

# TUBETRACK®

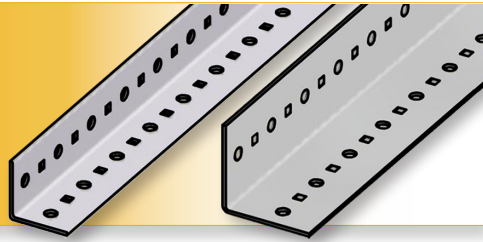
James C. White Company, Inc. • Greenville, SC

## PRODUCT CATALOG

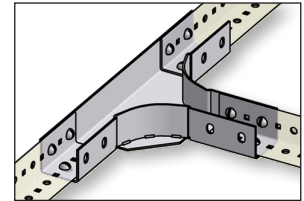
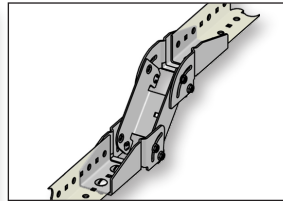
Continuous Tray Support System  
for Instrumentation and Controls

PAGE  
**3**

### ANGLE TRAY



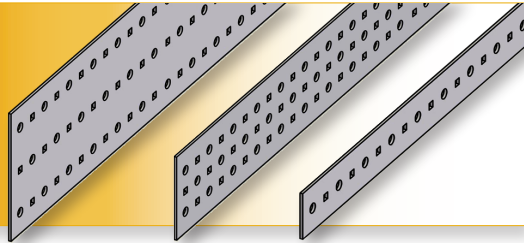
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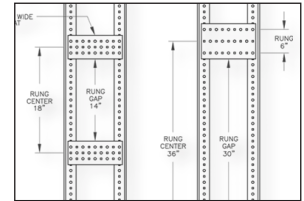
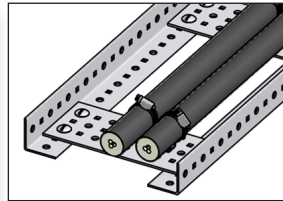
Easy to install, flexible TUBETRACK® Angle Tray system for tubing and bundles.

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### FLAT



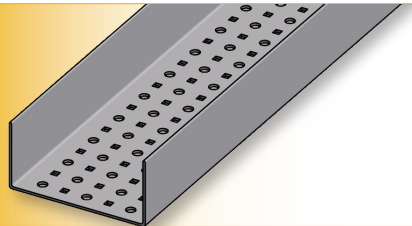
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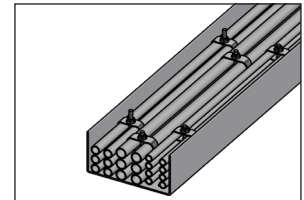
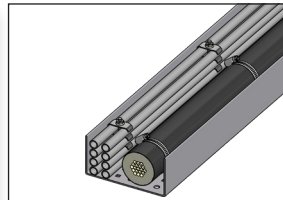
Flexible support option for a variety of uses, including light ladder

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**11**

### CHANNEL TRAY 3" DEEP



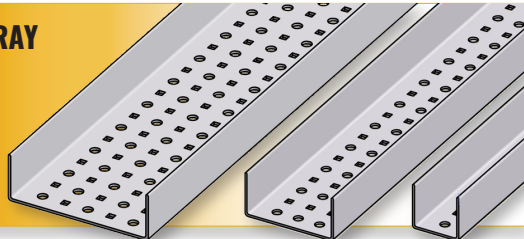
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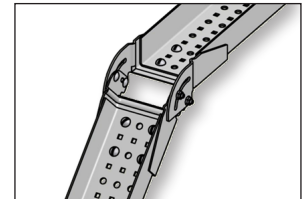
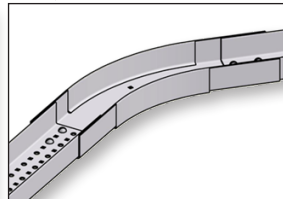
NEW TUBETRACK® 3" deep Channel Tray system for control tubing, cable, and bundles.

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### CHANNEL TRAY 2" DEEP



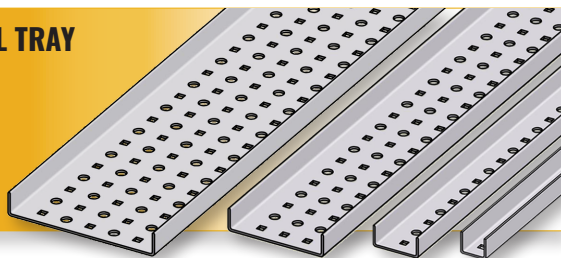
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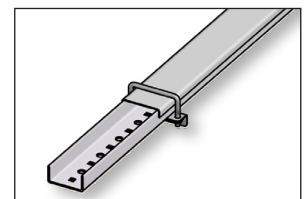
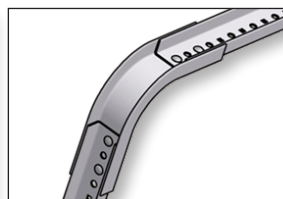
TUBETRACK® 2" deep Channel Tray system for control tubing, cable, and bundles.

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### CHANNEL TRAY 1" DEEP



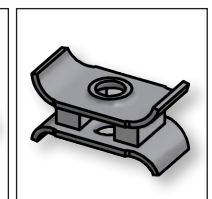
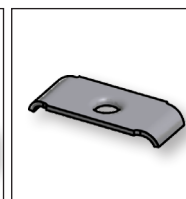
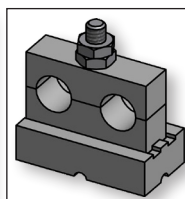
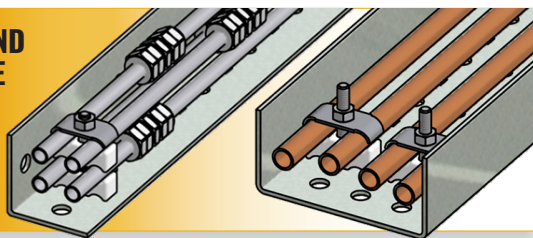
Widths: 1", 2", 4", 6"



TUBETRACK® 1" deep Channel Tray system with tight radius bends.

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**36**

### CLAMPS AND HARDWARE



Reliable support for tubes, cables, bundles, hoses, and pipe for all TUBETRACK® tray systems.

► **About James C. White Company, Inc.**

We began as a partnership in 1952 as a distributor of tube fittings and valves. Two years later Jim and Bettye White took the Company to a new level and began manufacturing TUBETRACK®, Jim White's design of the first use of a Tray Support System for instrumentation tubing. The TUBETRACK® Tray System was the first industrial category of Instrument Support Tray.

To this day we have maintained the culture of quality and attention to detail that Jim and Bettye White so deeply ingrained in our personnel. Jim White was well known for many "famous" mottoes he used to guide the company and which he passed on to the

**"Good business is business that is good for both parties."**

current generation of company leadership. One of those mottoes that still directs the company today is:

Under the direction of Tom White, owner and president, we have made significant advances in new product design and manufacturing improvements since 2005. James C. White Co. is a growing, innovative manufacturing company with complete fabrication and machining capabilities. Although a small business, we have served some of the world's largest EPC firms and supplied materials on time to some of the largest industrial projects in the world.

We welcome opportunities to partner with you to solve your special instrumentation support needs. Over the years we have custom machined or fabricated numerous custom products which are not catalog-standard items. If you don't find what you need in our catalogs, please contact the factory. There is a good possibility we may already have a solution or can partner with you to provide one.

Thank you for your continued interest in the James C. White Company.




► **Quality Assurance Program**

- Maintained and advanced for over 60 years
- Designed to conform to applicable requirements of: 10CFR50 Appendix B, ASME NQA-1, ASME Boiler and Pressure Vessel Code Section III, Subarticle NCA-3800, CSA N299.2
- Controls customer order processing, materials and services procurement, manufacturing, inspection, and shipping activities as applicable to customer order requirements.
- Audited by members of NUPIC, various utilities, and ASME Certified Material Organizations
- TUBETRACK® and CABLE-RACE® tray systems are in use at all operating USA nuclear power plants, as well as international plants and various nuclear labs and facilities.

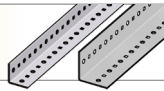
**Safety-Related Products**



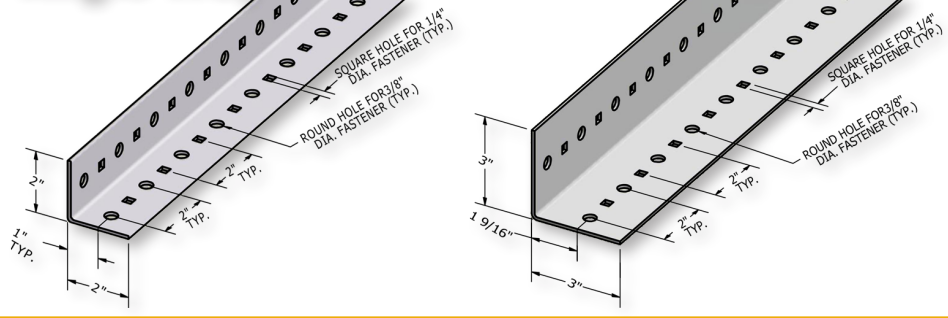
Throughout our TUBETRACK® and CABLE-RACE® catalogs, Hot-Dip Galvanized and Stainless Steel materials marked with a  symbol can be supplied as Safety-Related for use in nuclear facilities, in accordance with 10CFR50 Appendix B, ASME NQA-1, ASME B&PV Code, Section III NCA-3800 and/or CSA N299.2.

Contact our Nuclear Sales Department regarding availability, load rating, material and part specifications, or to inquire about the possibility of procuring other materials as Safety-Related.

**nuclearsales@jcwco.com**



# 2" and 3" Angle Tray



### Angle

TUBETRACK® standard angle tray sections are available in 4 corrosion-resistant metals. TUBETRACK® components are factory inspected for quality of fabrication detail, finish, straightness, and appearance.

Angle tray details are shown for standard size, part numbers, materials, widths, lengths, and gages. **Other non-standard gages are available for 304SS and 316SS angle tray but are generally not available from factory stock.** See page 50 for Load and Deflection information.

NOTE: TUBETRACK® Angle Tray is not UL Classified.

Metal	Width	Angle Tray Part No.*	Angle Gage	Angle Length
Hot-Dip Galvanized Steel	2	A2HD2-GC2	12	20'
	3*	A3HD3-GC2		
Natural Finish Aluminum	2	A2HD2-NA2	12	20'
	3	A3HD3-NA2		
Stainless Steel T-304	2	A2HD2-SS2T4-144	14	12'
	3*	A3HD3-SS2T4-144		
Stainless Steel T-316	2	A2HD2-SS2T6-144	14	12'
	3	A3HD3-SS2T6-144		

Non-Standard Gages:

Stainless Steel T-304	2	A2H2SS2T4-144-2	12	12'
Stainless Steel T-316	2	A2H2SS2T6-144-2	12	12'

\* 3" deep Angle Tray is a new product - may not be immediately available from stock. Contact factory.



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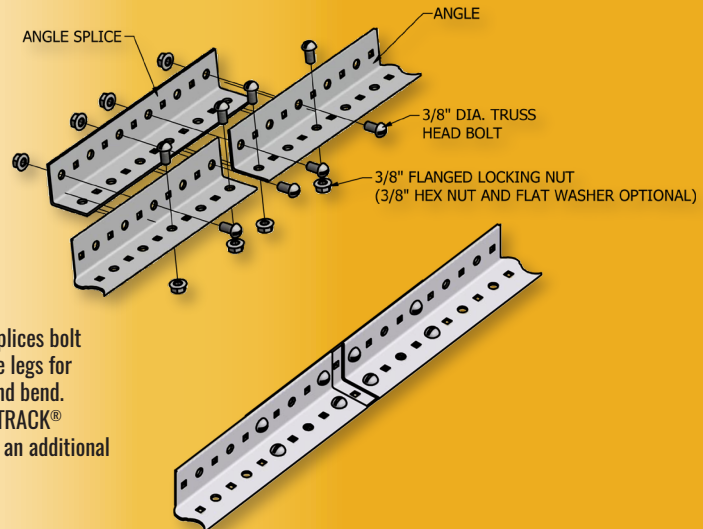
Structural connections for 2" and 3" TUBETRACK® angle tray splices and bends are provided with 3/8" dia. bolt sets (truss head bolts with flanged locking nuts). Truss head bolts with hex nuts and flat washers are optional upon request. Bolt sets are supplied with all TUBETRACK® splices and bends.

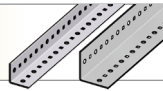
Standard fastener metals include:

- Zinc-plated bolts with galvanized fittings
- 18-8 stainless bolts with aluminum fittings
- 18-8 stainless bolts with 304 SS fittings
- 316 stainless bolts with 316 SS fittings

### Bolted Connections

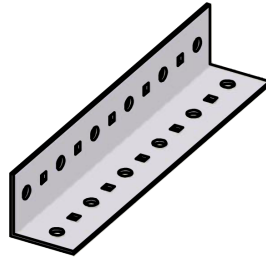
TUBETRACK® uses only tightenable fasteners to secure tray connections. Splices bolt through the first and third round holes in each end of a splice, in both angle legs for maximum strength. Bolt sets are supplied with each TUBETRACK® splice and bend. Stainless steel bolting is standard with stainless steel and aluminum TUBETRACK® fittings. Stainless steel bolting is optional with galvanized TUBETRACK® for an additional cost. Contact factory for additional information.





## Straight Connections

### Angle Splice



Includes 3/8" dia. bolting

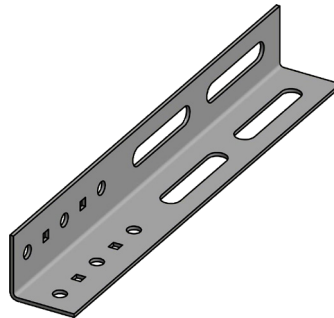
Metal	Width	Part No.*
Hot-Dip Galvanized Steel	2	SA2-GC2
	3*	SA3-GC3
Natural Finish Aluminum	2	SA2-NA2
	3	SA3-NA3
Stainless Steel T-304	2	SA2-SS2T4
	3*	SA3-SS3T4
Stainless Steel T-316	2	SA2-SS2T6
	3*	SA3-SS3T6

**A: 11.5"**  
**Nominal Engagement: 5.5"**

\* 3" deep Angle Tray is a new product - may not be available from stock. Contact factory.



### Expansion Angle Splice



Includes 3/8" dia. bolting

Metal	Width	Part No.*
Hot-Dip Galvanized Steel	2	SA2-GC2-X
	3*	SA3-GC3-X
Natural Finish Aluminum	2	SA2-NA2-X
	3*	SA3-NA3-X
Stainless Steel T-304	2	SA2-SS2T4-X
	3*	SA3-SS3T4-X
Stainless Steel T-316	2	SA2-SS2T6-X
	3*	SA3-SS3T6-X

**A: 14.4"**  
**Nominal Engagement: 5.5"**

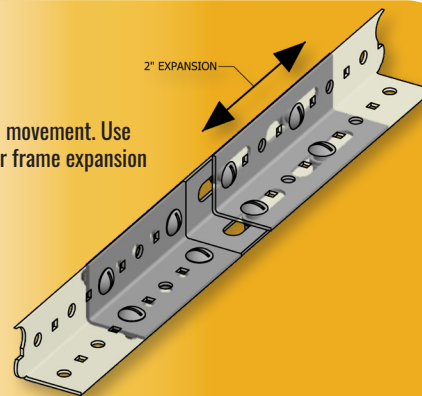
\* 3" deep Angle Tray is a new product - may not be available from stock. Contact factory.



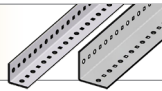
### Expansion Splice Angle

Allows for longitudinal expansion of up to 2" total movement. Use for thermal expansion, vibration, and at building or frame expansion joints.

Includes 3/8" dia. bolt sets (truss head bolts with flanged locking nuts).

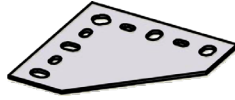
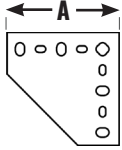






## 3" Radius Fittings

### Elbow Inside Angle - 90° Flat Plate 0-3" Radius

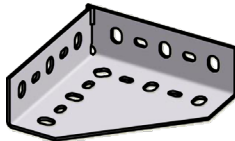
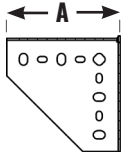


Includes 3/8" dia. bolting

Metal	Part No.
Hot-Dip Galvanized Steel	EIA2-GC-R3D90
Natural Finish Aluminum	EIA2-NA-R3D90
Stainless Steel T-304	EIA2-SS-R3D90T4
Stainless Steel T-316	EIA2-SS-R3D90T6

**A: 5.5"**  
**Nominal Engagement: 3.5"**  


### Elbow Inside Angle - 90° With Flange 0-3" Radius

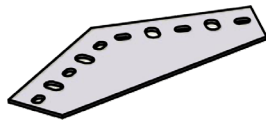
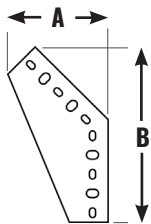


Includes 3/8" dia. bolting

Metal	Part No.
Hot-Dip Galvanized Steel	EIAH2-GC2-R3D90
Natural Finish Aluminum	EIAH2-NA2-R3D90
Stainless Steel T-304	EIAH2 SS2 R3D90T4
Stainless Steel T-316	EIAH2 SS2 R3D90T6

**A: 6.0"**  
**Nominal Engagement: 3.5"**

### Elbow Inside Angle - 45° Flat Plate 0-3" Radius

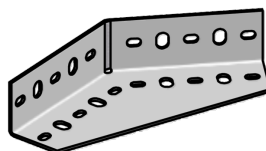
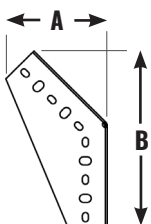


Includes 3/8" dia. bolting

Metal	Part No.
Hot-Dip Galvanized Steel	EIA2-GC-R3D45
Natural Finish Aluminum	EIA2-NA-R3D45
Stainless Steel T-304	EIA2-SS-R3D45T4
Stainless Steel T-316	EIA2-SS-R3D45T6

**A: 5.25"**      **B: 9.0"**  
**Nominal Engagement: 4.5"**  

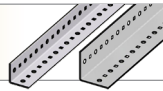

### Elbow Inside Angle - 45° With Flange 0-3" Radius



Includes 3/8" dia. bolting

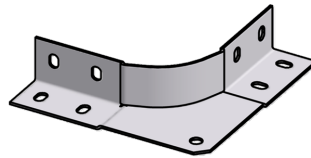
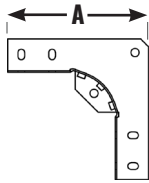
Metal	Part No.
Hot-Dip Galvanized Steel	EIAH2-GC2-R3D45
Natural Finish Aluminum	EIAH2-NA2-R3D45
Stainless Steel T-304	EIAH2 SS2 R3D45T4
Stainless Steel T-316	EIAH2 SS2 R3D45T6

**A: 5.25"**      **B: 9.25"**  
**Nominal Engagement: 4.5"**



### 3" Radius Fittings

#### Elbow Outside Angle - 90° 3" Radius

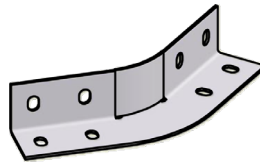
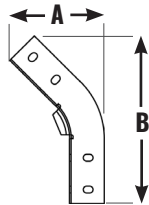


Includes 3/8" dia. bolting

Metal	Part No.
Hot-Dip Galvanized Steel	EOA2-GC2-R3D90
Natural Finish Aluminum	EOA2-NA2-R3D90
Stainless Steel T-304	EOA2-SS2 R3D90T4
Stainless Steel T-316	EOA2-SS2 R3D90T6

**A: 9.25"**  
**Nominal Engagement: 3.5"**

#### Elbow Outside Angle - 45° 3" Radius

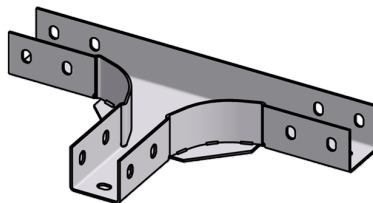
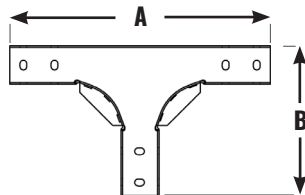


Includes 3/8" dia. bolting

Metal	Part No.
Hot-Dip Galvanized Steel	EOA2-GC2-R3D45
Natural Finish Aluminum	EOA2-NA2-R3D45
Stainless Steel T-304	EOA2-SS2 R3D45T4
Stainless Steel T-316	EOA2-SS2 R3D45T6

**A: 6.25"**      **B: 10.75"**  
**Nominal Engagement: 3.5"**

#### Tee Angle 3" Radius

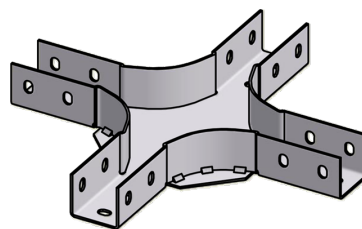
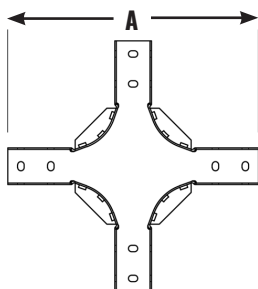


Includes 3/8" dia. bolting

Metal	Part No.
Hot-Dip Galvanized Steel	TA2-GC2-R3D90
Natural Finish Aluminum	TA2-NA2-R3D90
Stainless Steel T-304	TA2-SS2-R3D90T4
Stainless Steel T-316	TA2-SS2-R3D90T6

**A: 16.75"**      **B: 10"**  
**Nominal Engagement: 3.5"**

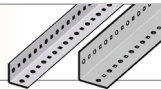
#### Cross Angle 3" Radius



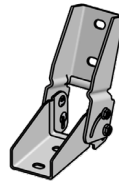
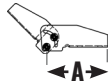
Includes 3/8" dia. bolting

Metal	Part No.
Hot-Dip Galvanized Steel	KA2-GC2-R3D90
Natural Finish Aluminum	KA2-NA2-R3D90
Stainless Steel T-304	KA2-SS2-R3D90T4
Stainless Steel T-316	KA2-SS2-R3D90T6

**A: 16.75"**  
**Nominal Engagement: 3.5"**



**Inside Channel Vertical Adjustable Bend (0-90°)**  
**Patent No.: US 8,167,250 B2**

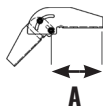


Includes 3/8" dia. bolting (same part shown on page 20). Cut angles so that round holes are on the connecting end.

Metal	Part No.
Hot-Dip Galvanized Steel	ICV2-GC2-DA
Natural Finish Aluminum	ICV2-NA2-DA
Stainless Steel T-304	ICV2-SS2-DAT4
Stainless Steel T-316	ICV2-SS2-DAT6

**A: 6.0"**  
**Nominal Engagement: 3.5"**

**Outside Channel Vertical Adjustable Bend (0-90°)**  
**Patent No.: US 8,167,250 B2**

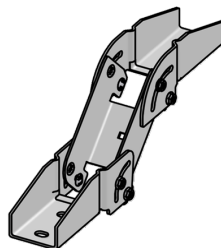
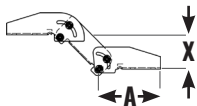


Includes 3/8" dia. bolting (same part shown on page 21). Cut angles so that round holes are on the connecting end.

