CHALFANT

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CHALFANT

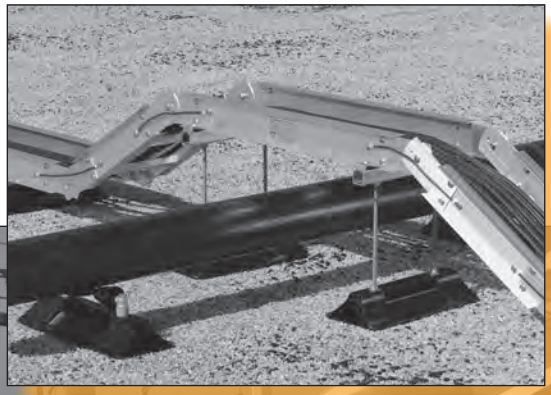
OBO Bettermann Group

Made in USA

MADE IN OHIO

Cable Tray

Ladder, Trough, Channel, Under Floor, Shielded



Ladder Style Cable Tray

Typical Installations

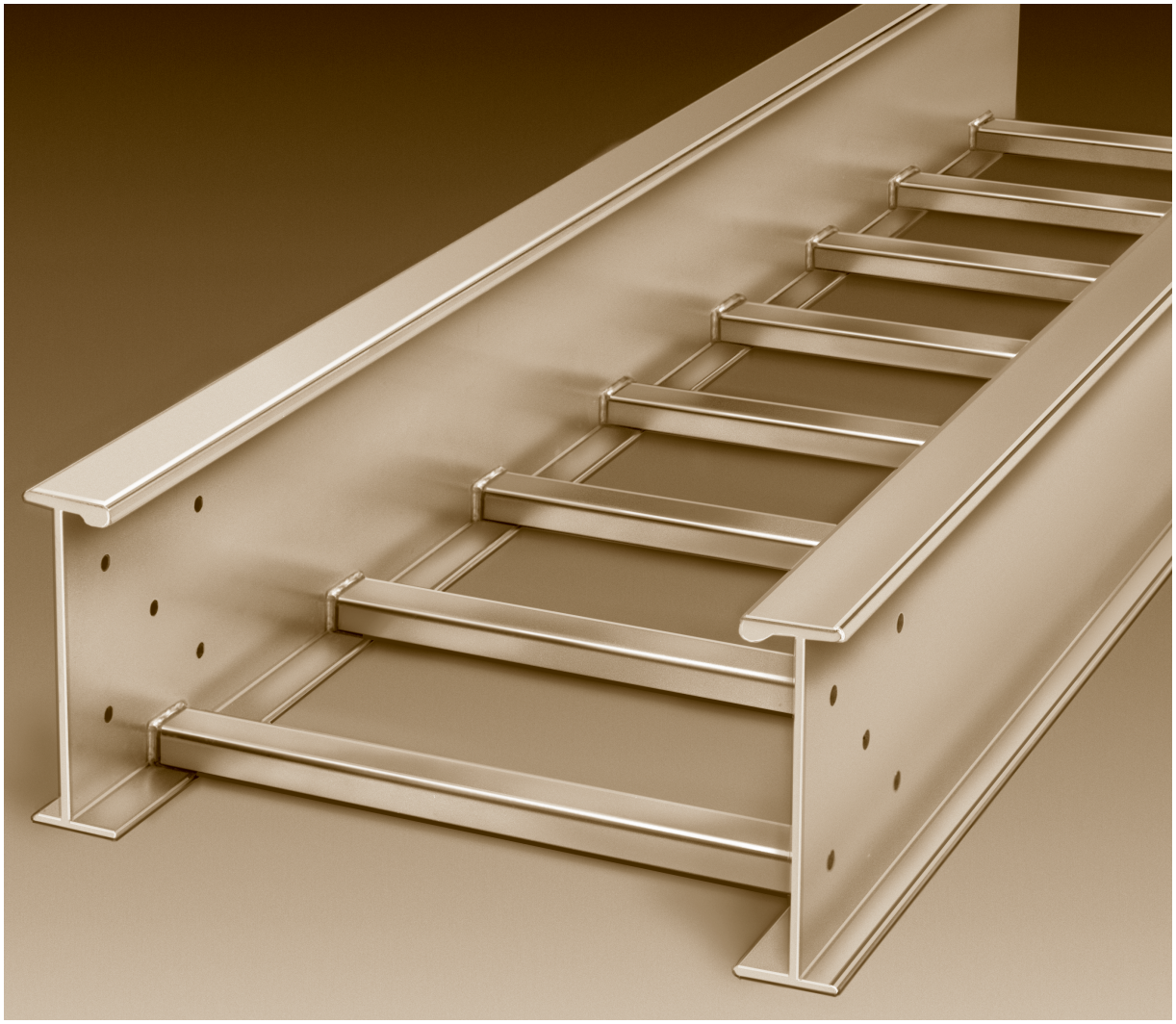
Ladder Tray®

When metal ladder cable trays came of age, they were used to support the new armored shielded power cables that were permitted outside the conduit environment. Utilities and industrial companies initiated the use of expanded metal and solid trough-styled trays for supporting power and control cable.

Cable trays quickly proved their worth as a safe, dependable and cost-effective solution to routing and supporting cables. Installed cost savings of over 50% on project after project drove the market for metal cable trays to over 80 million dollars.

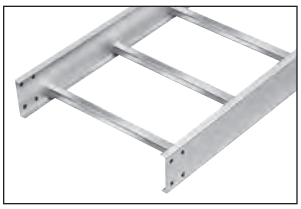
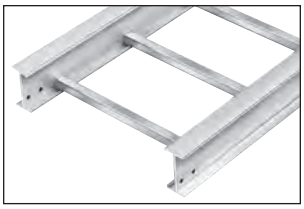
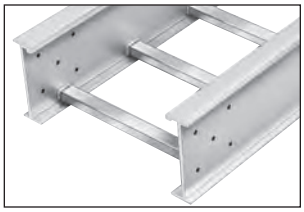
Cable Tray is *NOT A WIREWAY* and is viewed as a support for cables. This provides the designer and user many benefits.

- Full free air rating of cables, results in smaller conductors vs. conduit
- Greater fill volume allowed, results in less space
- Used in all locations except elevator shafts (the only prohibition on cable tray use)
- Used as an equipment grounding conductor (classified by UL)
- Less stress on cables during installation and operation
- Increased safety, no moisture condensation problems nor transmission of corrosive or explosive gases, as with conduit
- Simplified maintenance with the flexibility of adding or changing circuits
- Simplified engineering and construction. Add, change, modify more easily
- Used with other wiring methods
- Longer support spans up to 55' (Chalfant's standard systems to 40').

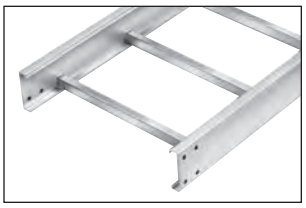
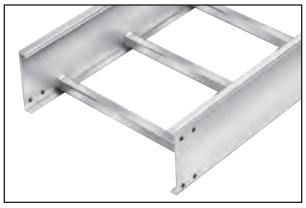
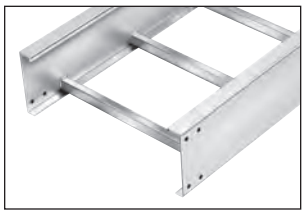


Quick Find Index

Cable Tray Straight Sections Pages 5-11

Aluminum
Description: Page 1-5
Selection: Pages 1-6 & 1-7

Steel/Stainless Steel
Description: Page 1-5
Selection: Pages 1-8 & 1-9

Fittings Pages 10-17

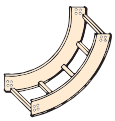
Horizontal Bends

90° *Page 1-10*
60° *Page 1-10*
45° *Page 1-11*
30° *Page 1-11*

Outside Vertical Bends

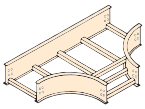
90° *Page 1-12*
60° *Page 1-13*
45° *Page 1-14*
30° *Page 1-15*

Inside Vertical Bends



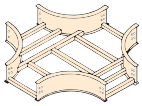
90° *Page 1-12*
60° *Page 1-13*
45° *Page 1-14*
30° *Page 1-15*

Tees



Page 1-16

Crosses

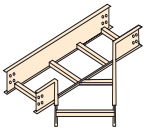


Page 1-16

Support Riser

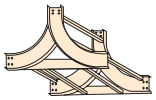
Page 1-16

Wyes



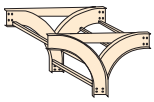
Page 1-17

Vertical Tee Up



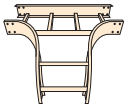
Page 1-17

Vertical Tee Down



Page 1-17

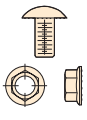
Tee with Outside Tap



Page 1-18

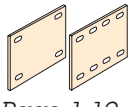
Accessories Pages 18-25

Fasteners



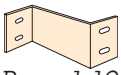
Page 1-25

Splice Plates



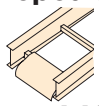
Page 1-19

Reducer Splice Plates



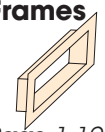
Page 1-19

Ladder Dropouts



Page 1-19

Wall Frames

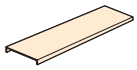


Page 1-19

Tray to Panel

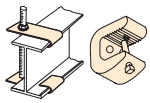
Page 1-19

Covers



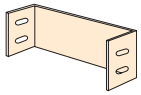
Page 1-20

Clamps



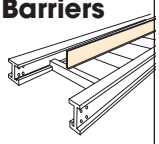
Page 1-20

Blind Ends



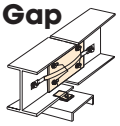
Page 1-21

Barriers



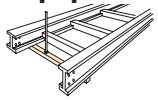
Page 1-22

Expansion Gap



Page 1-23

Support Equipment



Page 1-24

Selecting & Sizing Cable Tray Systems

1 The Cable to be Supported Determines the Type of Tray

Ladder type cable can support heavy power cables or small circuit size communication cables for control data and phone cables or a mix.

- *Rung Spacing: Single conductor over 4/0 and MC cables should be used with 12" or 18" rung spacing. Smaller diameter cables require 6" or 9" rung spacing.*
- *Trough, solid or ventilated type tray offer protection and better support for small, lightweight instrument or data cables.*

Hints:

- *Barrier strips can be used to separate voltages or power and control cables to avoid the cost of adding a second or separate tray for each.*
- *Covers are not required by the NEC Code and add to the cost of the job. However, they should be considered for protection of personnel and any debris or other material that could fall into the tray.*

2 Select which Metal and/or Material Finish Your Application Will Require

The job site and its' environment will determine which metal and/or material finish you use. Review where the tray is being used. Are there unusual corrosive conditions (like those found in some chemical and paper processing plants)? See page 1-4 for a list of various tray materials and finishes available.

Hints:

Aluminum - Most conditions are satisfied by aluminum tray which is also the most popular type. It's less expensive and an easier system to install. Unlike galvanized steel, its' finish is always smooth. Longer span tray systems are also available in aluminum. Aluminum tray is ideal for seacoast, offshore and most petrochemical and pulp mill applications.

Galvanized Steel (HDGAF ASTM A123 Class B2) - This hot dipped galvanized steel is used in outdoor, chlorine, acid or caustic areas. Steel trays can have a rough finish (VE 1) which could cause cable damage. It also adds two to three weeks to delivery time. Trays with Pre-Galvanized steel finish ASTM 653A are the least expensive and only recommended for indoor applications.

Stainless Steel trays are used in special highly corrosive environments and compare favorably with fiberglass type ladder tray.

3 Determine Type of Support

Hint: *Review the various support methods and options shown in the accessories section of this catalog on pages 1-20, 1-21, 1-24, and 1-25. The distance between each support is the support span. You can support your cable tray system:*

- *from walls or vertical columns with shelf or cantilevered brackets*
- *with trapeze or single supports using threaded rods hung directly from building steel*
- *on or under pipe racks, trestles or bridges*
- *In utility trenches, tunnels or directly on roofs*
- *off the ground, using pedestal supports.*

Hint: *You can save money by using a heavier duty tray that results in longer spans and reduces the number of costly supports and installation time. A heavier duty tray will also provide a deeper loading depth and a stronger, less deflective, long-span support.*

4 Determine Cable Load to be Supported

Review the number and type of cable from the job specifications and requirements. Cable fill in a tray is calculated by using data and criteria specified in NEC 392. To determine total cable weight, add all cables on a lb/ft basis.

Hints:

- *Data, telephone and instrument cable should be calculated to fill tray to 50% of the tray cross section fill area (40% for solid bottom tray). In reality, because of voids, overlapping and the circular shape of the cable, a 50% fill will normally completely fill the cable tray.*
- *MC cable 4/0 or larger, rated 2000 Volts or less, can only be installed in one layer (sum of cable diameters equals tray width).*
- *Single conductor 2000 Volts or less, larger than 1000 KCM can only be installed in one layer (sum of cable diameters equals tray width).*
- *Other power cables and combinations of sizes are calculated on the sum of cable areas versus allowable fill, see table NEC 392.9 to determine tray width. NEC 392 details cable types, voltages, ampacity, etc.*

Other Loads to be Calculated:

Snow: *Add 13.3 lbs/square feet for 20-inch deep wet snow. (Example: For a 36-inch tray width - 3 X 13.3 = 39.9 lbs/sq ft.)*

Ice: *Add 4.7 lbs/square feet .*

Concentrated Load: *Add load effect (W_e) for concentrated load effect from splice boxes, heavy cable drop outs and conduit terminations supported off tray.*

W_e = 2 times the concentrated load divided by the support span. (Example: For a 200 lbs. concentrated load at a center span of 20 ft, W_e = 2 X 200/20 = 20 lbs. per ft added load.)

Once you have determined your worst case load, add it to your other cable load calculations. You now have the maximum load the tray must support.

Hints:

- *It is not necessary to specify tray rung type when using Chalfant. Chalfant rung designs can handle a minimum of 350 lbs. at any width. Chalfant uses 3 rung styles to assure this standard is maintained. For example, Strut Rung #11118 is rated at 489 lbs. at 36" wide.*

Review

You have now determined:

1. *Tray type*
2. *Tray material and/or finish*
3. *Support type & span between supports*
4. *Total load in lbs/ft*

5 Select Tray System

(For aluminum, use Selection Chart on pages 1-6,1-7, 1-8 and 1-9.) (For steel, use Selection Chart on pages 1-8 and 1-9.) Review Selection chart and the various notes in general. Start at the top of (your) support span column and work down to locate a tray system to handle your total load.

Example: You have determined you need a ladder tray (aluminum) at a 20 ft span and 100 lbs/ft load. Using Selection Chart on pages 1-6 and 1-7, go down 20 ft span column until you reach **Tray System 46A**. *This is the best tray for your application. Note: If you use a shorter span, you must choose between a 3",4" or 5" load depth.*

Order your tray using the Part No. Code on page 1-4.

