

Product Information

- i. Prime Painted
 1. Cellular deck shall receive one coat of standard gray primer paint over cleaned and pretreated steel.
 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.
 - ii. Galvanized.
 1. All steel shall be coated to conform to ASTM A924 G-60 or G-90 or to Federal Specification QQ-S-775.
 2. Galvanized finish in G-60 or G-90 coating is desirable in high moisture atmospheric conditions.
 - B. 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.
- III. Accessories
- A. Cordeck can supply ridge & valley plates, cant strips, finish strips, sump pans, end & side closures, pour stops, deck plate, rubber cell closures, screws and other accessories needed to complete the project.

SDI Member

- I. All steel deck material is manufactured by Steel Deck Institute members or manufactured in accordance to sdi.
- II. Cordeck certifies that all material will be in accordance with the SDI Cellular Deck Manual specifications.
- III. Cordeck 1.5", 2" or 3" Composite Cellular Deck conforms to all applicable SDI Cellular Deck Manual specifications.

Installation

1. Cordeck Cellular Deck shall be installed by qualified and experienced workers.
2. Cellular deck installation drawings shall be submitted to the project architect and engineer for approval prior to the manufacture of materials.
3. Cellular 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. Cellular deck sheets shall be attached as soon as possible after placement. All sheets placed shall be attached prior to the end of each work day. Arc welding is the most commonly used method for attaching Cellular Deck to structural supports. Welder shall immediately follow 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. Caution shall be exercised on the selection of the electrodes to provide positive attachment and to prevent high amperage blow holes.
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. 1.5", 2" or 3" Composite Cellular deck ends shall be welded to structural supports at 12" on center maximum and 18" on center maximum at intermediate supports or as indicated on erection drawings.
 - B. Various mechanical fastening systems other than welding are recognized as viable anchoring methods provided that they are reviewed, approved or specified by the project designer. These include but are not limited to power-activated or pneumatically driven fasteners and screws.
 - C. Sheet to sheet, side laps shall be fastened together at a maximum spacing of 36 inches on center and perimeter edges at a maximum intervals of 12" on center or as indicated on erection drawings.

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 wall. In no case are the bundles to be placed on unbolting frames or on unattached and unbridged joists. The structural frame must be properly braced to receive the bundles.

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3.0" Cellular Floor Deck

Cellular Deck brought to you by the Customer Service Leader

Cordeck is a full-service manufacturer and stocking distributor of corrugated steel deck, flashing & 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 service leader for prompt, reliable deliveries, guaranteed quality and large inventory of gauges and profiles. Cordeck's composite cellular deck provides an ideal solution for long spans, flat acoustical ceilings, canopies and raceways. 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 & Benefits

Long spans are possible with composite cellular deck because of the strength the bottom plate adds to the deck.

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

Project management and engineering services are offered by Cordeck's full, expert, in-house engineering and detailing services to assure optimal planing and design. Our experienced engineers and technicians provide individual customer service and attention to detail from concept to completion.

AutoCAD(R) drawings. Can be transferred electronically via the internet or loaded onto CD for improved quality and reduced time and cost of drawing transmittal.

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

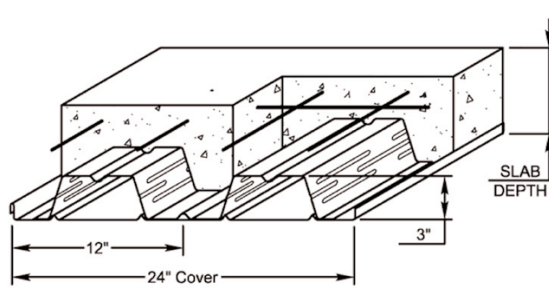
SDI Membership by the manufacturer guarantees product quality in accordance to the Steel Deck Institute.

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

Knowledgeable, courteous, caring employees through out our ranks. We're a "family business"...no "big corporate" attitude here! We genuinely appreciate our customers' patronage and trust, handling every order, regardless of size, with utmost care and attention.

"can do...whatever it takes"

3.0" Cellular Floor Deck



Section Properties (per foot of width)										
Gage	Design Thickness in	F _y ksi	S _p in ³	S _n in ³	I _p in ⁴	I _n in ⁴	A _s in ²	W _d psf	R _b lb	Ö V _n lb
20-20	0.0359 / 0.0359	50	0.588	0.669	1.095	1.114	1.04	3.6	1175	4425
18-20	0.0478 / 0.0359	40	1.042	0.965	1.735	1.507	1.24	4.2	2603	5910
18-18	0.0478 / 0.0478	40	0.879	0.916	1.691	1.562	1.42	4.8	2603	5910
16-18	0.0598 / 0.0478	40	1.248	1.246	2.076	2.066	1.58	5.4	3884	7430
16-16	0.0598 / 0.0598	40	1.161	1.148	2.136	2.218	1.76	6.0	3884	7430