Metal	Part No.
Hot-Dip Galvanized Steel	OCV2-GC2-DA
Natural Finish Aluminum	OCV2-NA2-DA
Stainless Steel T-304	OCV2-SS2-DAT4
Stainless Steel T-316	OCV2-SS2-DAT6

**A: 5.25"**  
**Nominal Engagement: 3.5"**

**Offset Channel Vertical Double Adjustable Bend**  
**Patent No.: US 8,167,250 B2**

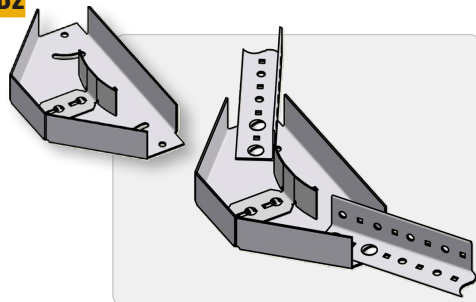
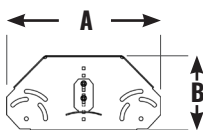


Includes 3/8" dia. bolting (same part shown on page 22). Cut angles so that round holes are on the connecting end.

Metal	Part No.
Hot-Dip Galvanized Steel	OCV2-GC2-DDA5
Natural Finish Aluminum	OCV2-NA2-DDA5
Stainless Steel T-304	OCV2-SS2-DDA5T4
Stainless Steel T-316	OCV2-SS2-DDA5T6

**A: 6.0"**  
**X: Offset at 45° (pictured): 3.25"**  
**Max offset (bends at 90°): 5"**  
**Nominal Engagement: 3.5"**

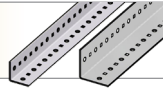
**Horizontal Elbow Adjustable Bend (0-90°)**  
**Patent No.: US 8,573,409 B2**  
**6" Min. Radius**



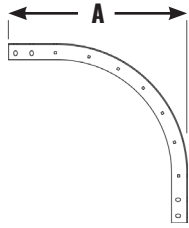
Includes 3/8" dia. bolts and locking nuts

Metal	Part No.
Hot-Dip Galvanized Steel	EC2-GC2-R6DA
Natural Finish Aluminum	EC2-NA2-R6DA
Stainless Steel T-304	EC2-SS2-R6DAT4
Stainless Steel T-316	EC2-SS2-R6DAT6

**A = 13"**      **B = 7" (nominal dim.)**



**Elbow Inside Angle - 90°  
14" Radius**



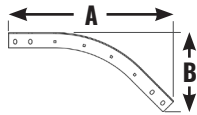
Includes 3/8" dia. bolting



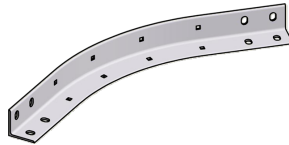
Metal	Part No.
Hot-Dip Galvanized Steel	EIA2-GC2-R14D90
Natural Finish Aluminum	EIA2-NA2-R14D90
Stainless Steel T-304	EIA2 SS2 R14D90T4
Stainless Steel T-316	EIA2 SS2 R14D90T6

**A: 19.75"**  
**Nominal Engagement: 3.5"**

**Elbow Inside Angle - 45°  
14" Radius**



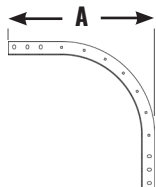
Includes 3/8" dia. bolting



Metal	Part No.
Hot-Dip Galvanized Steel	EIA2-GC2-R14D45
Natural Finish Aluminum	EIA2-NA2-R14D45
Stainless Steel T-304	EIA2 SS2 R14D45T4
Stainless Steel T-316	EIA2 SS2 R14D45T6

**A: 21.5"      B: 10.5"**  
**Nominal Engagement: 3.5"**

**Elbow Outside Angle - 90°  
12" Radius**



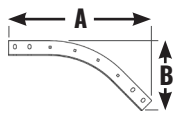
Includes 3/8" dia. bolting



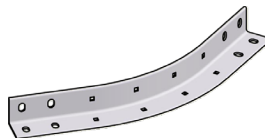
Metal	Part No.
Hot-Dip Galvanized Steel	EOA2-GC2-R12D90
Natural Finish Aluminum	EOA2-NA2-R12D90
Stainless Steel T-304	EOA2 SS2 R12D90T4
Stainless Steel T-316	EOA2 SS2 R12D90T6

**A: 22.0"**  
**Nominal Engagement: 3.5"**

**Elbow Outside Angle - 45°  
12" Radius**



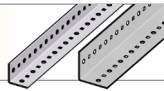
Includes 3/8" dia. bolting



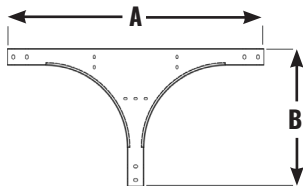
Metal	Part No.
Hot-Dip Galvanized Steel	EOA2-GC2-R12D45
Natural Finish Aluminum	EOA2-NA2-R12D45
Stainless Steel T-304	EOA2 SS2 R12D45T4
Stainless Steel T-316	EOA2 SS2 R12D45T6

**A: 21.5"      B: 10.5"**  
**Nominal Engagement: 3.5"**

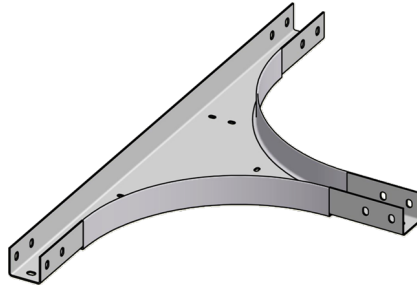




**Tee Angle  
12" Radius**



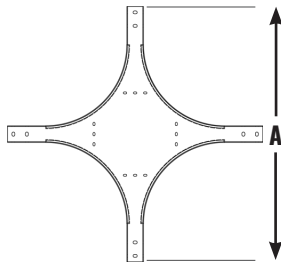
Includes 3/8" dia. bolting



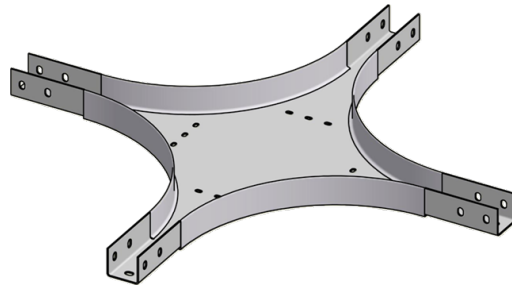
Metal	Part No.
Hot-Dip Galvanized Steel	TA2-GC2-R12D90
Natural Finish Aluminum	TA2-NA2-R12D90
Stainless Steel T-304	TA2-SS2 R12D90T4
Stainless Steel T-316	TA2-SS2 R12D90T6

**A: 37.75"      B: 20.25"**  
**Nominal Engagement: 3.5"**

**Cross Angle  
12" Radius**

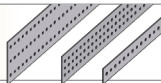


Includes 3/8" dia. bolting

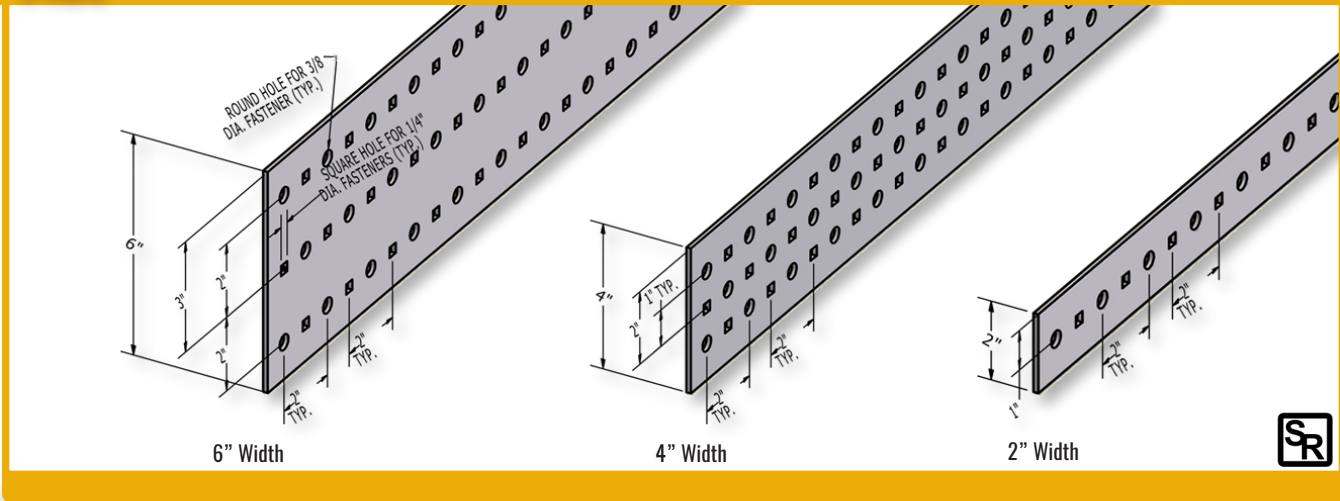


Metal	Part No.
Hot-Dip Galvanized Steel	KA2-GC2-R12D90
Natural Finish Aluminum	KA2-NA2-R12D90
Stainless Steel T-304	KA2-SS2 R12D90T4
Stainless Steel T-316	KA2-SS2 R12D90T6

**A: 37.75"**  
**Nominal Engagement: 3.5"**



# Flat



## Flat

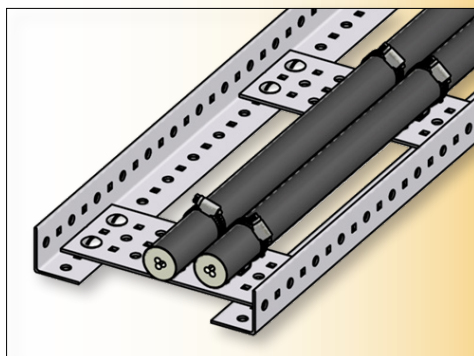
TUBETRACK® standard flat sections are available in 4 corrosion-resistant metals and 3 widths. TUBETRACK® components are factory inspected for quality of fabrication detail, finish, straightness, and appearance. Flat details are shown for standard size, part numbers, materials, widths, lengths, and gages.

NOTE: TUBETRACK® Flats and Angles are not UL classified.

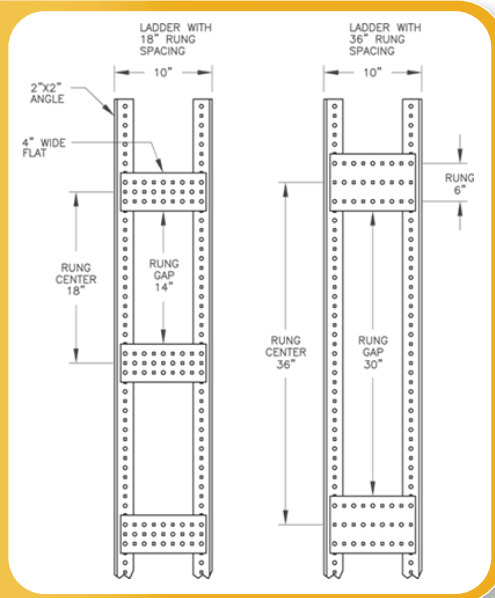
Metal	Width	Flat Part No.	Flat Gage	Flat Length
Hot-Dip Galvanized Steel	2	F2-GC-144	12	12'
	4	F4-GC-144		
	6	F6-GC-144		
Natural Finish Aluminum	2	F2-NA-144	12	12'
	4	F4-NA-144		
	6	F6-NA-144		
Stainless Steel T-304	2	F2-SS-144-T4	16	12'
	4	F4-SS-144-T4		
	6	F6-SS-144-T4		
Stainless Steel T-316	2	F2-SS-144-T6	16	12'
	4	F4-SS-144-T6		
	6	F6-SS-144-T6		



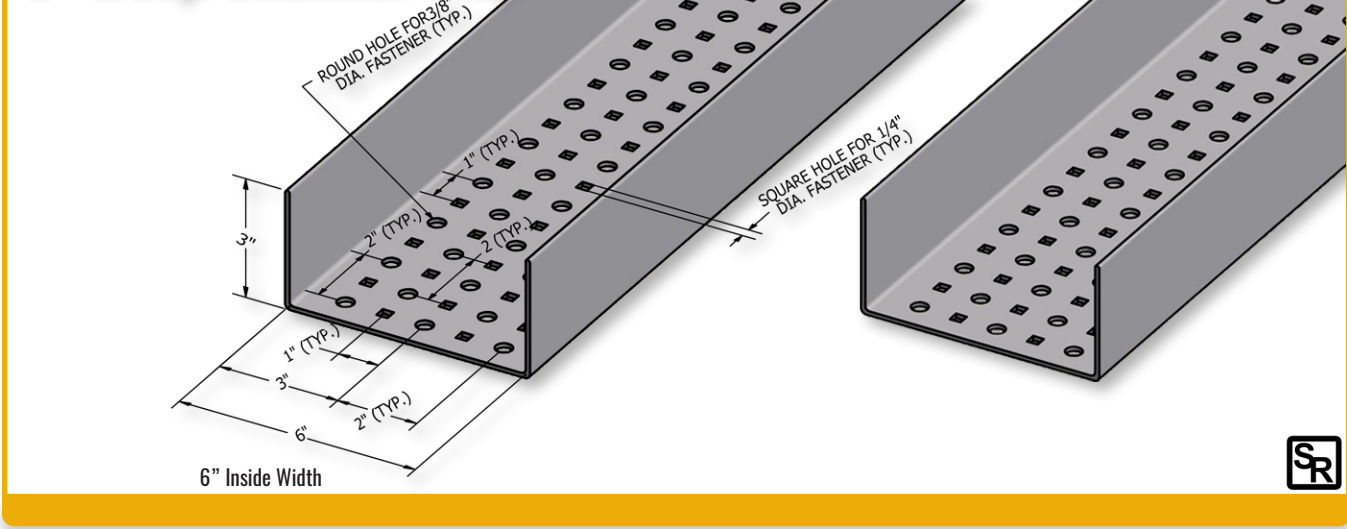
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Use TUBETRACK® 2" or 3" Angle and Flat to field-fabricate light ladder tray. Purchase fasteners separately. See page 3 for TUBETRACK® Angle and page 44 for 3/8" Truss-Head Bolts & Nuts to complete the assembly.



**3" Deep Channel Tray**



**Channels - 3" Deep**

**NEW FROM JCWCO:**  
3" Deep TUBETRACK® standard tray channel sections are available in 4 corrosion-resistant metals and 6" channel width. TUBETRACK® components are factory inspected for quality of fabrication detail, finish, straightness, and appearance.

Channel tray details are shown for standard TUBETRACK® part numbers, materials, widths, lengths, gages, and covers.

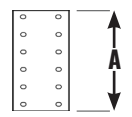
See page 50 for Load and Deflection information.

Metal	Width	Channel Tray Part No.**	Chan. Gage	Chan. Length	Cover Part No. (20 ga.)	Cover Length
Natural Finish Alum.	6	CH6-NA3	12	20'	CV-CH6-NA	10'
Stainless Steel T-304	6**	CH6-SS3T4-144-4	14	12'	CV-CH6-SS4-144	12'
Stainless Steel T-316	6**	CH6-SS3T6-144-4	14	12'	CV-CH6-SS6-144	12'

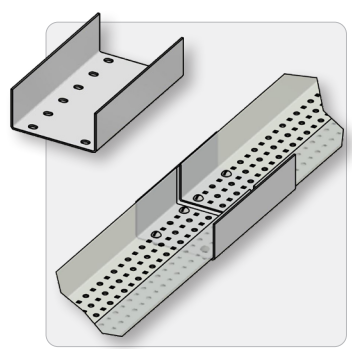
\*\* 3" deep Channel Tray is a new product - may not be available from stock. Contact factory.



**Channel Splice**



Includes 3/8" dia. bolting



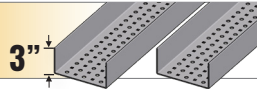
Metal	Width	Part No.**	Cover Part No.
Natural Finish Alum.	6	SC6-NA3	CV-S6NA2
Stainless Steel T-304	6**	SC6-SS3T4-4	CV-S6SS2T4
Stainless Steel T-316	6**	SC6-SS3T6-4	CV-S6SS2T6

**A: 11.50"**  
**Nominal Engagement: 5.5"**

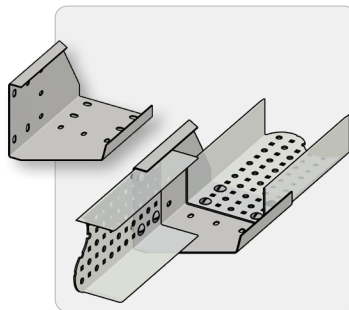
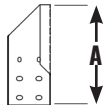
\*\* 3" deep Channel Tray is a new product - may not be available from stock. Contact factory.



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**Transition Splice  
Right Hand**

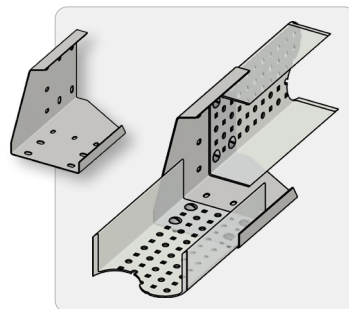
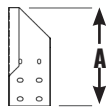


Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel*	6	SCT6-GC2-RH	-
Natural Finish Alum.	6	SCT6-NA2-RH	-
Stainless Steel T-304	6	SCT6-SS2T4-RH	-
Stainless Steel T-316	6	SCT6-SS2T6-RH	-

**A: 10.50"**  
**Nominal Engagement: 3.5"**

Transition Splices are marked with "L" or "R" to indicate Left or Right

**Transition Splice  
Left Hand**



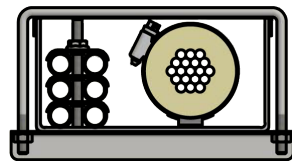
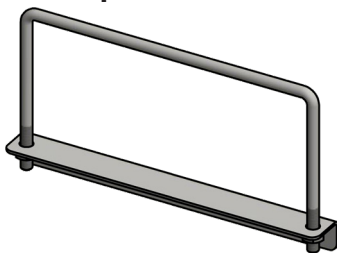
Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel*	6	SCT6-GC2-LH	-
Natural Finish Alum.	6	SCT6-NA2-LH	-
Stainless Steel T-304	6	SCT6-SS2T4-LH	-
Stainless Steel T-316	6	SCT6-SS2T6-LH	-

**A: 10.50"**  
**Nominal Engagement: 3.5"**

Transition Splices are marked with "L" or "R" to indicate Left or Right

Includes 3/8" dia. bolting

**Channel & Fitting  
Cover Clamps**



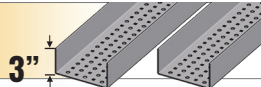
- Clamp: CCC6-SS6-3
- Channel: 6" x 3"

Sold Separately from Cover

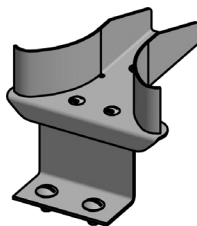
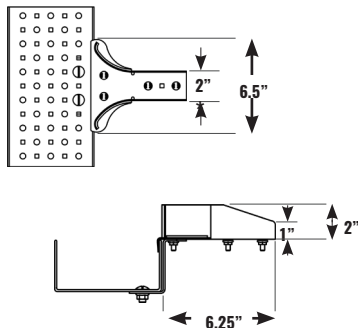
Channel Width	Channel Depth	Part No. Cover Clamp for Channel	Part No. Cover Clamp for Fittings
6	3	CCC6-SS6-3	FCC6-SS6-3

Four piece set includes base, U-bolt, and two hex flange nuts, all in 300 series stainless steel. Straight length covers (10 ft. and 12 ft. long) usually require three Channel Cover Clamps ("CCC"), and fitting covers usually require one Fitting Cover Clamp ("FCC") per end. Bases are marked with "C" or "F" to indicate Channel or Fitting. Also available in 304 Stainless Steel - contact Factory.





### Horizontal Drop-Out Fitting



Metal	Width	Part No.
Stainless Steel T-304	2	DHC2-SS2-3T4
Stainless Steel T-316		-

**Nominal Engagement: 3.5"**

See pg. 31 for Horizontal Drop-Out Fitting for 1" deep tray

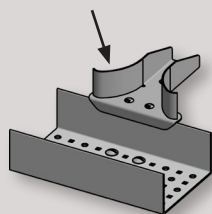
\* Same width as standard 2" wide TUBETRACK® tray. Use with any CABLE-RACE® or TUBETRACK® fitting.