Contact your Chalfant Sales Representative or the factory if you need help sizing and selecting your tray.

Ordering Codes and Options

Part Number/Ordering Codes

Once you have determined the appropriate Chalfant tray system to meet your loading depth and load/span requirements, use the following numbering systems to order straight sections, fittings and accessories.

Cable Tray Straight Sections

(Aluminum or Steel)

Example: 2A Aluminum System— 12' long, 6" wide, with 9" rung spacing

2 A 06 010 – 09 *

- **2** — Tray System Number
- **A** — Type of Material (See chart at right)
- **06** — Tray Width: 6", 9", 12", 18", 24", 30" 36" & 42"
- **010** — Constant for 12' & 24' straight sections. Insert inches for special lengths: 120=10' 240=20' 360=30' Meters 118=3 236=6
- **09** — Rung Spacing: 6", 9", 12" & 18" or T, S, & X*
- ***** — Length: Blank=12' L=24'

* T=Trough Style S=Solid Bottom X=Expanded Metal Trough M=Marine Rung

Cable Tray Fittings

(Aluminum or Steel)

Example: 90° Aluminum Horizontal Bend— 12" radius

2 A 06 030

- **2** — Tray System Number
- **A** — Type of Material
- **06** — Tray Width: 6", 9", 12", 18", 24", 30" 36" & 42"
- **030** — Three Digit Part Number from Catalog

Accessories

Example: 4-Bolt Slotted Hole Splice Plate

2 A SP200

- **2** — Tray System Number or 9
- **A** — Type of Material
- **SP200** — Part Number from Catalog

Options

Chalfant Ladder style cable tray is available in a variety of options to satisfy your needs.

Materials/Finishes

Following is a list of various materials of construction and/or finishes that can be applied to straight sections, fittings and some accessories. Use these codes when ordering.

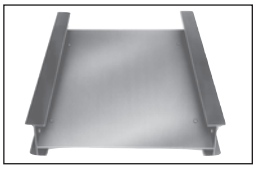
*** Material Code:**

- **A** = *Aluminum, High Strength 6063T6 Extrusions (5052H34 sheet)*
- **S** = *Pre-Galvanized Steel to ASTM 653A G-90 Coating, 1.05 Mils Thick*
- **G** = *Hot Dip Galvanized after Fabrication to ASTM 123-B2, 2.55 Mils Thick*
- **T** = *304L Stainless Steel*
- **Z** = *316L Stainless Steel*

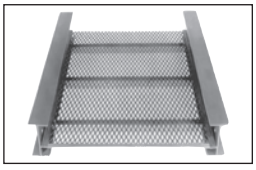
Other Options

All Ladder Tray systems are easily modified to offer:

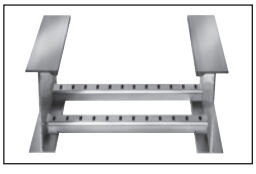
Ventilated Trough
2.5" wide rungs MIG welded on 6" centers. Also available with 9" and 12" rung spacing. To order, add letter T, 09T, or 12T instead of rung spacing in straight section part number.



Solid Trough
A solid sheet is supported by a 12" rung spaced tray. To order, add letter "S" instead of rung spacing in straight section part number. For Fittings, add suffix "S" to the part number.



Expanded Metal Trough
A .5" diamond pattern aluminum sheet is supported by a 12" rung spaced tray. To order, add letter "X" instead of rung spacing in straight section part number. For Fittings, add suffix "X" to the part number. See Page 1-20.



Marine Strut Rung
A special rung design to accommodate stainless steel banding of cables. (USCG requirement) Rung supports 460 lbs. per rung on a 36" wide system with a 1.5 safety factor. Add suffix "M" (rung spacing) to the part number.

Consult Factory for full technical data on individual systems, corrosion resistance charts, etc.

Straight Sections

Most Chalfant cable tray system side rails are stocked in 12' and 24' lengths. You can special order 30' lengths for 875A and 8HAF trays or 40' lengths for 103A tray. All trays meet or exceed NEMA VE-1 standards and NEC Article 392. All trays (except stainless) are classified by UL as an equipment ground conductor.

See Selection Guides for allowable grounding amps for each tray system.

Lengths *Standard– 12' and 24'*

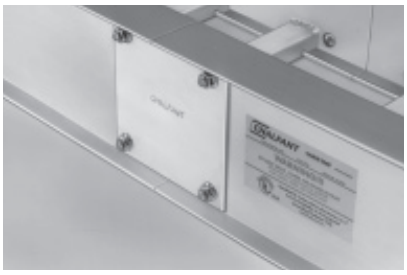
Widths *Standard– 6", 9",12", 18", 24", 30", 36" & 42"*

Rung Spacing: *Standard– 6", 9",12" and 18"*

Rail Height	Loading Depth	Tray Systems
4"	3"	14A, 24A, 2A, 34A, 248, 346
5"	4"	15A, 35A, 45A, 258
6.3"	5" or 6"	16A, 26A, 2A, 3A, 46A, 665A, 268, 366, 364
7.4	6.4	47A, 57A
8"	7"	875A, 8HAF
10"	8.8"	103A– (Fittings have 8" siderail)

Splice Plates

Splice plates are 1/8" thick with 4-bolt slotted holes. This flat plate design permits fast, easy fit-up in the field. 665A, 47A & 57A systems have 8 bolt/plates. 8" and 10" trays have 10 bolt/plates which are 16" long, 3/16" thick. Splice plates come in pairs with standard zinc hardware.



Aluminum Cable Tray

Aluminum cable tray is the most popular tray in use today. Chalfant has a wide offering in aluminum tray from light duty commercial/institutional systems for data and telephone support to utility/industrial grade tray and extra heavy duty long span tray to 30' spans. Ideal for most corrosive atmospheres including offshore, seacoast and petro-chemical applications. Not recommended for use in chlorine, caustic or high acid environments.

Rungs

Rungs are box construction 0.9" high with 7/8", 1" and 1-5/8" bearing surface. All trays (except 14A) and rungs are designed to handle cable loads plus 200 lbs. of concentrated load for any tray width. For example, strut rung #11118 can handle 489 lbs. at a 36". Low profile rungs are available in to provide a 6" load depth.

Galvanized and Stainless Steel Tray

Pre-Galvanized Steel tray ASTM 653A G90 coating is the least expensive tray and is recommended for indoor applications only.

Hot dipped galvanized after fabrication ASTM 123 is recommended for outdoor use. It is more expensive than aluminum and requires great care in galvanizing to prevent icicles, bare patches, warpage and rough surfaces.

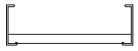
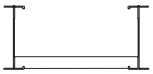
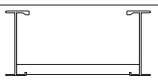
Stainless steel tray is available in 304L and 316L and is often the least expensive solution for use in highly corrosive atmospheres. It also competes favorably against fiberglass systems.

Steel Rungs

Rungs are 1" high with 3/4" bearing, 18 gauge. A special gas relief hole for HDGAF is punched on both ends to assure complete galvanizing.

Cable Tray Selection Guide

Aluminum

System No.		Height Side Rail	Load Depth	NEMA Load/Span Rating (@1.5 Safety Factor)1.5	Support Span (Simple Beam Data) 6' (1.83) m	8' (2.44) m	10' (3.05) m	12' (3.66) m
14A		4" (102)	3.2" (81)	12A 8C	**208** ❶ 0.37 ❷ .0018 ❸	**117** 0.66 .0056	**74** 1.01 .0136	**52** 1.46 .0281
24A		4" (102)	3" (76)	12B	**304** 0.43 .0014	**171** 0.79 .0046	**109** 1.22 .0112	**75** 1.58 .021
2A		4" (102)	3" (76)	16A 12C ❺	**430** .43 .0010	**243** 0.75 .0031	**153** 1.17 .0076	**108** 1.84 .0165
34A		4" (102)	3" (76)	20A 16B ❺			**220** 1.33 .0060	**152** 1.91 .0124
15A		5" (127)	4.2" (107)	12B	**336** 0.30 .0009	**189** 0.53 .0028	**121** 0.83 .0069	**84** 1.21 .0144
35A		5" (127)	5" (102)	16A 12C			**161** .083 .0052	**112** 1.21 .011
45A		5" (127)	4.1" (102)	20A 16B				**149** 1.26 .0083
16A		6.3" (160)	5.5" or 6" ❹ (140/152)	12C	**400** 0.28 .0007	**225** 0.46 .0021	**144** 0.72 .0050	**100** 1.04 .0104
29A		6.3" (160)	5.3 or 6" ❹ (137/152)	16A 12C ❺		**264** 037 .0014	**170** 0.73 .0043	**121** 1.08 .0089
26A		6.3" (160)	5.3" or 6" ❹ (137/152)	20A 16B		**342** 0.89	**220** 0.57 .0026	**152** 0.84 .0055
3A		6.3" (160)	5.3" or 6" ❹ (137/152)	20B 16C ❺				**211** 0.95 .0045
46A		6.3" (160)	5.4" or 6" ❹ (137/152)	20C	It is not economical to use long span tray systems for short span installation. Move up to a lighter duty system.			**288** 1.09 .0038
665A		6.5" (165)	5.4" or 6" ❹ (137/152)	24C ❼				**430** 1.20 .0028
47A		7.36" (187)	6.4" (163)	20C 24B				**288** 0.78 .0027
57A		7.4" (188)	6.4" (163)	24C				**425** 0.98 .0023

Key:
❶= Cable Loading (lb/ft)
❷= Mid Span Deflection (in)
❸= K Factor (in/lb/ft)

❹ 6" Nominal Loading Depth per VE-1 with reinforced low profile rung
❺ Exceeds NEMA Loads by over 20%
❻ Weight shown (lbs/ft or Kg/M) for 24" width tray with 9" rung spacing

NEMA Load/Span Designations
@1.5 Factor of Safety
From VE-1 Table 1

Working Load (lbs/linear ft.)	Support Span 8 Ft	12 Ft	16 Ft	20 Ft
A=50 lbs/ft	8A	12A	16A	20A
B=75 lbs/ft	8B	12B	16B	20B
C=100 lbs/ft	8C	12C	16C	20C

Support Span (Simple Beam Data)							Data (2-Rails)				
	14' (4.27) m	16' (4.88) m	18' (5.49) m	20' (6.10) m	24' ⑦ (7.32) m	30' ⑦ (9.14) m	Ix In^4	Sx In^3	Area In^2	NEC 392-7(b)2 EGC AMPS	Tray ⑥ Weight Lbs Per Ft
							1.66	0.75	0.86 (555)	1000	1.79 (2.66)
							2.15	1.01	1.0 (645)	1200	1.95 (2.90)
	79 2.31 .0292	**60** 2.46 .0410					2.95	1.41	1.14 (735)	1200	2.15 (3.20)
	112 2.60 .0231	**86** 3.39 .0374	**67** 4.30 .0632	**55** 5.30 .0963			3.74	2.07	1.43 (923)	1200	2.46 (3.66)
							3.25	1.20	1.02 (658)	1200	2.00 (2.98)
	82 1.64 .020	**60** 2.03 .0338					4.36	1.63	1.19 (768)	1200	2.2 (3.27)
	110 1.71 .0155	**84** 2.23 .0264	**66** 2.83 .0424	**53** 3.49 .0646			5.57	2.29	1.46 (942)	1200	2.52 (3.75)
							4.48	1.39	1.20 (774)	1200	2.22 (3.30)
	85 1.35 .016	**64** 1.45 .0226					6.53	2.0	1.28 (826)	1200	2.33 (3.47)
	112 1.13 .0101	**85** 1.46 .0172	**67** 1.87 .0761	**55** 2.31 0.042			8.55	2.72	1.55 (1000)	1600	2.64 (3.93)
	155 1.28 .0083	**119** 1.67 .0141	**94** 2.12 .0226	**76** 2.62 .0345			10.4	3.81	1.84 (1187)	1600	2.98 (4.43)
	212 1.51 .0071	**162** 1.96 .0121	**128** 2.48 .0194	**104** 3.05 .0296	**70** 4.3 .0614		12.1	4.55	2.11 (1361)	2000	3.32 (4.94)
	316 1.61 .0051	**242** 2.11 .0087	**191** 2.65 .0139	**155** 3.29 .0212	**104** 4.58 .0440		16.96	6.24	2.87 (1852)	2000	4.23 (6.29)
	212 0.66 .0031	**162** 1.41 .0087	**128** 1.78 .0139	**104** 2.20 .0212	**72** 3.16 .0439		17.0	5.29	2.12 (1366)	2000	3.34 (4.96)
	312 1.31 .0042	**239** 1.72 .0072	**188** 2.19 .0116	**153** 2.69 .0176	**106** 3.89 .0366		20.4	6.7	2.62 (1690)	2000	3.82 (5.68)

Conversion to Metric
Meters = 0.3048 X feet
Kg/m = 1.488 X lb/ft
mm = 25.4 X inches

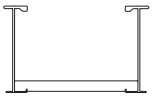
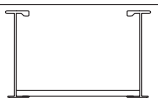
Convert Load Data
To convert into a safety factor = 2.0 multiply loading values by 0.75 (ratio of 1.5/2.0)

K x **W** = Deflection for other loads (inches)

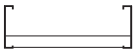
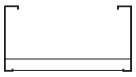
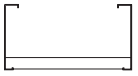
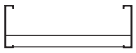
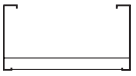
⑦ NEMA does not list 24', 30' & 40' span trays.

