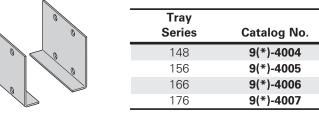
Standard (L-Shaped) Splice Plates

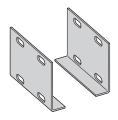
- One pair including hardware provided with each section. (Expansion splice quantity subtracted)
- Furnished in pairs with hardware.
- Prepackaged in pairs in a plastic bag, with hardware.
- 4-hole pattern L-shaped splice plates.
- L-shaped lay-in design.
- (*) Insert ZN or G





Expansion (L-Shaped) Splice Plates

- Expansion plates allow for one inch expansion or contraction of the cable tray, or where expansion joints occur in the supporting structure.
- Bonding Jumpers are required on each side rail.
 Order Separately.
- L-shaped lay-in design.
- Furnished in pairs with hardware.
- (*) Insert ZN or G



Tray	
Series	Catalog No.
148	9(*)-4014
156	9(*)-4015
166	9(*)-4016
176	9(*)-4017

Universal Splice Plates

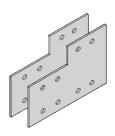
- Used to splice to existing cable tray systems.
- Furnished in pairs with hardware.
- (*) Insert **P** or **G**



Tray	
Series	Catalog No.
148	9(*)-2004- ¹ / ₂
156	9(*)-2005- ¹ / ₂
166	9(*)-2006- ¹ /2
176	9(*)-2007- ¹ / ₂

Step Down Splice Plates

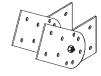
- These splice plates are offered for connecting cable tray sections having side rails of different heights.
- Furnished in pairs with hardware.
- (*) Insert **ZN** or **G**



Tray Series	Catalog No.
156 to148	9(*)-8044
166 to 156 or 148	9(*)-8045
176 to 156 or 148	9(*)-8046
176 to 166	9(*)-8060

Vertical Adjustable Splice Plates

- These plates provide for changes in elevation that do not conform to standard vertical fittings.
- Bonding jumpers not required.
- Furnished in pairs with hardware.
- (*) Insert ZN or G
- (**) Insert (P) or (G)



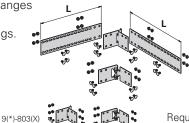
Requires supports within 24" on both sides, per NEMA VE 2.

	Tray
Catalog No.	Series
9(**)-7024	148
9(*)-8024	156
9(*)-8025	166
9(*)-8026	176

Horizontal Adjustable Splice Plates

- Offered to adjust a cable tray run for changes in direction in a horizontal plane that do not conform to standard horizontal fittings.
- Furnished in pairs with hardware.
- Bonding jumpers not required.
- (*) Insert **ZN** or **G**
- (X) Insert 4 for series 148 or 156, 5 for series 166, or 6 for series 176

9(*)-803(X)-12 or 9(*)-803(X)-36 One pair splice plates with extensions



Catalog No.	Cable Tray End Cut	Tray Width	'L'
9(*)-803(X)	Mitered	Thru 36"	N/A
9(*)-803(X)-12	Not mitered	Thru 12"	16"
9(*)-803(X)-36	Not mitered	Thru 36"	41"

Requires supports within 24" on both sides, per NEMA VE 2.

Green = Fastest shipped items

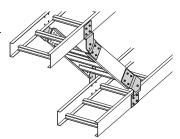
Black = Normal lead-time items

Red = Normally long lead-time items

Series 1 Stee

Branch Pivot Connectors

- Branch from existing cable tray runs at any point.
- Pivot to any required angle.
- UL Classified for grounding (bonding jumpers are not required).
- Furnished in pairs with hardware.
- (*) Insert **ZN** or **G**

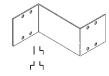


Tray Series	Catalog No.
156 to 148	9(*)-8244
166	9(*)-8245
176	9(*)-8246

Offset Reducing Splice Plate

- This plate is used for joining cable trays having different widths. When used in pairs they form a straight reduction; when used singly with a standard splice plate they form an offset reduction.
- Furnished as one plate with hardware.
- (‡) Insert reduction
- (*) Insert (P) or (G)





Tray Series	Catalog No.
148	9(*)-8064-(‡)
156	9(*)-8064-(‡)
166	9(*)-8065-(‡)
176	9(*)-8066-(‡)

Tray to Box Splice Plates

- Used to attach the end of a cable tray run to a distribution box or control panel.
- Furnished in pairs with hardware.
- (*) Insert (P) or (G)