### Attachable Horizontal Drop-Out Fitting

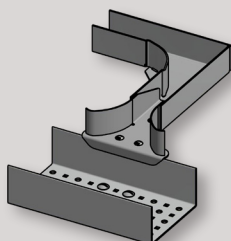
- Drop-Out to an instrumentation station or work station
- Bolt directly to any 3" deep TUBETRACK® tray
- No need to cut or modify existing mainline tray
- Drop-Out at any point along the TUBETRACK® main line tray
- Extend using any 2" wide CABLE-RACE® or TUBETRACK® tray fitting
- Use single Drop-Out fitting with a TUBETRACK® fitting for desired configuration
- All TUBETRACK® fittings include required fasteners
- Includes mounting bracket and fasteners for connection to 3" deep tray
- Available in stainless steel - fits TUBETRACK® tray of any metal

### Examples of possible configurations using this single fitting for each Drop-Out:

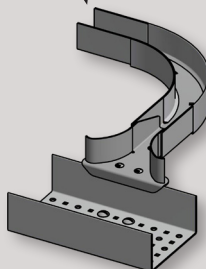
1" / 2" Deep Horizontal Drop-Out Fitting



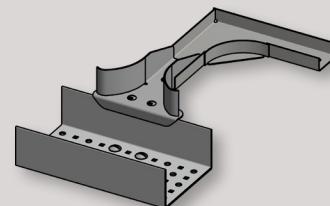
2" Deep x 3" Rad. 90° Elbow



2" Deep x 6" Rad. 90° Elbow

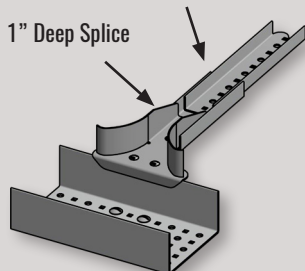


1" Deep x 3" Rad. 90° Elbow

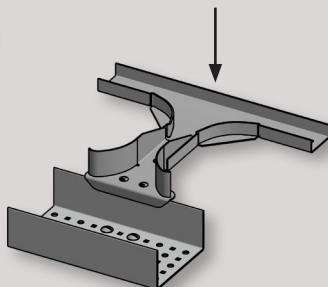


1" Deep Tray

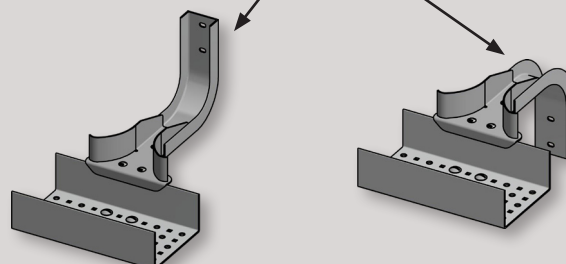
1" Deep Splice



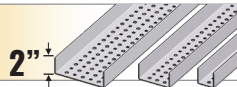
1" Deep Tee



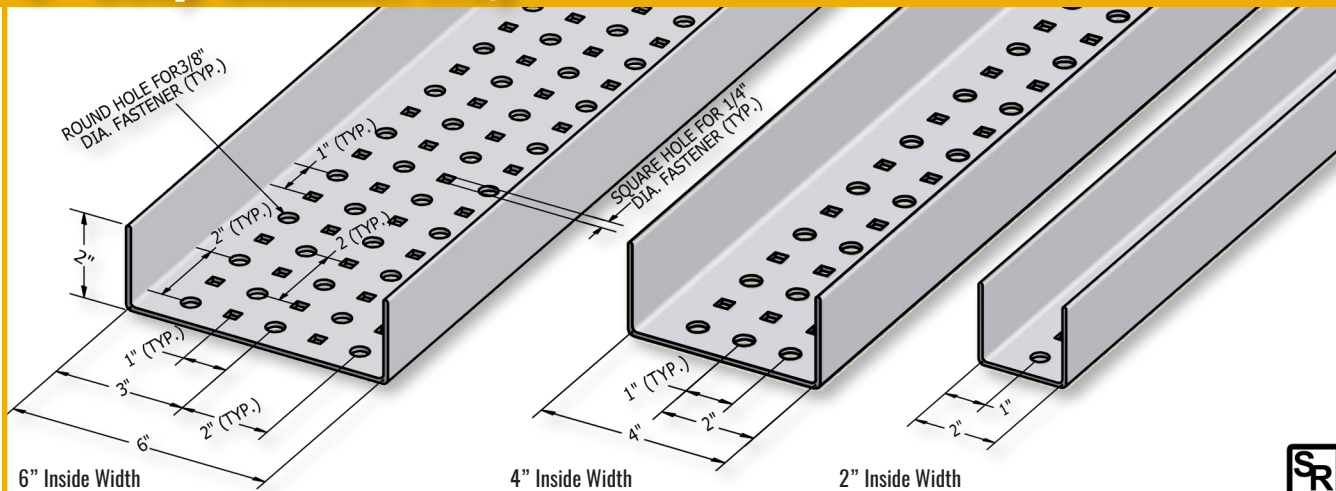
1" Deep x 3" Rad. 90° Vertical



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# 2" Deep Channel Tray



## Channels - 2" Deep

TUBETRACK® standard tray channel sections are available in 4 corrosion-resistant metals and 3 channel widths. TUBETRACK® components are factory inspected for quality of fabrication detail, finish, straightness, and appearance.

Channel tray details are shown for standard TUBETRACK® part numbers, materials, widths, lengths, gages, and covers. **Other non-standard gages are available for 304SS and 316SS channels but are generally not available from factory stock.**

See page 49 for Load and Deflection information.

Metal	Width	Channel Tray Part No.	Chan. Gage	Chan. Length	Cover Part No. (20 ga.)	Cover Length
Hot-Dip Galv. Steel*	2	CH2-GC2	12	20'	CV-CH2-MG	10'
	4	CH4-GC2			CV-CH4-MG	
	6	CH6-GC2			CV-CH6-MG	
Natural Finish Alum.	2	CH2-NA2	12	20'	CV-CH2-NA	10'
	4	CH4-NA2			CV-CH4-NA	
	6	CH6-NA2			CV-CH6-NA	
Stainless Steel T-304	2	CH2-SS2T4-144-6	16	12'	CV-CH2-SS4-144	12'
	4	CH4-SS2T4-144-6			CV-CH4-SS4-144	
	6	CH6-SS2T4-144-6			CV-CH6-SS4-144	
Stainless Steel T-316	2	CH2-SS2T6-144-6	16	12'	CV-CH2-SS6-144	12'
	4	CH4-SS2T6-144-6			CV-CH4-SS6-144	
	6	CH6-SS2T6-144-6			CV-CH6-SS6-144	

### Non-Standard Gages:

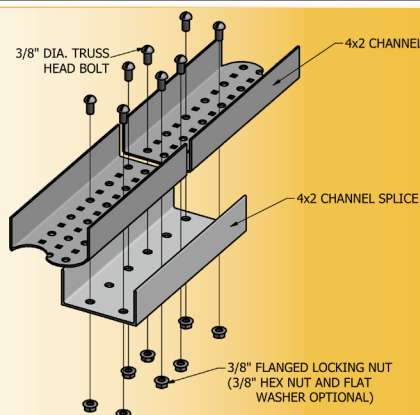
Stainless Steel T-304	2	CH2-SS2T4-144-4	14	12'	CV-CH2-SS4-144	12'
	4	CH4-SS2T4-144-4			CV-CH4-SS4-144	
	6	CH6-SS2T4-144-4			CV-CH6-SS4-144	
Stainless Steel T-316	2	CH2-SS2T6-144-4	14	12'	CV-CH2-SS6-144	12'
	4	CH4-SS2T6-144-4			CV-CH4-SS6-144	
	6	CH6-SS2T6-144-4			CV-CH6-SS6-144	
Stainless Steel T-304	2	-	12	12'	-	12'
	4	-			-	
	6	-			-	



Structural connections for 2" deep TUBETRACK® tray splices and bends are provided with 3/8" dia. bolt sets (truss head bolts with flanged locking nuts). Truss head bolts with hex nuts and flat washers are optional upon request. Bolt sets are supplied with all TUBETRACK® splices and bends.

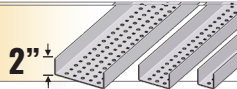
Standard fastener metals include:

- Zinc-plated bolts with galvanized fittings
- 18-8 stainless bolts with aluminum fittings
- 18-8 stainless bolts with 304 SS fittings
- 316 stainless bolts with 316 SS fittings

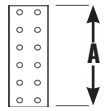


### Bolted Connections

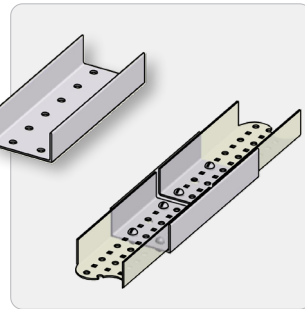
TUBETRACK® uses only tightenable fasteners to secure tray connections and maintain the conductivity necessary for UL classification. Splices bolt through the first and third round holes in each end of a splice for maximum strength. Bolt sets are supplied with each TUBETRACK® splice and bend. Stainless steel bolting is standard with stainless steel and aluminum TUBETRACK® fittings. Stainless steel bolting is optional with galvanized TUBETRACK® for an additional cost. Contact factory for additional information.



**Channel Splice**



Includes 3/8" dia. bolting

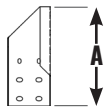


Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel*	2, 4, 6	SC2-GC2, SC4-GC2, SC6-GC2	CV-S2MG2, CV-S4MG2, CV-S6MG2
Natural Finish Alum.	2, 4, 6	SC2-NA2, SC4-NA2, SC6-NA2	CV-S2NA2, CV-S4NA2, CV-S6NA2
Stainless Steel	2, 4, 6	SC2-SS2T4, SC4-SS2T4, SC6-SS2T4	CV-S2SS2T4, CV-S4SS2T4, CV-S6SS2T4
Stainless Steel	2, 4, 6	SC2-SS2T6, SC4-SS2T6, SC6-SS2T6	CV-S2SS2T6, CV-S4SS2T6, CV-S6SS2T6

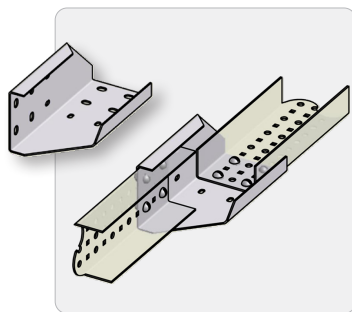
**A: 11.50"**  
**Nominal Engagement: 5.5"**



**Transition Splice Right Hand**



Includes 3/8" dia. bolting

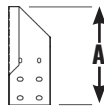


Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel*	2, 4, 6	SCT2-GC2-RH, SCT4-GC2-RH, SCT6-GC2-RH	-
Natural Finish Alum.	2, 4, 6	SCT2-NA2-RH, SCT4-NA2-RH, SCT6-NA2-RH	-
Stainless Steel	2, 4, 6	SCT2-SS2T4-RH, SCT4-SS2T4-RH, SCT6-SS2T4-RH	-
Stainless Steel	2, 4, 6	SCT2-SS2T6-RH, SCT4-SS2T6-RH, SCT6-SS2T6-RH	-

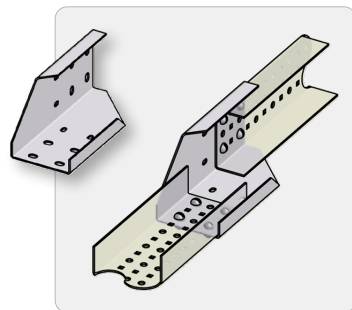
**A: 10.50"**  
**Nominal Engagement: 3.5"**

Transition Splices are marked with "L" or "R" to indicate Left or Right

**Transition Splice Left Hand**



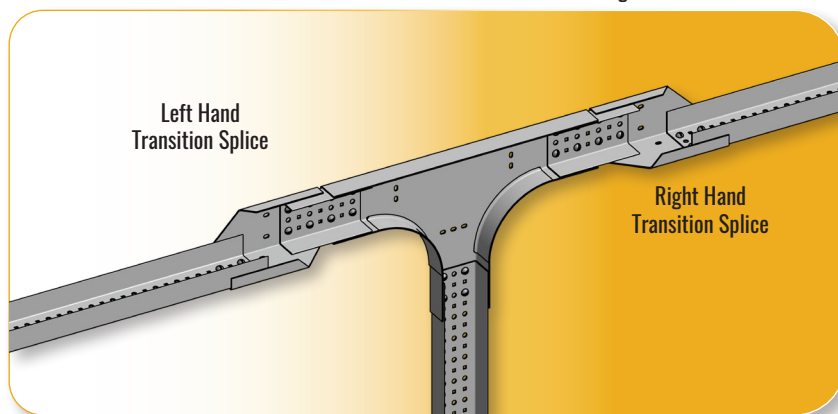
Includes 3/8" dia. bolting



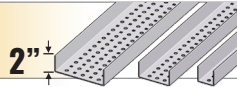
Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel*	2, 4, 6	SCT2-GC2-LH, SCT4-GC2-LH, SCT6-GC2-LH	-
Natural Finish Alum.	2, 4, 6	SCT2-NA2-LH, SCT4-NA2-LH, SCT6-NA2-LH	-
Stainless Steel	2, 4, 6	SCT2-SS2T4-LH, SCT4-SS2T4-LH, SCT6-SS2T4-LH	-
Stainless Steel	2, 4, 6	SCT2-SS2T6-LH, SCT4-SS2T6-LH, SCT6-SS2T6-LH	-

**A: 10.50"**  
**Nominal Engagement: 3.5"**

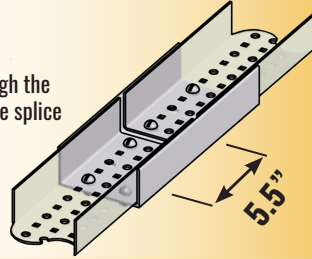
Transition Splices are marked with "L" or "R" to indicate Left or Right



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Make splice connections for channels through the first and third round holes in each end of the splice for maximum strength.

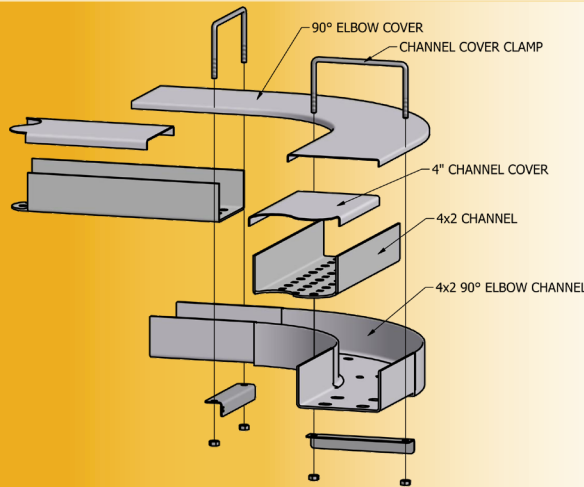


**Nominal Engagement**

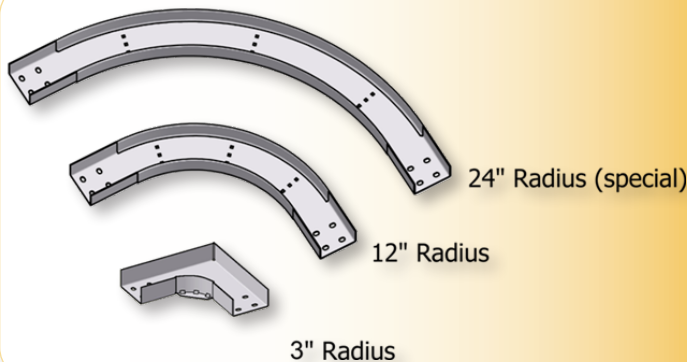
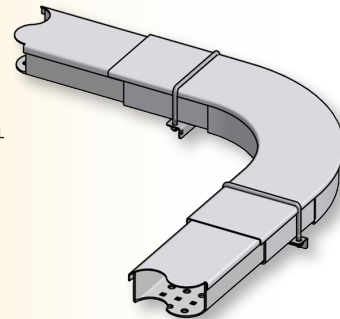
The nominal engagement is the overlap of tray inside the splice or bend fitting. TUBETRACK® channel fits inside each end of this splice for a nominal engagement of 5.5". Use fitting dimensions to estimate straight channel lengths for a job.

**Covers**

Covers for each fitting are installed over the fitting and over the cover of the channel connected to the fitting to cover the entire connection. Channel Cover Clamps and Fitting Cover Clamps allow for easy re-opening and re-closing after cabling changes. Clamp bases are marked with "C" or "F" to indicate Channel or Fitting.



Use TUBETRACK® Fitting Cover Clamps to hold down each end of a bend fitting cover. Channel Cover Clamps hold covers along straight tray.



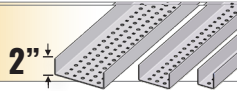
**Choice of Radius**

3" and 12" radius bends (3 widths, 4 metals) are standard with dimensions and part numbers shown in this catalog. Other bend radii are available. Non-stock standards are available now for many fittings in 6", 18", 24", and 36" radius.

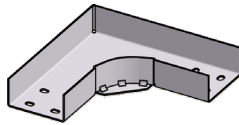
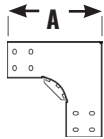
Also available are specific radius requirements. Special radii can mean 29-inch radius or 29-foot radius to match storage tank circumferences or other large curves. Contact factory for additional information.

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**Elbow Channel**  
**90° Bend**  
**3" Min. Radius**

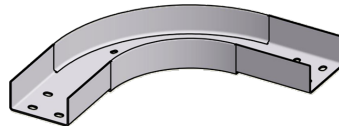
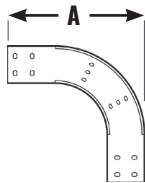


Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	EC2-GC2-R3D90	CV-E2 MG2 R3D90
Steel*	4	EC4-GC2-R3D90	CV-E4 MG2 R3D90
	6	EC6-GC2-R3D90	CV-E6 MG2 R3D90
Natural Finish Alum.	2	EC2-NA2-R3D90	CV-E2 NA2 R3D90
	4	EC4-NA2-R3D90	CV-E4 NA2 R3D90
	6	EC6-NA2-R3D90	CV-E6 NA2 R3D90
Stainless Steel	2	EC2-SS2-R3D90T4	CV-E2 SS2 R3D90T4
	4	EC4-SS2-R3D90T4	CV-E4 SS2 R3D90T4
T-304	6	EC6-SS2-R3D90T4	CV-E6 SS2 R3D90T4
Stainless Steel	2	EC2-SS2-R3D90T6	CV-E2 SS2 R3D90T6
	4	EC4-SS2-R3D90T6	CV-E4 SS2 R3D90T6
T-316	6	EC6-SS2-R3D90T6	CV-E6 SS2 R3D90T6

**A: 7.25" plus channel width**  
**Nominal Engagement: 3.5"**

**Elbow Channel**  
**90° Bend**  
**6" Min. Radius**

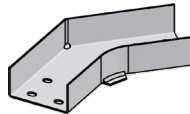
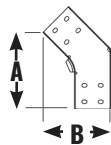


Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	EC2-GC2-R6D90	CV-E2 MG2 R6D90
Steel*	4	EC4-GC2-R6D90	CV-E4 MG2 R6D90
	6	EC6-GC2-R6D90	CV-E6 MG2 R6D90
Natural Finish Alum.	2	EC2-NA2-R6D90	CV-E2 NA2 R6D90
	4	EC4-NA2-R6D90	CV-E4 NA2 R6D90
	6	EC6-NA2-R6D90	CV-E6 NA2 R6D90
Stainless Steel	2	EC2-SS2-R6D90T4	CV-E2 SS2 R6D90T4
	4	EC4-SS2-R6D90T4	CV-E4 SS2 R6D90T4
T-304	6	EC6-SS2-R6D90T4	CV-E6 SS2 R6D90T4
Stainless Steel	2	EC2-SS2-R6D90T6	CV-E2 SS2 R6D90T6
	4	EC4-SS2-R6D90T6	CV-E4 SS2 R6D90T6
T-316	6	EC6-SS2-R6D90T6	CV-E6 SS2 R6D90T6

**A: 12.0" plus channel width**  
**Nominal Engagement: 3.5"**

**Elbow Channel**  
**45° Bend**  
**3" Min. Radius**

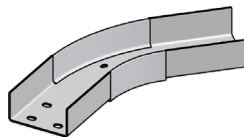
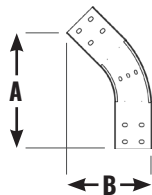


Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	EC2-GC2-R3D45	CV-E2 MG2 R3D45
Steel*	4	EC4-GC2-R3D45	CV-E4 MG2 R3D45
	6	EC6-GC2-R3D45	CV-E6 MG2 R3D45
Natural Finish Alum.	2	EC2-NA2-R3D45	CV-E2 NA2 R3D45
	4	EC4-NA2-R3D45	CV-E4 NA2 R3D45
	6	EC6-NA2-R3D45	CV-E6 NA2 R3D45
Stainless Steel	2	EC2-SS2-R3D45T4	CV-E2 SS2 R3D45T4
	4	EC4-SS2-R3D45T4	CV-E4 SS2 R3D45T4
T-304	6	EC6-SS2-R3D45T4	CV-E6 SS2 R3D45T4
Stainless Steel	2	EC2-SS2-R3D45T6	CV-E2 SS2 R3D45T6
	4	EC4-SS2-R3D45T6	CV-E4 SS2 R3D45T6
T-316	6	EC6-SS2-R3D45T6	CV-E6 SS2 R3D45T6

**A: 9.31" B: 4" plus channel width**  
**Nominal Engagement: 3.5"**

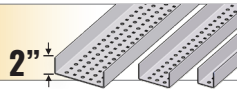
**Elbow Channel**  
**45° Bend**  
**6" Min. Radius**



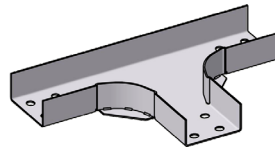
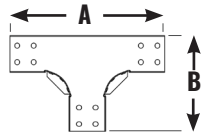
Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	EC2-GC2-R6D45	CV-E2 MG2 R6D45
Steel*	4	EC4-GC2-R6D45	CV-E4 MG2 R6D45
	6	EC6-GC2-R6D45	CV-E6 MG2 R6D45
Natural Finish Alum.	2	EC2-NA2-R6D45	CV-E2 NA2 R6D45
	4	EC4-NA2-R6D45	CV-E4 NA2 R6D45
	6	EC6-NA2-R6D45	CV-E6 NA2 R6D45
Stainless Steel	2	EC2-SS2-R6D45T4	CV-E2 SS2 R6D45T4
	4	EC4-SS2-R6D45T4	CV-E4 SS2 R6D45T4
T-304	6	EC6-SS2-R6D45T4	CV-E6 SS2 R6D45T4
Stainless Steel	2	EC2-SS2-R6D45T6	CV-E2 SS2 R6D45T6
	4	EC4-SS2-R6D45T6	CV-E4 SS2 R6D45T6
T-316	6	EC6-SS2-R6D45T6	CV-E6 SS2 R6D45T6

**A: 13.75" B: 6.0" plus channel width**  
**Nominal Engagement: 3.5"**



**Tee Channel  
90° Bend  
3" Min. Radius**



Includes 3/8" dia. bolting

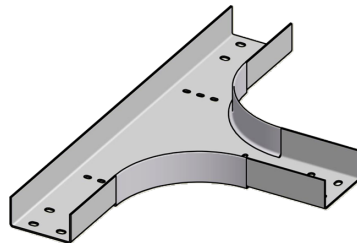
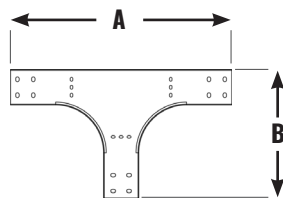
Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	TC2-GC2-R3D90	CV-T2 MG2 R3D90
	4	TC4-GC2-R3D90	CV-T4 MG2 R3D90
	6	TC6-GC2-R3D90	CV-T6 MG2 R3D90
Steel*	2	TC2-GC2-R3D90	CV-T6 MG2 R3D90
Natural Finish Alum.	2	TC2-NA2-R3D90	CV-T2 NA2 R3D90
	4	TC4-NA2-R3D90	CV-T4 NA2 R3D90
	6	TC6-NA2-R3D90	CV-T6 NA2 R3D90
Stainless Steel	2	TC2-SS2-R3D90T4	CV-T2 SS2 R3D90T4
	4	TC4-SS2-R3D90T4	CV-T4 SS2 R3D90T4
	6	TC6-SS2-R3D90T4	CV-T6 SS2 R3D90T4
T-304	2	TC2-SS2-R3D90T4	CV-T6 SS2 R3D90T4
Stainless Steel	2	TC2-SS2-R3D90T6	CV-T2 SS2 R3D90T6
	4	TC4-SS2-R3D90T6	CV-T4 SS2 R3D90T6
	6	TC6-SS2-R3D90T6	CV-T6 SS2 R3D90T6
T-316	2	TC2-SS2-R3D90T6	CV-T6 SS2 R3D90T6