Cable Tray Selection Guide

Aluminum

System No.		Height Side Rail	Load Depth	NEMA Load/Span Rating (@1.5 Safety Factor)1.5	Support Span (Simple Beam Data)			
							14' (4.27) m	16' (4.88) m
875A		8" (203)	7" (178)	30C ⑥ 24C ⑥			**484** 1.24 .0026	**370** 1.61 .0044
8HAF		8" (203)	7" (178)	30C ⑥				**572** 1.75 .0031
103A		10" (254)	8.85" (225)	40C ⑥				

Steel/Stainless

	System No.		Gauge	Height Side Rail	Load Depth	NEMA Load/Span Rating (@1.5 Safety Factor)	Support Span 6' (1.83) m	Support Span 8' (2.44) m
Steel	248*		18 (1.3)	4" (102)	3" (76)	12B	**340** ① 0.28 ② .00082 ③	**191** 0.50 .0026
Steel	346*		16" (1.6)	4" (102)	3" (76)	16A 12C		**271** 0.49 .0018
Steel	258*		18 (1.3)	5" (127)	4" (102)	16A		**237** 0.36 .0015
Steel	268*		18 (1.3)	6.3" (160)	5.2" (132)	16A 12C ④		**272** 0.22 .0008
Steel	366*		16 (1.6)	6.3" (160)	5.2" (132)	20B 16C ④		
Steel	364*		14 (1.9)	6.3" (160)	5.3" (132)	20C 16C ④		
Stainless Steel	248*		18 (1.2)	4" (102)	3" (76)	12B	**340** 0.28 .00082	**191** 0.50 .0026
Stainless Steel	268*		18 (1.2)	6.3 (160)	5.2" (137)	16C 12C ④		**272** 0.57 .0008
Stainless Steel	366*		16 (1.5)	6.3" (160)	5.2" (137)	20B 16C ④		
Stainless Steel	364*		14 (1.9)	6.3" (160)	5.3" (137)	20C 16C ④		

*** Material Code:** **S** = *Pre-Galvanized to ASTM 653A G-90 coating 1.06 Mils Thick* **G** = *Hot Dip Galvanized after Fabrication to ASTM 123-B2 2.55 Mils Thick (Replaced ASTM 386)*

Key:
① = *Cable Loading (lb/ft)*
② = *Mid Span Deflection (in)*
③ = *K Factor (in/lb/ft)*

④ *Exceeds NEMA Loads by over 20%*
⑤ *Weight shown (lbs/ft or Kg/M) for 24" width tray with 9" rung spacing*
⑥ *NEMA does not list 24', 30', 35' & 40' spans*

NEMA Load/Span Designations *@1.5 Factor of Safety*
From VE-1 Table 1

Working Load (lbs/linear ft.)	Support Span 8 Ft	12 Ft	16 Ft	20 Ft
A=50 lbs/ft	8A	12A	16A	20A
B=75 lbs/ft	8B	12B	16B	20B
C=100 lbs/ft	8C	12C	16C	20C

Support Span (Simple Beam Data)						Data (2-Rails)				
18' (5.49) m	20' (6.10) m	24' (7.32) m [6]	30' (9.14) m [6]	35' (10.7) m [6]	40' (12.2) m [6]	Ix In^4	Sx In^3	Area In^2	NEC 392-7(b)2 EGC AMPS	Tray Weight [5] Lbs Per Ft
293 2.042 .007	**237** 2.52 .0106	**158** 3.43 .0217	**101** 5.35 .053			34.36	9.6	4.24 (2735)	2000	6.51 (9.69)
450 2.21 .0049	**363** 2.72 .0075	**249** 3.87 .0155	**155** 5.87 .0379	**100** 8.34 .0834		48.08	14.3	5.32 (3432)	2000	7.52 (11.19)
	636 2.03	**441** 3.48	**282** 4.59	**207** 6.27	**159** 8.20	115.4	24.1	7.40 (4555)	2000	9.45 (14.06)

Support Span (Simple Beam Data)						Data (2-Rails)			
10' (3.05) m	12' (3.66) m	14' (4.27) m	16' (4.88) m	18' (5.49) m	20' (6.10) m	Ix In^4	Sx In^3	NEC 392-7(b)2 EGC AMPS	Tray Weight [5] Lbs Per Ft
122 0.77 .0063	**85** 1.11 .0131	**62** 1.51 .0243				1.26	0.65	100	3.65 (5.43)
171 0.75 .0044	**107** 0.97 .0091	**85** 1.43 .0168	**64** 1.83 .0286			1.81	1.00	200	4.15 (6.18)
150 0.54 .0036	**102** 0.78 .0076	**74** 1.04 .0140	**55** 1.31 .0239			2.16	0.89	100	3.80 (5.65)
174 0.35 .0020	**121** 0.51 .0042	**89** 0.93 .0077	**68** 0.90 .0132			3.90	1.27	200	4.27 (6.35)
327 0.46 .0014	**225** 0.68 .0030	**164** 0.90 .0055	**125** 1.18 .0094	**96** 1.43 .0149	**78** 1.79 .0229	5.46	1.88	400	5.04 (7.50)
	282 0.68 .0024	**206** 0.91 .0044	**156** 1.15 .0074	**122** 1.45 .0119	**100** 1.81 .01	6.93	2.36	400	5.93 (8.82)
122 0.77 .0063	**85** 1.11 .0131	**62** 1.51 .0243				1.26	0.65	**	3.65 (5.43)
174 0.35 .0020	**121** 0.51 .0042	**89** .93 .0077	**68** .090 .0132			3.90	1.27	**	4.27 (6.35)
327 0.46 .0014	**225** 0.68 .0030	**164** 0.90 .0055	**125** 1.18 .0094	**96** 1.43 .0149	**78** 1.79 .0229	5.46	1.88	**	5.04 (7.50)
	282 0.68 .0024	**206** 0.91 .0044	**156** 1.15 .0074	**122** 1.45 .0119	**100** 1.81 .0181	6.93	2.36	**	5.93 (8.82)

*** Material Code:** **T**= 304L Stainless Steel **Z**= 316L Stainless Steel

Conversion to Metric
Meters = 0.3048 X feet
Kg/M = 1.488 X lb/ft
mm = 25.4 X inches

Convert Load Data
To convert into a safety factor = 2.0. multiply loading values by 0.75. (ratio of 1.5/2.0)

K x **W** = Deflection for other loads (inches)

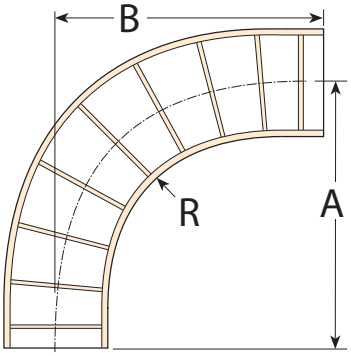
** For EGC run separate ground wire.

Fittings

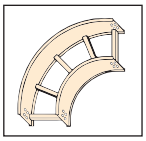
90° & 60° Horizontal Fittings

All Ladder Tray Fittings have rungs on 9" centers with 3" tangents for easy fit-up during installation. Each fitting and straight section comes with a pair (2) splice plates and eight (8) 9SBN302 nut and bolt assemblies, with the exception of 8" & 10" trays that have 8" tangents and 10 bolt splice plates. 8" trays available in 36" & 48" radius. 7" trays in 24" radius. Consult factory for fitting dimensions.

90° Horizontal Bend

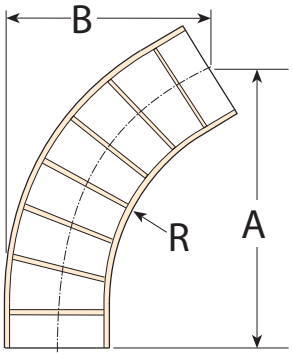


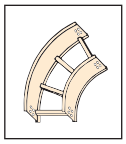
Number of rungs vary depending on radius.



R	W	Dimensions A	Dimensions B	Part Number
12" (305)	6	18 (457)	18 (457)	## * 06030
	9	19.5 (495)	19.5 (495)	## * 09030
	12	21 (533)	21 (533)	## * 12030
	18	24 (610)	24 (610)	## * 18030
	24	27 (686)	27 (686)	## * 24030
	30	30 (762)	30 (762)	## * 30030
	36	33 (838)	33 (838)	## * 36030
	42	36 (914)	36 (914)	## * 42030
	48	39 (991)	39 (991)	## * 48030
24" (610)	6	30 (762)	30 (762)	## * 06032
	9	31.5 (800)	31.5 (800)	## * 09032
	12	33 (838)	33 (838)	## * 12032
	18	36 (914)	36 (914)	## * 18032
	24	39 (991)	39 (991)	## * 24032
	30	42 (1067)	42 (1067)	## * 30032
	36	45 (1143)	45 (1143)	## * 36032
	42	48 (1219)	48 (1219)	## * 42032
	48	51 (1295)	51 (1295)	## * 48032
36" (914)	6	42 (1067)	42 (1067)	## * 06033
	9	43.5 (1105)	43.5 (1105)	## * 09033
	12	45 (1143)	45 (1143)	## * 12033
	18	48 (1219)	48 (1219)	## * 18033
	24	51 (1295)	51 (1295)	## * 24033
	30	54 (1372)	54 (1372)	## * 30033
	36	57 (1448)	57 (1448)	## * 36033
	42	60 (1524)	60 (1524)	## * 42033
	48	63 (1600)	63 (1600)	## * 48033
48" (1219)	6	54 (1372)	54 (1372)	## * 06034
	9	55.5 (1410)	55.5 (1410)	## * 09034
	12	57 (1448)	57 (1448)	## * 12034
	18	60 (1524)	60 (1524)	## * 18034
	24	63 (1600)	63 (1600)	## * 24034
	30	66 (1676)	66 (1676)	## * 30034
	36	69 (1753)	69 (1753)	## * 36034
	42	72 (1829)	72 (1829)	## * 42034
	48	75 (1905)	75 (1905)	## * 48034

60° Horizontal Bend





R	W	Dimensions A	Dimensions B	Part Number
12" (305)	6	16.7 (424)	13.1 (333)	## * 06025
	9	18.0 (457)	15.4 (390)	## * 09025
	12	19.2 (488)	17.6 (447)	## * 12025
	18	21.6 (549)	22.1 (561)	## * 18025
	24	24.1 (612)	26.6 (676)	## * 24025
	30	26.5 (673)	31.1 (790)	## * 30025
	36	29.0 (737)	35.6 (904)	## * 36025
	42	31.4 (798)	40.1 (1019)	## * 42025
	48	33.9 (861)	44.6 (1133)	## * 48025
24" (610)	6	26.5 (673)	19.1 (485)	## * 06027
	9	27.8 (706)	21.4 (544)	## * 09027
	12	29.0 (737)	23.6 (599)	## * 12027
	18	31.4 (798)	28.1 (714)	## * 18027
	24	33.9 (861)	32.6 (828)	## * 24027
	30	36.3 (922)	38.1 (968)	## * 30027
	36	38.8 (985)	41.6 (1057)	## * 36027
	42	41.2 (1046)	46.1 (1171)	## * 42027
	48	43.7 (1110)	50.6 (1285)	## * 48027
36" (914)	6	36.3 (922)	25.1 (638)	## * 06028
	9	37.6 (955)	27.4 (695)	## * 09028
	12	38.8 (986)	29.6 (752)	## * 12028
	18	41.2 (1147)	34.1 (866)	## * 18028
	24	43.7 (1110)	38.6 (980)	## * 24028
	30	46.1 (1171)	43.1 (1095)	## * 30028
	36	48.6 (1234)	47.6 (1209)	## * 36028
	42	51.0 (1295)	52.1 (1323)	## * 42028
	48	53.5 (1359)	56.6 (1438)	## * 48028
48" (1219)	6	46.1 (1171)	31.1 (790)	## * 06029
	9	47.3 (1201)	33.4 (847)	## * 09029
	12	48.6 (1234)	35.6 (904)	## * 12029
	18	51.0 (1295)	40.1 (1019)	## * 18029
	24	53.5 (1359)	44.6 (1133)	## * 24029
	30	55.9 (1420)	49.1 (1247)	## * 30029
	36	58.4 (1483)	53.6 (1361)	## * 36029
	42	60.8 (1544)	58.1 (1476)	## * 42029
	48	63.3 (1608)	62.6 (1590)	## * 48029

W=Widths in Inches *(mm)*

6" (152)	30" (762)
9" (229)	36" (914)
12" (305)	42" (1067)
18" (457)	48" (1176)
24" (610)	

H=Side Rail Height in Inches *(mm)*

4" (101)	7.3" (179) Consult Factory
5" (127)	8" (203) Consult Factory
6.3" (160)	

For Steel Fitting Part Numbers Use:

*4" High Tray ## = 246 **

*5" High Tray ## = 256 **

*6" High Tray ## = 266 **

For Covers and Barriers

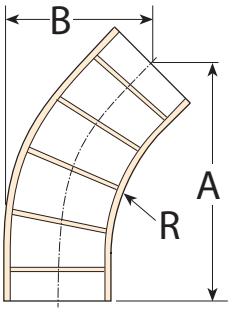
See Accessories Section, Pages **1-20–1-22**

Tray System ***Type of Material*** *— See Page* **1-4** *for Selection.*

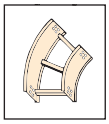
45° & 30° Horizontal Fittings

All Ladder Tray Fittings have rungs on 9" centers with 3" tangents for easy fit-up during installation. Each fitting and straight section comes with a pair (2) splice plates and eight (8) 9SBN302 nut and bolt assemblies.

45° Horizontal Bend

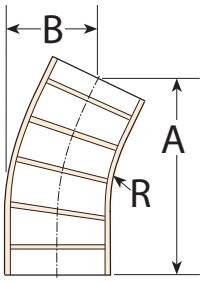


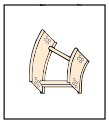
Number of rungs vary depending on radius.



