

VULCRAFT

A DIVISION OF NUCOR CORPORATION



STEEL DECKS FOR ROOFS AND FLOORS

VULCRAFT
CATALOG T-1980



5

METAL DECKING

MEMBER



NUCOR



A DIVISION OF NUCOR CORPORATION

INTRODUCTION:

Vulcraft, a name that is well known in the steel joist and joist girder industry, has expanded its product line to meet the ever growing demand for steel roof deck. Vulcraft offers a wide variety of ribbed roof decks and corrugated form decks. Vulcraft roof decks and form decks are accurately roll formed in varying configurations on the most modern roll forming equipment available. Vulcraft offers an economical selection of roof and form decks to structurally execute spans up to ten feet. With a large selection to choose from, Vulcraft roof decks and form decks offer a structurally sound base for varying spans and insulation thicknesses.

Vulcraft, a reputable company associated with growth, reliable service, quality products and timely performance, is striving to intensify this reputation in its expanded product line.

WHY USE STEEL DECK FOR ROOFS AND FLOORS?

1. Economy, from basic low cost and high strength of steel.
2. Lightweight, durable and attractive.
3. Design flexibility.
4. Fast all-weather construction.
5. Provides lateral diaphragm action.
6. Fire rated.
7. Increased profit to owner due to earlier occupancy.

TABLE OF CONTENTS

BASIC DESIGN SPECIFICATIONS	PAGE
Ribbed Roof Decks	3
Section Properties (Types 1.5A & 1.5F)	4
Vertical Load Tables (Types 1.5A & 1.5F)	5
Section Properties (Types 1.5B & 1.5BI)	6
Vertical Load Tables (Types 1.5B & 1.5BI)	7
SITE STORAGE & ERECTION	
(Types 1.5A, 1.5F, 1.5B, 1.5BI)	8
Suggested Architects	
Roof Deck Specifications	
(Types 1.5A, 1.5F, 1.5B, 1.5BI)	8
BASIC DESIGN SPECIFICATIONS	
"CONFORM"	9
RECOMMENDED "CONFORM"	
DECK SPECIFICATIONS	9
Section Properties "CONFORM"	
(.6C, 1.0C, 1.3C)	10
Vertical Loads "CONFORM"	11

WHY VULCRAFT IS YOUR BEST CHOICE?

1. Knowledgeable and experienced engineers to assist the designer in any steel deck requirements.
2. Large sales forces strategically located to better serve your needs.
3. Large inventories of steel that allow for quicker deliveries.
4. Modern, accurate roll forming equipment.
5. Highly skilled and efficient manufacturing personnel.
6. Fast deliveries due to Vulcraft's large fleet of trucks.

BASIC DESIGN SPECIFICATIONS

1. SCOPE

The requirements of this section shall govern only ribbed steel roof deck construction of varying configurations as manufactured by Vulcraft and used for the support of roofing materials and design live loads.

(Suspended ceilings, light fixtures, ducts or other utilities shall not be supported by the steel deck).

2. DESIGN AND MATERIAL

A.) MATERIAL

Vulcraft steel deck shall be formed from steel conforming to ASTM-A611 grade C, D, or E or ASTM-A446 grade A, B, C, D, E, F or equal having a minimum yield strength of 33,000 psi.

The unit design stress shall in no case exceed the minimum yield strength of the steel divided by 1.65 for specific design uniform loads. The unit design stress shall be increased 33-1/3% for temporary concentrated loads provided the deck thus required is not less than that required for the specific design uniform loads. The maximum working stress shall not exceed 20,000 pounds per square inch.

The thickness of the steel before coating with paint or metal shall be in conformance with the following table:

Type No.	Design Thickness / in.	Minimum Thickness / in.
24	.0239	.023
22	.0295	.028
20	.0358	.034
18	.0474	.045

B.) SECTION PROPERTIES

Structural adequacy of Vulcraft deck sections are established by the determination of Section Modulus and Moment of Inertia, computations for which are in accordance with conventional methods of structural design. Vulcraft computations reflect the concept of "effective compression flange width" as limited by the appropriate provisions of the latest edition of the A.I.S.I. "Specifications for the Design of Cold-Formed Steel Structural Members".

C.) MOMENT DEFLECTION COEFFICIENTS

A moment coefficient of 1/8 is used for simple and dual spans and a moment coefficient of 1/10 is used for 3 or more spans. A deflection coefficient of 3/384 is used for all except simple spans for which the deflection coefficient of 5/384 is used.

D.) MAXIMUM DEFLECTIONS

Deflection of Vulcraft decks shall not exceed 1/240 of the span under the uniformly distributed design live load or when subjected to a 200 pound temporary concentrated load applied to a 1 foot width of deck when placed at the midpoint of the end span. All spans are considered center to center of supports.*

E.) ANCHORAGE

Steel deck units shall be anchored to the supporting frame work to resist the following gross uplifts of 45 pounds per square foot for eave overhangs and 30 pounds per square foot for all other roof areas. The dead load of the roof deck construction shall be deducted from the above uplift forces.

