	27.6	2'-8"	3'-4"	3'-4"	21.2	2'-9"	3'-6"	3'-7"
	24	28.1	3'-3"	4'-2"	4'-2"	21.6	3'-6"	4'-5"	4'-5"
	22	28.2	4'-2"	5'-3"	5'-4"	21.7	4'-6"	5'-8"	5'-9"
3	28	33.6	1'-10"	2'-4"	2'-5"	25.6	2'-0"	2'-5"	2'-6"
	26	33.7	2'-6"	3'-2"	3'-3"	25.8	2'-8"	3'-4"	3'-5"
	24	34.1	3'-2"	4'-0"	4'-0"	26.2	3'-4"	4'-3"	4'-3"
	22	34.3	3'-11"	5'-0"	5'-1"	26.3	4'-3"	5'-5"	5'-5"
3.5	28	39.6	1'-10"	2'-3"	2'-4"	30.2	1'-11"	2'-5"	2'-5"
	26	39.7	2'-5"	3'-1"	3'-1"	30.3	2'-7"	3'-3"	3'-4"
	24	40.1	3'-0"	3'-10"	3'-10"	30.8	3'-3"	4'-1"	4'-1"
	22	40.3	3'-9"	4'-10"	4'-10"	30.9	4'-1"	5'-2"	5'-3"
4	28	45.6	1'-9"	2'-3"	2'-3"	34.8	1'-10"	2'-4"	2'-4"
	26	45.8	2'-4"	3'-0"	3'-0"	34.9	2'-6"	3'-2"	3'-2"
	24	46.2	2'-11"	3'-8"	3'-8"	35.3	3'-1"	3'-11"	4'-0"
	22	46.3	3'-7"	4'-7"	4'-8"	35.5	3'-11"	5'-0"	5'-0"
4.5	28	51.7	1'-8"	2'-2"	2'-2"	39.4	1'-10"	2'-3"	2'-4"
	26	51.8	2'-3"	2'-11"	2'-11"	39.5	2'-5"	3'-1"	3'-1"
	24	52.2	2'-9"	3'-6"	3'-7"	39.9	3'-0"	3'-10"	3'-10"
	22	52.4	3'-6"	4'-5"	4'-6"	40.1	3'-9"	4'-10"	4'-10"
5	28	57.7	1'-8"	2'-1"	2'-1"	44	1'-9"	2'-3"	2'-3"
	26	57.9	2'-2"	2'-10"	2'-10"	44.1	2'-4"	3'-0"	3'-0"
	24	58.3	2'-8"	3'-5"	3'-6"	44.5	2'-11"	3'-8"	3'-9"
	22	58.4	3'-4"	4'-3"	4'-4"	44.7	3'-8"	4'-8"	4'-8"

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.
2. 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.
3. 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 or 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 lapped 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. Metal floor 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. Accessories shall be attached to supporting structure or deck at a spacing not to exceed 12” o.c.
2. Temporary shoring, if required, shall be designed and installed in accordance with the standards applicable to the specific shoring system and shall be left in place until the concrete attains 75% of its specified design strength.
3. Welding of deck and accessories, when used, shall be in accordance with AWS D1.3. When steel headed stud anchors are used, the stud anchor shall be permitted as a substitute for an arc spot weld to the supporting structure.
4. Deck panels are to be fastened to all supports at 12” o.c. maximum unless more frequent fastener spacing is required for diaphragm design. Deck to be fastened using one of the following methods, depending on support thickness and hardness and designer approval:
    a. 3/4” minimum Arc Spot welds.
    b. Powder actuated or pneumatically driven fasteners.
    c. Screws with a minimum diameter of 0.216 inches (#12 diameter).

At deck butt joints, both sheets are to be fastened. Deck panels with spans greater than 5 feet shall have side lap fasteners.

5. Side laps shall be fastened at intervals not to exceed 36”, unless more frequent fastener spacing is required for diaphragm design, using one of the following methods, depending on designer approval:
    d. Screws with a minimum diameter of 0.19 inches (#10 diameter)
    e. Crimp or button punch.
    f. 5/8” minimum Arc Spot welds or a minimum 1 ½” long fillet or seam welds.
    g. Other sidelap attachments approved by the authority having jurisdiction.
6. Minimum fastener edge distances shall be determined in accordance with AISI S100.
7. Deck bearing surfaces shall be brought into contact as required by fastening methods.
8. 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.

CORDECK building solutions

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