R	W	Dimensions A	Dimensions B	Part Number
12" (305)	6	15.7 (400)	9.51 (242)	## * 06020
	9	16.8 (426)	11.45 (291)	## * 09020
	12	17.9 (455)	13.39 (340)	## * 12020
	18	20.0 (507)	17.27 (439)	## * 18020
	24	22.1 (561)	21.15 (537)	## * 24020
	30	24.2 (615)	25.03 (636)	## * 30020
	36	26.3 (669)	28.91 (734)	## * 36020
	42	28.5 (723)	32.79 (833)	## * 42020
	48	30.6 (777)	36.6 (9300)	## * 48020
24" (610)	6	24.2 (615)	13.0 (331)	## * 06022
	9	25.3 (642)	14.9 (380)	## * 09022
	12	26.3 (669)	16.9 (430)	## * 12022
	18	28.5 (723)	20.8 (528)	## * 18022
	24	30.6 (777)	24.7 (626)	## * 24022
	30	32.7 (831)	28.5 (725)	## * 30022
	36	34.8 (884)	32.4 (823)	## * 36022
	42	36.9 (938)	36.3 (922)	## * 42022
	48	39.1 (993)	40.2 (1021)	## * 48022
36" (914)	6	32.7 (831)	16.5 (420)	## * 06023
	9	33.8 (857)	18.5 (469)	## * 09023
	12	34.8 (884)	20.4 (519)	## * 12023
	18	36.9 (938)	24.3 (617)	## * 18023
	24	39.1 (992)	28.2 (716)	## * 24023
	30	41.2 (1046)	32.1 (814)	## * 30023
	36	43.3 (1100)	35.9 (913)	## * 36023
	42	45.4 (1154)	39.8(1011)	## * 42023
	48	47.6 (1208)	43.7(1110)	## * 48023
48" (1219)	6	41.2 (1046)	20.1 (510)	## * 06024
	9	42.2 (1073)	22.0 (559)	## * 09024
	12	43.3 (1100)	23.9 (608)	## * 12024
	18	45.4 (1154)	27.8 (706)	## * 18024
	24	47.6 (1208)	31.7 (805)	## * 24024
	30	49.7 (1262)	35.6 (903)	## * 30024
	36	51.8 (1315)	39.5 (1002)	## * 36024
	42	53.9 (1369)	43.3 (1100)	## * 42024
	48	56.0 (1422)	47.2 (1199)	## * 48024

30° Horizontal Bend





R	W	Dimensions A	Dimensions B	Part Number
12" (305)	6	13.1 (333)	6.51 (165)	## * 06015
	9	13.9 (353)	8.21 (209)	## * 09015
	12	14.6 (371)	9.91 (252)	## * 12015
	18	16.6 (422)	13.31 (338)	## * 18015
	24	17.6 (447)	16.72 (425)	## * 24015
	30	19.1 (485)	20.12 (511)	## * 30015
	36	20.6 (523)	23.52 (597)	## * 36015
	42	22.1 (561)	26.52 (674)	## * 42015
	48	23.65 (601)	30.32 (770)	## * 48015
24" (610)	6	19.1 (485)	8.12 (206)	## * 06017
	9	19.9 (505)	8.95 (227)	## * 09017
	12	20.6 (523)	11.52 (293)	## * 12017
	18	22.1 (561)	14.92 (379)	## * 18017
	24	23.6 (599)	18.32 (465)	## * 24017
	30	25.1 (638)	21.79 (553)	## * 30017
	36	26.1 (663)	25.13 (638)	## * 36017
	42	28.1 (714)	28.53 (725)	## * 42017
	48	29.1 (739)	31.93 (811)	## * 48017
36" (914)	6	25.1 (638)	9.73 (247)	## * 06018
	9	25.9 (658)	11.43 (290)	## * 09018
	12	26.6 (676)	13.13 (334)	## * 12018
	18	28.1 (714)	16.53 (420)	## * 18018
	24	29.6 (752)	19.93 (506)	## * 24018
	30	31.1 (790)	23.33 (593)	## * 30018
	36	32.6 (828)	26.75 (679)	## * 36018
	42	34.1 (866)	30.14 (766)	## * 42018
	48	35.6 (904)	33.54 (852)	## * 48018
48" (1219)	6	31.1 (790)	11.33 (288)	## * 06019
	9	31.9 (810)	13.03 (331)	## * 09019
	12	32.6 (828)	14.74 (374)	## * 12019
	18	34.1 (866)	18.14 (461)	## * 18019
	24	35.6 (904)	21.54 (547)	## * 24019
	30	37.1 (942)	24.94 (633)	## * 30019
	36	38.6 (980)	28.34 (720)	## * 36019
	42	40.1 (1019)	31.74 (806)	## * 42019
	48	41.6 (10570	35.15 (893)	## * 48019

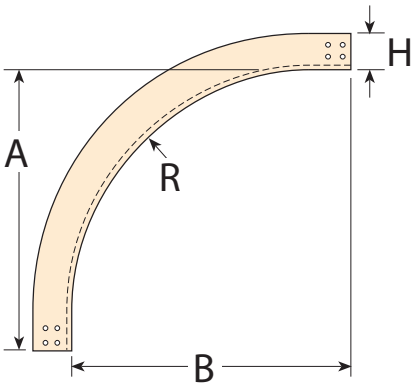
For Steel Fitting Part Numbers Use:
*4" High Tray ## = 246 **
*5" High Tray ## = 256 **
*6" High Tray ## = 266 **
For Covers and Barriers
See Accessories Section, Pages **1-20–1-22**

Tray System ***Type of Material*** *— See Page* **1-4** *for Selection.*

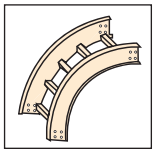
90° Outside & Inside Vertical Bend Fittings

All Ladder Tray Fittings have rungs on 9" centers with 3" tangents for easy fit-up during installation. Each fitting and straight section comes with a pair (2) splice plates and eight (8) 9SBN302 nut and bolt assemblies.

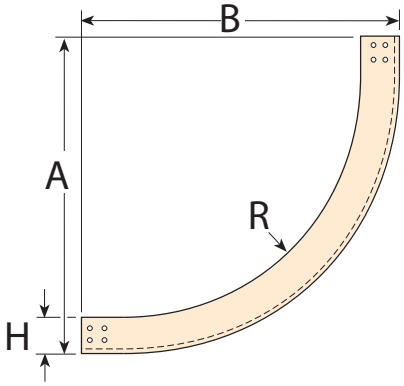
90° Outside Bend

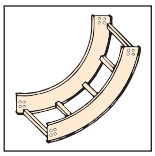


Number of rungs vary depending on radius.



90° Inside Bend





R	W	Outside Vertical Bend Dimensions A	Outside Vertical Bend Dimensions B	Outside Vertical Bend Part Number	Inside Vertical Bend H@4" A	Inside Vertical Bend H@4" B	Inside Vertical Bend H@5" A	Inside Vertical Bend H@5" B	Inside Vertical Bend H@6.3" A	Inside Vertical Bend H@6.3" BNumber	Inside Vertical Bend Part Number
12" (305)	6	15 (381)	15 (381)	## * 06050	19 (483)	19 (483)	20 (508)	20 (508)	22.3 (566)	22.3 (566)	## * 06070
	9			## * 09050							## * 09070
	12			## * 12050							## * 12070
	18			## * 18050							## * 18070
	24			## * 24050							## * 24070
	30			## * 30050							## * 30070
	36			## * 36050							## * 36070
	42			## * 42050							## * 42070
	48			## * 48050							## * 48070
24" (610)	6	27 (686)	27 (686)	## * 06052	31 (787)	31 (787)	32 (813)	32 (813)	34.3 (871)	34.3 (871)	## * 06072
	9			## * 09052							## * 09072
	12			## * 12052							## * 12072
	18			## * 18052							## * 18072
	24			## * 24052							## * 24072
	30			## * 30052							## * 30072
	36			## * 36052							## * 36072
	42			## * 42052							## * 42072
	48			## * 48052							## * 48072
36" (914)	6	39 (991)	39 (991)	## * 06053	43 (1092)	43 (1092)	44 (1118)	44 (1118)	46.3 (1176)	46.3 (1176)	## * 06073
	9			## * 09053							## * 09073
	12			## * 12053							## * 12073
	18			## * 18053							## * 18073
	24			## * 24053							## * 24073
	30			## * 30053							## * 30073
	36			## * 36053							## * 36073
	42			## * 42053							## * 42073
	48			## * 48053							## * 48073
48" (1219)	6	51 (1295)	51 (1295)	## * 06054	55 (1397)	55 (1397)	56 (1422)	56 (1422)	58.3 (1481)	58.3 (1481)	## * 06074
	9			## * 09054							## * 09074
	12			## * 12054							## * 12074
	18			## * 18054							## * 18074
	24			## * 24054							## * 24074
	30			## * 30054							## * 30074
	36			## * 36054							## * 36074
	42			## * 42054							## * 42074
	48			## * 48054							## * 48074

W=Widths in Inches *(mm)*

6" (152)	30" (762)
9" (229)	36" (914)
12" (305)	42" (1067)
18" (457)	48" (1176)
24" (610)	

H=Side Rail Height in Inches *(mm)*

4" (101)	7.3" (179) Consult Factory
5" (127)	8" (203) Consult Factory
6.3" (160)	

For Steel Fitting Part Numbers Use:
4" High Tray ## = 246 *
5" High Tray ## = 256 *
6" High Tray ## = 266 *

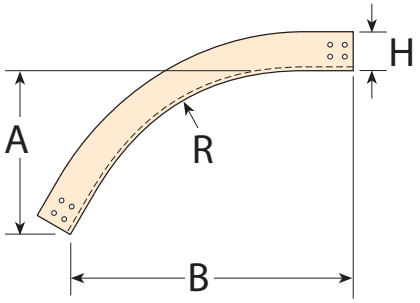
For Covers and Barriers
See Accessories Section, Pages **1-20–1-22**

Tray System ***Type of Material*** *— See Page* **1-4** *for Selection.*

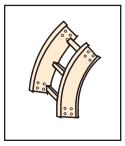
60° Outside & Inside Vertical Bend Fittings

All Ladder Tray Fittings have rungs on 9" centers with 3" tangents for easy fit-up during installation. Each fitting and straight section comes with a pair (2) splice plates and eight (8) 9SBN302 nut and bolt assemblies.

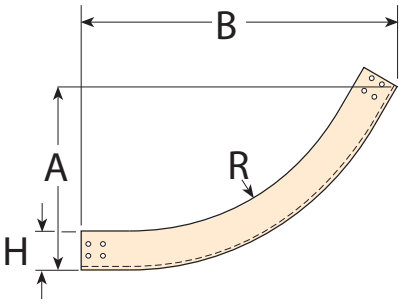
60° Outside Bend

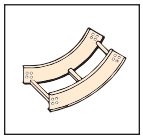


Number of rungs vary depending on radius.



60° Inside Bend





R	W	Outside Vertical Bend Dimensions A	Outside Vertical Bend Dimensions B	Outside Vertical Bend Part Number	Inside Vertical Bend H@4" A	Inside Vertical Bend H@4" B	Inside Vertical Bend H@5" A	Inside Vertical Bend H@5" B	Inside Vertical Bend H@6.3" A	Inside Vertical Bend H@6.3" B	Inside Vertical Bend Part Number
12" (305)	6	8.6 (218)	14.9 (378)	## * 06045	10.6 (269)	18.35 (466)	11.1 (282)	19.22 (488)	12.7 (323)	21.1 (536)	## * 06065
	9			## * 09045							## * 09065
	12			## * 12045							## * 12065
	18			## * 18045							## * 18065
	24			## * 24045							## * 24065
	30			## * 30045							## * 30065
	36			## * 36045							## * 36065
	42			## * 42045							## * 42065
	48			## * 42045							## * 48065
24" (610)	6	14.6 (371)	25.3 (642)	## * 06047	16.6 (422)	28.74 (730)	17.1 (434)	29.61 (752)	18.7 (475)	31.5 (800)	## * 06067
	9			## * 09047							## * 09067
	12			## * 12047							## * 12067
	18			## * 18047							## * 18067
	24			## * 24047							## * 24067
	30			## * 30047							## * 30067
	36			## * 36047							## * 36067
	42			## * 42047							## * 42067
	48			## * 48047							## * 48067
36" (914)	6	20.60 (523)	35.68 (907)	## * 06048	22.6 (579)	39.14 (994)	23.1 (587)	40.01 (1016)	24.7 (627)	41.9 (1064)	## * 06068
	9			## * 09048							## * 09068
	12			## * 12048							## * 12068
	18			## * 18048							## * 18068
	24			## * 24048							## * 24068
	30			## * 30048							## * 30068
	36			## * 36048							## * 36068
	42			## * 42048							## * 42068
	48			## * 48048							## * 48068
48" (1219)	6	26.6 (676)	46.1 (1170)	## * 06049	28.6 (726)	49.53 (1258)	29.1 (739)	50.4 (1280)	30.7 (780)	52.2 (1328)	## * 06069
	9			## * 09049							## * 09069
	12			## * 12049							## * 12069
	18			## * 18049							## * 18069
	24			## * 24049							## * 24069
	30			## * 30049							## * 30069
	36			## * 36049							## * 36069
	42			## * 42049							## * 42069
	48			## * 48049							## * 48069

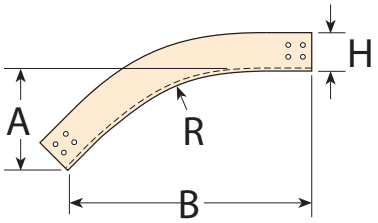
For Steel Fitting Part Numbers Use:
*4" High Tray ## = 246 **
*5" High Tray ## = 256 **
*6" High Tray ## = 266 **
For Covers and Barriers
See Accessories Section, Pages **1-20–1-22**

Tray System ***Type of Material*** *— See Page* **1-4** *for Selection.*

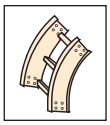
45° Outside & Inside Vertical Bend Fittings

All Ladder Tray Fittings have rungs on 9" centers with 3" tangents for easy fit-up during installation. Each fitting and straight section comes with a pair (2) splice plates and eight (8) 9SBN302 nut and bolt assemblies.

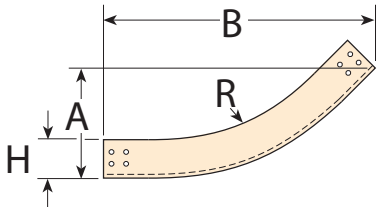
45° Outside Bend

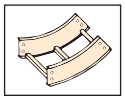


Number of rungs vary depending on radius.



45° Inside Bend





R	W	Outside Vertical Bend Dimensions A	Outside Vertical Bend Dimensions B	Outside Vertical Bend Part Number	Inside Vertical Bend H@4" A	Inside Vertical Bend H@4" B	Inside Vertical Bend H@5" A	Inside Vertical Bend H@5" B	Inside Vertical Bend H@6.3" A	Inside Vertical Bend H@6.3" B	Inside Vertical Bend Part Number
12" (305)	6			## * 06040							## * 06060
	9			## * 09040							## * 09060
	12			## * 12040							## * 12060
	18	5.6 (143)	13.6 (356)	## * 18040	6.8 (173)	16.4 (417)	7.1 (180)	17.1 (435)	7.8 (198)	18.8 (478)	## * 18060
	24			## * 24040							## * 24060
	30			## * 30040							## * 30060
	36			## * 36040							## * 36060
	42			## * 42040							## * 42060
	48			## * 48040							## * 48060
24" (610)	6			## * 06042							## * 06062
	9			## * 09042							## * 09062
	12			## * 12042							## * 12062
	18	9.2 (232)	22.1 (561)	## * 18042	10.3 (262)	24.92 (633)	10.6 (270)	25.6 (651)	11.3 (287)	27.3 (693)	## * 18062
	24			## * 24042							## * 24062
	30			## * 30042							## * 30062
	36			## * 36042							## * 36062
	42			## * 42042							## * 42062
	48			## * 48042							## * 48062
36" (914)	6			## * 06043							## * 06063
	9			## * 09043							## * 09063
	12			## * 12043							## * 12063
	18	12.7 (322)	30.6 (777)	## * 18043	13.8 (351)	33.4 (849)	14.1 (359)	34.12 (867)	14.8 (376)	35.7 (907)	## * 18063
	24			## * 24043							## * 24063
	30			## * 30043							## * 30063
	36			## * 36043							## * 36063
	42			## * 42043							## * 42063
	48			## * 48043							## * 48063
48" (1219)	6			## * 06044							## * 06064
	9			## * 09044							## * 09064
	12			## * 12044							## * 12064
	18	16.2 (411)	39.1 (922)	## * 18044	17.4 (441)	41.9 (1064)	17.6 (448)	42.6 (1082)	18.03 (465)	44.2 (1123)	## * 18064
	24			## * 24044							## * 24064
	30			## * 30044							## * 30064
	36			## * 36044							## * 36064
	42			## * 42044							## * 42064
	48			## * 48044							## * 48064

W=Widths in Inches *(mm)*

6" (152)
9" (229)
12" (305)
18" (457)
24" (610)
30" (762)
36" (914)
42" (1067)
48" (1176)

H=Side Rail Height in Inches *(mm)*

4" (101)
5" (127)
6.3" (160)
7.3" (179) Consult Factory
8" (203) Consult Factory

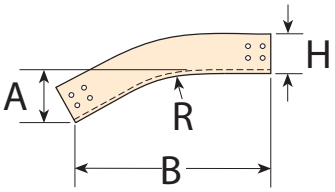
For Steel Fitting Part Numbers Use:
*4" High Tray ## = 246 **
*5" High Tray ## = 256 **
*6" High Tray ## = 266 **
For Covers and Barriers
See Accessories Section, Pages **1-20–1-22**

Tray System ***Type of Material—** *See Page* **1-4** *for Selection.*

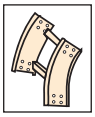
30° Outside & Inside Vertical Bend Fittings

All Ladder Tray Fittings have rungs on 9" centers with 3" tangents for easy fit-up during installation. Each fitting and straight section comes with a pair (2) splice plates and eight (8) 9SBN302 nut and bolt assemblies.