For welded installations, welds shall be proportioned so that the unit shear stress shall not exceed 13,600 psi on the throat of the fillet or plug welds as specified by The American Iron & Steel Institutes' "Specification for the Design of Cold Formed Steel Structural Members", Section 4.2.1.

F.) PROTECTION

All Vulcraft steel roof decks shall be free of oil, grease and dirt, then given a shop coat of priming paint or metal. The prime coat is intended to protect the steel for only a short period of exposure in ordinary atmospheric conditions and must be considered an impermanent and provisional coating.

G.) LOAD TABLES

Loads shown are uniformly distributed total (dead & live) loads in PSF. Loads in shaded areas are governed by live load deflection not in excess of 1/240 x span. The dead load included is 10 psf. All other loads are governed by the allowable flexural stress limit of 20,000 psi for a 33,000 psi minimum yield. Bending moment formulae used for flexural stress limitations are:

$$\text{Simple and two span } M = \frac{wl^2}{8}$$

$$\text{Three span or more } M = \frac{wl^2}{10}$$

Deflection formulae for deflection limitations are:

$$\text{Simple span } \Delta = \frac{5wl^4}{384EI}$$

$$\text{Two & three span } \Delta = \frac{3wl^4}{384EI}$$

*See construction load tables on page 8.



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VULCRAFT ROOF DECKS

TYPE 1.5 A

Narrow Rib

Available in 36" cover width.

Maximum sheet length 40'0.

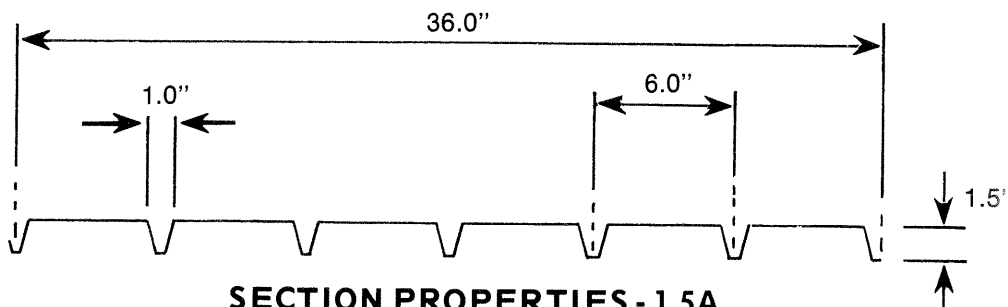
Minimum sheet length 2'0.

Extra charge for lengths under 6'0".

The nestable quality of this section eliminates the need for die-set ends.

Vulcraft diaphragm shear values are available on request from your local sales office.

These shear values have been approved by the International Conference of Building Officials in Research Recommendation No. 3415.



SECTION PROPERTIES - 1.5A

Type No.	Design Thickness	Weight Lb./Ft. ²		Ip in. 4/ft	Sp in. 3/ft	In in. 4/ft	Sn in. 3/ft
		Painted	Galv.				
1.5A24	0.0239	1.37	1.47	.075	.073	.092	.082
1.5A22	0.0295	1.69	1.79	.100	.094	.116	.103
1.5A20	0.0358	2.05	2.15	.129	.117	.141	.125
1.5A18	0.0474	2.74	2.84	.184	.160	.187	.165

- Notes:
1. All dimensions, depth, width, rib opening, etc., are nominal and are subject to manufacturing tolerances.
 2. Bundle weights normally do not exceed 4000 pounds.
 3. Sheet length accuracy is plus or minus 1/2 inch.
 4. Filler strips available on request.
 5. Welding washers available on request.

TYPE 1.5 F

Intermediate Rib

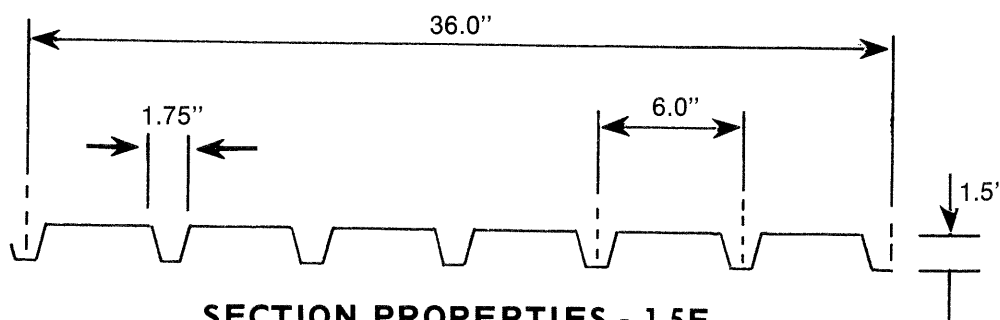
Available in 36" cover width.