**A: 14.25" plus channel width**

**B: 7.25" plus channel width**

**Nominal Engagement: 3.5"**

**Tee Channel  
90° Bend  
6" Min. Radius**



Includes 3/8" dia. bolting

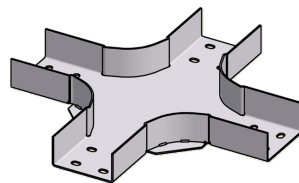
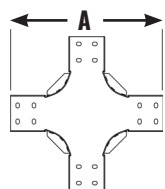
Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	TC2-GC2-R6D90	CV-T2 MG2 R6D90
	4	TC4-GC2-R6D90	CV-T4 MG2 R6D90
	6	TC6-GC2-R6D90	CV-T6 MG2 R6D90
Steel*	2	TC2-GC2-R6D90	CV-T6 MG2 R6D90
Natural Finish Alum.	2	TC2-NA2-R6D90	CV-T2 NA2 R6D90
	4	TC4-NA2-R6D90	CV-T4 NA2 R6D90
	6	TC6-NA2-R6D90	CV-T6 NA2 R6D90
Stainless Steel	2	TC2-SS2-R6D90T4	CV-T2 SS2 R6D904
	4	TC4-SS2-R6D90T4	CV-T4 SS2 R6D904
	6	TC6-SS2-R6D90T4	CV-T6 SS2 R6D904
T-304	2	TC2-SS2-R6D90T4	CV-T6 SS2 R6D904
Stainless Steel	2	TC2-SS2-R6D90T6	CV-T2 SS2 R6D906
	4	TC4-SS2-R6D90T6	CV-T4 SS2 R6D906
	6	TC6-SS2-R6D90T6	CV-T6 SS2 R6D906
T-316	2	TC2-SS2-R6D90T6	CV-T6 SS2 R6D906

**A: 23.75" plus channel width**

**B: 12.25" plus channel width**

**Nominal Engagement: 3.5"**

**Cross Channel  
90° Bend  
3" Min. Radius**



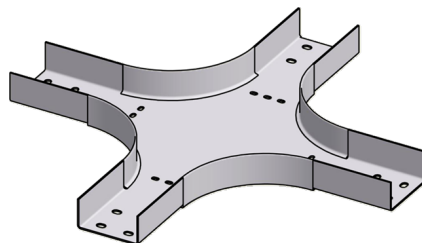
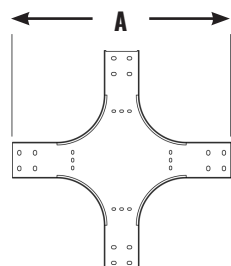
Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	KC2-GC2-R3D90	CV-K2 MG2 R3D90
	4	KC4-GC2-R3D90	CV-K4 MG2 R3D90
	6	KC6-GC2-R3D90	CV-K6 MG2 R3D90
Steel*	2	KC2-GC2-R3D90	CV-K6 MG2 R3D90
Natural Finish Alum.	2	KC2-NA2-R3D90	CV-K2 NA2 R3D90
	4	KC4-NA2-R3D90	CV-K4 NA2 R3D90
	6	KC6-NA2-R3D90	CV-K6 NA2 R3D90
Stainless Steel	2	KC2-SS2-R3D90T4	CV-K2 SS2 R3D90T4
	4	KC4-SS2-R3D90T4	CV-K4 SS2 R3D90T4
	6	KC6-SS2-R3D90T4	CV-K6 SS2 R3D90T4
T-304	2	KC2-SS2-R3D90T4	CV-K6 SS2 R3D90T4
Stainless Steel	2	KC2-SS2-R3D90T6	CV-K2 SS2 R3D90T6
	4	KC4-SS2-R3D90T6	CV-K4 SS2 R3D90T6
	6	KC6-SS2-R3D90T6	CV-K6 SS2 R3D90T6
T-316	2	KC2-SS2-R3D90T6	CV-K6 SS2 R3D90T6

**A: 14.5" plus channel width**

**Nominal Engagement: 3.5"**

**Cross Channel  
90° Bend  
6" Min. Radius**



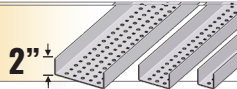
Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	KC2-GC2-R6D90	CV-K2 MG2 R6D90
	4	KC4-GC2-R6D90	CV-K4 MG2 R6D90
	6	KC6-GC2-R6D90	CV-K6 MG2 R6D90
Steel*	2	KC2-GC2-R6D90	CV-K6 MG2 R6D90
Natural Finish Alum.	2	KC2-NA2-R6D90	CV-K2 NA2 R6D90
	4	KC4-NA2-R6D90	CV-K4 NA2 R6D90
	6	KC6-NA2-R6D90	CV-K6 NA2 R6D90
Stainless Steel	2	KC2-SS2-R6D90T4	CV-K2 SS2 R6D904
	4	KC4-SS2-R6D90T4	CV-K4 SS2 R6D904
	6	KC6-SS2-R6D90T4	CV-K6 SS2 R6D904
T-304	2	KC2-SS2-R6D90T4	CV-K6 SS2 R6D904
Stainless Steel	2	KC2-SS2-R6D90T6	CV-K2 SS2 R6D906
	4	KC4-SS2-R6D90T6	CV-K4 SS2 R6D906
	6	KC6-SS2-R6D90T6	CV-K6 SS2 R6D906
T-316	2	KC2-SS2-R6D90T6	CV-K6 SS2 R6D906

**A: 23.75" plus channel width**

**Nominal Engagement: 3.5"**

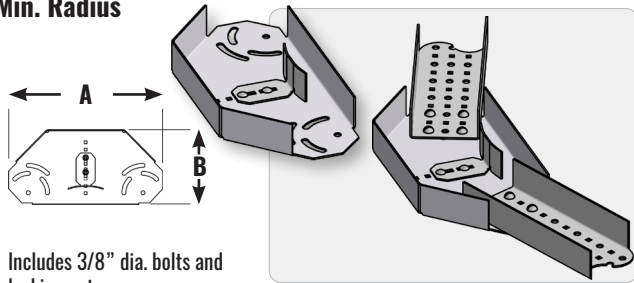
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**Horizontal Elbow  
Adjustable Bend (0-90°)**

**Patent No.: US 8,573,409 B2**

**6" Min. Radius**

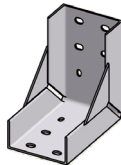


Includes 3/8" dia. bolts and locking nuts

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	EC2-GC2-R6DA	-
Galv.	4	EC4-GC2-R6DA	-
Steel	6	EC6-GC2-R6DA	-
Natural Finish Alum.	2	EC2-NA2-R6DA	-
Finish Alum.	4	EC4-NA2-R6DA	-
Alum.	6	EC6-NA2-R6DA	-
Stainless Steel	2	EC2-SS2-R6DAT4	-
Steel	4	EC4-SS2-R6DAT4	-
T-304	6	EC6-SS2-R6DAT4	-
Stainless Steel	2	EC2-SS2-R6DAT6	-
Steel	4	EC4-SS2-R6DAT6	-
T-316	6	EC6-SS2-R6DAT6	-

**2" Width Tray: A = 13", B = 7" (nominal dim.)**  
**4" Width Tray: A = 16", B = 8" (nominal dim.)**  
**6" Width Tray: A = 16", B = 10" (nominal dim.)**  
**Nominal Engagement: 3.5"**

**Square Inside Channel Vertical  
90° Bend  
0-1" Radius**

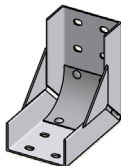


Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	SICV2-GC2-D90	CV-12 MG2 R3D90
Galv.	4	SICV4-GC2-D90	CV-14 MG2 R3D90
Steel*	6	SICV6-GC2-D90	CV-16 MG2 R3D90
Natural Finish Alum.	2	SICV2-NA2-D90	CV-12 NA2 R3D90
Finish Alum.	4	SICV4-NA2-D90	CV-14 NA2 R3D90
Alum.	6	SICV6-NA2-D90	CV-16 NA2 R3D90
Stainless Steel	2	SICV2-SS2-D90T4	CV-12 SS2 R3D90T4
Steel	4	SICV4-SS2-D90T4	CV-14 SS2 R3D90T4
T-304	6	SICV6-SS2-D90T4	CV-16 SS2 R3D90T4
Stainless Steel	2	SICV2-SS2-D90T6	CV-12 SS2 R3D90T6
Steel	4	SICV4-SS2-D90T6	CV-14 SS2 R3D90T6
T-316	6	SICV6-SS2-D90T6	CV-16 SS2 R3D90T6

**A: 7.25"**  
**Nominal Engagement: 3.5"**

**Inside Channel Vertical  
90° Bend  
3" Radius**

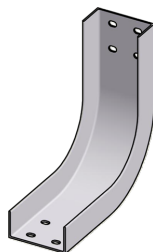


Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	ICV2-GC2-R3D90	CV-12 MG2 R3D90
Galv.	4	ICV4-GC2-R3D90	CV-14 MG2 R3D90
Steel*	6	ICV6-GC2-R3D90	CV-16 MG2 R3D90
Natural Finish Alum.	2	ICV2-NA2-R3D90	CV-12 NA2 R3D90
Finish Alum.	4	ICV4-NA2-R3D90	CV-14 NA2 R3D90
Alum.	6	ICV6-NA2-R3D90	CV-16 NA2 R3D90
Stainless Steel	2	ICV2-SS2 R3D90T4	CV-12 SS2 R3D90T4
Steel	4	ICV4-SS2 R3D90T4	CV-14 SS2 R3D90T4
T-304	6	ICV6-SS2 R3D90T4	CV-16 SS2 R3D90T4
Stainless Steel	2	ICV2-SS2 R3D90T6	CV-12 SS2 R3D90T6
Steel	4	ICV4-SS2 R3D90T6	CV-14 SS2 R3D90T6
T-316	6	ICV6-SS2 R3D90T6	CV-16 SS2 R3D90T6

**A: 7.25"**      **B: 8.0"**  
**Nominal Engagement: 3.5"**

**Inside Channel Vertical  
90° Bend  
6" Radius**

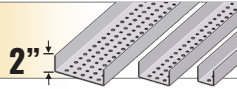


Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	ICV2-GC2-R6D90	CV-12 MG2 R6D90
Galv.	4	ICV4-GC2-R6D90	CV-14 MG2 R6D90
Steel*	6	ICV6-GC2-R6D90	CV-16 MG2 R6D90
Natural Finish Alum.	2	ICV2-NA2-R6D90	CV-12 NA2 R6D90
Finish Alum.	4	ICV4-NA2-R6D90	CV-14 NA2 R6D90
Alum.	6	ICV6-NA2-R6D90	CV-16 NA2 R6D90
Stainless Steel	2	ICV2-SS2 R6D90T4	CV-12 SS2 R6D904
Steel	4	ICV4-SS2 R6D90T4	CV-14 SS2 R6D904
T-304	6	ICV6-SS2 R6D90T4	CV-16 SS2 R6D904
Stainless Steel	2	ICV2-SS2 R6D90T6	CV-12 SS2 R6D906
Steel	4	ICV4-SS2 R6D90T6	CV-14 SS2 R6D906
T-316	6	ICV6-SS2 R6D90T6	CV-16 SS2 R6D906

**A: 10.75"**  
**Nominal Engagement: 3.5"**





**Square Inside Channel Vertical**  
**45° Bend**  
**0-1" Radius**

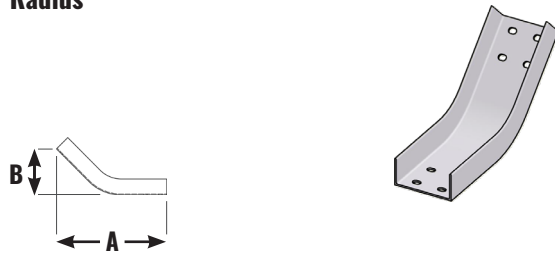


Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	SICV2-GC2-D45	CV-SI2 MG2 D45
Galv.	4	SICV4-GC2-D45	CV-SI4 MG2 D45
Steel*	6	SICV6-GC2-D45	CV-SI6 MG2 D45
Natural Finish Alum.	2	SICV2-NA2-D45	CV-SI2 NA2 D45
Finish Alum.	4	SICV4-NA2-D45	CV-SI4 NA2 D45
Alum.	6	SICV6-NA2-D45	CV-SI6 NA2 D45
Stainless Steel	2	SICV2-SS2-D45T4	CV-SI2 SS2 D45T4
Steel	4	SICV4-SS2-D45T4	CV-SI4 SS2 D45T4
T-304	6	SICV6-SS2-D45T4	CV-SI6 SS2 D45T4
Stainless Steel	2	SICV2-SS2-D45T6	CV-SI2 SS2 D45T6
Steel	4	SICV4-SS2-D45T6	CV-SI4 SS2 D45T6
T-316	6	SICV6-SS2-D45T6	CV-SI6 SS2 D45T6

**A: 7.25"**  
**B: 6.5"**  
**Nominal Engagement: 3.5"**

**Inside Channel Vertical**  
**45° Bend**  
**6" Radius**



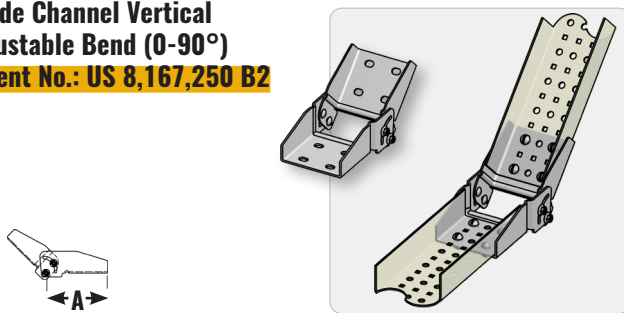
Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	ICV2-GC2-R6D45	CV-I2 MG2 R6D45
Galv.	4	ICV4-GC2-R6D45	CV-I4 MG2 R6D45
Steel*	6	ICV6-GC2-R6D45	CV-I6 MG2 R6D45
Natural Finish Alum.	2	ICV2-NA2-R6D45	CV-I2 NA2 R6D45
Finish Alum.	4	ICV4-NA2-R6D45	CV-I4 NA2 R6D45
Alum.	6	ICV6-NA2-R6D45	CV-I6 NA2 R6D45
Stainless Steel	2	ICV2-SS2 R6D45T4	CV-I2 SS2 R6D454
Steel	4	ICV4-SS2 R6D45T4	CV-I4 SS2 R6D454
T-304	6	ICV6-SS2 R6D45T4	CV-I6 SS2 R6D454
Stainless Steel	2	ICV2-SS2 R6D45T6	CV-I2 SS2 R6D456
Steel	4	ICV4-SS2 R6D45T6	CV-I4 SS2 R6D456
T-316	6	ICV6-SS2 R6D45T6	CV-I4 SS2 R6D456

**A: 15.75"**      **B: 8.0"**  
**Nominal Engagement: 3.5"**



**Inside Channel Vertical**  
**Adjustable Bend (0-90°)**  
**Patent No.: US 8,167,250 B2**



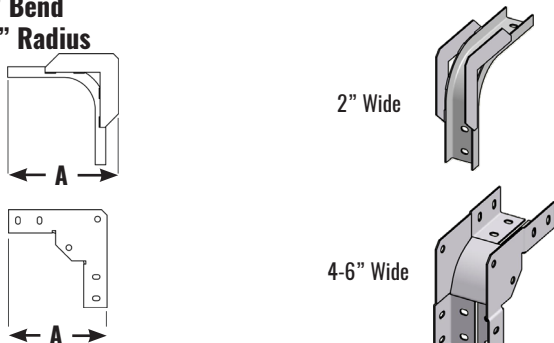
Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	ICV2-GC2-DA	-
Galv.	4	ICV4-GC2-DA	-
Steel*	6	ICV6-GC2-DA	-
Natural Finish Alum.	2	ICV2-NA2-DA	-
Finish Alum.	4	ICV4-NA2-DA	-
Alum.	6	ICV6-NA2-DA	-
Stainless Steel	2	ICV2-SS2-DAT4	-
Steel	4	ICV4-SS2-DAT4	-
T-304	6	ICV6-SS2-DAT4	-
Stainless Steel	2	ICV2-SS2-DAT6	-
Steel	4	ICV4-SS2-DAT6	-
T-316	6	ICV6-SS2-DAT6	-

**A: 6.0"**  
**Nominal Engagement: 3.5"**



**Outside Channel Vertical**  
**90° Bend**  
**0-3" Radius**

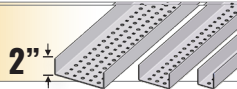


Includes 3/8" dia. bolting

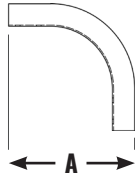
Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	OCV2-GC2-R3D90	CV-O2 MG2 R3D90
Galv.	4	OCV4-GC2-R3D90	CV-O4 MG2 R3D90
Steel*	6	OCV6-GC2-R3D90	CV-O6 MG2 R3D90
Natural Finish Alum.	2	OCV2-NA2-R3D90	CV-O2 NA2 R3D90
Finish Alum.	4	OCV4-NA2-R3D90	CV-O4 NA2 R3D90
Alum.	6	OCV6-NA2-R3D90	CV-O6 NA2 R3D90
Stainless Steel	2	OCV2-SS2 R3D90T4	CV-O2 SS2 R3D90T4
Steel	4	OCV4-SS2 R3D90T4	CV-O4 SS2 R3D90T4
T-304	6	OCV6-SS2 R3D90T4	CV-O6 SS2 R3D90T4
Stainless Steel	2	OCV2-SS2 R3D90T6	CV-O2 SS2 R3D90T6
Steel	4	OCV4-SS2 R3D90T6	CV-O4 SS2 R3D90T6
T-316	6	OCV6-SS2 R3D90T6	CV-O6 SS2 R3D90T6

**A: 9.25"**  
**Nominal Engagement: 3.5"**





**Outside Channel Vertical  
90° Bend  
6" Min. Radius**



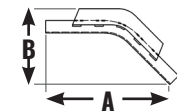
Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	OCV2-GC2-R6D90	CV-O2 MG2 R6D90
Steel*	4	OCV4-GC2-R6D90	CV-O4 MG2 R6D90
Steel*	6	OCV6-GC2-R6D90	CV-O6 MG2 R6D90
Natural Finish Alum.	2	OCV2-NA2-R6D90	CV-O2 NA2 R6D90
Finish Alum.	4	OCV4-NA2-R6D90	CV-O4 NA2 R6D90
Alum.	6	OCV6-NA2-R6D90	CV-O6 NA2 R6D90
Stainless Steel	2	OCV2-SS2 R6D90T4	CV-O2 SS2 R6D904
Steel	4	OCV4-SS2 R6D90T4	CV-O4 SS2 R6D904
T-304	6	OCV6-SS2 R6D90T4	CV-O6 SS2 R6D904
Stainless Steel	2	OCV2-SS2 R6D90T6	CV-O2 SS2 R6D906
Steel	4	OCV4-SS2 R6D90T6	CV-O4 SS2 R6D906
T-316	6	OCV6-SS2 R6D90T6	CV-O6 SS2 R6D906

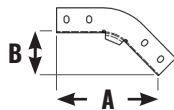
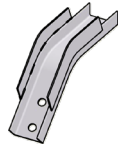
**A: 10.00"**  
**Nominal Engagement: 3.5"**



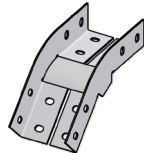
**Outside Channel Vertical  
45° Bend  
0-3" Radius**



2" Wide



4-6" Wide

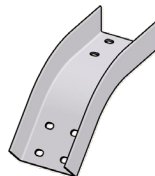
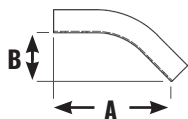


Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	OCV2-GC2-R3D45	CV-O2 MG2 R3D45
Steel*	4	OCV4-GC2-R3D45	CV-O4 MG2 R3D45
Steel*	6	OCV6-GC2-R3D45	CV-O6 MG2 R3D45
Natural Finish Alum.	2	OCV2-NA2-R3D45	CV-O2 NA2 R3D45
Finish Alum.	4	OCV4-NA2-R3D45	CV-O4 NA2 R3D45
Alum.	6	OCV6-NA2-R3D45	CV-O6 NA2 R3D45
Stainless Steel	2	OCV2-SS2 R3D45T4	CV-O2 SS2 R3D45T4
Steel	4	OCV4-SS2 R3D45T4	CV-O4 SS2 R3D45T4
T-304	6	OCV6-SS2 R3D45T4	CV-O6 SS2 R3D45T4
Stainless Steel	2	OCV2-SS2 R3D45T6	CV-O2 SS2 R3D45T6
Steel	4	OCV4-SS2 R3D45T6	CV-O4 SS2 R3D45T6
T-316	6	OCV6-SS2 R3D45T6	CV-O6 SS2 R3D45T6

**A: 10.9"**      **B: 4.5"** for 2" width  
**A: 9"**      **B: 3.75"** for 4" and 6" widths  
**Nominal Engagement: 3.5"**

**Outside Channel Vertical  
45° Bend  
6" Min. Radius**



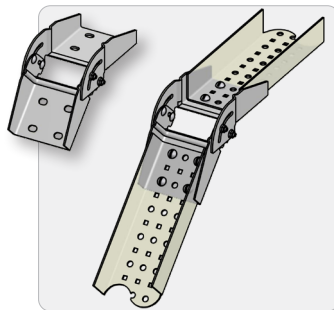
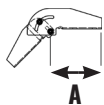
Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	OCV2-GC2-R6D45	CV-O2 MG2 R6D45
Steel*	4	OCV4-GC2-R6D45	CV-O4 MG2 R6D45
Steel*	6	OCV6-GC2-R6D45	CV-O6 MG2 R6D45
Natural Finish Alum.	2	OCV2-NA2-R6D45	CV-O2 NA2 R6D45
Finish Alum.	4	OCV4-NA2-R6D45	CV-O4 NA2 R6D45
Alum.	6	OCV6-NA2-R6D45	CV-O6 NA2 R6D45
Stainless Steel	2	OCV2-SS2 R6D45T4	CV-O2 SS2 R6D454
Steel	4	OCV4-SS2 R6D45T4	CV-O4 SS2 R6D454
T-304	6	OCV6-SS2 R6D45T4	CV-O6 SS2 R6D454
Stainless Steel	2	OCV2-SS2 R6D45T6	CV-O2 SS2 R6D456
Steel	4	OCV4-SS2 R6D45T6	CV-O4 SS2 R6D456
T-316	6	OCV6-SS2 R6D45T6	CV-O6 SS2 R6D456

**A: 15.25"**      **B: 6.25"**  
**Nominal Engagement: 3.5"**



**Outside Channel Vertical  
Adjustable Bend (0-90°)  
Patent No.: US 8,167,250 B2**



Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	OCV2-GC2-DA	-
Steel*	4	OCV4-GC2-DA	-
Steel*	6	OCV6-GC2-DA	-
Natural Finish Alum.	2	OCV2-NA2-DA	-
Finish Alum.	4	OCV4-NA2-DA	-
Alum.	6	OCV6-NA2-DA	-
Stainless Steel	2	OCV2-SS2-DAT4	-
Steel	4	OCV4-SS2-DAT4	-
T-304	6	OCV6-SS2-DAT4	-
Stainless Steel	2	OCV2-SS2-DAT6	-
Steel	4	OCV4-SS2-DAT6	-
T-316	6	OCV6-SS2-DAT6	-

