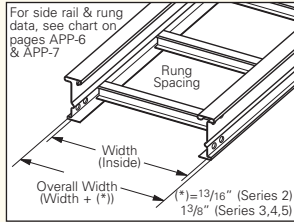


3" NEMA VE 1 Loading Depth 4" Side Rail Height

Straight Section Part Numbering

Prefix
Example: **248 P 09 - 24 - 144**

Series	Material	*Type	*Width	Length
● 248	● P = Pre-Galvanized ● G = HDGAF	Ladder- ● 06 = 6" rung spacing ● 09 = 9" rung spacing ● 12 = 12" rung spacing	● 06 = 6" ● 09 = 9" ● 12 = 12" ● 18 = 18" ● 24 = 24" ● 30 = 30" ● 36 = 36"	● ① 144 = 12 ft. ● ② 120 = 10 ft.
● 346				● ① 240 = 20 ft. ● ② 144 = 12 ft.
● 444				● ① 240 = 20 ft. ● ② 288 = 24 ft.



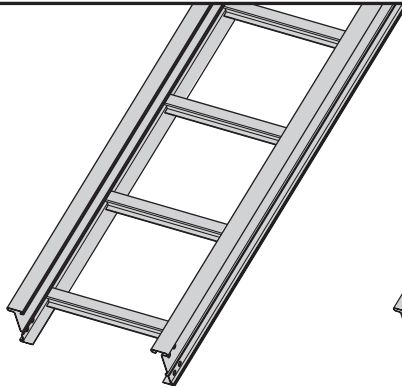
Trough- 6" thru 36" wide

- VT = Ventilated Trough
- ST = Non-Ventilated Trough

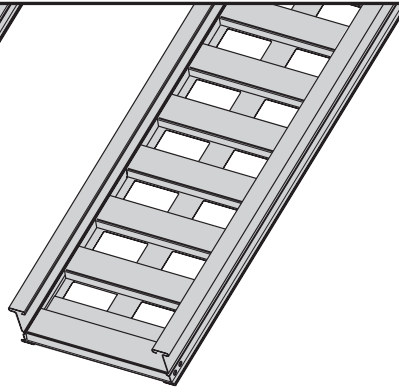
① Primary Length.
② Secondary Length.

See page C-23 for explanation of lengths.

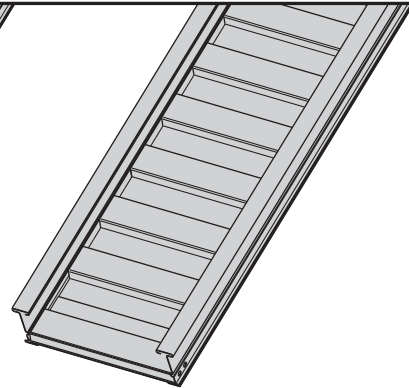
See page APP-1 for additional rung options. *Special sizes available.



Ladder Type
(Specify Rung Spacing)



Ventilated Trough



Non-Ventilated Trough

● Green = Fastest shipped items ● Black = Normal lead-time items ● Red = Normally long lead-time items

All dimensions in parentheses are millimeters unless otherwise specified.

3" NEMA VE 1 Loading Depth 4" Side Rail Height

Values are based on simple beam tests per NEMA VE 1 on 36" wide cable tray with rungs spaced on 12" centers. Cable trays will support without collapse a 200 lb. (90.7 kg) concentrated load over and above published loads. Published load safety factor is 1.5. To convert 1.5 safety factor to 2.0, multiply published load by 0.75. To obtain mid-span deflection, multiply a load by the deflection multiplier. Cable tray must be supported on spans shorter than or equal to the length of the cable tray being installed.

Individual rungs will support without collapse a 200 lb. (90.7 kg) concentrated load applied at the mid-span of the rung, over and above the NEMA rated cable load with a 1.5 safety factor for highlighted NEMA spans and loads.