Maximum sheet length 40'0.

Minimum sheet length 2'0.

Extra charge for lengths under 6'0".

The nestable quality of this section eliminates the need for die-set ends.

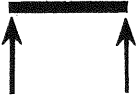
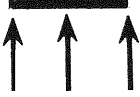



SECTION PROPERTIES - 1.5F




Type No.	Design Thickness	Weight lb./ft. ²		Ip in. 4/ft	Sp in. 3/ft	In in. 4/ft	Sn in. 3/ft
		Painted	Galv.				
1.5F24	0.0239	1.31	1.41	.082	.084	.100	.094
1.5F22	0.0295	1.62	1.72	.110	.108	.125	.118
1.5F20	0.0358	1.97	2.07	.142	.135	.152	.143
1.5F18	0.0474	2.68	2.78	.201	.184	.202	.189

VERTICAL LOAD TABLES

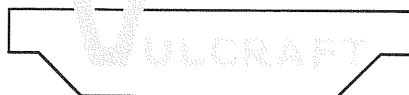
1.5A & 1.5F

1.5 A	Design Thickness	Span Condition	Allowable total (dead & live) uniform load in pounds per sq. ft. (PSF)												
			SPAN LENGTH												
			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
1.5A 24	0.0239	Simple 	61	48	39	32	27	—	—	—	—	—	—	—	—
1.5A 22	0.0295		78	62	50	41	35	30	26	—	—	—	—	—	—
1.5A 20	0.0358		98	77	62	52	43	37	32	28	—	—	—	—	—
1.5A 18	0.0474		133	105	85	71	59	50	44	38	33	30	26	—	—
1.5A 24	0.0239	Double 	68	54	44	36	30	26	—	—	—	—	—	—	—
1.5A 22	0.0295		86	68	55	45	38	33	28	—	—	—	—	—	—
1.5A 20	0.0358		104	82	67	55	46	39	34	30	26	—	—	—	—
1.5A 18	0.0474		137	109	88	73	61	52	45	39	34	30	27	—	—
1.5A 24	0.0239	Triple 	85	67	55	45	38	32	28	—	—	—	—	—	—
1.5A 22	0.0295		107	85	69	57	48	41	35	31	27	—	—	—	—
1.5A 20	0.0358		130	103	83	69	58	49	43	37	33	29	26	—	—
1.5A 18	0.0474		172	136	110	91	76	65	56	49	43	38	34	30	27

- Notes:
- Load tables are calculated using sectional properties based on the steel design thicknesses shown in the Steel Deck Institute (SDI) Design Manual.
 - Loads shown in the shaded areas are governed by live load deflection not in excess of 1/240 of the span. A dead load of 10 PSF has been included.
 - The products identified are in compliance with the Standard Load Table and Basic Design Specifications of the Steel Deck Institute and to the dimensional parameters established for that load table.

1.5 F	Design Thickness	Span Condition	Allowable total (dead & live) uniform load in pounds per sq. ft. (PSF)												
			SPAN LENGTH												
			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
1.5F 24	0.0239	Simple 	70	55	45	37	31	27	—	—	—	—	—	—	—
1.5F 22	0.0295		90	71	58	48	40	34	29	26	—	—	—	—	—
1.5F 20	0.0358		112	89	72	60	50	43	37	32	28	25	—	—	—
1.5F 18	0.0474		153	121	98	81	68	58	48	41	36	31	28	25	—
1.5F 24	0.0239	Double 	78	62	50	41	35	30	26	—	—	—	—	—	—
1.5F 22	0.0295		98	78	63	52	44	37	32	28	25	—	—	—	—
1.5F 20	0.0358		119	94	76	63	53	45	39	34	30	26	—	—	—
1.5F 18	0.0474		158	124	101	83	70	60	51	45	39	35	31	28	25
1.5F 24	0.0239	Triple 	98	77	63	52	44	37	32	28	—	—	—	—	—
1.5F 22	0.0295		123	97	79	65	55	47	40	35	31	27	—	—	—
1.5F 20	0.0358		149	118	95	79	66	56	49	42	37	33	29	26	—
1.5F 18	0.0474		197	156	126	104	88	75	64	56	49	44	39	35	32

Vulcraft reserves the right to change the design and/or the specifications of its products without prior notice.



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VULCRAFT ROOF DECKS

TYPE 1.5 B

Wide Rib (non-interlocking)
Available in 36" cover width.