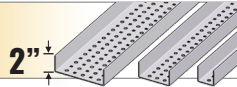
**A: 5.25"**  
**Nominal Engagement: 3.5"**



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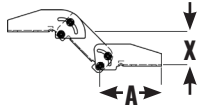
**TUBETRACK<sup>®</sup>**  
Channel Tray - 2" Deep



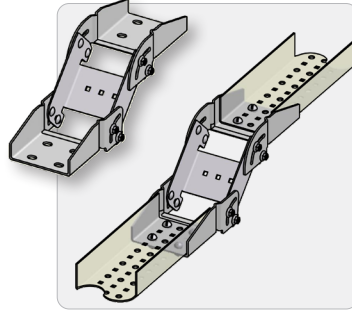
3-6" Radius Fittings



**Offset Channel Vertical  
Double Adjustable Bend**  
**Patent No.: US 8,167,250 B2**



Includes 3/8" dia. bolting



Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	OCV2-GC2-DDA5	-
Galv.	4	OCV4-GC2-DDA5	-
Steel	6	OCV6-GC2-DDA5	-
Natural Finish Alum.	2	OCV2-NA2-DDA5	-
	4	OCV4-NA2-DDA5	-
	6	OCV6-NA2-DDA5	-
Stainless Steel	2	OCV2-SS2-DDA5T4	-
Steel	4	OCV4-SS2-DDA5T4	-
T-304	6	OCV6-SS2-DDA5T4	-
Stainless Steel	2	OCV2-SS2-DDA5T6	-
Steel	4	OCV4-SS2-DDA5T6	-
T-316	6	OCV6-SS2-DDA5T6	-

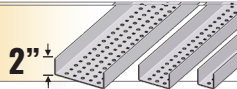
**A: 6.0"**

**X: Offset at 45° (pictured): 3.25"**

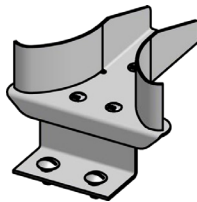
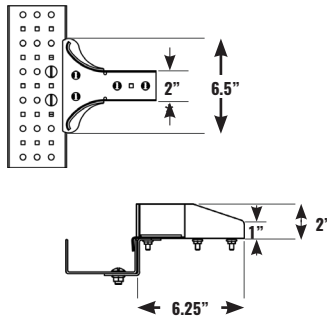
**Max offset (bends at 90°): 5"**

**Nominal Engagement: 3.5"**





### Horizontal Drop-Out Fitting



Metal	Width	Part No.
Stainless Steel T-304	2	DHC2-SS2-2T4
Stainless Steel T-316		-

**Nominal Engagement: 3.5"**

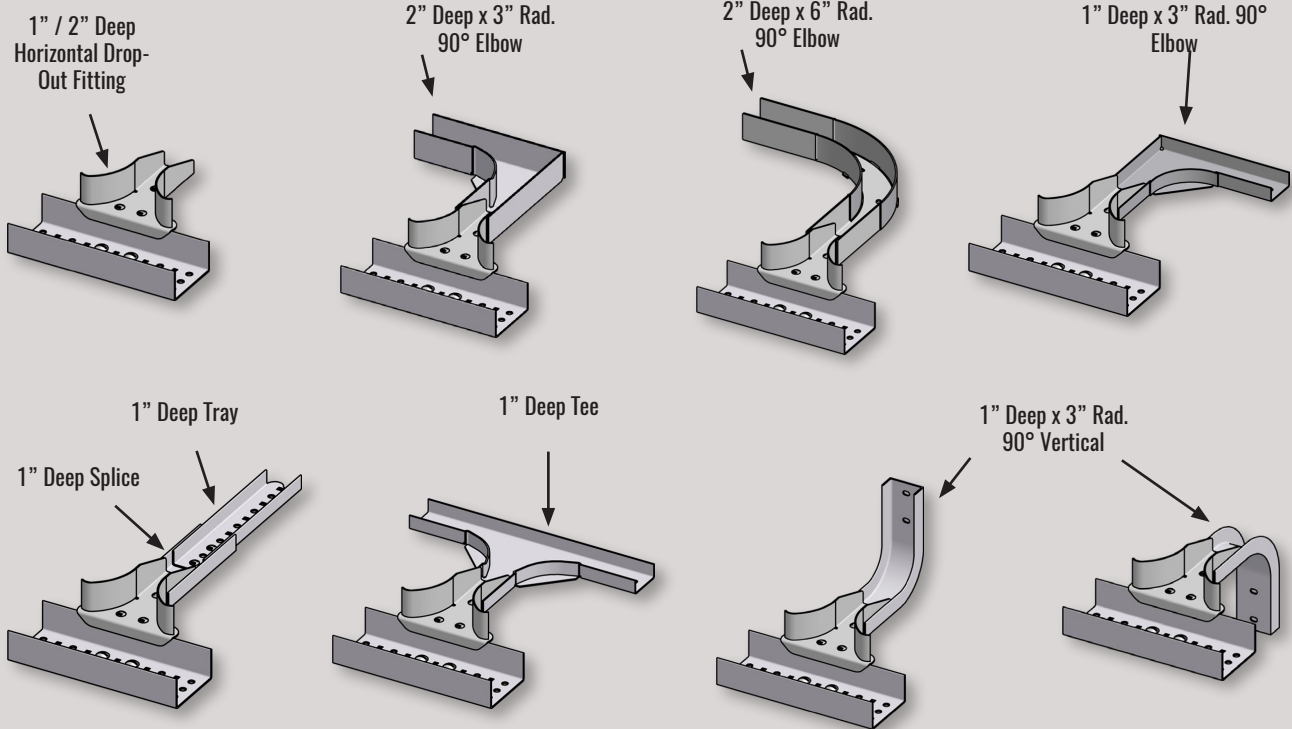
See pg. 31 for Horizontal Drop-Out Fitting for 1" deep tray

\* Same width as standard 2" wide TUBETRACK® tray. Use with any CABLE-RACE® or TUBETRACK® fitting.

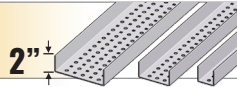
### Attachable Horizontal Drop-Out Fitting

- Drop-Out to an instrumentation station or work station
- Bolt directly to any 2" deep TUBETRACK® 2", 4", or 6" wide tray
- No need to cut or modify existing mainline tray
- Drop-Out at any point along the TUBETRACK® main line tray
- Extend using any 2" wide CABLE-RACE® or TUBETRACK® tray fitting
- Use single Drop-Out fitting with a TUBETRACK® fitting for desired configuration
- All TUBETRACK® fittings include required fasteners
- Includes mounting bracket and fasteners for connection to 2" deep tray
- Available in stainless steel - fits TUBETRACK® tray of any metal

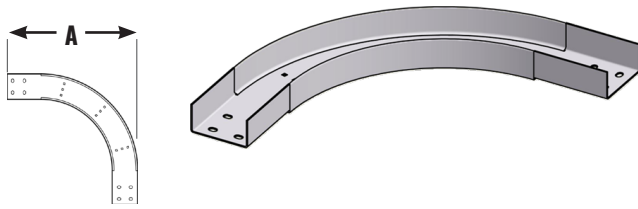
### Examples of possible configurations using this single fitting for each Drop-Out:



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**Elbow Channel**  
**90° Bend**  
**12" Min. Radius**

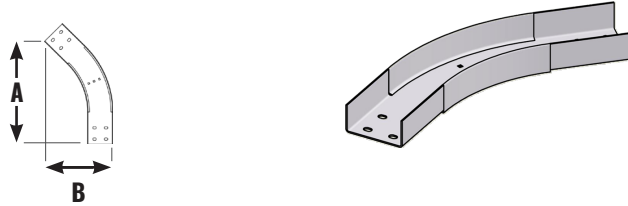


Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	EC2-GC2-R12D90	CV-E2 MG2 R12D90
Steel*	4	EC4-GC2-R12D90	CV-E4 MG2 R12D90
Steel*	6	EC6-GC2-R12D90	CV-E6 MG2 R12D90
Natural Finish Alum.	2	EC2-NA2-R12D90	CV-E2 NA2 R12D90
Alum.	4	EC4-NA2-R12D90	CV-E4 NA2 R12D90
Alum.	6	EC6-NA2-R12D90	CV-E6 NA2 R12D90
Stainless Steel	2	EC2-SS2 R12D90T4	CV-E2 SS2 R12D904
Steel	4	EC4-SS2 R12D90T4	CV-E4 SS2 R12D904
T-304	6	EC6-SS2 R12D90T4	CV-E6 SS2 R12D904
Stainless Steel	2	EC2-SS2 R12D90T6	CV-E2 SS2 R12D906
Steel	4	EC4-SS2 R12D90T6	CV-E4 SS2 R12D906
T-316	6	EC6-SS2 R12D90T6	CV-E6 SS2 R12D906

**A: 18.00" plus channel width**  
**Nominal Engagement: 3.5"**  
**Larger radii available (18", 24", etc.)**

**Elbow Channel**  
**45° Bend**  
**12" Min. Radius**

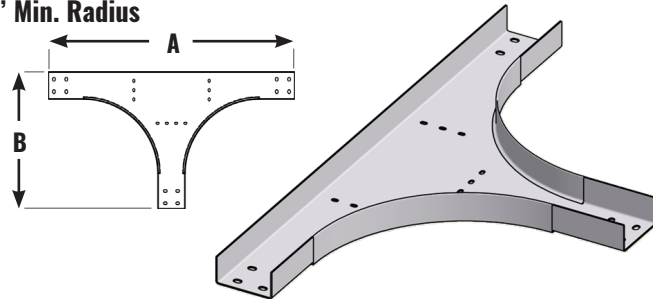


Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	EC2-GC2-R12D45	CV-E2 MG2 R12D45
Steel*	4	EC4-GC2-R12D45	CV-E4 MG2 R12D45
Steel*	6	EC6-GC2-R12D45	CV-E6 MG2 R12D45
Natural Finish Alum.	2	EC2-NA2-R12D45	CV-E2 NA2 R12D45
Alum.	4	EC4-NA2-R12D45	CV-E4 NA2 R12D45
Alum.	6	EC6-NA2-R12D45	CV-E6 NA2 R12D45
Stainless Steel	2	EC2-SS2 R12D45T4	CV-E2 SS2 R12D454
Steel	4	EC4-SS2 R12D45T4	CV-E4 SS2 R12D454
T-304	6	EC6-SS2 R12D45T4	CV-E6 SS2 R12D454
Stainless Steel	2	EC2-SS2 R12D45T6	CV-E2 SS2 R12D456
Steel	4	EC4-SS2 R12D45T6	CV-E4 SS2 R12D456
T-316	6	EC6-SS2 R12D45T6	CV-E6 SS2 R12D456

**A: 18.00" B: 8.0" plus channel width**  
**Nominal Engagement: 3.5"**  
**Larger radii available (18", 24", etc.)**

**Tee Channel**  
**90° Bend**  
**12" Min. Radius**

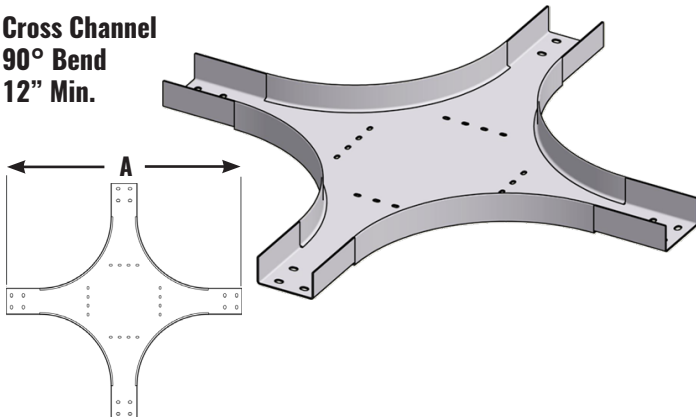


Includes 3/8" dia. bolting

Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	TC2-GC2-R12D90	CV-T2 MG2 R12D90
Steel*	4	TC4-GC2-R12D90	CV-T4 MG2 R12D90
Steel*	6	TC6-GC2-R12D90	CV-T6 MG2 R12D90
Natural Finish Alum.	2	TC2-NA2-R12D90	CV-T2 NA2 R12D90
Alum.	4	TC4-NA2-R12D90	CV-T4 NA2 R12D90
Alum.	6	TC6-NA2-R12D90	CV-T6 NA2 R12D90
Stainless Steel	2	TC2-SS2 R12D90T4	CV-T2 SS2 R12D904
Steel	4	TC4-SS2 R12D90T4	CV-T4 SS2 R12D904
T-304	6	TC6-SS2 R12D90T4	CV-T6 SS2 R12D904
Stainless Steel	2	TC2-SS2 R12D90T6	CV-T2 SS2 R12D906
Steel	4	TC4-SS2 R12D90T6	CV-T4 SS2 R12D906
T-316	6	TC6-SS2 R12D90T6	CV-T6 SS2 R12D906

**A: 35.5" plus channel width**  
**B: 18.0" plus channel width**  
**Nominal Engagement: 3.5"**  
**Larger radii available (18", 24", etc.)**

**Cross Channel**  
**90° Bend**  
**12" Min.**

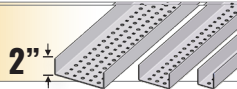


Includes 3/8" dia. bolting

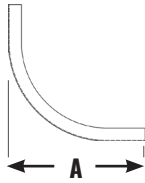
Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	KC2-GC2-R12D90	CV-K2 MG2 R12D90
Steel*	4	KC4-GC2-R12D90	CV-K4 MG2 R12D90
Steel*	6	KC6-GC2-R12D90	CV-K6 MG2 R12D90
Natural Finish Alum.	2	KC2-NA2-R12D90	CV-K2 NA2 R12D90
Alum.	4	KC4-NA2-R12D90	CV-K4 NA2 R12D90
Alum.	6	KC6-NA2-R12D90	CV-K6 NA2 R12D90
Stainless Steel	2	KC2-SS2 R12D90T4	CV-K2 SS2 R12D904
Steel	4	KC4-SS2 R12D90T4	CV-K4 SS2 R12D904
T-304	6	KC6-SS2 R12D90T4	CV-K6 SS2 R12D904
Stainless Steel	2	KC2-SS2 R12D90T6	CV-K2 SS2 R12D906
Steel	4	KC4-SS2 R12D90T6	CV-K4 SS2 R12D906
T-316	6	KC6-SS2 R12D90T6	CV-K6 SS2 R12D906

**A: 35.5" plus channel width**  
**Nominal Engagement: 3.5"**  
**Larger radii available (18", 24", etc.)**

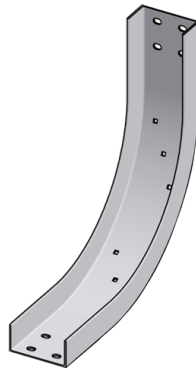
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**Inside Channel Vertical  
90° Bend  
14" Radius**



Includes 3/8" dia. bolting

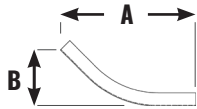


Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	ICV2-GC2-R14D90	CV-I2 MG2 R14D90
	4	ICV4-GC2-R14D90	CV-I4 MG2 R14D90
	6	ICV6-GC2-R14D90	CV-I6 MG2 R14D90
Steel*			
Natural Finish Alum.	2	ICV2-NA2-R14D90	CV-I2 NA2 R14D90
	4	ICV4-NA2-R14D90	CV-I4 NA2 R14D90
	6	ICV6-NA2-R14D90	CV-I6 NA2 R14D90
Stainless Steel	2	ICV2 SS2 R14D90T4	CV-I2 SS2 R14D904
	4	ICV4 SS2 R14D90T4	CV-I4 SS2 R14D904
	6	ICV6 SS2 R14D90T4	CV-I6 SS2 R14D904
T-304			
Stainless Steel	2	ICV2 SS2 R14D90T6	CV-I2 SS2 R14D906
	4	ICV4 SS2 R14D90T6	CV-I4 SS2 R14D906
	6	ICV6 SS2 R14D90T6	CV-I6 SS2 R14D906
T-316			

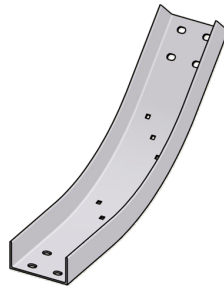
**A: 22.25"**  
**Nominal Engagement: 3.5"**  
**Larger radii available (18", 24", etc.)**



**Inside Channel Vertical  
45° Bend  
14" Radius**



Includes 3/8" dia. bolting

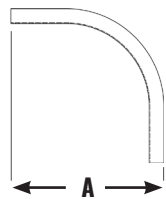


Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	ICV2-GC2-R14D45	CV-I2 MG2 R14D45
	4	ICV4-GC2-R14D45	CV-I4 MG2 R14D45
	6	ICV6-GC2-R14D45	CV-I6 MG2 R14D45
Steel*			
Natural Finish Alum.	2	ICV2-NA2-R14D45	CV-I2 NA2 R14D45
	4	ICV4-NA2-R14D45	CV-I4 NA2 R14D45
	6	ICV6-NA2-R14D45	CV-I6 NA2 R14D45
Stainless Steel	2	ICV2 SS2 R14D45T4	CV-I2 SS2 R14D454
	4	ICV4 SS2 R14D45T4	CV-I4 SS2 R14D454
	6	ICV6 SS2 R14D45T4	CV-I6 SS2 R14D454
T-304			
Stainless Steel	2	ICV2 SS2 R14D45T6	CV-I2 SS2 R14D456
	4	ICV4 SS2 R14D45T6	CV-I4 SS2 R14D456
	6	ICV6 SS2 R14D45T6	CV-I6 SS2 R14D456
T-316			

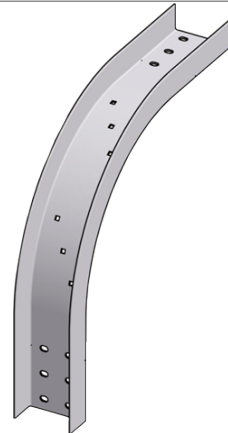
**A: 21.75" B: 9.0"**  
**Nominal Engagement: 3.5"**  
**Larger radii available (18", 24", etc.)**



**Outside Channel Vertical  
90° Bend  
12" Min. Radius**



Includes 3/8" dia. bolting

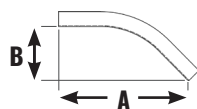


Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	OCV2-GC2-R12D90	CV-O2 MG2 R12D90
	4	OCV4-GC2-R12D90	CV-O4 MG2 R12D90
	6	OCV6-GC2-R12D90	CV-O6 MG2 R12D90
Steel*			
Natural Finish Alum.	2	OCV2-NA2-R12D90	CV-O2 NA2 R12D90
	4	OCV4-NA2-R12D90	CV-O4 NA2 R12D90
	6	OCV6-NA2-R12D90	CV-O6 NA2 R12D90
Stainless Steel	2	OCV2 SS2 R12D90T4	CV-O2 SS2 R12D904
	4	OCV4 SS2 R12D90T4	CV-O4 SS2 R12D904
	6	OCV6 SS2 R12D90T4	CV-O6 SS2 R12D904
T-304			
Stainless Steel	2	OCV2 SS2 R12D90T6	CV-O2 SS2 R12D906
	4	OCV4 SS2 R12D90T6	CV-O4 SS2 R12D906
	6	OCV6 SS2 R12D90T6	CV-O6 SS2 R12D906
T-316			

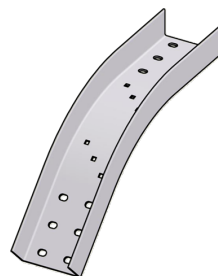
**A: 20.00"**  
**Nominal Engagement: 3.5" OR 5.5"**  
**Larger radii available (18", 24", etc.)**



**Outside Channel Vertical  
45° Bend  
12" Min. Radius**



Includes 3/8" dia. bolting



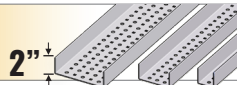
Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	OCV2-GC2-R12D45	CV-O2 MG2 R12D45
	4	OCV4-GC2-R12D45	CV-O4 MG2 R12D45
	6	OCV6-GC2-R12D45	CV-O6 MG2 R12D45
Steel*			
Natural Finish Alum.	2	OCV2-NA2-R12D45	CV-O2 NA2 R12D45
	4	OCV4-NA2-R12D45	CV-O4 NA2 R12D45
	6	OCV6-NA2-R12D45	CV-O6 NA2 R12D45
Stainless Steel	2	OCV2 SS2 R12D45T4	CV-O2 SS2 R12D454
	4	OCV4 SS2 R12D45T4	CV-O4 SS2 R12D454
	6	OCV6 SS2 R12D45T4	CV-O6 SS2 R12D454
T-304			
Stainless Steel	2	OCV2 SS2 R12D45T6	CV-O2 SS2 R12D456
	4	OCV4 SS2 R12D45T6	CV-O4 SS2 R12D456
	6	OCV6 SS2 R12D45T6	CV-O6 SS2 R12D456
T-316			

**A: 22.00" B: 9.0"**  
**Nominal Engagement: 3.5" or 5.5"**  
**Larger radii available (18", 24", etc.)**

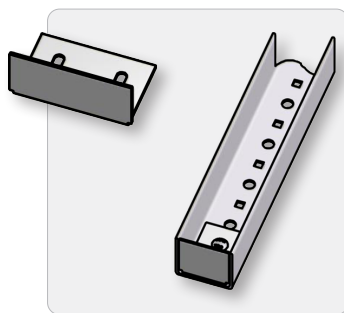
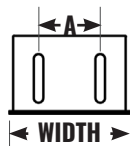


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**Channel End Cover**



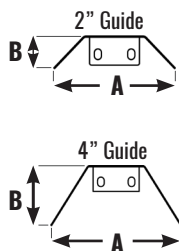
Includes 1/4" dia. bolting

Metal	Width	A	Part No.
Stainless	2	0	CVE-CH2SS2T4
Steel	4	2	CVE-CH4SS2T4
T-304	6	4	CVE-CH6SS2T4
Stainless	2	0	-
Steel	4	2	-
T-316	6	4	-

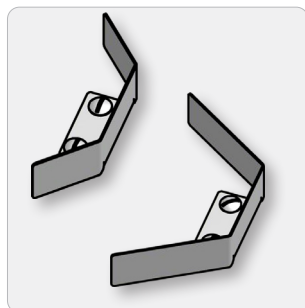
Channel End Covers are used where there is a requirement to enclose the end of a TUBETRACK® tray. TUBETRACK® End Covers are adjustable to make flush with the end of the tray.