B-Line Series	Side Rail Dimensions	NEMA, CSA & UL Classifications	Span ft	Load lbs/ft	Deflection Multiplier	Design Factors for Two Rails	Span meters	Load kg/m	Deflection Multiplier	Design Factors for Two Rails
248		NEMA: 16A, 12C CSA: D1-3m UL Cross-Sectional Area: 0.40 in ²	6	412*	0.0007	Area = 0.62 in ² Sx = 0.64 in ³ Ix = 1.43 in ⁴	1.8	613*	0.012	Area = 4.00 cm ² Sx = 10.49 cm ³ Ix = 59.52 cm ⁴
			8	232	0.0022		2.4	345	0.038	
			10	148	0.0054		3.0	221	0.093	
			12	103	0.011		3.7	153	0.192	
			14	76	0.021		4.3	113	0.356	
			16	58	0.036		4.9	86	0.607	

B-Line Series	Side Rail Dimensions	NEMA, CSA & UL Classifications	Span ft	Load lbs/ft	Deflection Multiplier	Design Factors for Two Rails	Span meters	Load kg/m	Deflection Multiplier	Design Factors for Two Rails
346		NEMA: 20A, 16B CSA: D1-6m UL Cross-Sectional Area: 0.70 in ²	10	252	0.0036	Area = 0.89 in ² Sx = 0.96 in ³ Ix = 2.22 in ⁴	3.0	375	0.060	Area = 5.74 cm ² Sx = 15.73 cm ³ Ix = 92.40 cm ⁴
			12	175	0.0072		3.7	260	0.124	
			14	129	0.013		4.3	191	0.229	
			16	98	0.023		4.9	146	0.391	
			18	78	0.037		5.5	116	0.626	
			20	63	0.056		6.1	94	0.955	

B-Line Series	Side Rail Dimensions	NEMA, CSA & UL Classifications	Span ft	Load lbs/ft	Deflection Multiplier	Design Factors for Two Rails	Span meters	Load kg/m	Deflection Multiplier	Design Factors for Two Rails
444		NEMA: 20B, 16C CSA: E-3m UL Cross-Sectional Area: 1.00 in ²	12	253	0.0055	Area = 1.19 in ² Sx = 1.27 in ³ Ix = 2.94 in ⁴	3.7	376	0.093	Area = 7.68 cm ² Sx = 20.81 cm ³ Ix = 122.37 cm ⁴
			16	142	0.027		4.9	212	0.295	
			18	112	0.028		5.5	167	0.473	
			20	91	0.042		6.1	135	0.721	
			22	75	0.062		6.7	112	1.055	
			24	63	0.088		7.3	94	1.495	

*When using 18" rung spacing, load capacity is limited to 394 lbs/ft (586.272 kg/m) for 30" cable tray width and 325 lbs/ft (483.6 kg/m) for 36" cable tray width. When cable trays are used in continuous spans, the deflection of the cable tray is reduced by as much as 50%. Design factors: Ix = Moment of Inertia, Sx = Section Modulus.

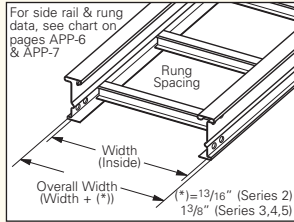
All dimensions in parentheses are millimeters unless otherwise specified.

4" NEMA VE 1 Loading Depth 5" Side Rail Height

Straight Section Part Numbering

Example: ^{Prefix} **258 P 09 - 24 - 144**

Series	Material	*Type	*Width	Length	
● 258	● P = Pre-Galvanized ● G = HDGAF	Ladder- ● 06 = 6" rung spacing ● 09 = 9" rung spacing ● 12 = 12" rung spacing	● 06 = 6" ● 09 = 9" ● 12 = 12" ● 18 = 18" ● 24 = 24" ● 30 = 30" ● 36 = 36"	● ① 144 = 12 ft. ● ② 120 = 10 ft.	258
● 356				● ① 240 = 20 ft. ● ② 144 = 12 ft.	356
● 454				● ① 240 = 20 ft. ● ② 288 = 24 ft.	454