Maximum sheet length is 40'0"

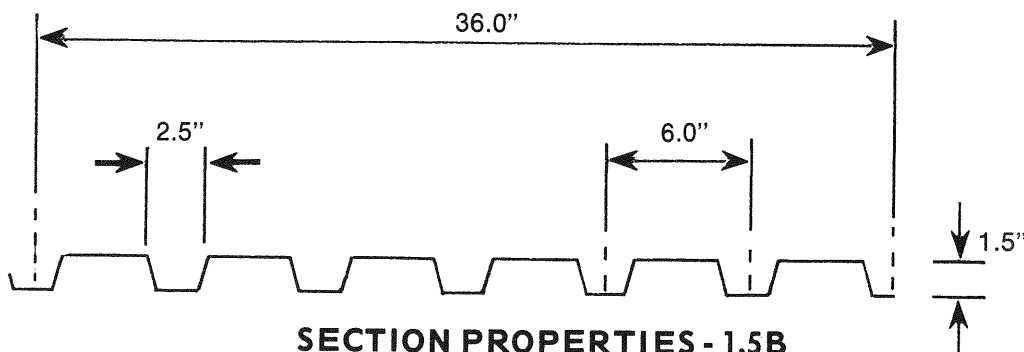
Minimum sheet length is 2'0"

Extra charge for lengths
under 6'0".

The nestable quality of this
section eliminates the need
for die-set ends.

Vulcraft diaphragm shear
values are available on request
from your local sales office.

These shear values have been
approved by the International
Conference of Building
Officials in Research
Recommendation No. 3415.



SECTION PROPERTIES - 1.5B

Type No.	Design Thickness	Weight lb./ft. ²		Ip in. 4/ft.	Sp in. 3/ft	In in. 4/ft	Sn in. 3/ft
		Painted	Galv.				
1.5B24	0.0239	1.37	1.47	.114	.140	.142	.156
1.5B22	0.0295	1.69	1.79	.152	.185	.179	.194
1.5B20	0.0358	2.05	2.15	.197	.230	.218	.243
1.5B18	0.0474	2.74	2.84	.288	.314	.291	.323

- Notes:
1. All dimensions, depth, width, rib opening, etc. are nominal and are subject to manufacturing tolerances.
 2. Bundle weights normally do not exceed 4000 lbs.
 3. Sheet length accuracy is plus or minus ½ inch.
 4. Filler strips available on request.
 5. Welding washers available on request.

TYPE 1.5 BI

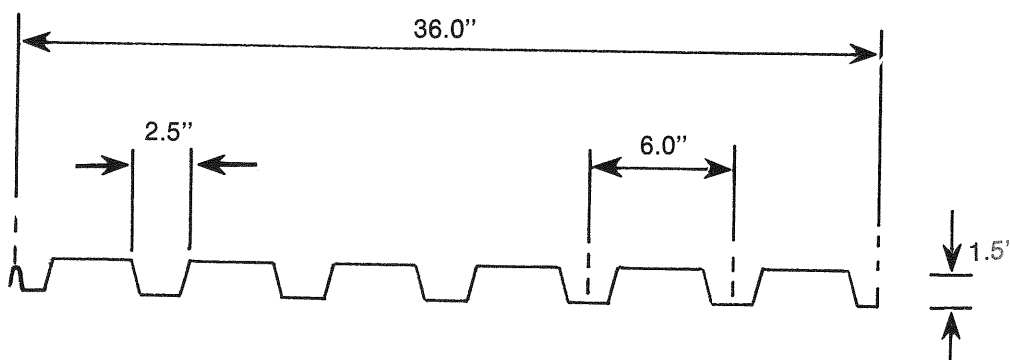
Wide Rib (interlocking)
Available in 36" cover width.

Maximum sheet length 40'0"

Minimum sheet length 2'0"

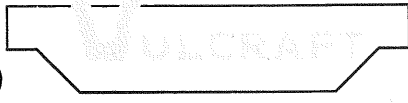
Extra charge for lengths
under 6'0".

The nestable quality of this
section eliminates the need
for die-set ends.



SECTION PROPERTIES - 1.5BI

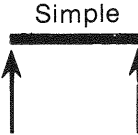
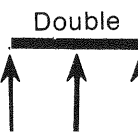
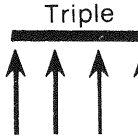
Type No.	Design Thickness	Weight lb./ft. ²		Ip in. 4/ft	Sp in. 3/ft.	In in. 4/ft	Sn in. 3/ft
		Painted	Galv.				
1.5BI24	0.0239	1.38	1.48	.114	.140	.142	.156
1.5BI22	0.0295	1.70	1.80	.152	.185	.179	.194
1.5BI20	0.0358	2.07	2.17	.197	.230	.218	.243
1.5BI18	0.0474	2.76	2.86	.288	.314	.291	.323