Tray Series	Catalog No.
148	9(*)-8054
156	9(*)-8054
166	9(*)-8055
176	9(*)-8056

Frame Type Box Connector

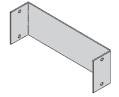
- Designed to attach the end of a cable tray run to a distribution cabinet or control center to help reinforce the box at the point of entry.
- Furnished with tray connection hardware.
- (‡) Insert tray width
- (*) Insert **ZN** or **G**



Tray Series	Catalog No.
148	9(*)-8074-(‡)
156	9(*)-8074-(‡)
166	9(*)-8075-(‡)
176	9(*)-8076-(‡)

Blind End

- This plate forms a closure for a dead end cable tray.
- Furnished as one plate with hardware.
- (‡) Insert tray width
- (*) Insert **P** or **G**



Tray	
Series	Catalog No.
148	9(*)-8084-(‡)
156	9(*)-8084-(‡)
166	9(*)-8085-(‡)
176	9(*)-8086-(‡)

Tray Hardware

Pre-Galvanized Tray Hardware

Catalog No. RNCB ³/8"-16 x ³/4" Znplt Ribbed Neck Carriage Bolt ASTM A307 Grade A

Catalog No. • SFHN ³/8"-16 Znplt

Serrated Flange Hex Nut ASTM A563 Grade A

Finish: Zinc Plated ASTM B633, SC1



Hot Dip Galvanized Tray Hardware

Catalog No. • RNCB 3/8"-16 x 3/4" CZ Ribbed Neck Carriage Bolt Chromium Zinc ASTM F-1136-88

Catalog No. • SFHN 3/8"-16 CZ Serrated Flange Hex Nut Chromium Zinc ASTM F-1136-88

Green = Fastest shipped items

Black = Normal lead-time items

Red = Normally long lead-time items

Conduit to Tray Adaptor

- For easy attachment of conduit terminating at a cable tray.
- Use on aluminum or steel cable trays.

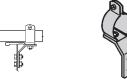




Cond	uit Size	
in.	(mm)	Catalog No.
1/2, 3/4	(15, 20)	9G-1159- ¹ /2, ³ /4
1, 1 ¹ / ₄	(25, 32)	9G-1159-1, 1 ¹ / ₄
$1^{1}/2$, 2	(40, 50)	9G-1159-1 ¹ /2, 2
$2^{1}/_{2}$, 3	(65, 80)	9G-1159-2 ¹ / ₂ , 3
3 ¹ /2, 4	(90, 100)	9G-1159-3 ¹ / ₂ , 4

Conduit to Tray Adaptor

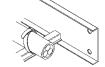
- Assembly required.
- Mounting hardware included.
- Conduit clamp included
- (‡) = Conduit size ($^{1}/_{2}$ " thru 4").



Catalog No. 9ZN-1150-(‡)

Cable Tie (Ladder Tray)

 Nylon ties provide easy attachment of cable to ladder rungs; maximum cable O.D. of 3" (76 mm).

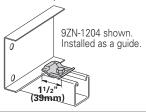




Catalog No. 99-2125-15

Cable Tray Clamp/Guide

- Features a no-twist design.
- Has four times the strength of the traditional design.
- Each side is labeled to ensure proper installation.
- Furnished in pairs, with or without hardware.





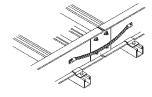
Patent # RE35479

Cata	alog No.	Overall Length		Hardware Size	
Without Hardware	With Hardware				Finish
9ZN-1204	9ZN-1204NB	1 ¹ /2	38	1/4"	G90
9ZN-1208	9ZN-1208NB	21/4	57	3/8"	G90

Bonding Jumper

Use at each expansion splice and where the cable tray is not mechanically/electrically continuous to ground. Sold individually.

- Hardware included.
- See table 392.7(B)(2) on page C-9 for amperage ratings required to match the UL cross-sectional area of the tray.
- 600 amp rating.
- Bonding jumper is 141/2" (368mm) long.



Catalog No.	Copper Wire Size
• 99-N1	#1

Grounding Clamp

Eaton's B-Line series cable tray is UL® classified as to its suitability as an equipment grounding conductor. If a separate conductor for additional grounding capability is desired, we offer this clamp for bolting the conductor at least once to each tray section.

Tin plated Aluminum clamp accepts #6 AWG to 250 MCM.