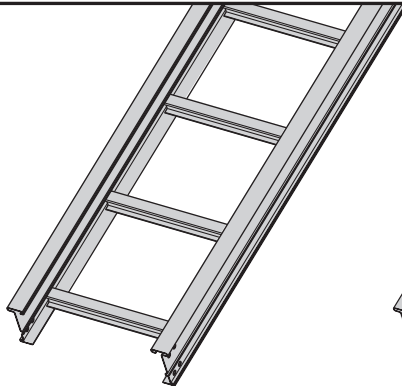
Trough- 6" thru 36" wide

- VT = Ventilated Trough
- ST = Non-Ventilated Trough

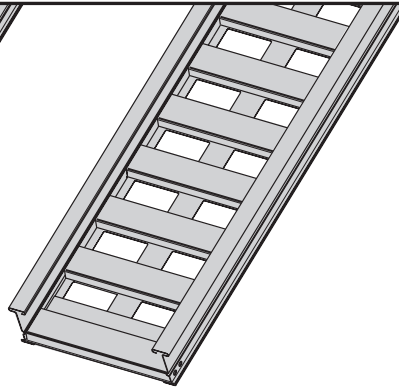
① Primary Length.
② Secondary Length.

See page C-23 for explanation of lengths.

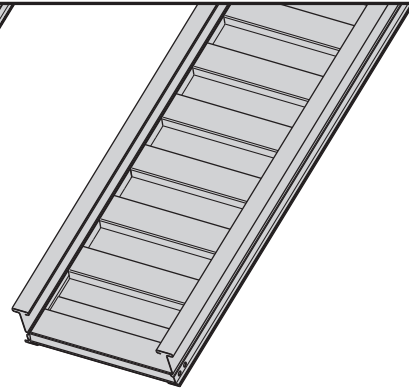
See page APP-1 for additional rung options. *Special sizes available.



Ladder Type
(Specify Rung Spacing)



Ventilated Trough



Non-Ventilated Trough

● Green = Fastest shipped items ● Black = Normal lead-time items ● Red = Normally long lead-time items

All dimensions in parentheses are millimeters unless otherwise specified.

4" NEMA VE 1 Loading Depth 5" Side Rail Height

Values are based on simple beam tests per NEMA VE 1 on 36" wide cable tray with rungs spaced on 12" centers. Cable trays will support without collapse a 200 lb. (90.7 kg) concentrated load over and above published loads. Published load safety factor is 1.5. To convert 1.5 safety factor to 2.0, multiply published load by 0.75. To obtain mid-span deflection, multiply a load by the deflection multiplier. Cable tray must be supported on spans shorter than or equal to the length of the cable tray being installed.

Individual rungs will support without collapse a 200 lb. (90.7 kg) concentrated load applied at the mid-span of the rung, over and above the NEMA rated cable load with a 1.5 safety factor for highlighted NEMA spans and loads.

B-Line Series	Side Rail Dimensions	NEMA, CSA & UL Classifications	Span ft	Load lbs/ft	Deflection Multiplier	Design Factors for Two Rails	Span meters	Load kg/m	Deflection Multiplier	Design Factors for Two Rails
258		NEMA: 16A, 12C CSA: D1-3m UL Cross-Sectional Area: 0.40 in ²	6	436*	0.0004	Area = 0.71 in ² Sx = 0.89 in ³ Ix = 2.44 in ⁴	1.8	649*	0.007	Area = 4.58 cm ² Sx = 14.58 cm ³ Ix = 101.56 cm ⁴
			8	245	0.0013		2.4	365	0.022	
			10	157	0.0032		3.0	234	0.054	
			12	109	0.0066		3.7	162	0.113	
			14	80	0.012		4.3	119	0.209	
			16	61	0.021		4.9	91	0.356	