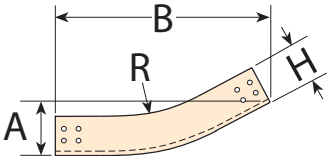
30° Outside Bend

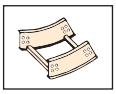


Number of rungs vary depending on radius.



30° Inside Bend





R	W	Outside Vertical Bend Dimensions A	Outside Vertical Bend Dimensions B	Outside Vertical Bend Part Number	Inside Vertical Bend H@4" A	Inside Vertical Bend H@4" B	Inside Vertical Bend H@5" A	Inside Vertical Bend H@5" B	Inside Vertical Bend H@6.3" A	Inside Vertical Bend H@6.3" B	Inside Vertical Bend Part Number
12" (305)	6	3.2 (79)	11.6 (295)	## * 06035	3.7 (93)	13.6 (345)	3.8 (96)	14.1 (358)	3.9 (100)	14.8 (375)	## * 06055
	9			## * 09035							## * 09055
	12			## * 12035							## * 12055
	18			## * 18035							## * 18055
	24			## * 24035							## * 24055
	30			## * 30035							## * 30055
	36			## * 36035							## * 36055
	42			## * 42035							## * 42055
	48			## * 48035							## * 48055
24" (610)	6	4.7 (120)	17.6 (447)	## * 06037	5.3 (133)	19.6 (498)	5.4 (137)	20.1 (511)	5.6 (141)	20.8 (527)	## * 06057
	9			## * 09037							## * 09057
	12			## * 12037							## * 12057
	18			## * 18037							## * 18057
	24			## * 24037							## * 24057
	30			## * 30037							## * 30057
	36			## * 36037							## * 36057
	42			## * 42037							## * 42057
	48			## * 48037							## * 48057
36" (914)	6	6.32 (161)	23.60 (599)	## * 06038	6.9 (174)	25.6 (650)	7.0 (178)	26.1 (663)	7.2 (182)	27.1 (688)	## * 06058
	9			## * 09038							## * 09058
	12			## * 12038							## * 12058
	18			## * 18038							## * 18058
	24			## * 24038							## * 24058
	30			## * 30038							## * 30058
	36			## * 36038							## * 36058
	42			## * 42038							## * 42058
	48			## * 48038							## * 48058
48" (1219)	6	7.93 (201)	29.60 (752)	## * 06039	8.5 (215)	31.6 (803)	8.6 (218)	32.1 (815)	8.8 (223)	32.8 (832)	## * 06059
	9			## * 09039							## * 09059
	12			## * 12039							## * 12059
	18			## * 18039							## * 18059
	24			## * 24039							## * 24059
	30			## * 30039							## * 30059
	36			## * 36039							## * 36059
	42			## * 42039							## * 42059
	48			## * 48039							## * 48059

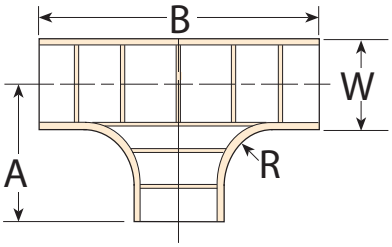
For Steel Fitting Part Numbers Use:
*4" High Tray ## = 246 **
*5" High Tray ## = 256 **
*6" High Tray ## = 266 **
For Covers and Barriers
See Accessories Section, Pages **1-20–1-22**

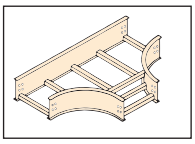
Tray System ***Type of Material*** *— See Page* **1-4** *for Selection.*

Fittings

All Ladder Tray Fittings have rungs on 9" centers with 3" tangents for easy fit-up during installation.

Tee



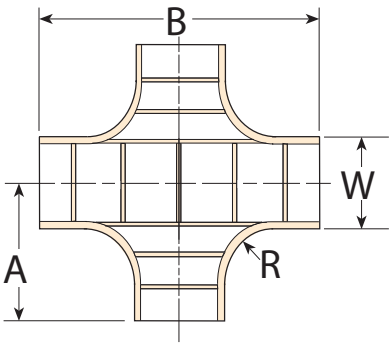


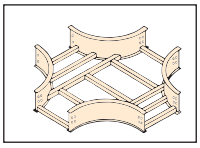
Each Tee fitting comes with two pairs (4) of splice plates and sixteen (16) 9SBN302 nut and bolt assemblies.

R	W	Dimensions A	Dimensions B	Part Number
12" (305)	6	18 (457)	36 (914)	## * 06085
	9	19.5 (495)	39 (991)	## * 09085
	12	21 (533)	42 (1067)	## * 12085
	18	24 (610)	48 (1549)	## * 18085
	24	27 (686)	54 (1372)	## * 24085
	30	30 (762)	60 (1524)	## * 30085
	36	33 (838)	66 (1676)	## * 36085
	42	36 (914)	72 (1829)	## * 42085
	48	39 (991)	78 (1981)	## * 48085
24" (610)	6	30 (762)	60 (1524)	## * 06087
	9	31.5 (800)	63 (1600)	## * 09087
	12	33 (838)	66 (1676)	## * 12087
	18	36 (914)	72 (1829)	## * 18087
	24	39 (991)	78 (1981)	## * 24087
	30	42 (1067)	84 (2134)	## * 30087
	36	45 (1143)	90 (2286)	## * 36087
	42	48 (1219)	96 (2438)	## * 42087
	48	51 (1295)	102 (2591)	## * 48087
36" (914)	6	42 (1067)	84 (2134)	## * 06088
	9	43.5 (1105)	87 (2210)	## * 09088
	12	45 (1143)	90 (2286)	## * 12088
	18	48 (1219)	96 (2438)	## * 18088
	24	51 (1295)	102 (2591)	## * 24088
	30	54 (1372)	108 (2743)	## * 30088
	36	57 (1448)	114 (2896)	## * 36088
	42	60 (1524)	120 (3048)	## * 42088
	48	63 (1600)	126 (3200)	## * 48088
48" (1219)	6	54 (1372)	108 (2743)	## * 06089
	9	55.5 (1410)	111 (2819)	## * 09089
	12	57 (1448)	114 (2896)	## * 12089
	18	60 (1524)	120 (3048)	## * 18089
	24	63 (1600)	126 (3200)	## * 24089
	30	66 (1676)	132 (3353)	## * 30089
	36	69 (1753)	138 (3505)	## * 36089
	42	72 (1829)	144 (3658)	## * 42089
	48	75 (1905)	150 (3810)	## * 48089

Expansion & Reducer Tees *can be custom fabricated at standard Tee pricing. Specify various widths counter clockwise (using drawing above) starting at left.*

Cross



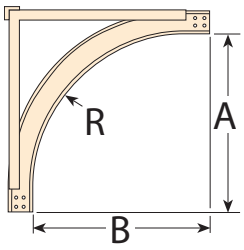


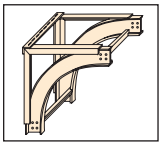
Each Cross fitting comes with three pairs (6) of splice plates and twenty four (24) 9SBN302 nut and bolt assemblies.

R	W	Dimensions A	Dimensions B	Part Number
12" (305)	6	18 (457)	36 (914)	## * 06080
	9	19.5 (495)	39 (991)	## * 09080
	12	21 (533)	42 (1067)	## * 12080
	18	24 (610)	48 (1549)	## * 18080
	24	27 (686)	54 (1372)	## * 24080
	30	30 (762)	60 (1524)	## * 30080
	36	33 (838)	66 (1676)	## * 36080
	42	36 (914)	72 (1829)	## * 42080
	48	39 (991)	78 (1981)	## * 48080
24" (605)	6	30 (762)	60 (1524)	## * 06082
	9	31.5 (800)	63 (1600)	## * 09082
	12	33 (838)	66 (1676)	## * 12082
	18	36 (914)	72 (1829)	## * 18082
	24	39 (991)	78 (1981)	## * 24082
	30	42 (1067)	84 (2134)	## * 30082
	36	45 (1143)	90 (2286)	## * 36082
	42	48 (1219)	96 (2438)	## * 42082
	48	51 (1296)	102 (2591)	## * 48082
30" (762)	6	42 (1067)	84 (2134)	## * 06083
	9	43.5 (1105)	87 (2210)	## * 09083
	12	45 (1143)	90 (2286)	## * 12083
	18	48 (1219)	96 (2438)	## * 18083
	24	51 (1295)	102 (2591)	## * 24083
	30	54 (1372)	108 (2743)	## * 30083
	36	57 (1448)	114 (2896)	## * 36083
	42	60 (1524)	120 (3048)	## * 42083
	48	63 (1600)	126 (3200)	## * 48083
48" (1219)	6	54 (1372)	108 (2743)	## * 06084
	9	55.5 (1410)	111 (2819)	## * 09084
	12	57 (1448)	114 (2896)	## * 12084
	18	60 (1524)	120 (3048)	## * 18084
	24	63 (1600)	126 (3200)	## * 24084
	30	66 (1676)	132 (3353)	## * 30084
	36	69 (1753)	138 (3505)	## * 36084
	42	72 (1829)	144 (3658)	## * 42084
	48	63 (1600)	150 (3810)	## * 48084

Expansion & Reducer Crosses *can be custom fabricated. Specify various widths counter clockwise (using drawing above) starting at left.*

90° Vertical Support Riser





Each Riser comes with a pair of (2) splice plates and eight (8) 9SBN302 nut and bolt assemblies.

R	W	Dimensions A	Dimensions B	Part Number
12" (305)	6			## * 06090
	9			## * 09090
	12			## * 12090
	18	15 (381)	15 (381)	## * 18090
	24			## * 24090
	30			## * 30090
	36			## * 36090
	42			## * 42090
	48			## * 48090
24" (610)	6			## * 06092
	9			## * 09092
	12			## * 12092
	18	27 (686)	27 (686)	## * 18092
	24			## * 24092
	30			## * 30092
	36			## * 36092
	42			## * 42092
	48			## * 48092
36" (914)	6			## * 06093
	9			## * 09093
	12			## * 12093
	18	39 (991)	39 (991)	## * 18093
	24			## * 24093
	30			## * 30093
	36			## * 36093
	42			## * 42093
	48			## * 48093
48" (1219)	6			## * 06094
	9			## * 09094
	12			## * 12094
	18	51(1295)	51(1295)	## * 18094
	24			## * 24094
	30			## * 30094
	36			## * 36094
	42			## * 42094
	48			## * 48094

For Steel Fitting Part Numbers Use:

*4" High Tray ## = 246 **

*5" High Tray ## = 256 **

*6" High Tray ## = 266 **

For Covers and Barriers

See Accessories Section, Pages **1-20–1-22**

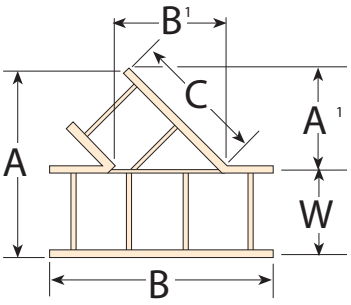
Tray System

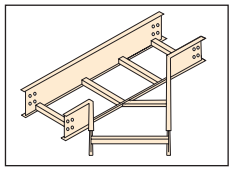
** Type of Material— See Page* **1-4** *for Selection.*

Fittings

All Ladder Tray Fittings have rungs on 9" centers with 3" tangents for easy fit-up during installation.

Left or Right Hand Wye





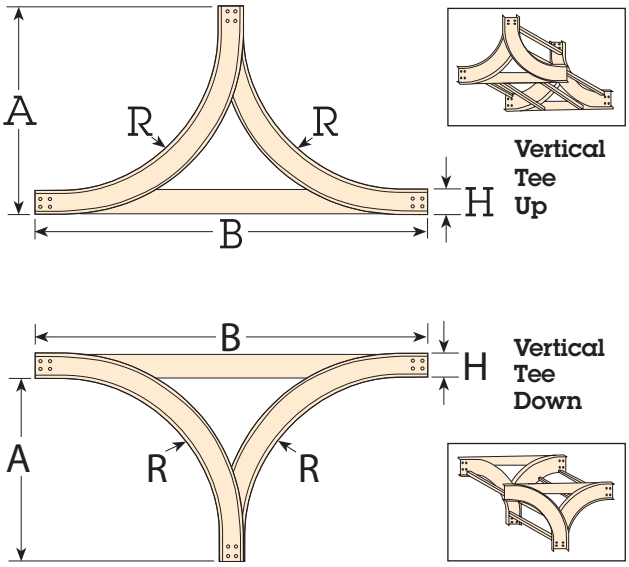
Number of rungs vary depending on tray width.