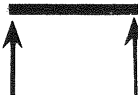


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VERTICAL LOAD TABLES

1.5B & 1.5BI

1.5 B	Design Thickness	Span Condition	Allowable total (dead & live) uniform load in pounds per sq. ft. (PSF)												
			SPAN LENGTH												
			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
1.5B 24	0.0239		117	92	70	55	45	37	32	28	25	—	—	—	—
1.5B 22	0.0295		154	119	90	70	56	46	39	34	29	26	—	—	—
1.5B 20	0.0358		192	151	113	88	70	57	48	41	35	31	28	25	—
1.5B 18	0.0474		262	207	159	122	96	78	64	54	46	40	36	32	29
1.5B 24	0.0239		130	103	83	69	58	49	42	37	32	29	26	—	—
1.5B 22	0.0295		162	128	103	86	72	61	53	46	40	36	32	29	26
1.5B 20	0.0358		202	160	130	107	90	77	66	58	51	45	40	35	32
1.5B 18	0.0474		269	213	172	142	120	102	88	77	67	60	53	46	41
1.5B 24	0.0239		162	128	104	85	68	55	46	40	34	30	27	25	—
1.5B 22	0.0295		202	160	129	107	87	70	58	49	42	37	33	29	27
1.5B 20	0.0358		253	200	162	134	110	88	73	61	52	45	40	35	32
1.5B 18	0.0474		336	266	215	178	150	123	100	84	71	61	53	46	41

- Notes:
1. Load tables are calculated using sectional properties based on the steel design thicknesses shown in the Steel Deck Institute (SDI) Design Manual.
 2. Loads shown in the shaded areas are governed by live load deflection not in excess of 1/240 of the span. A dead load of 10 PSF has been included.
 3. The products identified are in compliance with the Standard Load Table and Basic Design Specifications of the Steel Deck Institute and to the dimensional parameters established for that load table.

1.5 BI	Design Thickness	Span Condition	Allowable total (dead & live) uniform load in pounds per sq. ft. (PSF)													
			SPAN LENGTH													
			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	
1.5BI 24	0.0239		117	92	70	55	45	37	32	28	25	—	—	—	—	
1.5BI 22	0.0295		154	119	90	70	56	46	39	34	29	26	—	—	—	
1.5BI 20	0.0358		192	151	113	88	70	57	48	41	35	31	28	25	—	
1.5BI 18	0.0474		262	207	159	122	96	78	64	54	46	40	36	32	29	
1.5BI 24	0.0239		130	103	83	69	58	49	42	37	32	29	26	—	—	
1.5BI 22	0.0295		162	128	103	86	72	61	53	46	40	36	32	29	26	
1.5BI 20	0.0358		202	160	130	107	90	77	66	58	51	45	40	35	32	
1.5BI 18	0.0474		269	213	172	142	120	102	88	77	67	60	53	46	41	
1.5BI 24	0.0239		162	128	104	85	68	55	46	40	34	30	27	25	—	
1.5BI 22	0.0295		202	160	129	107	87	70	58	49	42	37	33	29	27	
1.5BI 20	0.0358		253	200	162	134	110	88	73	61	52	45	40	35	32	
1.5BI 18	0.0474		336	266	215	178	150	123	100	84	71	61	53	46	41	

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VULCRAFT ROOF DECKS

SITE STORAGE AND ERECTION

SITE STORAGE

Vulcraft roof decks are generally supplied with a prime coat of paint which is not intended to assure protection for extended periods of time when exposed to the elements. Steel decks shall be stored off the ground with one end elevated to provide drainage and shall be protected from the elements with a waterproof covering, ventilated to avoid condensation.

ERECTION

Deck sheets shall be placed in accordance with approved erection layout drawings supplied by Vulcraft or in conformance with the deck manufacturer's standards. Roofs having a slope of 1/4 inch or more in 12 inches shall be erected beginning at the low side to insure that end laps are shingle fashion. End laps of sheets shall be a minimum of 2 inches and shall occur over supports. Care shall be exercised to avoid overloading the structural elements when placing bundles of steel deck on the roof. Any construction live loads during erection and roofing shall be distributed by appropriate means to prevent damage to the previously installed components.

CONSTRUCTION LOADS TABLE
VULCRAFT 1.5" ROOF DECKS

	Type	Span Condition	*Span Ft.-In.
NARROW RIB DECK	1.5A 22	1	3' 10"
	1.5A 22	2 or more	4' 9"
	1.5A 20	1	4' 10"
	1.5A 20	2 or more	5' 11"
	1.5A 18	1	5' 11"
	1.5A 18	2 or more	6' 11"
INTERMEDIATE RIB DECK	1.5F 22	1	4' 6"
	1.5F 22	2 or more	5' 6"
	1.5F 20	1	5' 3"
	1.5F 20	2 or more	6' 3"
	1.5F 18	1	6' 2"
	1.5F 18	2 or more	7' 4"
WIDE RIB DECK	1.5B 22	1	5' 6"
	1.5B 22	2 or more	6' 6"
	1.5B 20	1	6' 3"
	1.5B 20	2 or more	7' 5"
	1.5B 18	1	7' 6"
	1.5B 18	2 or more	8' 10"

*Note: Spans governed by a maximum stress of 26,600 psi and maximum deflection of 1/240 with a 200 pound concentrated load at midspan on a 1'0" width section of deck.