B-Line Series	Side Rail Dimensions	NEMA, CSA & UL Classifications	Span ft	Load lbs/ft	Deflection Multiplier	Design Factors for Two Rails	Span meters	Load kg/m	Deflection Multiplier	Design Factors for Two Rails
356		NEMA: 20A, 16C CSA: D1-6m UL Cross-Sectional Area: 0.70 in ²	10	276	0.0021	Area = 1.00 in ² Sx = 1.31 in ³ Ix = 3.73 in ⁴	3.0	411	0.036	Area = 6.45 cm ² Sx = 21.47 cm ³ Ix = 155.25 cm ⁴
			12	192	0.0043		3.7	285	0.074	
			14	141	0.0080		4.3	210	0.136	
			16	108	0.014		4.9	160	0.233	
			18	85	0.022		5.5	127	0.373	
			20	69	0.033		6.1	103	0.568	

B-Line Series	Side Rail Dimensions	NEMA, CSA & UL Classifications	Span ft	Load lbs/ft	Deflection Multiplier	Design Factors for Two Rails	Span meters	Load kg/m	Deflection Multiplier	Design Factors for Two Rails
454		NEMA: 20C CSA: E-6m UL Cross-Sectional Area: 1.00 in ²	12	294	0.0032	Area = 1.34 in ² Sx = 1.75 in ³ Ix = 4.96 in ⁴	3.7	438	0.055	Area = 8.65 cm ² Sx = 28.68 cm ³ Ix = 206.45 cm ⁴
			16	166	0.010		4.9	246	0.175	
			18	131	0.016		5.5	195	0.280	
			20	106	0.026		6.1	158	0.427	
			22	88	0.037		6.7	130	0.625	
			24	74	0.052		7.3	110	0.886	

*When using 18" rung spacing, load capacity is limited to 394 lbs/ft (586.272 kg/m) for 30" cable tray width and 325 lbs/ft (483.6 kg/m) for 36" cable tray width. When cable trays are used in continuous spans, the deflection of the cable tray is reduced by as much as 50%. Design factors: Ix = Moment of Inertia, Sx = Section Modulus.

All dimensions in parentheses are millimeters unless otherwise specified.

5" NEMA VE 1 Loading Depth 6" Side Rail Height

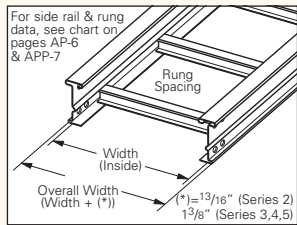
Straight Section Part Numbering

Example: $\frac{\text{Prefix}}{268 \text{ P } 09 - 24 - 144}$

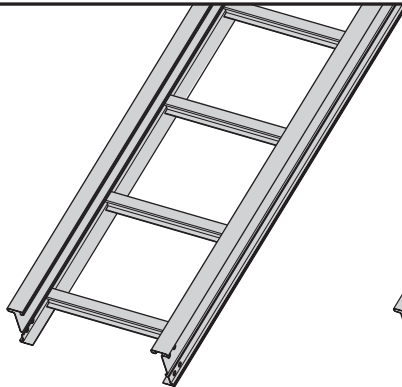
Series	Material	*Type	*Width	Length
● 268	● P = Pre-Galvanized ● G = HDGAF	Ladder- ● 06 = 6" rung spacing ● 09 = 9" rung spacing ● 12 = 12" rung spacing	● 06 = 6" ● 09 = 9" ● 12 = 12" ● 18 = 18" ● 24 = 24" ● 30 = 30" ● 36 = 36"	● ① 144 = 12 ft. ● ② 120 = 10 ft.
● 366				● ① 240 = 20 ft. ● ② 144 = 12 ft.
● 464				● ① 240 = 20 ft. ● ② 288 = 24 ft.

① Primary Length.
② Secondary Length.