145 psf Normal Weight Concrete

Total Slab Depth D	Maximum Unshored Clear Spans				Composite Properties					Superimposed Live Loads - psf: No Studs											
	Wt. Conc.	Gage	Single Span	Double Span	Triple Span	I _{avg} in ⁴	S _c in ³	Ö M _{nf} kip-ft	Ö M _{no} kip-ft	Ö V _{nt} kips	Span - Feet and Inches										
Area Conc.											7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	
5 1/2"	48.3 psf	37.2 in ²	20-20	10'-9"	13'-8"	14'-0"	14.56	2.91	155.2	123.7	6.93	400	400	400	400	387	351	319	291	266	244
			18-20	13'-1"	14'-9"	15'-3"	14.45	3.13	140.6	106.5	6.93	400	400	400	400	363	327	296	269	245	223
6"	54.3 psf	41.5 in ²	18-18	11'-11"	14'-4"	14'-10"	16.22	3.75	162.5	127.4	6.93	400	400	400	400	399	362	329	300	274	251
			16-18	13'-11"	16'-8"	16'-4"	15.83	3.82	162.5	127.4	6.93	400	400	400	400	399	362	329	300	274	251
6 1/2"	60.4 psf	46 in ²	16-16	13'-9"	16'-1"	16'-5"	18.5	4.78	193.6	162.5	6.93	400	400	400	400	400	400	400	393	360	331
			20-20	10'-3"	13'-1"	13'-7"	18.45	3.33	177.3	141.5	7.73	400	400	400	400	400	400	400	366	334	305
7"	66.4 psf	50.6 in ²	18-20	12'-5"	14'-1"	14'-7"	18.35	3.59	161.5	122.1	7.73	400	400	400	400	377	341	310	282	257	235
			16-18	13'-7"	16'-0"	15'-11"	20.12	4.40	186.1	145.8	7.73	400	400	400	400	400	400	400	377	344	315
7 1/2"	72.5 psf	55.4 in ²	16-16	13'-1"	15'-5"	15'-11"	23.33	5.44	223.2	185.1	7.73	400	400	400	400	400	400	400	400	400	378
			20-20	9'-10"	12'-7"	13'-0"	22.93	3.76	199.4	159.7	8.56	400	400	400	400	400	400	400	400	378	346
8"	78.5 psf	58.4 in ²	18-20	11'-11"	13'-7"	14'-0"	22.89	4.07	182.4	138.5	8.56	400	400	400	400	400	388	352	321	293	268
			16-18	13'-1"	15'-4"	15'-6"	25.11	5.00	209.7	164.8	8.56	400	400	400	400	400	400	400	391	357	328
8 1/2"	84.5 psf	61.4 in ²	16-16	12'-6"	14'-10"	15'-4"	28.91	6.13	252.8	208.5	8.56	400	400	400	400	400	400	400	400	400	400
			20-20	9'-7"	12'-2"	12'-7"	28.06	4.20	221.5	178.4	9.14	400	400	400	400	400	400	400	400	400	387
9"	90.5 psf	64.3 in ²	18-20	11'-7"	13'-1"	13'-6"	28.11	4.57	203.3	155.3	9.42	400	400	400	400	400	400	396	361	330	302
			16-18	10'-6"	12'-9"	13'-2"	31.27	5.42	233.3	184.3	9.42	400	400	400	400	400	400	400	400	400	400
9 1/2"	96.5 psf	67.2 in ²	16-18	12'-9"	14'-10"	15'-2"	30.85	5.62	233.3	184.3	9.42	400	400	400	400	400	400	400	400	400	400
			16-16	12'-2"	14'-3"	14'-9"	35.27	6.84	282.4	232.5	9.42	400	400	400	400	400	400	400	400	400	400
10"	102.5 psf	70.0 in ²	20-20	9'-4"	11'-9"	12'-1"	33.88	4.65	243.6	197.4	9.58	400	400	400	400	400	400	400	400	400	394
			18-20	11'-3"	12'-8"	13'-1"	34.06	5.08	224.2	172.5	10.31	400	400	400	400	400	400	400	400	400	368
10 1/2"	108.5 psf	72.7 in ²	18-18	10'-3"	12'-4"	12'-8"	37.75	6.01	257.0	204.2	10.31	400	400	400	400	400	400	400	400	400	400
			16-18	12'-5"	14'-4"	14'-10"	37.4	6.26	257.0	204.2	10.31	400	400	400	400	400	400	400	400	400	400
11"	114.5 psf	75.4 in ²	16-16	11'-10"	13'-10"	14'-3"	42.46	7.56	311.9	257.1	10.31	400	400	400	400	400	400	400	400	400	400

Product Information

Design

- I. Cordeck certifies that our 1.5", 2" or 3" Composite Cellular 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.
 - II. Load shown in tables is uniformly distributed total (dead plus live) load in psf (kPa). Loads in shaded areas are governed by live load deflection not in excess of L/240, the dead load included in 10 psf (0.478 kPa). All loads are governed by the allowable flexural stress limit of 20 ksi (140 Mpa) maximum yield steel. Where heavy construction loads or other unusual concentrated loads are anticipated during the lifetime of the deck, the specified live load must be increased to offset the effects of the abnormal concentrated load. See Maximum Spans for Construction and Maintenance Loads in the SDI Design Manual.
 - III. 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.
 - IV. Span length assumes center to center spacing of supports. Tabulated loads shall not be increased by assuming clear span dimensions.
- The information presented in this cut sheet has been prepared in accordance with generally recognized engineering principles. We recommend that this information not be used or relied upon for any application without a thorough review and approval by a licensed professional engineer, designer or architect of the proposed application.