ARCHITECTS' ROOF DECK SPECIFICATIONS

SCOPE

This section shall include all materials, equipment and labor necessary for the installation of steel roof decking, complete, in accordance with this specification and drawings. Requirements for deck supports, field painting, sumps, flashings, drains, collars, gutters, or other miscellaneous items are specified elsewhere as needed.

MATERIAL

The steel roof deck shall be (narrow, intermediate or wide) rib configuration, Type (choose one) (1.5A, 1.5F, 1.5B1) as manufactured by Vulcraft and shall be designed in accordance with the "Basic Design Specifications" as adopted by the STEEL DECK INSTITUTE.

LOADS

The deck shall be capable of supporting a uniformly distributed live load of _____ pounds per square foot without live load deflection exceeding 1/240 of the span length, c. to c. of supports and a uniformly distributed load of _____ pounds per square foot without exceeding a unit stress of 20,000 psi.

FINISH

Roof deck shall receive one prime coat of Vulcraft's standard paint, or shall be zinc coated.

ACCESSORIES

Ridge and valley plates and steel cant strips attached directly to the steel deck as shown on the plans to provide a finished surface for the application of insulation and roofing, shall be furnished by Vulcraft when requested.

SHORTAGES

All sheets must be counted while in bundles. Vulcraft will not accept any shortages from opened bundles.

INSTALLATION

Steel deck shall be erected and fastened in accordance with the Steel Deck Institute Specification for Attachment of Steel Deck to Supporting Members, and Vulcraft's specifications and erection layouts. Cutting openings through the deck less than 16 square feet in area, and all skew cutting, shall be performed in the field.

VULCRAFT "CONFORM" DECK

BASIC DESIGN SPECIFICATIONS

1. SCOPE

The requirements of this section shall govern only corrugated "CONFORM" deck construction of varying configurations as manufactured by Vulcraft and used for the support of insulating concrete for roof deck fill.

2. MATERIAL

Vulcraft "CONFORM" decks are formed from high tensile strength steel sheets having an average minimum yield strength of 95,000 psi for 28 gage, and 80,000 psi for 26, 24, 22, 20 gages.

3. FINISH

"CONFORM" sections are available in galvanized, prime painted, or uncoated steel sheets.

NOTE: Use of uncoated sheets for lightweight concrete fill construction is not recommended.

4. WELDING WASHERS

For welded attachment, 18 gage washers are available. The welder strikes an arc, burns a hole through the deck sheet and builds a puddle weld from joist or beam into the washer.

5. VENTING*

Vulcraft "CONFORM" deck sections are roll formed without built in vent dimples on the side laps.*

6. SLOTTED "CONFORM" (Must specify)

"CONFORM" deck sections are available in a slotted version, this provides continuous venting slots on the bottom of the ribs. For optimum drying purposes, it is recommended that roof insulation be used in conjunction with slotted "CONFORM" deck. The slotted version provides a minimum 1½% open area per square foot of roof.

*For vented deck please specify.

RECOMMENDED "CONFORM" DECK SPECIFICATIONS

1. SCOPE

The section shall include materials, labor and equipment necessary for the complete erection of "CONFORM" deck in accordance with the specifications and contract drawings.

2. MATERIAL

"CONFORM" deck shall be as manufactured by Vulcraft of the type, thickness, and finish as here in after specified. Thickness of the steel used in the forming of the "CONFORM" deck shall be within the decimal tolerances for the thickness specified.

3. ERECTION

"CONFORM" deck shall be installed on supporting frame work with side laps up. The minimum end lap shall be two inches occurring over the supports. The deck shall be welded to the supports through 18 gage welding washers in the pattern shown on the architectural drawings. Minimum bearing shall be two inches. Cutting and framing of openings for other trades shall be the responsibility of the trade involved.

4. NOTES

"CONFORM" load tables (on page 11) are based upon the following:

- a.) A design stress of 30,000 PSI.
- b.) The following uniform loading formulae coefficients:

$$\text{Single Span } M = wl^2/8 \\ \Delta = .0130wl^4/EI$$

$$\text{Double Span } M = wl^2/8 \\ \Delta = .0054wl^4/EI$$

$$\text{Triple Span } M = wl^2/10 \\ \Delta = .0068wl^4/EI$$

CONCRETE ADMIXTURES CONTAINING CHLORIDE OR CHLORIDE SALTS SHALL **NOT** BE USED WITH GALVANIZED "CONFORM".



A DIVISION OF NUCOR CORPORATION

Vulcraft "CONFORM" Deck

.6C

Finishes available, galvanized, uncoated or prime painted.