**Reduction Guide**



Includes 3/8" dia. bolting

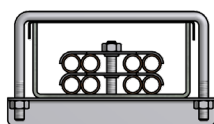
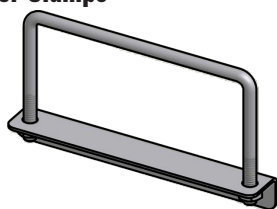


Metal	Width	A	B	Part No.
Stainless	2	7.3"	2"	REG2SS2-T4RHLH
Steel	4	8.5"	4"	REG4SS2-T4RHLH
T-304	6	8.5"	4"	-
Stainless	2	7.3"	2"	-
Steel	4	8.5"	4"	-
T-316	6	8.5"	4"	-

Use with standard TUBETRACK® splice fittings. Reduction Guides are adjustable to a desired flange alignment. Each deflector can be used for either right hand or left hand reduction. Fasteners included with each Reduction Guide.



**Channel & Fitting Cover Clamps**



- Clamp: CCC4-SS4-2
- Channel: 4" x 2"

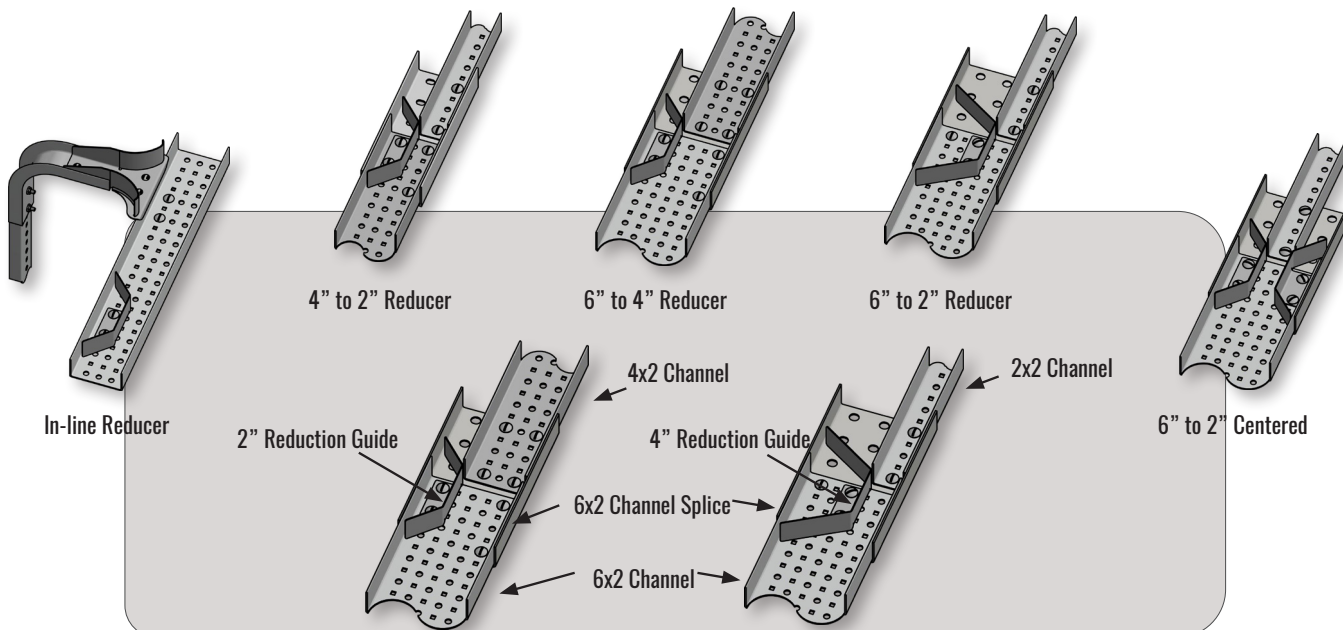
Sold Separately from Cover

Channel Width	Channel Depth	Part No. Cover Clamp for Channel	Part No. Cover Clamp for Fittings
2	2	CCC2-SS4-2	FCC2-SS4-2
4		CCC4-SS4-2	FCC4-SS4-2
6		CCC6-SS4-2	FCC6-SS4-2

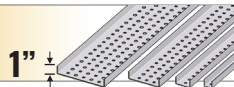
Four piece set includes base, U-bolt, and two hex flange nuts, all in 300 series stainless steel. Straight length covers (10 ft. and 12 ft. long) usually require three Channel Cover Clamps ("CCC"), and fitting covers usually require one Fitting Cover Clamp ("FCC") per end. Bases are marked with "C" or "F" to indicate Channel or Fitting.

Also available in 316 Stainless Steel - contact Factory.

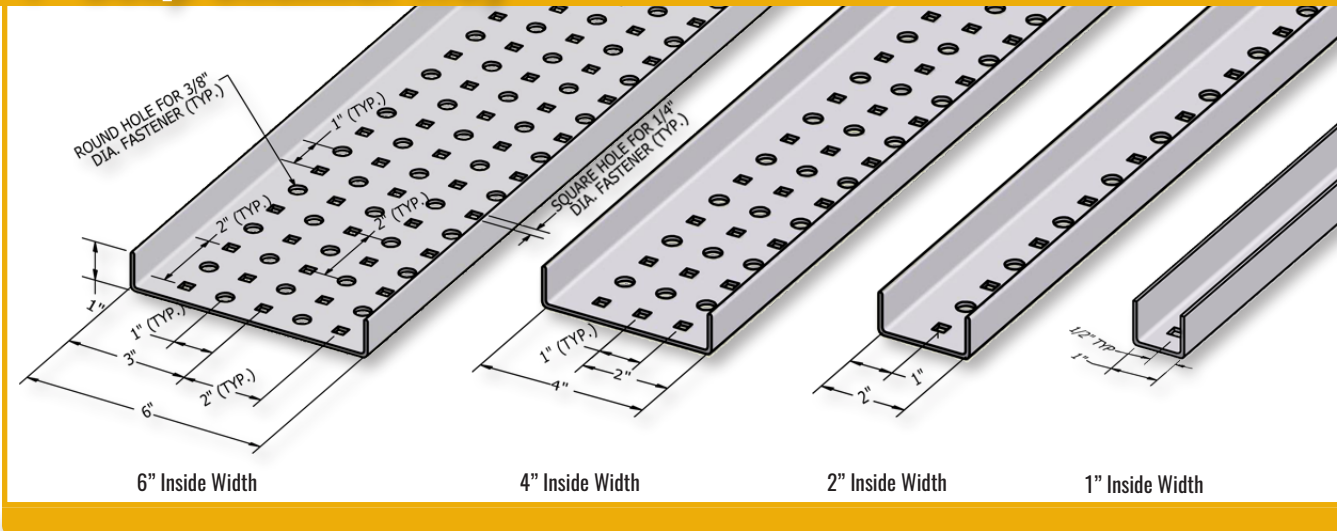
**Examples of Reduction Options:**



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# 1" Deep Channel Tray



## Channel Tray - 1" Deep

1" deep TUBETRACK® channel tray matches the widths and metals of our heavier 2" deep channel tray. Metal gages are lighter for some of the 1" deep channel members. Channel tray details are shown for standard part numbers, materials, widths, lengths, gages, and covers.

The punch patterns for 1" deep and 2" deep channel trays are identical, except that the initial hole for 1" deep channel is a square hole for a 1/4" dia. fastener to match the hole pattern of TUBETRACK® splice and bend fittings. The hole pattern in 1" deep TUBETRACK® channel is compatible with 2" deep fittings by using round holes and the 3/8" dia. fasteners provided with each TUBETRACK® 2" deep fitting.

See page 50 for Load and Deflection information.

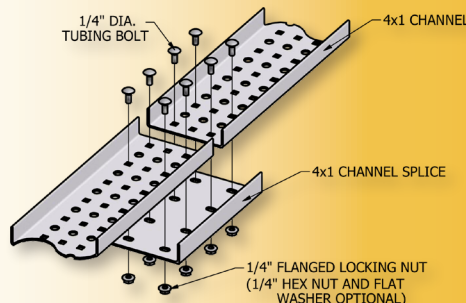
**NOTE: 1" wide Stainless Steel TUBETRACK® is not UL Classified.**

Metal	Width	Channel Tray Part No.	Chan. Gage	Chan. Length	Cover Part No.	Cover Length
Hot-Dip Galv. Steel*	1	CH1-GC1	14		CV-CH1-MG	
	2	CH2-GC1	14	20'	CV-CH2-MG	10'
	4	CH4-GC1	14		CV-CH4-MG	
	6	CH6-GC1-144	14	12'	CV-CH6-MG-144	12'
Natural Finish Alum.	1	CH1-NA1	14	20'	CV-CH1-NA	10'
	2	CH2-NA1-144			CV-CH2-NA	
	4	CH4-NA1-144	14	12'	CV-CH4-NA	12'
	6	CH6-NA1-144			CV-CH6-NA-144	
Stainless Steel T-304	1	CH1-SS1T4-144-6			CV-CH1-SS4-144	
	2	CH2-SS1T4-144-6			CV-CH2-SS4-144	
	4	CH4-SS1T4-144-6	16	12'	CV-CH4-SS4-144	12'
	6	CH6-SS1T4-144-6			CV-CH6-SS4-144	
Stainless Steel T-316	1	CH1-SS1T6-144-6			CV-CH1-SS6-144	
	2	CH2-SS1T6-144-6			CV-CH2-SS6-144	
	4	CH4-SS1T6-144-6	16	12'	CV-CH4-SS6-144	12'
	6	CH6-SS1T6-144-6			CV-CH6-SS6-144	

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Structural connections for 1" deep TUBETRACK® tray, splices, and bends are provided with 1/4" dia. bolt sets (JCWCO tubing bolts with flanged locking nuts). Tubing bolts with hex nuts and flat washers are optional upon request. Bolt sets are supplied with all TUBETRACK® splices and bends. Standard fastener metals include:

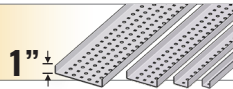
- Zinc-plated bolts with galvanized fittings
- 18-8 stainless bolts with aluminum fittings
- 18-8 stainless bolts with 304 SS fittings
- 316 stainless bolts with 316 SS fittings



### Bolted Connections

Drawing shows JCWCO standard splice connection for 1" deep channels. Bolts are JCWCO standard 1/4"-20 tubing bolts, 0.50" long with special short carriage square that fits the square holes of the channel.

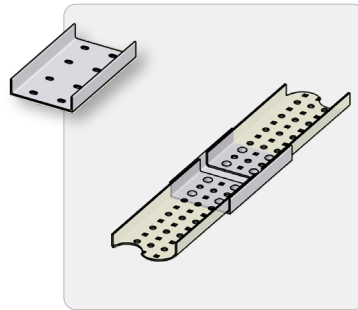
TUBETRACK® uses only tightenable fasteners to secure tray connections and maintain the conductivity necessary for UL classification. Bolt sets are supplied with each TUBETRACK® splice and bend. Stainless Steel bolting is standard with aluminum TUBETRACK®. Stainless Steel bolting is optional with galvanized TUBETRACK® for an additional cost. Contact factory for additional information.



**Channel Splice**



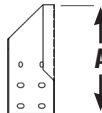
Includes 1/4" dia. bolting



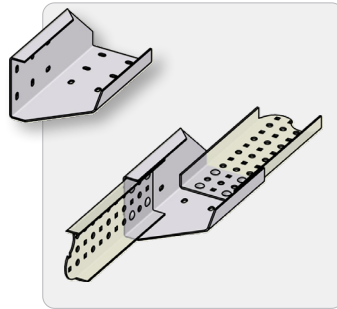
Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel*	1	SC1-GC1	CV-S1MG1
	2	SC2-GC1	CV-S2MG1
	4	SC4-GC1	CV-S4MG1
Natural Finish Alum.	1	SC1-NA1	CV-S1NA1
	2	SC2-NA1	CV-S2NA1
	4	SC4-NA1	CV-S4NA1
Stainless Steel T-304	1	SC1-SS1T4	CV-S1SS1T4
	2	SC2-SS1T4	CV-S2SS1T4
	4	SC4-SS1T4	CV-S4SS1T4
Stainless Steel T-316	1	SC1-SS1T6	CV-S1SS1T6
	2	SC2-SS1T6	CV-S2SS1T6
	4	SC4-SS1T6	CV-S4SS1T6

**A: 7.88"**  
**Nominal Engagement: 3.5"**

**Transition Splice Right Hand**



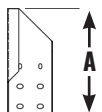
Includes 3/8" dia. bolting (same part as 2" deep, pg. 15). Cut channels so that round holes are on the end of the channel.



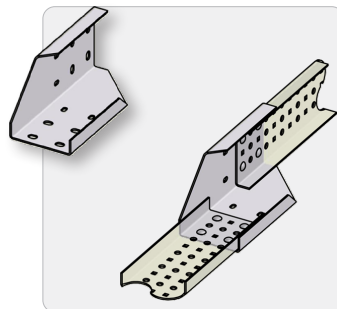
Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel*	2	SCT2-GC2-RH	-
	4	SCT4-GC2-RH	-
	6	SCT6-GC2-RH	-
Natural Finish Alum.	2	SCT2-NA2-RH	-
	4	SCT4-NA2-RH	-
	6	SCT6-NA2-RH	-
Stainless Steel T-304	2	SCT2-SS2T4-RH	-
	4	SCT4-SS2T4-RH	-
	6	SCT6-SS2T4-RH	-
Stainless Steel T-316	2	SCT2-SS2T6-RH	-
	4	SCT4-SS2T6-RH	-
	6	SCT6-SS2T6-RH	-

**A: 10.50"**  
**Nominal Engagement: 3.5"**  
 Transition Splices are marked with "L" or "R" to indicate Left or Right

**Transition Splice Left Hand**

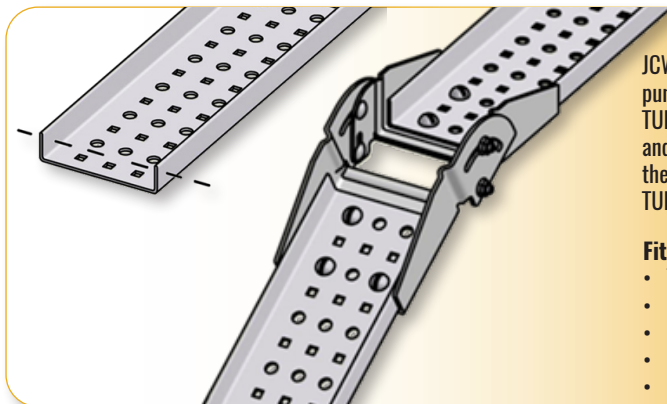


Includes 3/8" dia. bolting (same part as 2" deep, pg. 15). Cut channels so that round holes are on the end of the channel.



Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel*	2	SCT2-GC2-LH	-
	4	SCT4-GC2-LH	-
	6	SCT6-GC2-LH	-
Natural Finish Alum.	2	SCT2-NA2-LH	-
	4	SCT4-NA2-LH	-
	6	SCT6-NA2-LH	-
Stainless Steel T-304	2	SCT2-SS2T4-LH	-
	4	SCT4-SS2T4-LH	-
	6	SCT6-SS2T4-LH	-
Stainless Steel T-316	2	SCT2-SS2T6-LH	-
	4	SCT4-SS2T6-LH	-
	6	SCT6-SS2T6-LH	-

**A: 10.50"**  
**Nominal Engagement: 3.5"**  
 Transition Splices are marked with "L" or "R" to indicate Left or Right

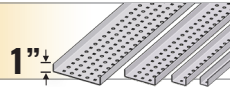


**Matching Punch Patterns (1" and 2" deep channels)**

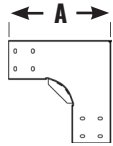
JCWCO 1" deep channels will fit with splices and bends for 2" deep channels. The punch patterns of the two tray depths are the same except for the starting holes in TUBETRACK® stock tray sections. To connect 1" deep channels to 2" deep splices and bends with 3/8" bolting, cut 1" deep tray channels so that round holes are on the connecting ends to accommodate the 3/8" bolting provided with the specific TUBETRACK® fitting.

**Fittings with universal 3/8" bolting include:**

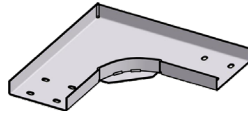
- Transition splices
- Vertical adjustable bends (shown left)
- Horizontal adjustable bends
- 6" or 12" radius bends
- Special 18", 24" or larger radius bends



**Elbow Channel**  
**90° Bend**  
**3" Min. Radius**



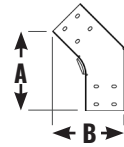
Includes 1/4" dia. bolting



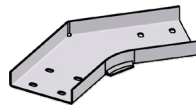
Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel*	1	EC1-GC1-R3D90	-
	2	EC2-GC1-R3D90	CV-E2MG2 R3D90
	4	EC4-GC1-R3D90	CV-E4MG2 R3D90
	6	EC6-GC1-R3D90	CV-E6MG2 R3D90
Natural Finish Alum.	1	EC1-NA1-R3D90	-
	2	EC2-NA1-R3D90	CV-E2NA2 R3D90
	4	EC4-NA1-R3D90	CV-E4NA2 R3D90
	6	EC6-NA1-R3D90	CV-E6NA2 R3D90
Stainless Steel T-304	1	EC1-SS1-R3D90T4	-
	2	EC2-SS1-R3D90T4	CV-E2SS2 R3D90T4
	4	EC4-SS1-R3D90T4	CV-E4SS2 R3D90T4
	6	EC6-SS1-R3D90T4	CV-E6SS2 R3D90T4
Stainless Steel T-316	1	EC1-SS1-R3D90T6	-
	2	EC2-SS1-R3D90T6	CV-E2SS2 R3D90T6
	4	EC4-SS1-R3D90T6	CV-E4SS2 R3D90T6
	6	EC6-SS1-R3D90T6	CV-E6SS2 R3D90T6

**A: 7.25" plus channel width**  
**Nominal Engagement: 3.5"**

**Elbow Channel**  
**45° Bend**  
**3" Min. Radius**



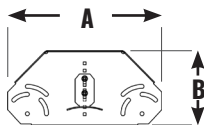
Includes 1/4" dia. bolting



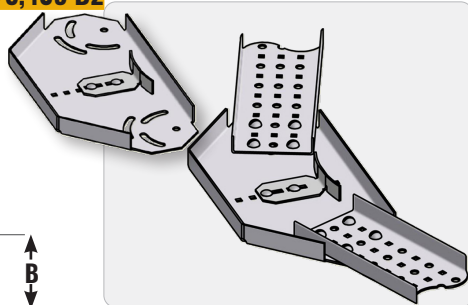
Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel*	1	EC1-GC1-R3D45	-
	2	EC2-GC1-R3D45	CV-E2MG2 R3D45
	4	EC4-GC1-R3D45	CV-E4MG2 R3D45
	6	EC6-GC1-R3D45	CV-E6MG2 R3D45
Natural Finish Alum.	1	EC1-NA1-R3D45	-
	2	EC2-NA1-R3D45	CV-E2NA2 R3D45
	4	EC4-NA1-R3D45	CV-E4NA2 R3D45
	6	EC6-NA1-R3D45	CV-E6NA2 R3D45
Stainless Steel T-304	1	EC1-SS1-R3D45T4	-
	2	EC2-SS1-R3D45T4	CV-E2SS2 R3D45T4
	4	EC4-SS1-R3D45T4	CV-E4SS2 R3D45T4
	6	EC6-SS1-R3D45T4	CV-E6SS2 R3D45T4
Stainless Steel T-316	1	EC1-SS1-R3D45T6	-
	2	EC2-SS1-R3D45T6	CV-E2SS2 R3D45T6
	4	EC4-SS1-R3D45T6	CV-E4SS2 R3D45T6
	6	EC6-SS1-R3D45T6	CV-E6SS2 R3D45T6

**A: 8.9"      B: 4.0" plus channel width**  
**Nominal Engagement: 3.5"**

**Horizontal Elbow**  
**Adjustable Bend (0-90°)**  
**Patent No.: US 8,573,409 B2**  
**3" Min. Radius**



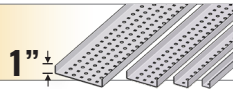
Includes 3/8" dia. bolts and locking nuts. Cut tray channels so that round holes are on the connecting ends.