W	B[1]	B	C	A[1]	A	Part Number
6"	8.49 (216)	15.73 (400)	12 (305)	4.24 (108)	14.49 (368.0)	
9"	12.73 (323)	22.09 (561)	18 (457)	6.36 (162)	21.73 (551.9)	
12"	16.97 (431)	28.45 (723)	24 (610)	8.48 (215)	28.97 (735.8)	## * W 172 RIGHT Hand
18"	25.45 (647)	41.19 (1046)	36 (914)	12.73 (323.3)	43.46 (1103.9)	
24"	33.94 (862)	53.91 (1369)	48 (1219)	16.97 (431.0)	57.94 (1471.7)	or
30"	42.43 (1078)	66.64 (1693)	60 (1524)	21.21 (538.7)	72.43 (1839.7)	
36"	50.91 (1293)	79.37 (2016)	72 (1829)	25.46 (646.7)	86.41 (2194.8)	## * W 173 LEFT Hand
42"	59.40 (1509)	92.10 (2339)	84 (2134)	29.20 (741.7)	101.4 (2575.6)	
48"	67.90 (1725)	104.34 (2650)	96 (2438)	33.94 (862.1)	115.9 (2943.9)	

Special Wyes can be made with two different tray widths. Consult factory.

Each Wye is furnished with two pairs (4) of splice plates and eight (8) 9SBN302 nut and bolt assemblies.

Vertical Tee



R	Dimensions/Side Rail Height=H 4" A	4" B	5" A	5" B	6" A	6" B	Part Number
12" (305)	15 (381)	34 (864)	15 (381)	35 (889)	15 (381)	36.3 (922)	## * W 095
	19 (483)	34 (864)	20 (508)	35 (889)	22.3 (566)	36.3 (922)	## * W 095U
24" (610)	27 (686)	58 (1473)	27 (686)	59 (1499)	27 (686)	60.3 (1532)	## * W 097
	31 (787)	58 (1473)	32 (813)	59 (1499)	34.3 (871)	60.3 (1532)	## * W 097U
36" (914)	39 (991)	82 (2083)	39 (991)	83 (2108)	39 (846)	84.3 (2141)	## * W 098
	43 (1092)	82 (2083)	44 (1118)	83 (2108)	46.3 (1176)	84.3 (2141)	## * W 098U
48"	51 (1295)	106 (2692)	51 (1295)	107 (2718)	51 (1295)	108.3 (2751)	## * W 099
	55 (1397)	106 (2692)	56 (1422)	107 (2718)	58.3 (1481)	108.3 (2751)	## * W 099U

Each Vertical Tee is furnished with two (2) pairs of splice plates and sixteen (16) 9SBN302 nut and bolt assemblies.

Fitting Reducers

Fitting Reducers are available in right hand, left hand or concentric styles as a special order. Consult Factory. Chalfant strongly recommends the use of **offset splice plate reducers** *which are 1/3 the cost and 1/2 the labor to install while doing the same job.*
See Page **1-19** *in the Accessories Section.*

Fitting Covers

Covers— *Available in Flanged and Flat styles only.*

See page **1-20** *in the Accessories Section.*

To order covers substitute the "Tray System" number (##) with a **7** *for the Flanged style cover or a* **67** *for a Flat cover style.*

Example:
Tray part Number. 2 A 06050
7 *Flanged* **67** *Flat*

Barriers— *Available for Horizontal and Vertical fittings.*

See page **1-22** *in the Accessories Section.*

To order Vertical Barriers substitute the "Tray System" number (##) with an **8**. *and substitute "BS", as shown.*

Example:
Tray part Number. 2 A 06050 + [Barrier Height]
8 **BS**

For Horizontal Barriers— See Page **1-22** *and specify part number 8 * BS340-A.*

Tray System

* *Type of Material— See Page* **1-4** *for Selection.*

Cable Tray Accessories

Chalfant's complete line of accessories are designed to be used with the following Cable Tray Systems:

How to Order

Example: 4-Bolt Slotted Hole Splice Plate

2	A	SP200
Tray System Number	Type of Material See material codes *	Part Number from Catalog

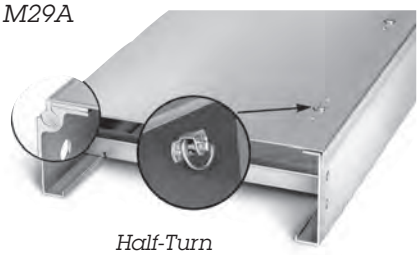
*** Material Code:**

A =Aluminum, High Strength 6063T6 Extrusions (5052H34 sheet)
S = Pre-Galvanized Steel to ASTM 653A G-90 Coating, 1.05 Mils Thick
G =Hot Dip Galvanized after Fabrication to ASTM 123-B2 2.55 Mils Thick (replaced ASTM 386)
T = 304L Stainless Steel
Z = 316L Stainless Steel

Cable Tray Accessories

Integral Hinged Cover

M24A
M29A

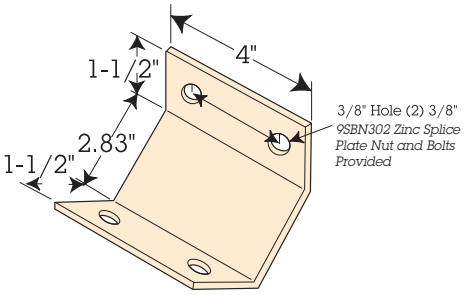


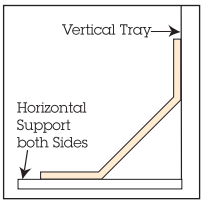
Half-Turn Spring Latch

Available in 24A and 29A systems in twelve foot standard lengths. Material is 6063 Aluminum Alloy.

Heavy-Duty Vertical Hold Down Bracket

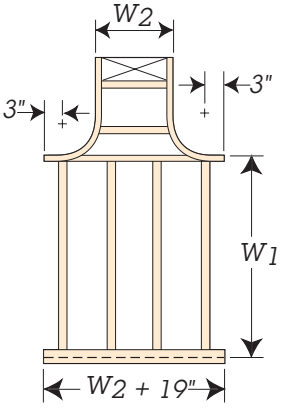
9SHD590



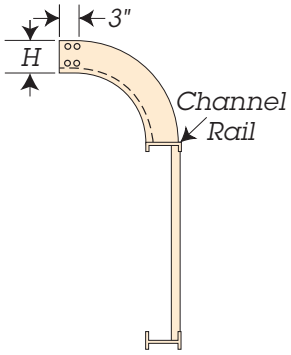


Tee with Drop-Out

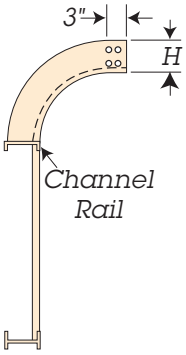
24A $W_1$085-VOT-W_2 (vertical outside tap)
24A $W_1$085-VIT-W_2 (vertical inside tap)

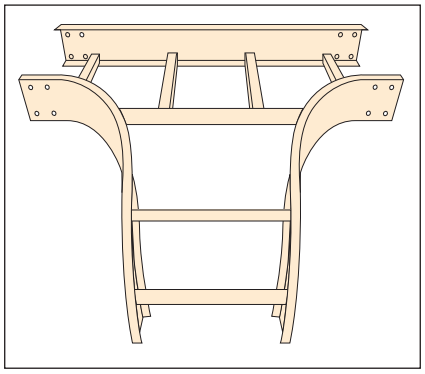


Tee with Inside Tap (Up)



Tee with Outside Tap (Down)





W_1 = Width of Horizontal Run
W_2 = Width of Vertical Tap

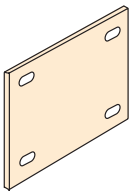
Available in any tray size in systems 2A through 665A. Material is 6063 Aluminum Alloy. See page 1-6 for selection.

Cable Tray Splice Plates and Adapters

Note: All splice plates are shipped in pairs with necessary zinc hardware.

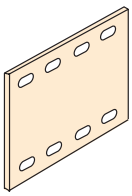
4 Bolt Splice Plate

‡‡ * **SP200**



8 Hole Long Splice Plate

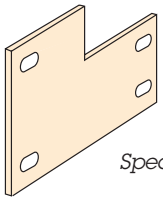
‡‡ * **SP209**



Note: Anti-oxide compound is not needed behind plates— Per NEMA VE-2.

Adapter Splice Plate

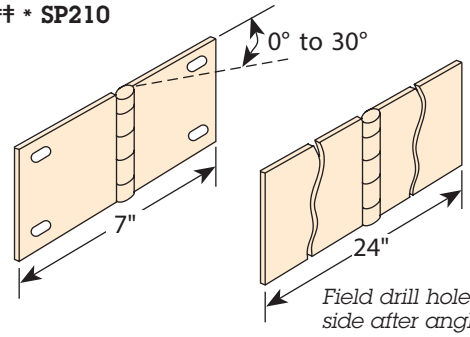
9 * SP286 *8" to 6"*
9 * SP265 *6" to 5"*
9 * SP264 *6" to 4"*
9 * SP254 *5" to 4"*



Special Order

Horizontal Adjustable Splice Plate

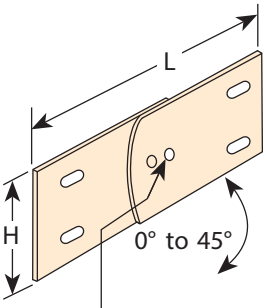
‡‡ * **SP210**



Field drill holes this side after angle is set.

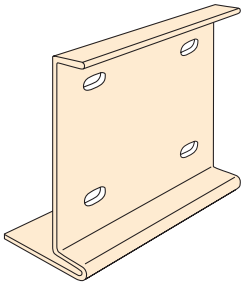
Vertical Adjustable Splice Plate

‡‡ * **SP212**



Field drill hole next to pivot point after angle is set.

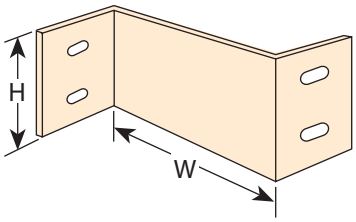
Mid-Span Splice Plate



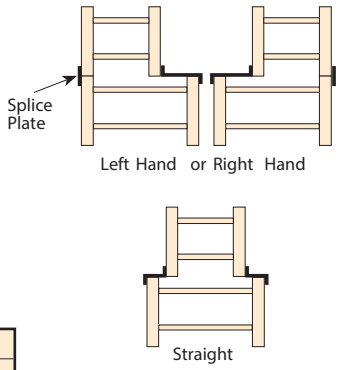
Aluminum splice plates are shipped in pairs with zinc hardware.

Rail Height	Tray Series	Part Number
6"	665A	665AWASP200
7"	47A	47AWASP200
	57A	57AWASP200

Reducer Splice Plates



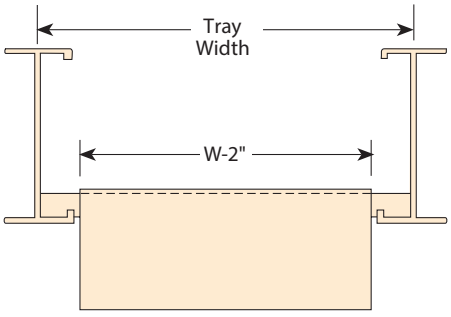
Nominal Dimensions		Part Numbers	
H	W	Offset	Straight
"H" varies with loading depth of specified straight sections.	3"	‡‡ * 03236	‡‡ * 03237
	6"	‡‡ * 06236	‡‡ * 06237
	9"	‡‡ * 09236	‡‡ * 09237
	12"	‡‡ * 12236	‡‡ * 12237
	18"	‡‡ * 18236	‡‡ * 18237
	21"	‡‡ * 21236	‡‡ * 21237
	24"	‡‡ * 24236	‡‡ * 24237
	27"	‡‡ * 27236	‡‡ * 27237
	30"	‡‡ * 30236	‡‡ * 30237

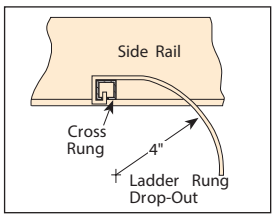


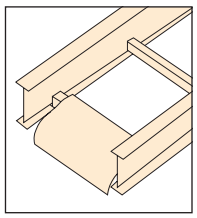
*Where application calls for a left or right hand reduction, Chalfant reducing splice plates are sold with a standard splice plate ‡‡ * **SP200**. For a concentric straight reduction, the dimension "W" is the total reduction.*

Ladder Rung Drop-Out

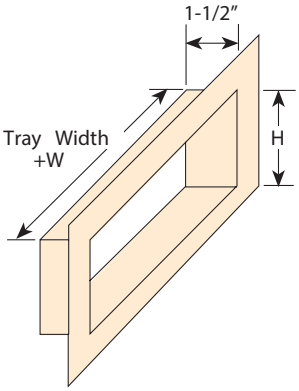
9 * W198







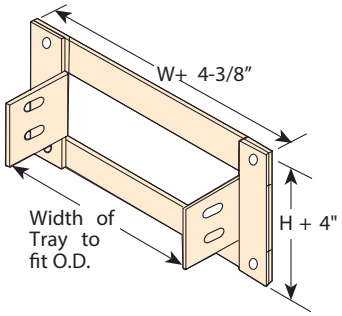
Wall Frame— 1 Tier



Rail Height	H	W	Part Number
4"	4.0"	2.50"	94*W495
5"	5.4375	2.50"	95*W495
6"	6.875	2.50"	96*W495

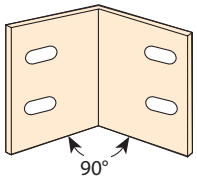
Tray to Panel Frame

9HSW244



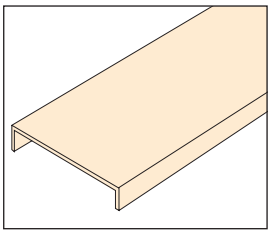
90° Alternate Tray to Box Connector

‡‡ * **SP213**

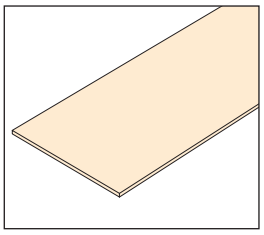


‡‡ *Tray System*
* *Type of Material— See Page* **1-18** *for Selection.*

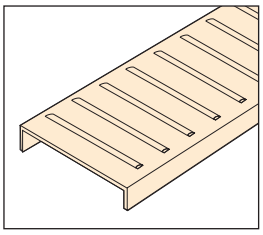
Covers and Accessories



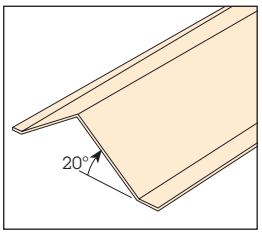
Standard Cover▲
7 * W 010



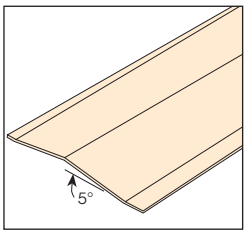
Flat Cover▲
67 * W 010



Louvered Cover▲
7 * W 010-V



Peak Cover-- 20°
7 * W 010-P

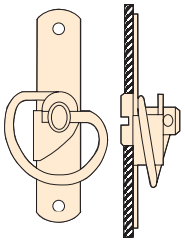


Rain Peaked Cover
7 * W 010-RP

Note: Standard cover length is 12'. ▲Also available with installed spring latches— See Below and Page 1-18. W=Width