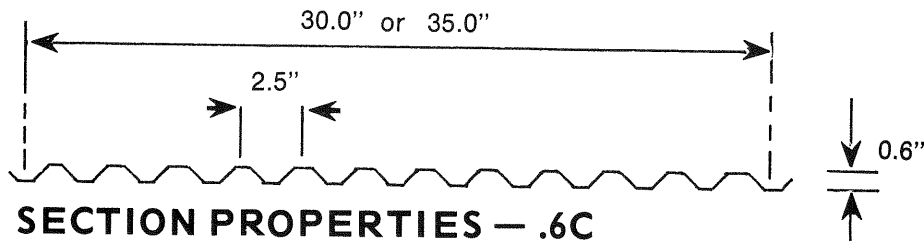
Welding washers available on request.

Maximum sheet length 30'0".

Minimum sheet length 2'0".

Extra charge for lengths under 6'0".

Sheet length accuracy $\pm \frac{1}{2}$ ".



SECTION PROPERTIES — .6C

TYPE	DESIGN THICK.	NOMINAL COVER	I IN. 4 FT.	S IN. 3 FT.	WGT. LB./FT. ²	
					GALV.	BLACK
.6C 28	0.0149	30"	0.011	0.035	.83	.74
.6C 26	0.0179	35"	0.013	0.042	.98	.88
.6C 24	0.0239	35"	0.017	0.055	1.28	1.18
.6C 22	0.0295	35"	0.021	0.068	1.55	1.45

1.0C

Finishes available, galvanized uncoated or prime painted.

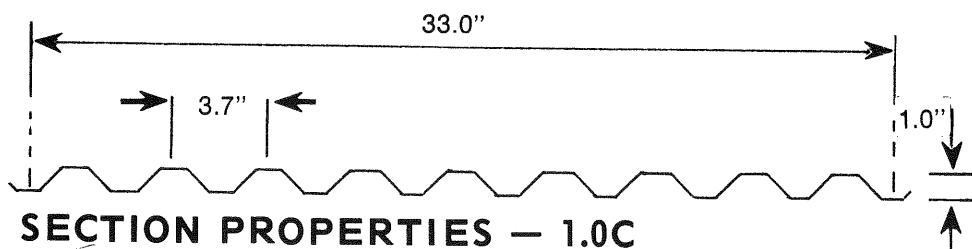
Welding washers available on request.

Maximum sheet length 35'0".

Minimum sheet length 2'0".

Extra charge for lengths under 6'0".

Sheet length accuracy $\pm \frac{1}{2}$ ".



SECTION PROPERTIES — 1.0C

TYPE	DESIGN THICK.	NOMINAL COVER	I IN. 4 FT.	S IN. 3 FT.	WGT. LB./FT. ²	
					GALV.	BLACK
1.0C 28	0.0149	33"	0.030	0.060	.88	.78
1.0C 26	0.0179	33"	0.036	0.073	1.03	.93
1.0C 24	0.0239	33"	0.048	0.096	1.35	1.25
1.0C 22	0.0295	33"	0.060	0.118	1.64	1.54
1.0C 20	0.0358	33"	0.073	0.143	1.97	1.87

1.3C

Finishes available, galvanized, uncoated or prime painted.

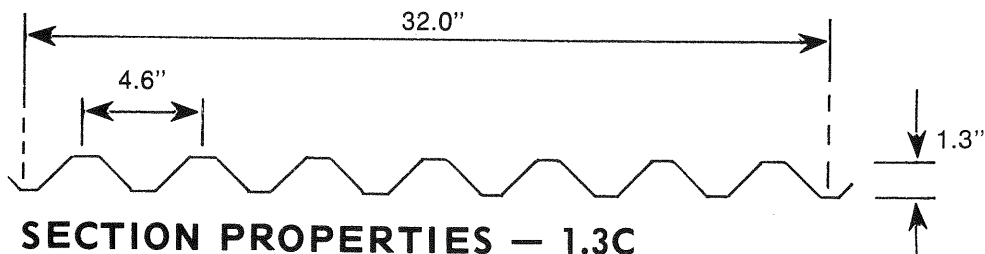
Welding washers available on request.

Maximum sheet length 40'0".

Minimum sheet length 2'0".

Extra charge for lengths under 6'0".

Sheet length accuracy $\pm \frac{1}{2}$ ".



SECTION PROPERTIES — 1.3C

TYPE	DESIGN THICK.	NOMINAL COVER	I IN. 4 FT.	S IN. 3 FT.	WGT. LB./FT. ²	
					GALV.	BLACK
1.3C 28	0.0149	32"	0.056	0.079	.90	.80
1.3C 26	0.0179	32"	0.067	0.097	1.06	.96
1.3C 24	0.0239	32"	0.089	0.130	1.39	1.29
1.3C 22	0.0295	32"	0.111	0.160	1.69	1.59
1.3C 20	0.0358	32"	0.135	0.194	2.02	1.92

NOTE: All properties are computed in accordance with the latest edition of the "A.I.S.I. Specifications for Cold Formed Steel Structural Members"

VERTICAL LOADS — "CONFORM"