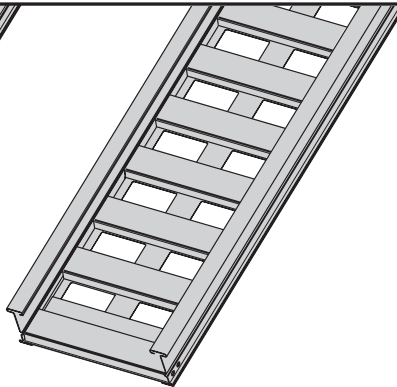
See page C-23 for explanation of lengths.



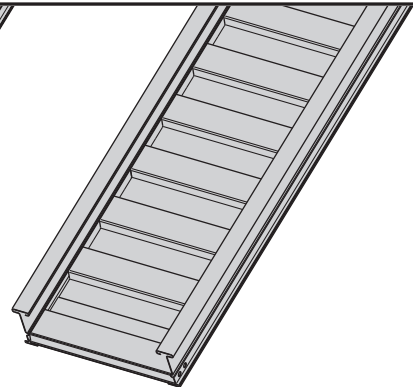
See page APP-1 for additional rung options. *Special sizes available.



Ladder Type
(Specify Rung Spacing)



Ventilated Trough



Non-Ventilated Trough

● Green = Fastest shipped items ● Black = Normal lead-time items ● Red = Normally long lead-time items

All dimensions in parentheses are millimeters unless otherwise specified.

5" NEMA VE 1 Loading Depth 6" Side Rail Height

Values are based on simple beam tests per NEMA VE 1 on 36" wide cable tray with rungs spaced on 12" centers. Cable trays will support without collapse a 200 lb. (90.7 kg) concentrated load over and above published loads. Published load safety factor is 1.5. To convert 1.5 safety factor to 2.0, multiply published load by 0.75. To obtain mid-span deflection, multiply a load by the deflection multiplier. Cable tray must be supported on spans shorter than or equal to the length of the cable tray being installed.

Individual rungs will support without collapse a 200 lb. (90.7 kg) concentrated load applied at the mid-span of the rung, over and above the NEMA rated cable load with a 1.5 safety factor for highlighted NEMA spans and loads.

B-Line Series	Side Rail Dimensions	NEMA, CSA & UL Classifications	Span ft	Load lbs/ft	Deflection Multiplier	Design Factors for Two Rails	Span meters	Load kg/m	Deflection Multiplier	Design Factors for Two Rails
268		NEMA: 16A, 12C CSA: D1-3m UL Cross-Sectional Area: 0.70 in ²	6	440*	0.0003	Area = 0.80 in ² Sx = 1.18 in ³ Ix = 3.81 in ⁴	1.8	655*	0.005	Area = 5.16 cm ² Sx = 19.34 cm ³ Ix = 158.58 cm ⁴
			8	248	0.0008		2.4	368	0.014	
			10	158	0.0020		3.0	236	0.035	
			12	110	0.0042		3.7	164	0.072	
			14	81	0.0078		4.3	120	0.134	
			16	62	0.013		4.9	92	0.228	

B-Line Series	Side Rail Dimensions	NEMA, CSA & UL Classifications	Span ft	Load lbs/ft	Deflection Multiplier	Design Factors for Two Rails	Span meters	Load kg/m	Deflection Multiplier	Design Factors for Two Rails
366		NEMA: 20B, 16C CSA: E-6m UL Cross-Sectional Area: 1.00 in ²	10	300	0.0014	Area = 1.11 in ² Sx = 1.71 in ³ Ix = 5.74 in ⁴	3.0	446	0.023	Area = 7.16 cm ² Sx = 28.02 cm ³ Ix = 238.92 cm ⁴
			12	208	0.0028		3.7	310	0.048	
			14	153	0.0052		4.3	228	0.089	
			16	117	0.0089		4.9	174	0.151	
			18	93	0.014		5.5	138	0.242	
			20	75	0.022		6.1	112	0.369	