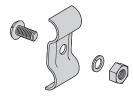




Catalog No. 9A-2130

Ground Wire Clamp

- Mechanically attaches grounding cables to cable tray.
- Hardware included.
- (*) Insert ZN or SS4



Catalog No.	Cable Size
9(*)-2351	#1 thru 2/0
9(*)-2352	3/0 thru 250 MCM

Green = Fastest shipped items

Black = Normal lead-time items



Red = Normally long lead-time items

Threaded Rod (ATR) & Rod Coupling

- Loading based on safety factor 5.
- Standard Finish: Zinc plated



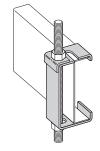


Size	Loading lbs. (kN)	Threaded Rod Catalog No.	Available Lengths in. (mm)	Coupling Cat. No.
³ /8-16	730 (3.25)	● ATR ³ /8 x Length	36, 72, 120, 144 (914, 1829, 3048, 3657)	● B655- ³ /8
1/2-13	1350 (6.00)	● ATR ³ /8 x Length	36, 72, 120, 144 (914, 1829, 3048, 3657)	● B655- ¹ / ₂

See B-Line series Strut Systems Catalog for other sizes and finishes.

Hanger Rod Clamp

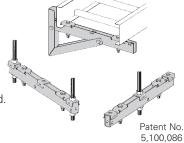
- For 1/2" ATR.
- Furnished in pairs.
- Order ATR and hex nuts separately.
- Two piece "J"-hanger design.
- 9ZN-1113 has 275 lbs./pair safety factor 3.
- 9ZN-532(X) has 1500 lbs./pair safety factor 3.



Tray Series	Catalog No.
148	9ZN-1113
156	9ZN-5324
166	9ZN-5325
176	9ZN-5326

Support Bracket

- Designed for center hung or trapeze supports.
- Used with ladder or vented bottom tray only.
- Can be purchased as a wall mounted bracket.
- Load capacity is 600 lbs. (272.1 kg), safety factor 3.
- All components are zinc plated.
- 1/2" threaded rod and 1/2" hex nuts not included.



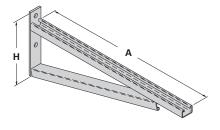
Cata	For		
Center Hung or Trapeze	Wall Mount	W in.	e Tray idth (mm)
9ZN-5106	●9ZN-5106-WB	6	(152)
9ZN-5109	●9ZN-5109-WB	9	(226)
9ZN-5112	●9ZN-5112-WB	12	(305)
9ZN-5118	●9ZN-5118-WB	18	(452)
9ZN-5124	●9ZN-5124-WB	24	(609)

Cantilever Bracket (12" - 42")

• Finishes available:



• Safety Load Factor 2.5



Bottom brace is B42 channel on B494-24 and smaller and B22 channel on B494-30 and larger

Catalog	Uniform Load	Tray Width	'A'	'H'
No.	lbs (kN)	in. (mm)	in. (mm)	in. (mm)
● B494-12	2500 (11.12)	6 & 9 (152 & 229)	12 (305)	83/4 (222)
● B494-18	1700 (7.56)	12 (305)	18 (457)	8 ³ /4 (222)
● B494-24	1300 (5.78)	18 (457)	24 (610)	8 ³ /4 (222)
B494-30	1600 (7.11)	24 (610)	30 (762)	11 ¹ /4 (286)
B494-36	1100 (4.89)	30 (762)	36 (914)	11 ¹ /4 (286)
B494-42	980 (4.36)	36 (914)	42 (1067)	16 (406)

For more dimensional data see Strut Systems catalog

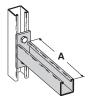
● Green = Fastest shipped items ● Black = Normal lead-time items ● Red = Normally long lead-time items

Cantilever Bracket

• Finishes available:



• Safety Load Factor 2.5



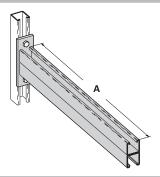
Catalog No.	Uniform Load		Tray Width		'A'	
	lbs	(kN)	in. (mm)		in.	(mm)
B409-12	960	(4.27)	6 & 9	(152 & 229)	12	(304.8)
B409-18	640	(2.84)	12	(305)	18	(457.2)
B409-24	480	(2.13)	18	(457)	24	(609.6)

Cantilever Bracket

• Finishes available:

ZN GRN HDG or SS4

Safety Load Factor 2.5

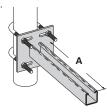


Catalog No.	Uniform Load		Tray Width		'A'	
	lbs	(kN)	in.	(mm)	in.	(mm)
B297-30	665	(2.95)	24	(609.6)	30	(762.0)
B297-36	550	(2.44)	30	(762.0)	36	(914.4)
B297-42	465	(2.06)	36	(914.4)	42	(1066.8)

Underfloor Support (U-Bolts not included)

- Finishes available: ZN
- Safety Load Factor 2.5
- Order properly sized U-Bolts separately.