Allowable total and deflection load (in pounds per square foot) PSF

TYPE		DESIGN CONDITION	THREE SPAN CONDITION																
			2'0	2'6	3'0	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
.6C	28	Stress	30,000	219	140	98	72	55	44	35	29	25	—	—	—	—	—	—	—
		Defl.	L/240	171	88	51	32	22	15	11	9	7	—	—	—	—	—	—	—
		Defl.	L/180	219	117	68	43	29	20	15	11	9	—	—	—	—	—	—	—
	26	Stress	30,000	263	168	117	86	66	52	42	35	30	25	—	—	—	—	—	—
		Defl.	L/240	202	104	60	38	26	18	13	10	8	6	—	—	—	—	—	—
		Defl.	L/180	263	138	80	51	34	24	18	13	10	8	—	—	—	—	—	—
	24	Stress	30,000	—	220	153	113	86	68	55	46	39	33	29	25	—	—	—	—
		Defl.	L/240	—	135	79	50	33	24	17	13	10	8	7	5	—	—	—	—
		Defl.	L/180	—	180	105	66	44	31	23	17	14	11	9	7	—	—	—	—
	22	Stress	30,000	—	272	189	139	107	84	68	57	48	41	35	31	27	—	—	—
		Defl.	L/240	—	167	97	61	41	29	21	16	13	10	8	7	6	—	—	—
		Defl.	L/180	—	223	129	82	55	39	28	21	17	13	11	9	7	—	—	—

TYPE		DESIGN CONDITION	THREE SPAN CONDITION																
			2'0	2'6	3'0	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
1.0C	28	Stress	30,000	—	240	167	123	94	75	60	50	42	36	31	27	—	—	—	—
		Defl.	L/240	—	239	138	87	59	41	30	23	18	14	11	9	—	—	—	—
		Defl.	L/180	—	240	167	116	78	55	40	30	23	19	15	12	—	—	—	—
	26	Stress	30,000	—	292	203	149	115	91	73	61	51	44	38	33	29	26	—	—
		Defl.	L/240	—	286	166	105	70	50	36	27	21	17	14	11	9	8	—	—
		Defl.	L/180	—	292	203	139	94	66	48	36	28	22	18	15	12	10	—	—
	24	Stress	30,000	—	—	267	196	150	119	96	80	67	57	49	43	38	34	30	27
		Defl.	L/240	—	—	221	139	94	66	48	36	28	22	18	15	12	10	9	7
		Defl.	L/180	—	—	267	186	125	88	64	48	37	29	24	19	16	13	11	10
	22	Stress	30,000	—	—	—	241	185	146	118	98	82	70	61	53	47	41	37	33
		Defl.	L/240	—	—	—	174	117	82	60	45	35	28	22	18	15	13	11	9
		Defl.	L/180	—	—	—	232	156	109	80	60	46	37	29	24	20	17	14	12
	20	Stress	30,000	—	—	—	292	224	177	143	119	100	85	73	64	56	50	45	40
		Defl.	L/240	—	—	—	212	142	100	73	55	42	33	27	22	18	15	13	11
		Defl.	L/180	—	—	—	282	189	133	97	73	56	44	36	29	24	20	17	15

TYPE		DESIGN CONDITION	THREE SPAN CONDITION																
			2'0	2'6	3'0	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
1.3C	28	Stress	30,000	—	—	220	162	124	98	79	66	55	47	41	36	31	28	25	—
		Defl.	L/240	—	—	220	162	109	77	56	42	33	26	21	17	14	12	10	—
		Defl.	L/180	—	—	220	162	124	98	75	56	43	34	28	22	19	16	13	—
	26	Stress	30,000	—	—	270	198	152	120	97	81	68	58	50	44	38	34	30	27
		Defl.	L/240	—	—	270	194	130	92	67	50	39	31	25	20	17	14	12	10
		Defl.	L/180	—	—	270	198	152	120	89	67	52	41	33	27	22	19	16	13
	24	Stress	30,000	—	—	—	266	204	161	130	108	91	77	67	58	51	45	41	37
		Defl.	L/240	—	—	—	258	173	122	89	67	52	41	33	27	22	18	16	13
		Defl.	L/180	—	—	—	266	204	161	118	89	69	54	43	35	29	24	21	18
	22	Stress	30,000	—	—	—	—	250	198	160	133	112	95	82	72	63	56	50	45
		Defl.	L/240	—	—	—	—	216	152	111	83	64	51	41	33	27	23	19	17
		Defl.	L/180	—	—	—	—	250	198	147	111	86	67	54	44	36	30	26	22
	20	Stress	30,000	—	—	—	—	—	240	194	161	135	115	99	87	76	68	60	54
		Defl.	L/240	—	—	—	—	—	184	134	101	78	61	49	40	33	28	23	20
		Defl.	L/180	—	—	—	—	—	240	179	135	104	82	66	53	44	37	31	27