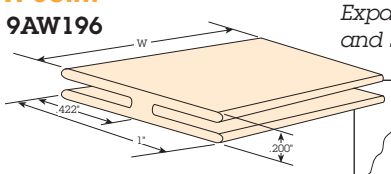
Spring Latch

▲Option for Covers

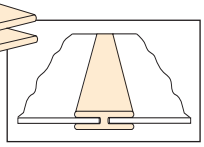


H Joint

9AW196

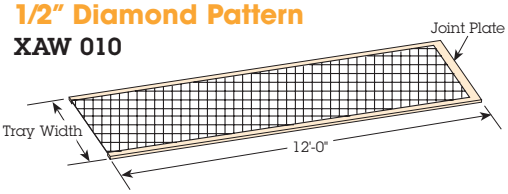


For Covers, Expanded Metal and Solid Bottoms



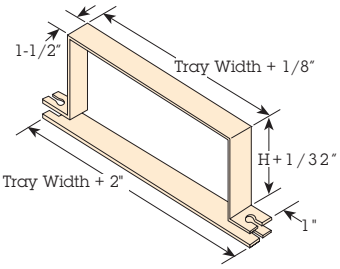
Aluminum Expanded Metal Bottom-- 1/2" Diamond Pattern

XAW 010



Heavy Duty Cover Strap

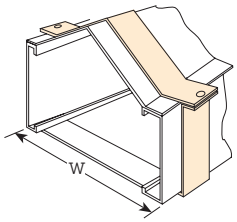
7 * W69H



Peaked Cover Heavy Duty Strap

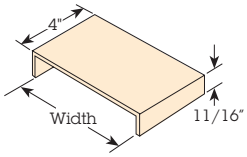
7 * W69H-RP
7 * W69H-P

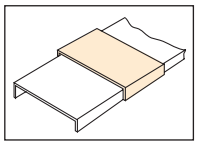
RP=5° Slope
P=20° Slope



Cover Joint Strap

7 * W196

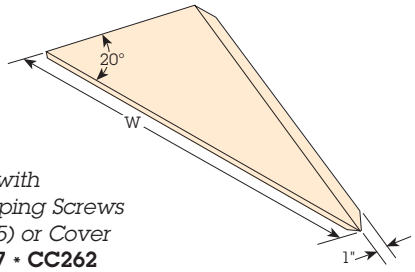




Installs with Self-Tapping Screws (Pg. 1-25) or Cover Clamp **7 * CC262**

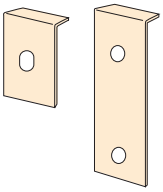
Peaked Cover Blind End

7 * W245

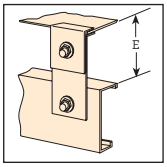


Raised Cover Clamp-- Channel

7 * CC70C

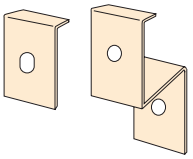


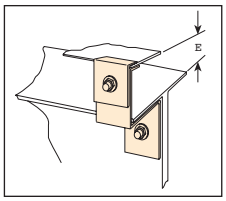
E=1", 2", 3" Elevated



Raised Cover Clamp-- I-Beam

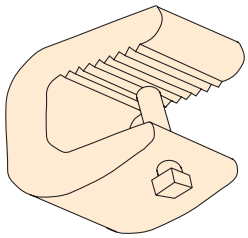
7 * CC70E



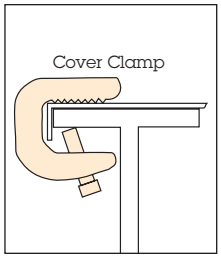


Aluminum Cover Clamp or Conduit Bracket

7ACC262

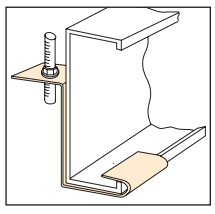


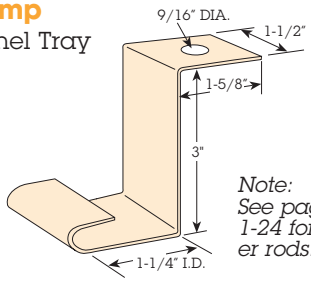
For galvanized steel order 7SCC262



Hanger Rod Clamp

9SHC239 All Channel Tray

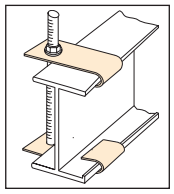




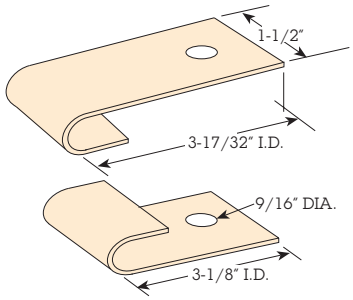
Note: See page 1-24 for hanger rods.

Hanger Rod Clamp

9SHC257 3A, 26A & 46A Tray
9SHC249 2A,34A & 35A Tray

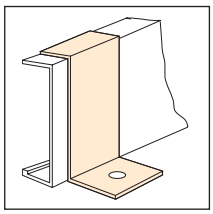


Note: See page 1-24 for hanger rods.

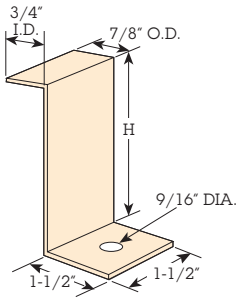


Wall Bracket Clamp-- Channel

9S0H248



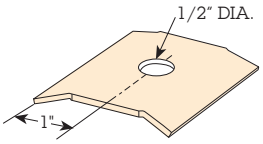
For I-Beam— **9S ‡‡ A248**

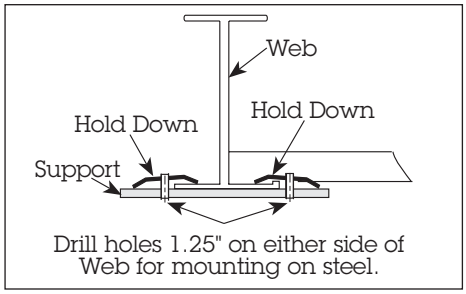


H=4" (2A Systems)
5" (35A Systems)
6" (3A Systems)

Hold Down Clamp

9 * BC250

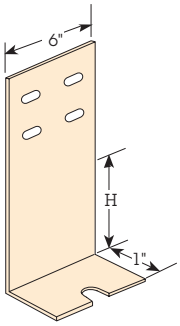


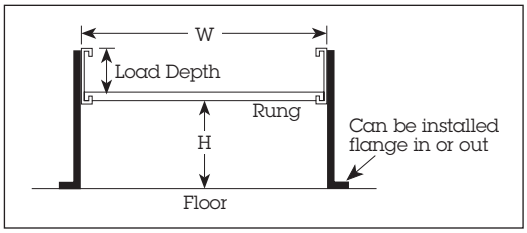


Used on either side with aluminum I-beam. Installs on inside of C-Channel.

Raised Support Splice Plate

‡‡ * SP200-H

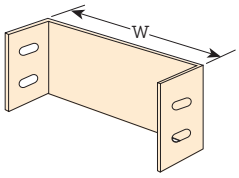




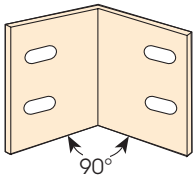
Used on C-Channel side rails, only.
U.S. Patent 4,596,095

Blind End

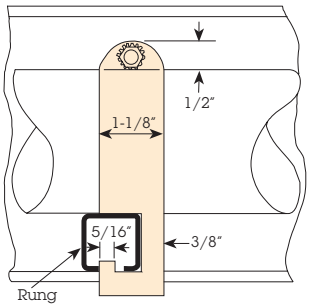
‡‡ * W245



‡‡ * SP213



Stainless Steel Ladder Rung Cable Clamp

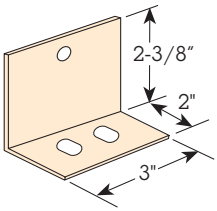


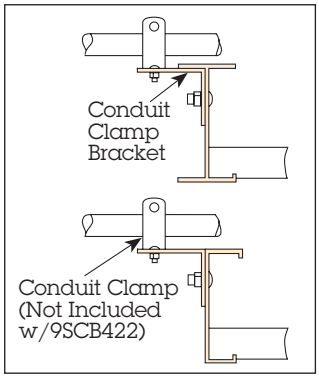
O. D. of Cable	Part Numbers
1.00"-1.25"	9TLC288
1.25"-1.50"	9TLC289
1.50"-1.75"	9TLC290
1.75"-2.00"	9TLC291
2.00"-2.25"	9TLC292
2.25"-2.50"	9TLC293
2.50"-2.75"	9TLC294
2.75"-3.00"	9TLC295
3.00"-3.25"	9TLC296
3.25"-3.50"	9TLC297
3.50"-3.75"	9TLC298
3.75"-4.00"	9TLC299
4.00"-4.25"	9TLC300
4.25"-4.50"	9TLC301
4.50"-4.75"	9TLC302

1/4" adjustment on all clamps.
20 ga. stainless steel with 1/4"-20-3/4" bolt and locknut.

Optional Conduit Clamp Bracket

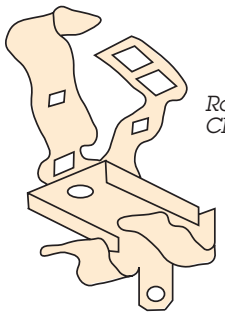
9SCB422

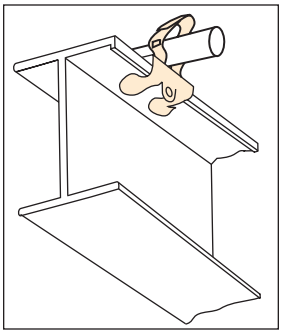




Universal Clamp & Conduit Clip

9SCB423 (1/2" to 3/4" Conduit)





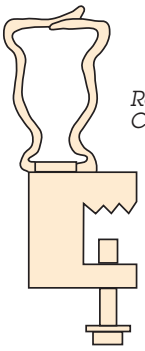
Caddy Design for I-Beam

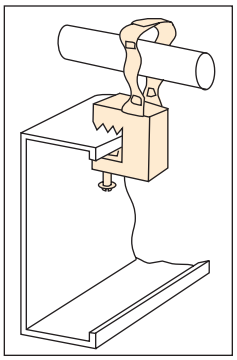
‡‡ *Tray System*

* *Type of Material— See Page 1-18 for Selection.*

Beam Clamps

9SCB424 (1/2" to 3/4" Conduit)**





Caddy Design for C-Channel

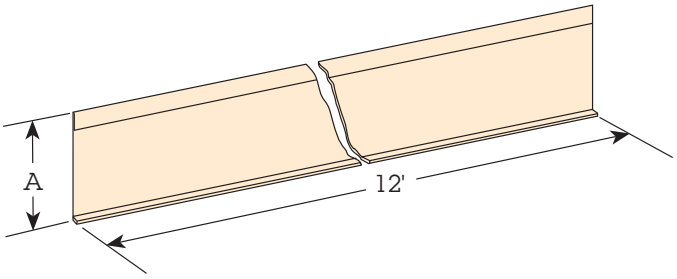
***Call factory for other conduit sizes.*

Barriers and Separators

Barrier Strip-- Straight

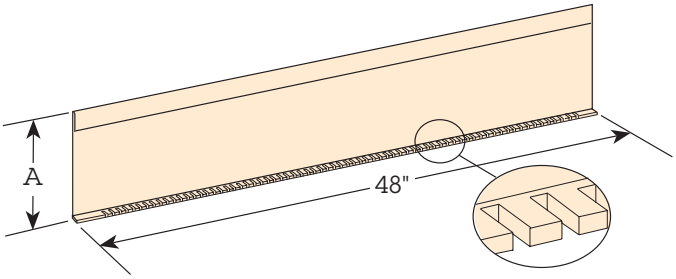
8 * BS010-A

*(For 3 meter length order: **8 * BS118-A**)*



Horizontal Adjustable Barrier-- Hand Formed

8 * BS340-A



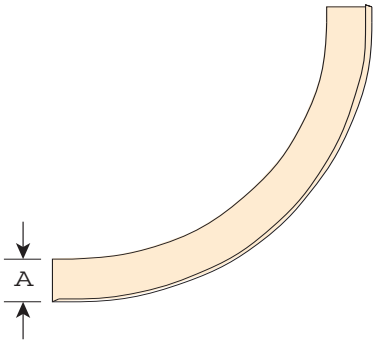
All barriers are supplied with (4) 9STK774 magnetic steel self tapping screws.