3.0" Cellular Floor Deck

115 psf Normal Weight Concrete

Total Slab Depth D	Maximum Unshored Clear Spans				Composite Properties					Superimposed Live Loads - psf: No Studs													
	Wt. Conc.	Gage	Single Span	Double Span	Triple Span	I _{avg} in ⁴	S _c in ³	Ö M _{nf} kip-ft	Ö M _{no} kip-ft	Ö V _{nt} kips	Span - Feet and Inches												
Area Conc.											7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"			
4 1/2"	33.2 psf	30.3 in ²	20-20	9'-4"	12'-5"	12'-3"	6.59	2.13	118.3	90.4	5.65	400	400	400	400	400	390	349	314	284	257		
			18-20	11'-8"	13'-3"	13'-8"	6.80	2.33	109.0	79.2	5.65	400	400	400	400	380	338	302	272	245	222		
5"	38 psf	34.6 in ²	18-18	11'-0"	12'-10"	13'-4"	8.21	3.07	128.8	104.2	5.65	400	400	400	400	400	400	400	366	331	300		
			16-18	12'-3"	15'-0"	14'-5"	7.88	3.02	128.8	104.2	5.65	400	400	400	400	400	400	400	400	366	331	300	
5 1/4"	40.4 psf	36.7 in ²	20-20	8'-10"	11'-10"	11'-11"	8.85	2.52	139.1	107.1	6.44	400	400	400	400	400	400	400	400	374	338	306	
			18-20	11'-1"	12'-8"	13'-1"	9.14	2.77	128.5	94.1	6.44	400	400	400	400	400	400	400	400	361	324	293	265
5 1/2"	42.8 psf	39 in ²	16-18	10'-5"	12'-4"	12'-9"	10.87	3.58	151.1	121.6	6.44	400	400	400	400	400	400	400	400	400	387	351	
			16-16	11'-11"	14'-5"	14'-0"	10.55	3.57	151.1	121.6	6.44	400	400	400	400	400	400	400	400	400	400	387	351
6 1/4"	50 psf	45.9 in ²	16-16	11'-8"	13'-10"	14'-0"	11.90	4.31	177.9	146.4	6.44	400	400	400	400	400	400	400	400	400	400		
			20-20	8'-8"	11'-7"	11'-9"	10.15	2.72	149.5	115.7	6.84	400	400	400	400	400	400	400	400	400	366	332	
6 1/2"	50 psf	45.9 in ²	18-20	10'-10"	12'-5"	12'-10"	10.49	2.99	138.3	101.8	6.84	400	400	400	400	400	400	391	351	317	287		
			16-18	10'-2"	12'-1"	12'-6"	12.39	3.84	162.2	130.5	6.84	400	400	400	400	400	400	400	400	400	400	377	
7"	54.3 psf	41.5 in ²	16-16	11'-5"	13'-6"	13'-10"	13.58	4.63	191.9	157.5	6.84	400	400	400	400	400	400	400	400	400	400		
			20-20	8'-5"	11'-5"	11'-7"	11.56	2.93	159.9	124.4	7.26	400	400	400	400	400	400	400	400	400	400	394	357
7 1/2"	58.4 psf	44.3 in ²	18-20	10'-7"	12'-2"	12'-7"	11.95	3.22	148.1	109.6	7.26	400	400	400	400	400	400	400	400	400	379	342	310
			16-18	10'-0"	11'-10"	12'-3"	14.04	4.10	173.4	139.5	7.26	400	400	400	400	400	400	400	400	400	400	400	400
8"	62.5 psf	47.2 in ²	16-18	11'-7"	13'-10"	13'-7"	13.75	4.15	173.4	139.5	7.26	400	400	400	400	400	400	400	400	400	400		
			16-16	11'-2"	13'-3"	13'-8"	15.41	4.96	205.8	168.8	7.26	400	400	400	400	400	400	400	400	400	400	400	
8 1/2"	66.5 psf	50.0 in ²	20-20	7'-11"	10'-9"	10'-11"	16.54	3.55	191.1	151.0	7.92	400	400	400	400	400	400	400	400	400	400		
			18-20	9'-11"	11'-6"	11'-11"	17.13	3.93	177.4	133.7	8.12	400	400	400	400	400	400	400	400	400	400	400	
9"	70.5 psf	52.7 in ²	18-18	9'-4"	11'-3"	11'-7"	19.82	4.92	206.8	167.4	8.12	400	400	400	400	400	400	400	400	400	400		
			16-18	11'-0"	13'-1"	13'-1"	19.61	5.05	206.8	167.4	8.12	400	4										