B-Line Series	Side Rail Dimensions	NEMA, CSA & UL Classifications	Span ft	Load lbs/ft	Deflection Multiplier	Design Factors for Two Rails	Span meters	Load kg/m	Deflection Multiplier	Design Factors for Two Rails
464		NEMA: 20C CSA: E-6m UL Cross-Sectional Area: 1.00 in ²	12	342*	0.002	Area = 1.49 in ² Sx = 2.27 in ³ Ix = 7.65 in ⁴	3.7	508*	0.035	Area = 9.61 cm ² Sx = 37.36 cm ³ Ix = 318.42 cm ⁴
			16	192	0.007		4.9	286	0.113	
			18	152	0.011		5.5	226	0.182	
			20	123	0.016		6.1	183	0.277	
			22	102	0.024		6.7	151	0.406	
			24	85	0.034		7.3	127	0.574	

*When using 18" rung spacing, load capacity is limited to 394 lbs/ft (586.272 kg/m) for 30" cable tray width and 325 lbs/ft (483.6 kg/m) for 36" cable tray width. When cable trays are used in continuous spans, the deflection of the cable tray is reduced by as much as 50%. Design factors: Ix = Moment of Inertia, Sx = Section Modulus.

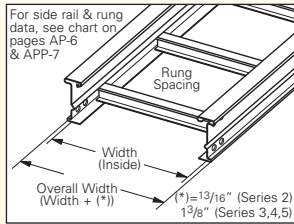
All dimensions in parentheses are millimeters unless otherwise specified.

6" NEMA VE 1 Loading Depth 7" Side Rail Height

Straight Section Part Numbering

Example: ^{Prefix} **378 P 09 - 24 - 144**

Series	Material	*Type	*Width	Length	
● 378	● P = Pre-Galvanized ● G = HDGAF	Ladder- ● 06 = 6" rung spacing ● 09 = 9" rung spacing ● 12 = 12" rung spacing	● 06 = 6" ● 09 = 9" ● 12 = 12" ● 18 = 18" ● 24 = 24" ● 30 = 30" ● 36 = 36"	● ① 144 = 12 ft. ● ② 120 = 10 ft. ● ① 240 = 20 ft. ● ② 288 = 24 ft. ● ① 240 = 20 ft. ● ② 288 = 24 ft.	378 476 574



Trough-

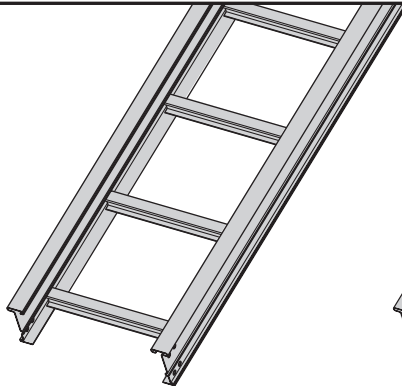
6" thru 36" wide

- **VT** = Ventilated Trough
- **ST** = Non-Ventilated Trough

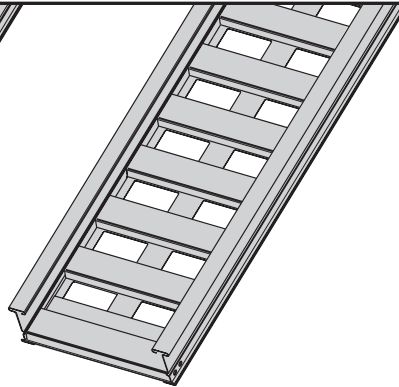
① Primary Length.
② Secondary Length.

See page C-23 for explanation of lengths.

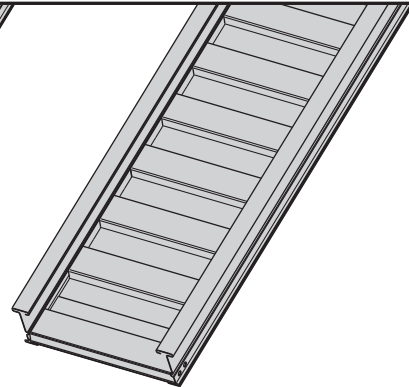
See page APP-1 for additional rung options. *Special sizes available.