A= 3 for 3" and 4" Load Depths
5 for 5" and 6" Load Depths

90° Inside Vertical Barrier

12"- 8 * BS07 ‡ -A
24"- 8 * BS07 ‡ -A
36"- 8 * BS07 ‡ -A
48"- 8 * BS07 ‡ -A

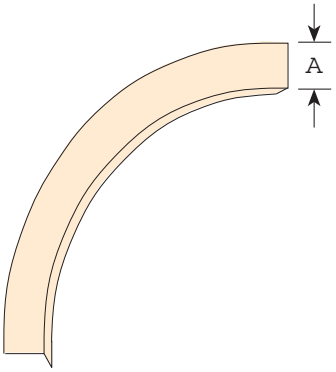
0=12" Radius
2=24" Radius
3=36" Radius
4=48" Radius



90° Outside Vertical Barrier

12"- 8 * BS05 ‡ -A
24"- 8 * BS05 ‡ -A
36"- 8 * BS05 ‡ -A
48"- 8 * BS05 ‡ -A

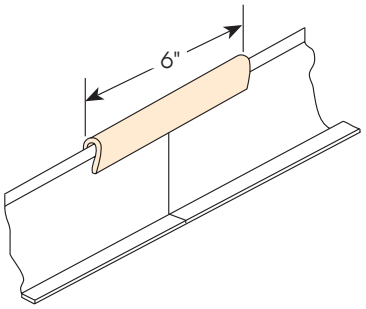
0=12" Radius
2=24" Radius
3=36" Radius
4=48" Radius



*For 30°, 45° and 60° Vertical Barriers, See Page **1-17***

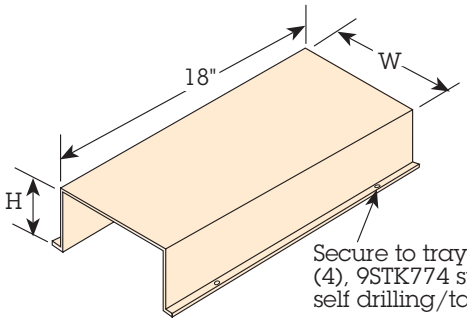
Barrier Alignment Joint Strip (Nylon)

8N06196

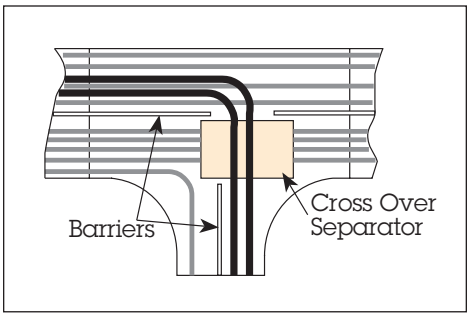


Cross Over Separator

8HSW



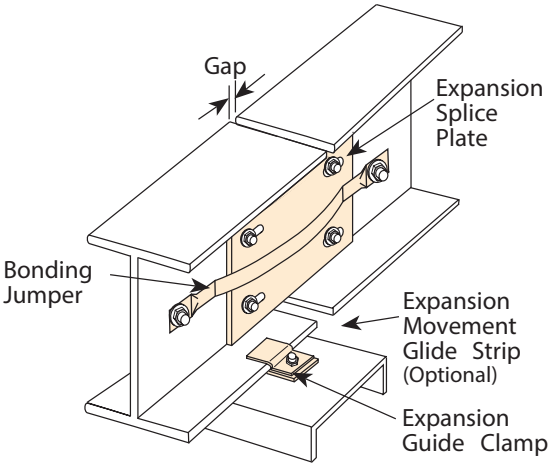
H=2" or 4"
S=16 Gauge Steel-ASTM-653A
W=6" or 12"



‡‡ *Tray System*
***** *Type of Material—*
*See Page **1-18** for Selection.*

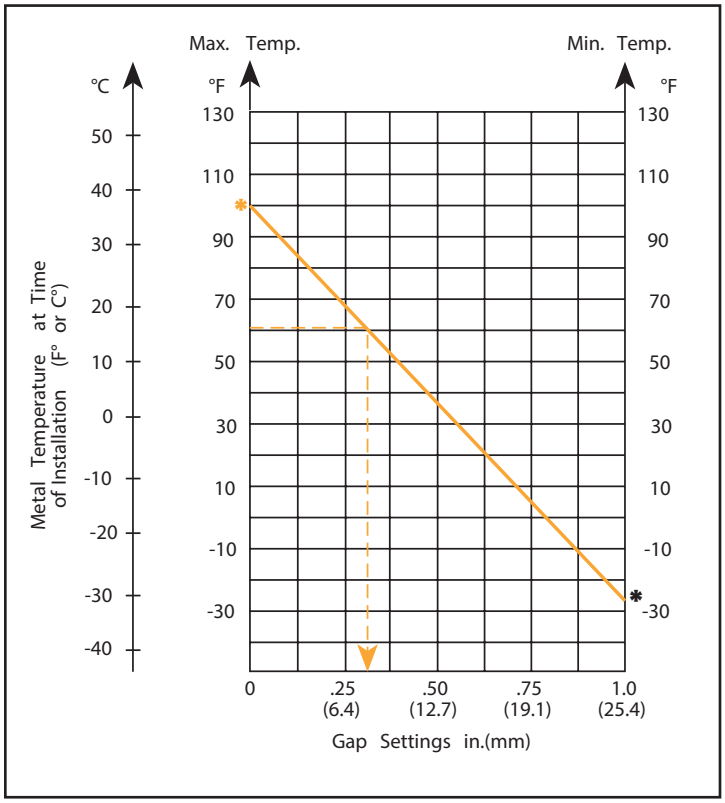
Expansion Joint Components/Gap Setting

Tray Expansion Gap Setting



Maximum Spacing Between Expansion Joints that Provide for One Inch (25.4) Movement

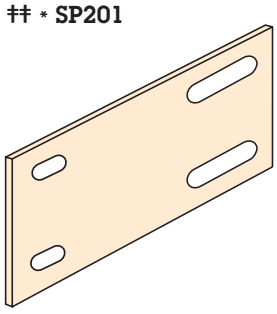
Temperature Differential		Steel		Aluminum	
F°	C°	Ft.	m	Ft.	m
25	(-4)	512	(156)	260	(79.2)
50	(10)	256	(78)	130	(39.6)
75	(24)	171	(52.1)	87	(26.5)
100	(38)	128	(39.0)	65	(19.8)
125	(51)	102	(31.1)	52	(15.8)
150	(65)	85	(25.9)	43	(13.1)
175	(79)	73	(22.2)	37	(11.3)



* *Input temperature Max/Min for your location.*

Expansion Splice Plate

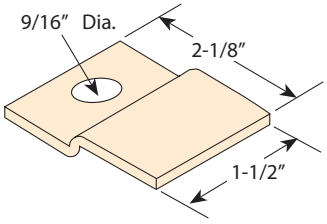
‡‡ * SP201



Furnished in pairs (2) with (4) 9SBN302 nut & bolt assemblies and (4) 9SEB519 shoulder bolts, washers and nyloc hex nuts.

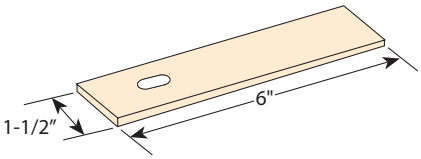
Expansion Guide Clamp

9 * EX253

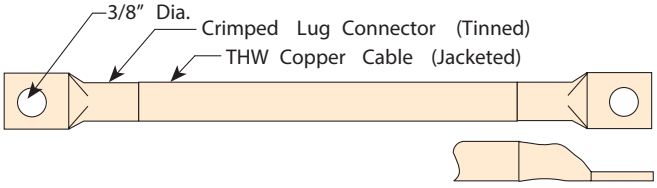


Expansion Movement Glide Strip—Isolation Pad

9NPG259



Bonding Jumper



Cable Size	Rated Amps	Part Number
#6	200	9CBJ200
#1	600	9CBJ600
2/0	1000	9CBJ1000
4/0	1600	9CBJ1600

Furnished with (2) 38" fasteners. Field drill mounting holes. Allow for 1" expansion.

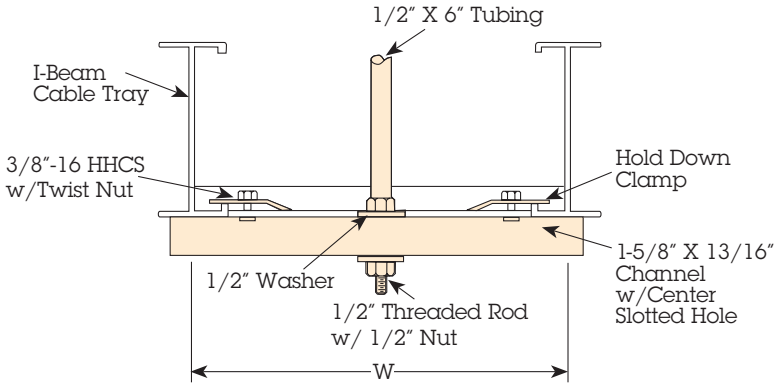
‡‡ *Tray System*

* *Type of Material— See Page* **1-18** *for Selection.*

Support Equipment

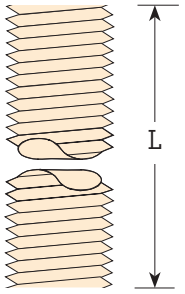
Single Center Support for Ladder Tray

9SW263



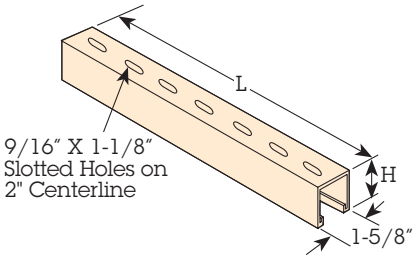
Note: All items are supplied except for 1/2" threaded rod.

Hanger Rods



L	Part Number 3/8"-16	1/2"-13
12"	9S12310	9S12312
24"	9S24310	9S24312
36"	9S36310	9S36312
48"	9S48310	9S48312
72"	9S72310	9S72312
120"	9S120310	9S120312

Trapeze Support Bracket

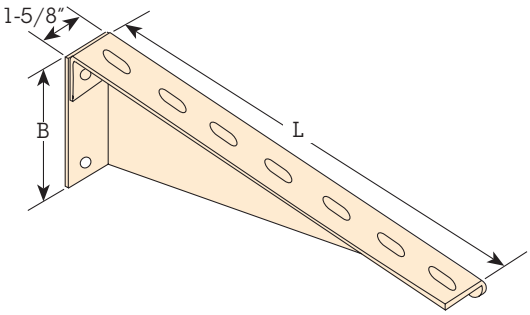


Tray Width	L	H	Usable Load (lbs.)	Part* Number
6	12"	0.8125	985	9S12323
9	15"	0.8125	830	9S15323
12	18"	0.8125	680	9S18323
18	24"	0.8125	495	9S24323
24	30"	1.625	1050	9S30323
30	36"	1.625	880	9S36323
36	42"	1.625	600	9S42323

Standard Channel Strut		Part* Number
Length 10'	Single	9S10570
	Double	9S10572
20'	Single	9S20570
	Double	9S20572

Note: Hanger rods and hardware not included.

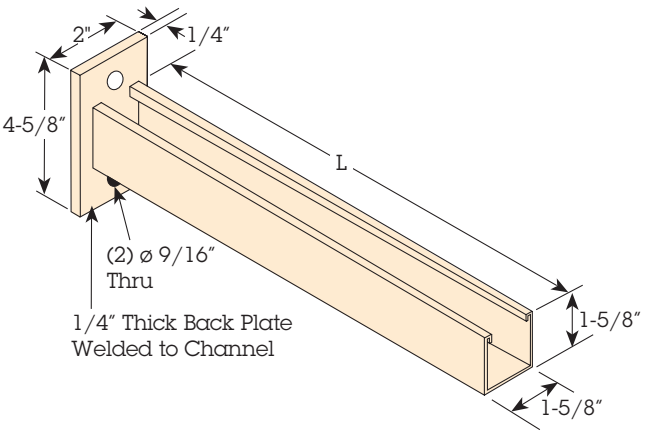
Shelf Style Wall Bracket



Tray Width	L	B	Uniform Load (lbs.)	Part* Number
6 & 9	10"	3.00	300	9S10322
12	16"	4.50	300	9S16322
18	22"	6.00	300	9S22322
24	28"	7.50	300	9S28322

Important: Allowance must be made for expansion if temperature extremes exist.

Medium Duty Strut Channel Bracket

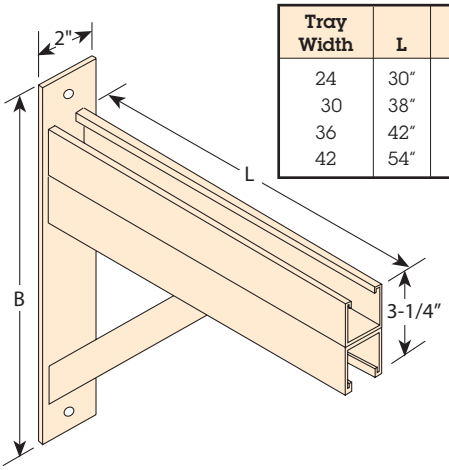


Tray Width	L	Uniform Load (lbs.)	Ga	Part* Number
6 & 9	12"	1500	12	9S12580
12	18"	750	12	9S18580
18	24"	500	12	9S24580
24	30"	250	12	9S30580

F.O.S. = 2.5
Securely mounted to wall with proper hardware.

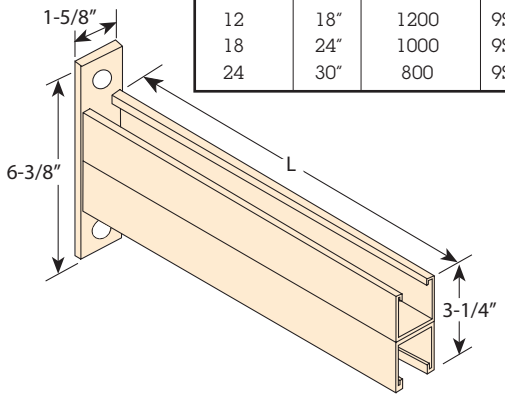
** For hot dipped ASTM 123 galvanized steel after fabrication: specify "G" for material designation.*

Heavy Duty Wall Bracket



Tray Width	L	B	Uniform Load (lbs.)	Part Number
24	30"	27.25	3000	9S30321
30	38"	35.25	2800	9S38321
36	42"	39.25	2500	9S42321
42	54"	49.25	2000	9S54321

Double Channel Bracket

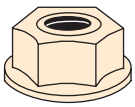


Tray Width	L	Uniform Load (lbs.)	Part Number
6 & 9	12"	2000	9S12582
12	18"	1200	9S18582
18	24"	1000	9S24582
24	30"	800	9S30582

Other Accessories

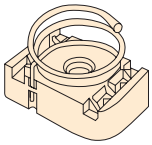
Flanged Washer/Hex Nut

9S38309 3/8" - 16
9S12309 1/2" - 13



Twist Nut

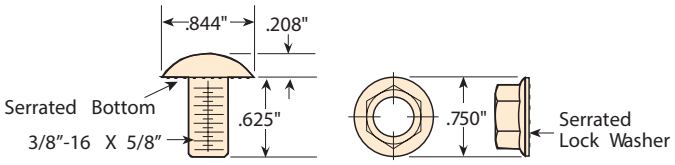
9S38575 - 3/8" - 16
9S12575 - 1/2" - 13



Splice Plate Nut & Bolt Assembly

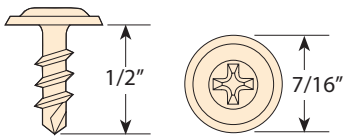
9TBN302 Stainless Steel
9SBN302 Zinc Plated (Standard)

The Splice Plate Nut & Bolt Assembly features a serrated truss head bolt and serrated hex flange lock nut. Recommended torque value is 20-foot pounds.



Self-Drilling/Tapping Screw

9STK774 Special Dorri Tech™ Coating, Steel (Magnetic)



For Covers, Barriers and Solid Bottom Installations

Misc.Accessories

9S38574	3/8"	16 X 1" Hex Head Machine Bolt
9S12574	1/2"	13 X 1" Hex Head Machine Bolt
9S12576	1-5/8"	Square Washer for Strut
9S38307	3/8"	Washer
9S12307	1/2"	Washer
9S38318	3/8"	16 Beam Clamp - Malleable Iron Plated
9S12318	1/2"	13 Beam Clamp - Malleable Iron Plated
9SVB227	"L"	Vertical Tray Bracket