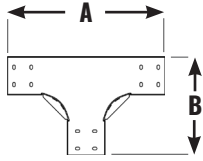
Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel	1	EC1-GC1-R3DA	-
	2	EC2-GC1-R3DA	-
	4	EC4-GC1-R3DA	-
	6	EC6-GC1-R3DA	-
Natural Finish Alum.	1	EC1-NA1-R3DA	-
	2	EC2-NA1-R3DA	-
	4	EC4-NA1-R3DA	-
	6	EC6-NA1-R3DA	-
Stainless Steel T-304	1	EC1-SS1-R3DAT4	-
	2	EC2-SS1-R3DAT4	-
	4	EC4-SS1-R3DAT4	-
	6	EC6-SS1-R3DAT4	-
Stainless Steel T-316	1	EC1-SS1-R3DAT6	-
	2	EC2-SS1-R3DAT6	-
	4	EC4-SS1-R3DAT6	-
	6	EC6-SS1-R3DAT6	-

**2" Width Tray: A = 11", B = 7" (nominal dim.)**  
**4" Width Tray: A = 14", B = 8" (nominal dim.)**  
**6" Width Tray: A = 14", B = 10" (nominal dim.)**  
**Nominal Engagement: 3.5"**

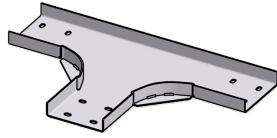




**Tee Channel**  
**90° Bend**  
**3" Min. Radius**



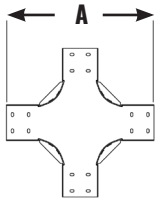
Includes 1/4" dia. bolting



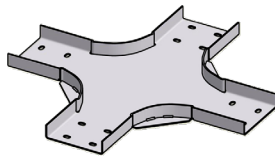
Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel*	1	TC1-GC1-R3D90	-
	2	TC2-GC1-R3D90	CV-T2MG2 R3D90
	4	TC4-GC1-R3D90	CV-T4MG2 R3D90
	6	TC6-GC1-R3D90	CV-T6MG2 R3D90
Natural Finish Alum.	1	TC1-NA1-R3D90	-
	2	TC2-NA1-R3D90	CV-T2NA2 R3D90
	4	TC4-NA1-R3D90	CV-T4NA2 R3D90
	6	TC6-NA1-R3D90	CV-T6NA2 R3D90
Stainless Steel T-304	1	TC1-SS1-R3D90T4	-
	2	TC2-SS1-R3D90T4	CV-T2SS2 R3D90T4
	4	TC4-SS1-R3D90T4	CV-T4SS2 R3D90T4
	6	TC6-SS1-R3D90T4	CV-T6SS2 R3D90T4
Stainless Steel T-316	1	TC1-SS1-R3D90T6	-
	2	TC2-SS1-R3D90T6	CV-T2SS2 R3D90T6
	4	TC4-SS1-R3D90T6	CV-T4SS2 R3D90T6
	6	TC6-SS1-R3D90T6	CV-T6SS2 R3D90T6

**A: 14.25" plus channel width**  
**B: 7.25" plus channel width**  
**Nominal Engagement: 3.5"**

**Cross Channel**  
**90° Bend**  
**3" Min. Radius**



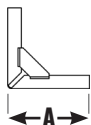
Includes 1/4" dia. bolting



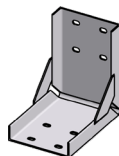
Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel*	1	KC1-GC1-R3D90	-
	2	KC2-GC1-R3D90	CV-K2MG2 R3D90
	4	KC4-GC1-R3D90	CV-K4MG2 R3D90
	6	KC6-GC1-R3D90	CV-K6MG2 R3D90
Natural Finish Alum.	1	KC1-NA1-R3D90	-
	2	KC2-NA1-R3D90	CV-K2NA2 R3D90
	4	KC4-NA1-R3D90	CV-K4NA2 R3D90
	6	KC6-NA1-R3D90	CV-K6NA2 R3D90
Stainless Steel T-304	1	KC1-SS1-R3D90T4	-
	2	KC2-SS1-R3D90T4	CV-K2SS2 R3D90T4
	4	KC4-SS1-R3D90T4	CV-K4SS2 R3D90T4
	6	KC6-SS1-R3D90T4	CV-K6SS2 R3D90T4
Stainless Steel T-316	1	KC1-SS1-R3D90T6	-
	2	KC2-SS1-R3D90T6	CV-K2SS2 R3D90T6
	4	KC4-SS1-R3D90T6	CV-K4SS2 R3D90T6
	6	KC6-SS1-R3D90T6	CV-K6SS2 R3D90T6

**A: 14.25" plus channel width**  
**Nominal Engagement: 3.5"**

**Square Inside Channel Vertical**  
**90° Bend**  
**0-3" Radius**



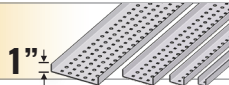
Includes 1/4" dia. bolting



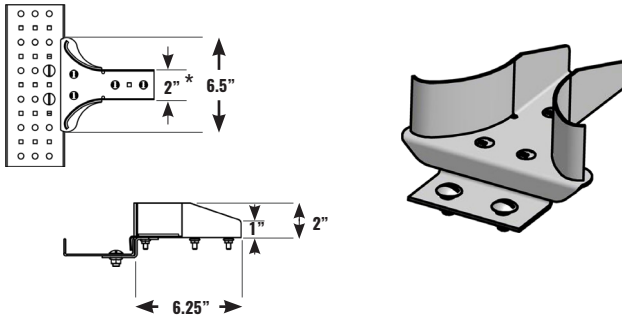
Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel*	1	SICV1-GC1-D90	-
	2	SICV2-GC1-D90	CV-I2MG2 R3D90
	4	SICV4-GC1-D90	CV-I4MG2 R3D90
	6	SICV6-GC1-D90	CV-I6MG2 R3D90
Natural Finish Alum.	1	SICV1-NA1-D90	-
	2	SICV2-NA1-D90	CV-I2NA2 R3D90
	4	SICV4-NA1-D90	CV-I4NA2 R3D90
	6	SICV6-NA1-D90	CV-I6NA2 R3D90
Stainless Steel T-304	1	SICV1-SS1-D90T4	-
	2	SICV2-SS1-D90T4	CV-I2SS2 R3D90T4
	4	SICV4-SS1-D90T4	CV-I4SS2 R3D90T4
	6	SICV6-SS1-D90T4	CV-I6SS2 R3D90T4
Stainless Steel T-316	1	SICV1-SS1-D90T6	-
	2	SICV2-SS1-D90T6	CV-I2SS2 R3D90T6
	4	SICV4-SS1-D90T6	CV-I4SS2 R3D90T6
	6	SICV6-SS1-D90T6	CV-I6SS2 R3D90T6

**A: 6.5"**  
**Nominal Engagement: 3.5"**





**Horizontal Drop-Out Fitting**



Metal	Width	Part No.
Stainless Steel T-304	2	DHC2-SS2-1T4
Stainless Steel T-316		-

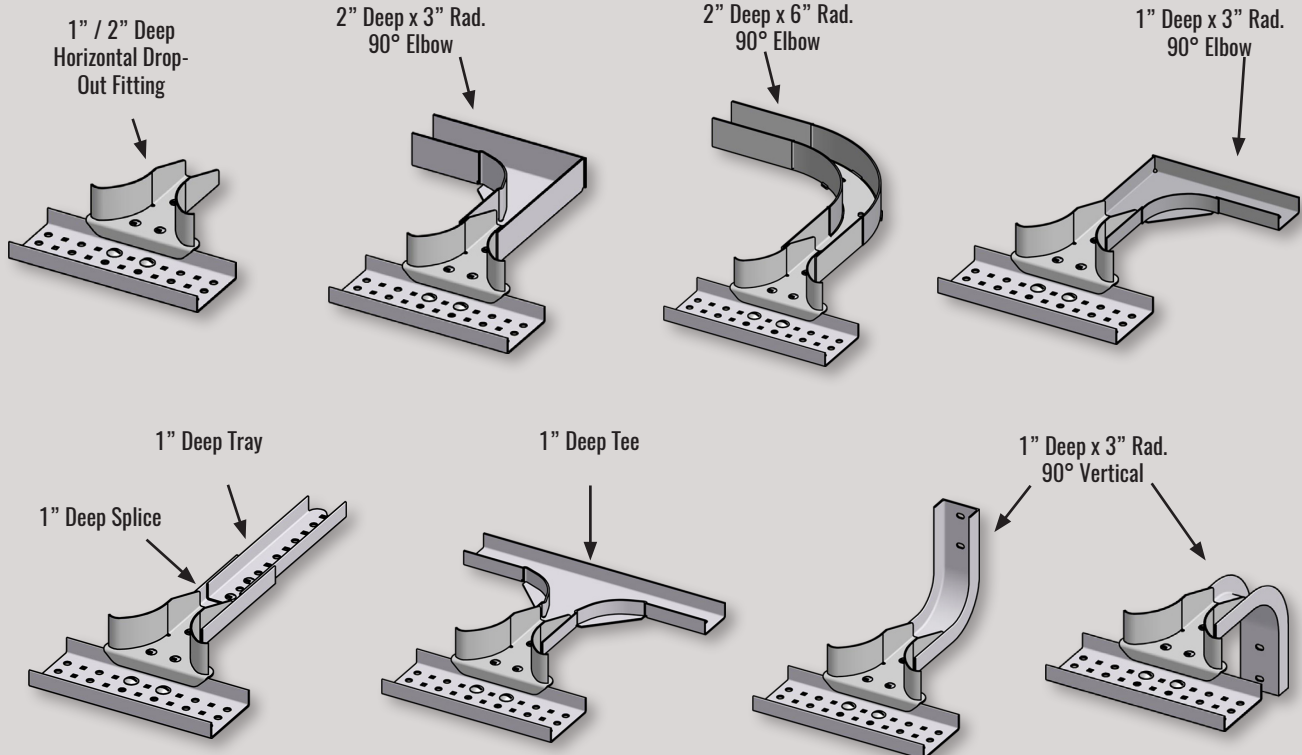
**Nominal Engagement: 3.5"**  
See pg. 23 for Horizontal Drop-Out Fitting for 2" deep tray

\* Same width as standard 2" wide TUBETRACK® tray. Use with any CABLE-RACE® or TUBETRACK® fitting.

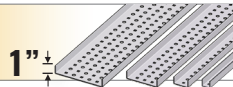
**Attachable Horizontal Drop-Out Fitting**

- Drop-Out to an instrumentation station or work station
- Bolt directly to any 1" deep TUBETRACK® 2", 4", or 6" wide tray
- No need to cut or modify existing mainline tray
- Drop-Out at any point along the TUBETRACK® main line tray
- Extend using any 2" wide CABLE-RACE® or TUBETRACK® tray fitting
- Use single Drop-Out fitting with a TUBETRACK® fitting for desired configuration
- All TUBETRACK® fittings include required fasteners
- Includes mounting bracket and fasteners for connection to 1" deep tray
- Available in stainless steel - fits TUBETRACK® tray of any metal

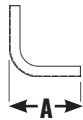
**Examples of possible configurations using this single fitting for each Drop-Out:**



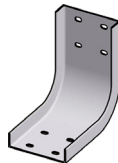
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**Inside Channel Vertical  
90° Bend  
3" Radius**



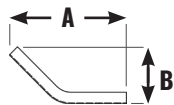
Includes 1/4" dia. bolting



Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel*	1	ICV1-GC1-R3D90	-
	2	ICV2-GC1-R3D90	CV-I2MG1 R3D90
	4	ICV4-GC1-R3D90	CV-I4MG1 R3D90
	6	ICV6-GC1-R3D90	CV-I6MG1 R3D90
Natural Finish Alum.	1	ICV1-NA1-R3D90	-
	2	ICV2-NA1-R3D90	CV-I2NA1 R3D90
	4	ICV4-NA1-R3D90	CV-I4NA1 R3D90
	6	ICV6-NA1-R3D90	CV-I6NA1 R3D90
Stainless Steel T-304	1	ICV1-SS1 R3D90T4	-
	2	ICV2-SS1 R3D90T4	CV-I2SS1 R3D90T4
	4	ICV4-SS1 R3D90T4	CV-I4SS1 R3D90T4
	6	ICV6-SS1 R3D90T4	CV-I6SS1 R3D90T4
Stainless Steel T-316	1	ICV1-SS1 R3D90T6	-
	2	ICV2-SS1 R3D90T6	CV-I2SS1 R3D90T6
	4	ICV4-SS1 R3D90T6	CV-I4SS1 R3D90T6
	6	ICV6-SS1 R3D90T6	CV-I6SS1 R3D90T6

**A: 7.25"**  
**Nominal Engagement: 3.5"**

**Inside Channel Vertical  
45° Bend  
3" Radius**



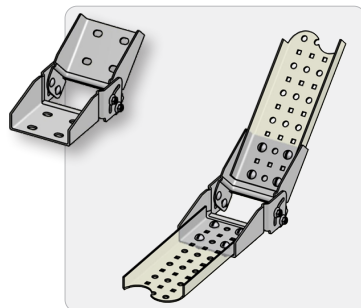
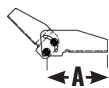
Includes 1/4" dia. bolting



Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel*	1	ICV1-GC1-R3D45	-
	2	ICV2-GC1-R3D45	CV-I2MG1 R3D45
	4	ICV4-GC1-R3D45	CV-I4MG1 R3D45
	6	ICV6-GC1-R3D45	CV-I6MG1 R3D45
Natural Finish Alum.	1	ICV1-NA1-R3D45	-
	2	ICV2-NA1-R3D45	CV-I2NA1 R3D45
	4	ICV4-NA1-R3D45	CV-I4NA1 R3D45
	6	ICV6-NA1-R3D45	CV-I6NA1 R3D45
Stainless Steel T-304	1	ICV1-SS1 R3D45T4	-
	2	ICV2-SS1 R3D45T4	CV-I2SS1 R3D45T4
	4	ICV4-SS1 R3D45T4	CV-I4SS1 R3D45T4
	6	ICV6-SS1 R3D45T4	CV-I6SS1 R3D45T4
Stainless Steel T-316	1	ICV1-SS1 R3D45T6	-
	2	ICV2-SS1 R3D45T6	CV-I2SS1 R3D45T6
	4	ICV4-SS1 R3D45T6	CV-I4SS1 R3D45T6
	6	ICV6-SS1 R3D45T6	CV-I6SS1 R3D45T6

**A: 10.75"**      **B: 4.5"**  
**Nominal Engagement: 3.5"**

**Inside Channel Vertical  
Adjustable Bend (0-90°)  
Patent No.: US 8,167,250 B2**



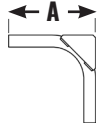
Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel	2	ICV2-GC2-DA	-
	4	ICV4-GC2-DA	-
	6	ICV6-GC2-DA	-
Natural Finish Alum.	2	ICV2-NA2-DA	-
	4	ICV4-NA2-DA	-
	6	ICV6-NA2-DA	-
Stainless Steel T-304	2	ICV2-SS2-DAT4	-
	4	ICV4-SS2-DAT4	-
	6	ICV6-SS2-DAT4	-
Stainless Steel T-316	2	ICV2-SS2-DAT6	-
	4	ICV4-SS2-DAT6	-
	6	ICV6-SS2-DAT6	-

**A: 6"**  
**Nominal Engagement: 3.5"**

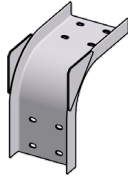
Includes 3/8" dia. bolting (same part as 2" deep, page 20). Cut channels so that round holes are on the connecting end.



**Square Outside Channel Vertical  
90° Bend  
0-3" Radius**



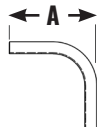
Includes 1/4" dia. bolting



Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel*	1	SOCV1-GC1-R3D90	-
	2	SOCV2-GC1-R3D90	CV-O2MG2 R3D90
	4	SOCV4-GC1-R3D90	CV-O4MG2 R3D90
	6	SOCV6-GC1-R3D90	CV-O6MG2 R3D90
Natural Finish Alum.	1	SOCV1-NA1-R3D90	-
	2	SOCV2-NA1-R3D90	CV-O2NA2 R3D90
	4	SOCV4-NA1-R3D90	CV-O4NA2 R3D90
	6	SOCV6-NA1-R3D90	CV-O6NA2 R3D90
Stainless Steel T-304	1	SOCV1 SS1 R3D90T4	-
	2	SOCV2 SS1 R3D90T4	CV-O2SS2 R3D90T4
	4	SOCV4 SS1 R3D90T4	CV-O4SS2 R3D90T4
	6	SOCV6 SS1 R3D90T4	CV-O6SS2 R3D90T4
Stainless Steel T-316	1	SOCV1 SS1 R3D90T6	-
	2	SOCV2 SS1 R3D90T6	CV-O2SS2 R3D90T6
	4	SOCV4 SS1 R3D90T6	CV-O4SS2 R3D90T6
	6	SOCV6 SS1 R3D90T6	CV-O6SS2 R3D90T6

**A: 8.0"**  
**Nominal Engagement: 3.5"**

**Outside Channel Vertical  
90° Bend  
3" Min. Radius**



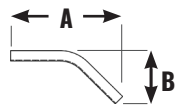
Includes 1/4" dia. bolting



Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel*	1	OCV1-GC1-R3D90	-
	2	OCV2-GC1-R3D90	CV-O2MG1 R3D90
	4	OCV4-GC1-R3D90	CV-O4MG1 R3D90
	6	OCV6-GC1-R3D90	CV-O6MG1 R3D90
Natural Finish Alum.	1	OCV1-NA1-R3D90	-
	2	OCV2-NA1-R3D90	CV-O2NA1 R3D90
	4	OCV4-NA1-R3D90	CV-O4NA1 R3D90
	6	OCV6-NA1-R3D90	CV-O6NA1 R3D90
Stainless Steel T-304	1	OCV1-SS1 R3D90T4	-
	2	OCV2-SS1 R3D90T4	CV-O2SS1 R3D90T4
	4	OCV4-SS1 R3D90T4	CV-O4SS1 R3D90T4
	6	OCV6-SS1 R3D90T4	CV-O6SS1 R3D90T4
Stainless Steel T-316	1	OCV1-SS1 R3D90T6	-
	2	OCV2-SS1 R3D90T6	CV-O2SS1 R3D90T6
	4	OCV4-SS1 R3D90T6	CV-O4SS1 R3D90T6
	6	OCV6-SS1 R3D90T6	CV-O6SS1 R3D90T6

**A: 8.0"**  
**Nominal Engagement: 3.5"**

**Outside Channel Vertical  
45° Bend  
3" Min. Radius**



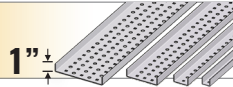
Includes 1/4" dia. bolting



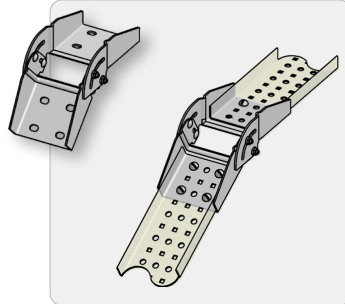
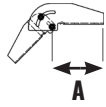
Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv. Steel*	1	OCV1-GC1-R3D45	-
	2	OCV2-GC1-R3D45	CV-O2MG1 R3D45
	4	OCV4-GC1-R3D45	CV-O4MG1 R3D45
	6	OCV6-GC1-R3D45	CV-O6MG1 R3D45
Natural Finish Alum.	1	OCV1-NA1-R3D45	-
	2	OCV2-NA1-R3D45	CV-O2NA1 R3D45
	4	OCV4-NA1-R3D45	CV-O4NA1 R3D45
	6	OCV6-NA1-R3D45	CV-O6NA1 R3D45
Stainless Steel T-304	1	OCV1-SS1 R3D45T4	-
	2	OCV2-SS1 R3D45T4	CV-O2SS1 R3D45T4
	4	OCV4-SS1 R3D45T4	CV-O4SS1 R3D45T4
	6	OCV6-SS1 R3D45T4	CV-O6SS1 R3D45T4
Stainless Steel T-316	1	OCV1-SS1 R3D45T6	-
	2	OCV2-SS1 R3D45T6	CV-O2SS1 R3D45T6
	4	OCV4-SS1 R3D45T6	CV-O4SS1 R3D45T6
	6	OCV6-SS1 R3D45T6	CV-O6SS1 R3D45T6

**A: 11.75"**      **B: 4.5"**  
**Nominal Engagement: 3.5"**

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**Outside Channel Vertical Adjustable Bend (0-90°)**  
**Patent No.: US 8,167,250 B2**



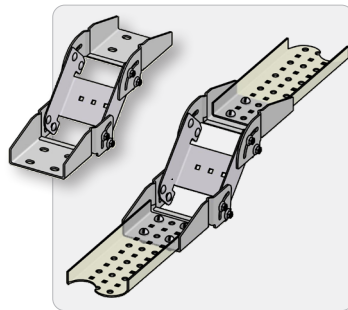
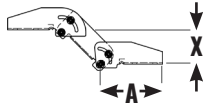
Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	OCV2-GC2-DA	-
	4	OCV4-GC2-DA	-
	6	OCV6-GC2-DA	-
Natural Finish Alum.	2	OCV2-NA2-DA	-
	4	OCV4-NA2-DA	-
	6	OCV6-NA2-DA	-
Stainless Steel T-304	2	OCV2-SS2-DAT4	-
	4	OCV4-SS2-DAT4	-
	6	OCV6-SS2-DAT4	-
Stainless Steel T-316	2	OCV2-SS2-DAT6	-
	4	OCV4-SS2-DAT6	-
	6	OCV6-SS2-DAT6	-

**A: 5.25"**  
**Nominal Engagement: 3.5"**



Includes 3/8" dia. bolting (same part as 2" deep, page 21). Cut channels so that round holes are on the connecting end.

**Offset Channel Vertical Adjustable Bend (0-90°)**  
**Patent No.: US 8,167,250 B2**



Metal	Width	Part No.	Cover Part No.
Hot-Dip Galv.	2	OCV2-GC2-DDA5	-
	4	OCV4-GC2-DDA5	-
	6	OCV6-GC2-DDA5	-
Natural Finish Alum.	2	OCV2-NA2-DDA5	-
	4	OCV4-NA2-DDA5	-
	6	OCV6-NA2-DDA5	-
Stainless Steel T-304	2	OCV2-SS2-DDA5T4	-
	4	OCV4-SS2-DDA5T4	-
	6	OCV6-SS2-DDA5T4	-
Stainless Steel T-316	2	OCV2-SS2-DDA5T6	-
	4	OCV4-SS2-DDA5T6	-
	6	OCV6-SS2-DDA5T6	-

**A: 6"**  
**Nominal Engagement: 3.5"**  
**X: Offset at 45° (shown) 3.25"**  
**Max. offset (bends at 90°) 5"**

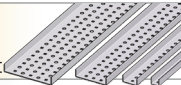


Includes 3/8" dia. bolting (same part as 2" deep, page 22). Cut channels so that round holes are on the connecting end.

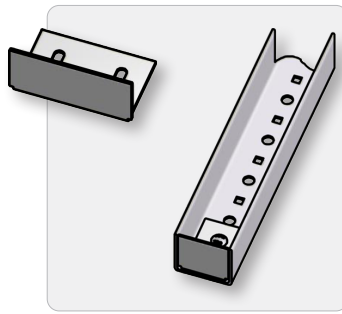
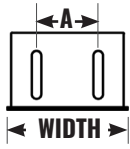
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1"±



**Channel End Cover**



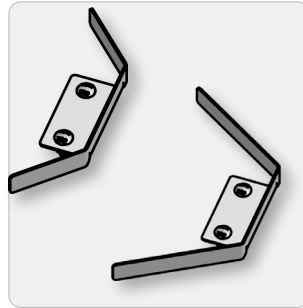
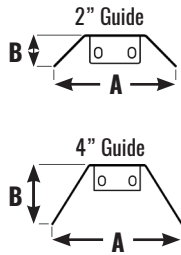
Includes 1/4" dia. bolting

Metal	Width	A	Part No.
Stainless	2	0	CVE-CH2SS1T4
Steel	4	2	CVE-CH4SS1T4
T-304	6	4	CVE-CH6SS1T4
Stainless	2	0	-
Steel	4	2	-
T-316	6	4	-

Channel End Covers are used where there is a requirement to enclose the end of a TUBETRACK® tray. TUBETRACK® End Covers are adjustable to make flush with the end of the tray.



**Reduction Guide**



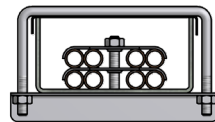
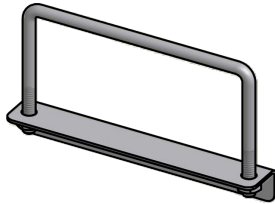
Includes 3/8" dia. bolting

Metal	Width	A	B	Part No.
Stainless	2	7.3"	2"	REG2SS1-T4RHLH
Steel	4	8.5"	4"	REG4SS1-T4RHLH
T-304	4	8.5"	4"	REG4SS1-T4RHLH
Stainless	2	7.3"	2"	-
Steel	4	8.5"	4"	-
T-316	4	8.5"	4"	-

Use with standard TUBETRACK® splice fittings. Reduction Guides are adjustable to a desired flange alignment. Each deflector can be used for either right hand or left hand reduction. Fasteners included with each Reduction Guide.



