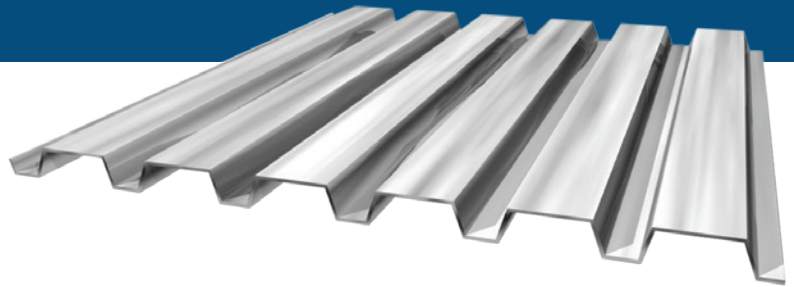




# 1.5" 'B' Wide Rib Roof Deck



## 'B' 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 service leader for prompt, reliable deliveries, guaranteed quality, and large inventory of gauges and profiles. Cordeck's 'B' Deck provides an ideal solution. 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.

**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.

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

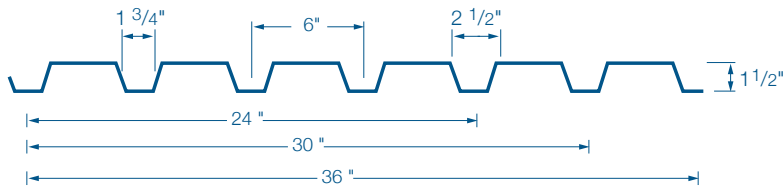
**AutoCAD® drawings** can be transferred electronically via the internet or loaded onto a CD for improved quality and reduced time and cost of drawing transmittal.

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

**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 throughout 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.

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1.5" Type 'B' Roof Deck Section Properties						
Select Properties						
Deck Type	t in	Wd psf	Sp in <sup>3</sup> /ft	Sn in <sup>3</sup> /ft	I in <sup>4</sup> /ft	Fy ksi
22	0.0295	1.81	0.192	0.198	0.164	33
20	0.0358	2.16	0.243	0.255	0.212	33
18	0.0474	2.85	0.331	0.341	0.306	33
16	0.0598	3.54	0.408	0.411	0.373	33

1.5" Type 'B' Roof Deck																
No. of Spans	Deck Type	Max. SDI Const. Span	Allowable Uniform Total Load PSF-Type B36, B30, and B24													
			Span - Feet and Inches (ctr. To ctr. Supports)													
			3'-6"	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"
1	22	5'-6"	207	158	125	101	84	70	60	52	45	40	35	31	28	25
	20	6'-3"	262	201	158	128	106	89	76	65	57	50	44	40	36	32
	18	7'-6"	356	273	215	175	144	121	103	89	78	68	60	54	48	44
	16	8'-8"	444	340	269	215	178	149	127	110	96	84	74	66	60	54
2	22	6'-6"	213	163	129	105	86	73	62	53	46	41	36	32	29	26
	20	7'-5"	275	210	166	135	111	93	80	69	60	53	47	42	37	34
	18	8'-10"	368	281	222	180	149	125	107	92	80	70	62	56	50	45
	16	10'-3"	447	343	271	213	176	149	127	110	95	84	74	66	60	54
3	22	6'-6"	267	204	161	131	108	91	77	67	58	51	45	40	36	33
	20	7'-5"	343	263	208	168	139	117	100	86	75	66	58	52	47	42
	18	8'-10"	460	352	278	225	186	156	133	115	100	88	78	70	62	56
	16	10'-3"	559	428	338	254	219	185	158	136	119	105	93	83	74	67

## Product Information Design

- Cordeck certifies that our 'B' Roof 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.
- 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.
- 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.

## Material

All steel to be used in Cordeck Type 'B' Wide Rib Roof Deck will be galvanized, prime painted, or a combination of the two.

### 1. Prime Painted

- Roof 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 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.

# 1.5" 'B' Wide Rib Roof Deck

## 3. Accessories

- a. Cordeck can supply ridge and valley plates, cant strips, finish strips, sump pans, end and side closures, pour stops, deck late, rubber cell closures, screws, and other accessories needed to complete the project.

1.5" Type 'B' Roof Deck SDI - Maximum Spans for Construction and Maintenance Loads Standard			
Deck Profile	Deck Type	Span Condition	Maximum Span
Wide Rib Deck	WR22	1	5'-6"
		2 or more	6'-6"
	WR20	1	6'-3"
		2 or more	7'-5"
Wide Rib Deck	WR18	1	7'-6"
		2 or more	8'-10"

1.5" Type 'B' Roof Deck FM Allowable Spans			
Deck Profile	Design Thickness		
Type B	0.0295	0.0358	0.0474
Wide Rib	6'	6'-6"	7'-5"

1.5" Type 'B' Roof Deck SDI Maximum Cantilever Spans for 1-1/2" Roof Deck		
Deck Profile	Deck Type	Cantilever Span
Type B Wide Rib	BW22	1'-11"
	BW20	2'-4"
	BW18	2'-10"

# 1.5" 'B' Wide Rib Roof 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 Cellular Deck Manual specifications.
3. Cordeck 1.5" 'B' Wide Rib Roof Deck conforms to all applicable SDI Cellular Deck Manual specifications.

## Installation

1. Cordeck Steel Roof Deck shall be installed by qualified and experienced workers.
2. Roof deck installation drawings shall be submitted to the project architect and engineer for approval prior to the manufacture of materials.
3. Steel roof deck shall be placed in accordance with approved erection drawings.
4. End laps shall be a nominal 2" and positioned over supports.
5. Position each deck unit on a supporting structural frame. Adjust to final position with accurately aligned side laps and ends bearing on supporting members. On joist framing, be sure the appropriate end laps occur over a top chord angle for proper anchorage.
6. When one row is placed end to end, begin another, making alignment adjustment if necessary.
7. Each deck unit shall be placed on supporting steel framework and adjusted steel framework.
8. 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, by the trades requiring the openings.

## Attachment

1. Roof 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 Cordeck Steel Roof 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" Roof deck ends shall be welded to structural supports at 12" on center maximum and 18" on center maximum at intermediate supports.
  - b. Various mechanical fastening systems other than welding are recognized as viable anchoring methods provided 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. When spans exceed 5'-0", side laps shall be fastened together at a maximum spacing of 36" on center.

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.
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 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.

"Whatever it takes"



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