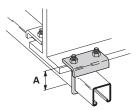
U-Bolt Size	Fits Pipe O.D.
B501-3/4	.841 - 1.050
B501-1	1.051 - 1.315
B501-11/4	1.316 - 1.660
B501-11/2	1.661 - 1.900
B501-2	1.901 - 2.375
B501-21/2	2.376 - 2.875



Catalog No.	Uniform Load		Tray Width		'A'	
	lbs	(kN)	in.	(mm)	in.	(mm)
B409UF-12	800	(3.55)	6 & 9	(152 & 229)	12	(304.8)
B409UF-21	450	(2.00)	12 & 18	3 (305 & 457)	21	(533.4)

Beam Clamp

- Finishes available: ZN or HDG
- Sold in pieces with hardware.
- Design load when used in pairs. Safety Load Factor 5.0



Catalog No.	Design	Load*	',	A'
	lbs	(kN)	in.	(mm)
B441-22	1200	(5.34)	33/8	(86)
B441-22A	1200	(5.34)	5	(127)

Steel C-Clamp With Locknut

• Finishes available:

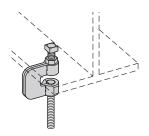
ZN for 3/8 & 1/2

ZN for 5/8 & 3/4

SS4 all sizes

• Safety Load Factor 5.0





Catalog	Rod	Design Load		
Number	Size	lbs	(kN)	
B351L-3/8	³ /8"-16	300	(0.89)	
B351L-1/2	¹ /2"-13	380	(1.69)	
B351L- ⁵ /8	⁵ /8"-11	550	(2.44)	
B351L-3/4	3/4"-10	630	(2.80)	

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

Beam Clamp

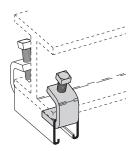
- Finishes available: ZN GRN or HDG
- Setscrew included.
- Sold in pieces.
- Design load when used in pairs. Safety Load Factor 5.0



Cat. No.	В	210	B210A		
Design Load	800 lbs	. (3.56kN)	300 lbs. (1.33kN)		
Tap Size	1/2"-13		3/8	"-16	
Mat'l. Thickness	3/8"	(9.5mm)	1/4"	(6.4mm)	

Beam Clamp

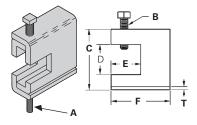
- Finishes available: ZN GRN or HDG
- Setscrew included.
- Sold in pieces.
- Design load when used in pairs. Safety Load Factor 5.0



Cat. No.	B2	12- ¹ /4	B212- ³ /8		
Design Load	800 lbs. (3.56kN)		1000 lbs	s. (4.45kN)	
Max. Flange Thick.	3/4"	(19.0mm)	1 ¹ /8"	(28.6mm	
Mat'l. Thickness	1/4"	(6.4mm)	3/8"	(9.5mm)	

B305 Thru B308 & B321 Series Beam Clamps

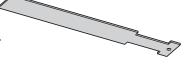
- Finishes available: ZN or HDG
- Setscrew included.
- Safety Load Factor 5.0



Cat.	Α	В	C	D	E	F	T	Design Load
No.			in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	lbs (kN)
B305	3/8"-16	3/8"-16	2 ⁵ /16 (58.7)	7/8 (22.2)	11/8 (28.6)	21/2 (63.5)	11 Ga. (3.0)	600 (2.67)
B306	3/8"-16	1/2"-13	2 ⁷ /16 (61.9)	7/8 (22.2)	11/8 (28.6)	21/2 (63.5)	7 Ga. (4.5)	1100 (4.90)
B307	1/2"-13	1/2"-13	2 ⁷ /16 (61.9)	7/8 (22.2)	11/8 (28.6)	21/2 (63.5)	7 Ga. (4.5)	1100 (4.90)
B308	1/2"-13	1/2"-13	2 ⁹ /16 (65.1)	7/8 (22.2)	11/8 (28.6)	21/2 (63.5)	1/4 (6.3)	1500 (6.68)
B321-1	3/8"-16	1/2"-13	3 ⁹ /16 (90.5)	111/16 (42.8)	1 ⁵ /8 (41.3)	31/4 (82.5)	1/4 (6.3)	1300 (5.79)
B321-2	1/2"-13	¹ /2"-13	3 ⁹ /16 (90.5)	1 ¹¹ /16 (42.8)	1 ⁵ /8 (41.3)	31/4 (82.5)	1/4 (6.3)	1400 (6.23)

B312 Anchor Strap

- Finishes available: ZN or HDG
- For a maximum beam thickness of 3/4".
- For thicker beams, step up one flange width size.