Ladder Type
(Specify Rung Spacing)



Ventilated Trough



Non-Ventilated Trough

● Green = Fastest shipped items ● Black = Normal lead-time items ● Red = Normally long lead-time items

All dimensions in parentheses are millimeters unless otherwise specified.

6" NEMA VE 1 Loading Depth 7" Side Rail Height

Values are based on simple beam tests per NEMA VE 1 on 36" wide cable tray with rungs spaced on 12" centers. Cable trays will support without collapse a 200 lb. (90.7 kg) concentrated load over and above published loads. Published load safety factor is 1.5. To convert 1.5 safety factor to 2.0, multiply published load by 0.75. To obtain mid-span deflection, multiply a load by the deflection multiplier. Cable tray must be supported on spans shorter than or equal to the length of the cable tray being installed.

Individual rungs will support without collapse a 200 lb. (90.7 kg) concentrated load applied at the mid-span of the rung, over and above the NEMA rated cable load with a 1.5 safety factor for highlighted NEMA spans and loads.

B-Line Series	Side Rail Dimensions	NEMA, CSA & UL Classifications	Span ft	Load lbs/ft	Deflection Multiplier	Design Factors for Two Rails	Span meters	Load kg/m	Deflection Multiplier	Design Factors for Two Rails
378		NEMA: 20A, 16B CSA: D1-3m UL Cross-Sectional Area: 0.70 in ²	8	319	0.0006	Area = 1.01 in ² Sx = 1.77 in ³ Ix = 6.90 in ⁴	2.4	474	0.009	Area = 6.52 cm ² Sx = 29.01 cm ³ Ix = 287.20 cm ⁴
			10	204	0.0014		3.0	304	0.023	
			12	142	0.0028		3.7	211	0.048	
			14	104	0.0052		4.3	155	0.089	
			16	80	0.0089		4.9	119	0.151	
			18	63	0.014		5.5	94	0.242	
			20	51	0.022		6.1	76	0.369	

B-Line Series	Side Rail Dimensions	NEMA, CSA & UL Classifications	Span ft	Load lbs/ft	Deflection Multiplier	Design Factors for Two Rails	Span meters	Load kg/m	Deflection Multiplier	Design Factors for Two Rails
476		NEMA: 20B, 16C CSA: D1-6m UL Cross-Sectional Area: 1.00 in ²	12	214	0.0019	Area = 1.22 in ² Sx = 2.14 in ³ Ix = 8.30 in ⁴	3.7	318	0.033	Area = 7.87 cm ² Sx = 35.07 cm ³ Ix = 345.47 cm ⁴
			16	129	0.0061		4.9	179	0.105	
			18	95	0.010		5.5	141	0.168	
			20	77	0.015		6.1	115	0.255	
			22	64	0.022		6.7	95	0.374	
			24	53	0.031		7.3	80	0.529	

B-Line Series	Side Rail Dimensions	NEMA, CSA & UL Classifications	Span ft	Load lbs/ft	Deflection Multiplier	Design Factors for Two Rails	Span meters	Load kg/m	Deflection Multiplier	Design Factors for Two Rails
574		NEMA: 20C CSA: E-6m UL Cross-Sectional Area: 1.50 in ²	12	361	0.0014	Area = 1.64 in ² Sx = 2.87 in ³ Ix = 11.10 in ⁴	3.7	537	0.025	Area = 10.58 cm ² Sx = 47.03 cm ³ Ix = 462.02 cm ⁴
			16	203	0.0046		4.9	302	0.078	
			18	160	0.0073		5.5	239	0.125	
			20	130	0.011		6.1	193	0.191	
			22	107	0.016		6.7	160	0.280	
			24	90	0.023		7.3	134	0.396	

When cable trays are used in continuous spans, the deflection of the cable tray is reduced by as much as 50%. Design factors:
 Ix = Moment of Inertia, Sx = Section Modulus.

All dimensions in parentheses are millimeters unless otherwise specified.