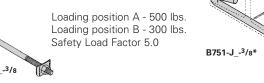


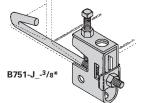
Cat. No.	Flange Width in. (mm)			
B312-6	Up to 6 (up to 152.4)			
B312-9	6 - 9 (152.4 to 228.6)			
B312-12	9 - 12 (228.6 to 304.8)			

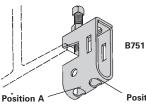
B751 Bottom Beam Clamp and Accessories

- Setscrew included.
- Finish available: ZN







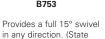


Position B

Eaton



the desired rod size.)





B752

Assembly No. B751 B701J **B752** B753 Fits Flange Sizes Clamp.Setscrew J-Hook, Clip Swivel & Bolt **Swivel Nut** (mm) & J-Hook & Square Nut Only in. Only 4 - 57/8 (101 - 149) ● B751-J4-3/8* B701-J4-3/8 ● B752 B753-** 6 - 8⁷/8 ● B751-J6-3/8* ● B701-J6-3/8 B752 B753-** (152 - 225)● B751-J9-3/8* ● B701-J9-3/8 ● B752 B753-** 9 - 117/8 (228 - 301)



^{**} Insert 1/4, 3/8 or 1/2 for the desired rod size.

Green = Fastest shipped items

Black = Normal lead-time items

Red = Normally long lead-time items

Trapeze Support Kit

Trapeze kits provide the components required for a single trapeze support in one package. These kits are available in pre-galvanized steel with zinc-plated hardware or hot dip galvanized steel with 316 stainless steel hardware.

The SH channel provides the convenience of pre-punched slots, which eliminate the need for field drilling.

The illustrated hardware is sealed in a plastic bag and boxed with the channel, which is pre-cut to the appropriate length as shown in the chart.

Designed for use with 1/2"	threaded rod	(2) 9ZN-1205	9(*)-5530
(order separately)	amoudou rou.	Hold-Down Guide Clamp	9(*)-5536
(0.00. 00)0.00.,,	(2) 1/2" x 7/8" Hex		9(*)-5542
	Head Cap Screw	(2) N525WO	• (*) Insert
		Channel Nut	• (†) Insert ³ Safety facto
			(1) B22 Channel cut to the required length
	(4) 1/2" Hex N	lut	— (4) B202 Square Washer

Catalog No.	Tray Width in. (mm)		Channel Length in. (mm)		Uniform Load _{Ibs} (kN)	
9(*)-5506-22SH(†)	6	(152)	16	(406)	1600	(7.11)
9(*)-5509-22SH(†)	9	(229)	18	(457)	1250	(5.56)
• 9(*)-5512-22SH(†)	12	(305)	22	(559)	1125	(5.00)
• 9(*)-5518-22SH(†)	18	(457)	28	(711)	865	(3.85)
• 9(*)-5524-22SH(†)	24	(610)	34	(864)	700	(3.11)
• 9(*)-5530-22SH(†)	30	(762)	40	(1016)	590	(2.62)
9(*)-5536-22SH (†)	36	(914)	46	(1168)	510	(2.27)
• 9(*)-5542-22SH(†)	42	(1067)	52	(1321)	450	(2.00)

- nsert (2) or (6)
- nsert 3/8 for 3/8" threaded rod hardware. y factor of 3.0 on all loads.

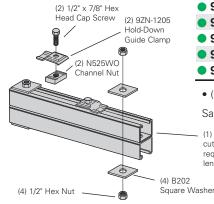
Heavy Duty Trapeze Support Kit

Trapeze kits provide the components required for a single trapeze support in one package. These kits are available in Dura Green[™] epoxy coated steel with zinc-plated hardware or hot dip galvanized steel with 316 stainless steel hardware.

The SH channel provides the convenience of pre-punched slots, which eliminates the need for field drilling.

The illustrated hardware is sealed in a plastic bag and boxed with the channel, which is pre-cut to the appropriate length as shown in the chart.

Designed for use with 1/2" threaded rod. (order rod separately)



Catalog No.		ray idth (mm)		nnel ngth (mm)		form oad (kN)
9(*)-5506-22SHA	6	(152)	16	(406)	1350	(6.01)
9(*)-5509-22SHA	9	(229)	18	(457)	1350	(6.01)
9(*)-5512-22SHA	12	(305)	22	(559)	1350	(6.01)
9(*)-5518-22SHA	18	(457)	28	(711)	1350	(6.01)
9(*)-5524-22SHA	24	(610)	34	(864)	1350	(6.01)
9(*)-5530-22SHA	30	(762)	40	(1016)	1350	(6.01)
9(*)-5536-22SHA	36	(914)	46	(1168)	1350	(6.01)
• 9(*)-5542-22SHA	42	(1067)	52	(1321)	1350	(6.01)

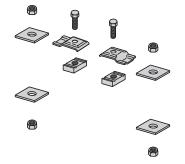
• (*) Insert G or GRN

Safety factor of 3.0 on all loads.

(1) Channel cut to the required

Trapeze Hardware Kit

• Kit sold in plastic bag.



Catalog No.				
• 9ZN-5500- ¹ / ₂	• 9G-5500- ¹ / ₂			
(1) pr. 9ZN-1205	(1) pr. 9G-1205			
(2) HHC Screw $^{1}/^{1}2 \times ^{7}/8^{1}$ ZN	(2) HHC Screw ¹ /2" x ⁷ /8" SS6			
(2) N525 WO ZN	(2) N525 WO SS6			
(4) B202 ZN $^{1}/_{2}$ " sq washer	(4) B202 HDG ¹ /2" sq washer			
(4) HN ¹ /2" ZN	(4) HN ¹ /2" SS6			

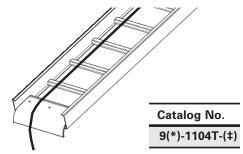
● Green = Fastest shipped items
● Black = Normal lead-time items
● Red = Normally long lead-time items

Ladder Drop-Out

• This special designed, easy to install drop-out provides a 4" (101.6 mm) radius to protect cables exiting the cable tray from damage.

- Attaches to a ladder rung.
- Hardware included.
- (*) Insert (P) or (G)
- (‡) Insert tray width



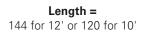


Straight Section

- Standard length: 120" (3 m) 144" (12 ft.).
- Order catalog number based on loading depth.
- Furnished with four #10 x ¹/2" plated self-drilling screws and a 99-9982 splice.





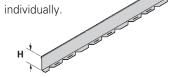


Tray		Н
Series	Catalog No.	in. (mm)
148	72(*)-Length	2.8 (58)
156	737(*)-Length	3.4 (70)
166	747(*)-Length	4.4 (91)
176	757(*)-Length	5.4 (112)

Horizontal Bend

- Horizontal Bend Barriers are flexible in order to conform to any horizontal fitting radius. Cut to length.
- Order catalog number based on loading depth.
- Furnished with three #10 \times $^{1}/^{2}$ zinc plated self-drilling screws and a 99-9982 Barrier Strip Splice.
- Standard length is 72" [6 ft.] (1829mm), sold individually.

• (*) Insert (P) or (G)

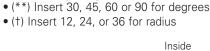


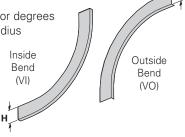
Tray		Н
Series	Catalog No.	in. (mm)
148	72(*)-90HBFL	2.8 (58)
156	737(*)-90HBFL	3.4 (70)
166	747(*)-90HBFL	4.4 (91)
176	757(*)-90HBFL	5.4 (112)

Vertical Bend Barriers

• Vertical Bend Barriers are preformed to conform to a specific vertical fitting.



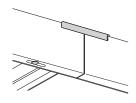




	Tray	Catalog No.			Н		
Series		Inside Bend	Outside Bend	in.	(mm)		
	148	72(*)-(**)VI(†)	72(*)-(**)VO(†)	2.8	(58)		
	156	737(*)-(**)VI(†)	737(*)-(**)VO(†)	3.4	(70)		
	166	747(*)-(**)VI(†)	747(*)-(**)VO(†)	4.4	(91)		
	176	757(*)-(**)VI(†)	757(*)-(**)VO(†)	5.4	(112)		

Barrier Strip Splice

- Plastic splice holds adjoining barrier strips in straight alignment.
- 3" (76.2mm) long





Catalog No. 99-9982

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