**Channel & Fitting Cover Clamps**



Sold Separately from Cover

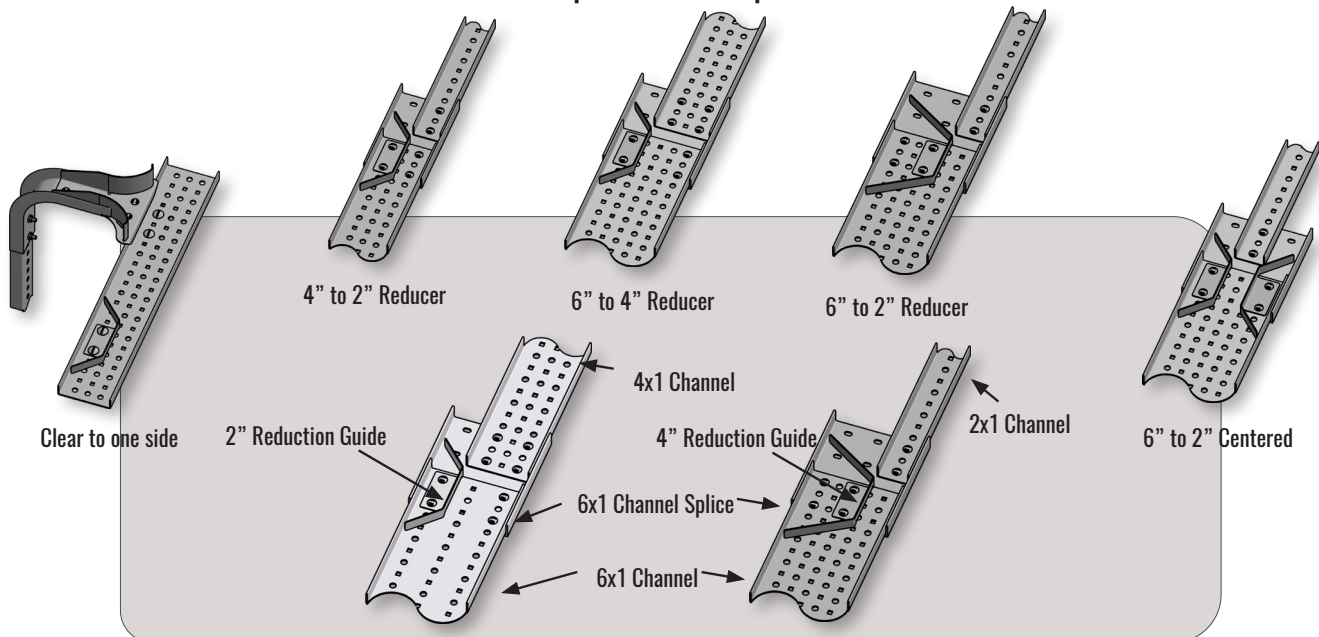
- Clamp: CCC2-SS4-1
- Channel: 2" x 1"

Channel Width	Channel Depth	Part No. Cover Clamp for Channel	Part No. Cover Clamp for Fittings
1	1	CCC1-SS4-1	-
2		CCC2-SS4-1	FCC2-SS4-1
4		CCC4-SS4-1	FCC4-SS4-1
6		CCC6-SS4-1	FCC6-SS4-1

Four piece set includes base, U-bolt, and two hex flange nuts, all in 300 series stainless steel. Straight length covers (10 ft. and 12 ft. long) usually require three Channel Cover Clamps ("CCC"), and fitting covers usually require one Fitting Cover Clamp ("FCC") per end. Bases are marked with "C" or "F" to indicate Channel or Fitting.

Also available in 316 Stainless Steel - contact Factory.

**Examples of Reduction Options:**

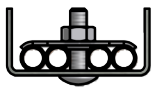
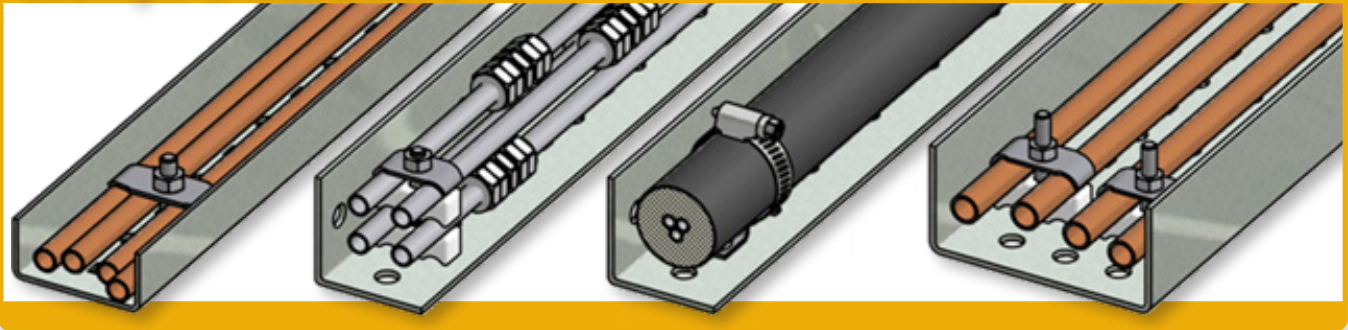


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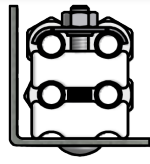




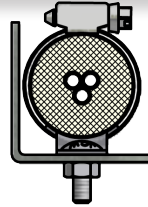
# Clamps & Hardware



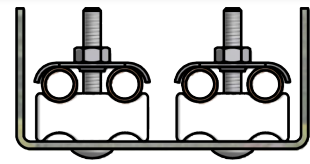
- Clamp: YC4-SS4-375-1
- Tubing Bolt: 1" long
- Tubes: 3/8" dia.
- Channel: 2" x 1"



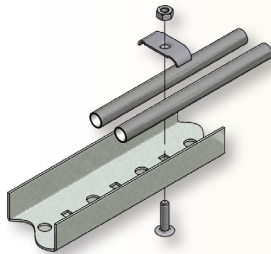
- Spacer: SPC2-PL-375
- Top clamp: YC2-SS4-438
- Tubing Bolt: 2" long
- Tubes: 3/8" dia.
- Angle: 2" x 2"



- Clamp: BLC1-SS4-1.50
- Bolt: included
- Bundle: 1-1/2" dia.
- Angle: 2" x 2"



- Spacer: SPC2-PL-500
- Top clamp: YC2-SS4-500
- Tubing Bolt: 2" long
- Tubes: 1/2" dia.
- Channel: 4" x 2"



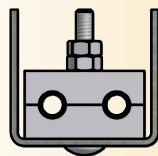
### Fastening Clamps

Tubing is fastened into TUBETRACK® using a JCWCO Yoke Clamp and 1/4"-20 Tubing Bolts. Tubing Bolts have special short carriage square to fit the hole and assist in speed of assembly. Fasteners are included only with flat clamps and Bundle Lock clamps.

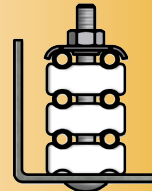
### EXAMPLES



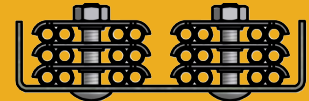
- Clamp: YC2-SS4-250
- Tubing Bolt: 0.75" long
- Tubes: 1/4" dia.
- Channel: 1" x 1"



- Clamp: NC-2-250-2D
- Tubing Bolt: 2" long
- Tubes: 1/4" dia.
- Channel: 2" x 2"

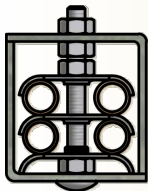


- Spacer: SPC2-PL-250
- Top clamp: YC2-SS4-313
- Tubing Bolt: 2.5" long
- Tubes: 1/4" dia.
- Angle: 2" x 2"

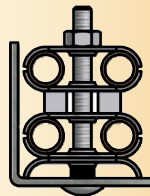


- Clamp: YC4-SS4-250-313
- Tubing Bolt: 1.25" long
- Tubes: 1/4" dia.
- Channel: 4" x 1"

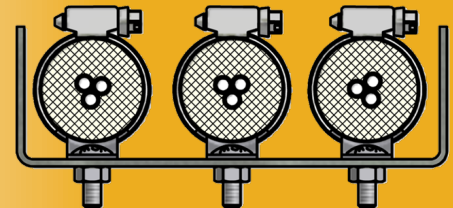
### EXAMPLES



- Clamp: YC2-SS4-500
- Tubing Bolt: 2.50" long
- Tubes: 1/2" dia.
- Angle: 2" x 2"
- Angle: 2" x 2" as cover

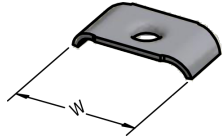
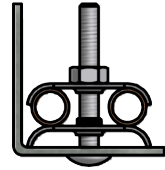

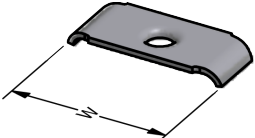
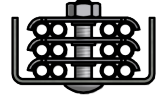

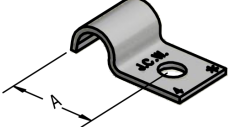
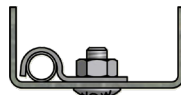

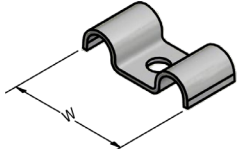
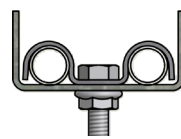



- Spacer: SPC2-SS4-500
- Top & bottom clamp: YC2-SS4-500
- Tubing Bolt: 2.5" long
- Tubes: 1/2" dia.
- Angle: 2" x 2"



- Clamp: BLC1-SS4-1.50
- Bolt: included
- Bundle: 1-1/2" dia.
- Channel: 6" x 2"

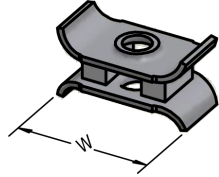


		EXAMPLES																																		
<p><b>Yoke Clamp 2 Tubes</b></p>  <p>Fasteners not included</p>	 <ul style="list-style-type: none"> <li>• Clamp: YC2-SS4-500</li> <li>• Tubing Bolt: 2" long</li> <li>• Tubes: 1/2" OD</li> <li>• Angle: 2" x 2"</li> </ul>	<p><b>No. of Tubes</b></p>	<p><b>Min Tube</b></p>	<p><b>Max OD of Tube</b></p>	<p><b>Part No. 304 Stainless Steel</b></p>	<p><b>Part No. 316 Stainless Steel</b></p>	<p><b>Dim. W</b></p>																													
								<table border="1"> <tr><td rowspan="7">2</td><td>.125</td><td>.250</td><td>YC2-SS4-250</td><td>YC2-SS6-250</td><td>.938</td></tr> <tr><td>.250</td><td>.3125</td><td>YC2-SS4-313</td><td>YC2-SS6-313</td><td>1.145</td></tr> <tr><td>.3125</td><td>.375</td><td>YC2-SS4-375</td><td>YC2-SS6-375</td><td>1.225</td></tr> <tr><td>.375</td><td>.500</td><td>YC2-SS4-438</td><td>YC2-SS6-438</td><td>1.375</td></tr> <tr><td>.500</td><td>.6250</td><td>YC2-SS4-500</td><td>YC2-SS6-500</td><td>1.641</td></tr> <tr><td>.750</td><td>.8125</td><td>YC2-SS4-750</td><td>YC2-SS6-750</td><td>2.000</td></tr> <tr><td>1.000</td><td>1.062</td><td>YC2-SS4-1000</td><td>-</td><td>2.500</td></tr> </table>	2	.125	.250	YC2-SS4-250	YC2-SS6-250	.938	.250	.3125	YC2-SS4-313	YC2-SS6-313	1.145	.3125	.375	YC2-SS4-375	YC2-SS6-375	1.225	.375	.500	YC2-SS4-438	YC2-SS6-438	1.375	.500	.6250	YC2-SS4-500	YC2-SS6-500	1.641	.750	.8125
2	.125	.250	YC2-SS4-250	YC2-SS6-250	.938																															
	.250	.3125	YC2-SS4-313	YC2-SS6-313	1.145																															
	.3125	.375	YC2-SS4-375	YC2-SS6-375	1.225																															
	.375	.500	YC2-SS4-438	YC2-SS6-438	1.375																															
	.500	.6250	YC2-SS4-500	YC2-SS6-500	1.641																															
	.750	.8125	YC2-SS4-750	YC2-SS6-750	2.000																															
	1.000	1.062	YC2-SS4-1000	-	2.500																															
<p>Note: You can use yoke clamps for spacing as well as for holding tubes in place. See example, cross section illustration, left. Bagged at 25 per bag or shipped in bulk. Order in multiples of 25. 1/4" dia. Fasteners are not included - order fasteners separately.</p> 																																				
<p><b>Yoke Clamp 4 Tubes</b></p>  <p>Fasteners not included</p>	 <ul style="list-style-type: none"> <li>• Clamp: YC4-SS4-250-313</li> <li>• Tubing Bolt: 1.25" long</li> <li>• Tubes: 1/4" OD</li> <li>• Channel: 2" x 1"</li> </ul>	<p><b>No. of Tubes</b></p>	<p><b>Min OD of Tube</b></p>	<p><b>Max OD of Tube</b></p>	<p><b>Part No. 304 Stainless Steel</b></p>	<p><b>Part No. 316 Stainless Steel</b></p>	<p><b>Dim. W</b></p>																													
								<table border="1"> <tr><td rowspan="4">4</td><td>0.250</td><td>0.3125</td><td>YC4-SS4-250-313</td><td>YC4-SS6-250-313</td><td>1.711</td></tr> <tr><td>0.3125</td><td>0.375</td><td>YC4-SS4-375-1</td><td>-</td><td>1.750</td></tr> <tr><td>0.375</td><td>0.4375</td><td>YC4-SS4-375</td><td>-</td><td>2.250</td></tr> <tr><td>0.500</td><td>0.5625</td><td>YC4-SS4-500</td><td>-</td><td>2.750</td></tr> </table>	4	0.250	0.3125	YC4-SS4-250-313	YC4-SS6-250-313	1.711	0.3125	0.375	YC4-SS4-375-1	-	1.750	0.375	0.4375	YC4-SS4-375	-	2.250	0.500	0.5625	YC4-SS4-500	-	2.750							
4	0.250	0.3125	YC4-SS4-250-313	YC4-SS6-250-313	1.711																															
	0.3125	0.375	YC4-SS4-375-1	-	1.750																															
	0.375	0.4375	YC4-SS4-375	-	2.250																															
	0.500	0.5625	YC4-SS4-500	-	2.750																															
<p>Note: Yoke clamps can be used for stacking layers of tubes. See example, cross section illustration, left. Bagged at 25 per bag or shipped in bulk. Order in multiples of 25. 1/4" dia. Fasteners are not included - order fasteners separately.</p> 																																				
<p><b>Single Clamp 1 Tube</b></p>  <p>Fasteners not included</p>	<p>For Universal Applications</p>  <ul style="list-style-type: none"> <li>• Clamp: YC1-SS4-375</li> <li>• Tubing Bolt: 1/4" dia</li> <li>• Tube: 3/8" dia.</li> <li>• Channel: 2" x 1"</li> </ul>	<p><b>No. of Tubes</b></p>	<p><b>Nominal Tube OD</b></p>	<p><b>Part No. 304 Stainless Steel</b></p>	<p><b>Part No. 316 Stainless Steel</b></p>	<p><b>Dim. A</b></p>	<p><b>Bag Qty.</b></p>																													
								<table border="1"> <tr><td rowspan="6">1</td><td>0.250</td><td>YC1-SS4-250</td><td>YC1-SS6-250</td><td>0.79</td><td rowspan="6">25</td></tr> <tr><td>0.375</td><td>YC1-SS4-375</td><td>YC1-SS6-375</td><td>0.95</td></tr> <tr><td>0.500</td><td>YC1-SS4-500</td><td>YC1-SS6-500</td><td>1.08</td></tr> <tr><td>0.750</td><td>YC1-SS4-750</td><td>YC1-SS6-750</td><td>1.33</td></tr> <tr><td>1.000</td><td>YC1-SS4-1000</td><td>YC1-SS6-1000</td><td>1.61</td></tr> <tr><td>1.500</td><td>YC1-SS4-1500</td><td>YC1-SS6-1500</td><td>2.25</td></tr> <tr><td>2.000</td><td>YC1-SS4-2000</td><td>YC1-SS6-2000</td><td>2.75</td></tr> </table>	1	0.250	YC1-SS4-250	YC1-SS6-250	0.79	25	0.375	YC1-SS4-375	YC1-SS6-375	0.95	0.500	YC1-SS4-500	YC1-SS6-500	1.08	0.750	YC1-SS4-750	YC1-SS6-750	1.33	1.000	YC1-SS4-1000	YC1-SS6-1000	1.61	1.500	YC1-SS4-1500	YC1-SS6-1500	2.25	2.000	YC1-SS4-2000
1	0.250	YC1-SS4-250	YC1-SS6-250	0.79	25																															
	0.375	YC1-SS4-375	YC1-SS6-375	0.95																																
	0.500	YC1-SS4-500	YC1-SS6-500	1.08																																
	0.750	YC1-SS4-750	YC1-SS6-750	1.33																																
	1.000	YC1-SS4-1000	YC1-SS6-1000	1.61																																
	1.500	YC1-SS4-1500	YC1-SS6-1500	2.25																																
2.000	YC1-SS4-2000	YC1-SS6-2000	2.75																																	
<p>1/4", 3/8" YC1 clamps fit in 2" wide TUBETRACK® tray. Bagged at 25 or shipped in bulk. Order in multiples of 25. 1/4" dia. Fasteners are not included - order fasteners separately.</p> 																																				
<p><b>Duplex Clamp 2 Tubes</b></p>  <p>Fasteners not included</p>	<p>For Universal Applications</p>  <ul style="list-style-type: none"> <li>• Clamp: DPC2-SS4-500</li> <li>• Hex Bolt: 1/4" dia. x 3/4"</li> <li>• Tubes: 1/2" dia.</li> <li>• Channel: 2" x 1"</li> </ul>	<p><b>No. of Tubes</b></p>	<p><b>Nominal Tube OD</b></p>	<p><b>Part No. 304 Stainless Steel</b></p>	<p><b>Part No. 316 Stainless Steel</b></p>	<p><b>Dim. W</b></p>	<p><b>Bag Qty.</b></p>																													
								<table border="1"> <tr><td rowspan="5">2</td><td>0.250</td><td>DPC2-SS4-250</td><td>DPC2-SS6-250</td><td>1.54</td><td rowspan="3">25</td></tr> <tr><td>0.375</td><td>DPC2-SS4-375</td><td>DPC2-SS6-375</td><td>1.60</td></tr> <tr><td>0.500</td><td>DPC2-SS4-500</td><td>DPC2-SS6-500</td><td>1.86</td></tr> <tr><td>0.750</td><td>-</td><td>DPC2-SS6-750</td><td>2.52</td><td rowspan="2">10</td></tr> <tr><td>1.000</td><td>-</td><td>DPC2-SS6-1000</td><td>3.03</td></tr> </table>	2	0.250	DPC2-SS4-250	DPC2-SS6-250	1.54	25	0.375	DPC2-SS4-375	DPC2-SS6-375	1.60	0.500	DPC2-SS4-500	DPC2-SS6-500	1.86	0.750	-	DPC2-SS6-750	2.52	10	1.000	-	DPC2-SS6-1000	3.03					
2	0.250	DPC2-SS4-250	DPC2-SS6-250	1.54	25																															
	0.375	DPC2-SS4-375	DPC2-SS6-375	1.60																																
	0.500	DPC2-SS4-500	DPC2-SS6-500	1.86																																
	0.750	-	DPC2-SS6-750	2.52	10																															
	1.000	-	DPC2-SS6-1000	3.03																																
<p>1/4", 3/8", and 1/2" DPC2 clamps fit in 2" wide TUBETRACK® tray. 1/2", 3/4", and 1" DPC2 clamps fit in 3" wide TUBETRACK® angle tray. Bagged at 25 per bag or shipped in bulk. Order in multiples of 25. 1/4" dia. Fasteners are not included - order fasteners separately.</p> 																																				

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**Spacer Clamp  
Stainless Steel  
Welded**



Fasteners not included

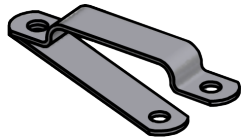
EXAMPLES

- Middle Clamp: SPC2-SS4-375
- Top & bottom clamp: YC2-SS4-438
- Tubing Bolt: 2" long
- Tubes: 3/8" OD
- Angle: 2" x 2"

No. of Tubes	Nominal Tube OD	Part No. 304 Stainless Steel	Dim. W	Matching Yoke Clamp	Bag Qty.
2	0.250	SPC2-SS4-250	1.145	YC2-SS4-313	25
	0.375	SPC2-SS4-375	1.375	YC2-SS4-438	
	0.500	SPC2-SS4-500	1.640	YC2-SS4-500	
No. of Tubes	Nominal Tube OD	Part No. 316 Stainless Steel	Dim. W	Matching Yoke Clamp	Bag Qty.
2	0.250	SPC2-SS6-250	1.145	YC2-SS6-313	25
	0.375	SPC2-SS6-375	1.375	YC2-SS6-438	
	0.500	SPC2-SS6-500	1.640	YC2-SS6-500	

Bagged at 25 per bag. Order in multiples of 25.  
Fasteners are not included - order fasteners separately.

**Multi-Line Clamp**



Fasteners not included

Note: Multi-Line, "gang clamps" are available in 16 gage stainless steel material. They are not designed to fit in TUBETRACK® channels. Bolts (round-head or hex) and nuts, 316 stainless, sold separately.

**316 Stainless Steel Clamps - For Universal Applications**

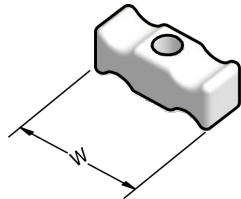
No. of Tubes	Part No. 0.250" Tube OD	Part No. 0.375" Tube OD	Part No. 0.500" Tube OD	Part No. 0.750" Tube OD
2	MLC2-SS6-250	MLC2-SS6-375	MLC2-SS6-500	MLC2-SS6-750
3	MLC3-SS6-250	MLC3-SS6-375	MLC3-SS6-500	MLC3-SS6-750
4	MLC4-SS6-250	MLC4-SS6-375	MLC4-SS6-500	MLC4-SS6-750
5	MLC5-SS6-250	MLC5-SS6-375	MLC5-SS6-500	-
6	MLC6-SS6-250	MLC6-SS6-375	MLC6-SS6-500	-
7	MLC7-SS6-250	MLC7-SS6-375	MLC7-SS6-500	-
8	MLC8-SS6-250	MLC8-SS6-375	MLC8-SS6-500	-
9	MLC9-SS6-250	MLC9-SS6-375	MLC9-SS6-500	-
10	MLC10-SS6-250	MLC10-SS6-375	MLC10-SS6-500	-
11	MLC11-SS6-250	MLC11-SS6-375	MLC11-SS6-500	-
12	MLC12-SS6-250	MLC12-SS6-375	MLC12-SS6-500	-

**304 Stainless Steel Clamps - For 1/8" Dia. Capillary Tubes**

No. of Tubes	Part No. 0.125" Tube OD
2	MLC2-SS4-125
8	MLC8-SS4-125

Fasteners are not included - order fasteners separately.  
Bagged at 25 per bag or shipped in bulk. Order in multiples of 25.

**Plastic Spacer Clamp  
Holds 2 Tubes**



Fasteners not included

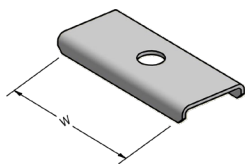
- Spacer: SPC2-PL-375
- Top clamp: YC2-SS4-438
- Tubing Bolt: 2" long
- Tubes: 3/8" OD
- Angle: 2" x 2"

No. of Tubes	Nominal Tube OD	Part No. Plastic Clamp	Dim. W	Matching Yoke Clamp	Bag Qty.
2	0.250	SPC2-PL-250	1.094	YC2-SS4-313	25
	0.375	SPC2-PL-375	1.375	YC2-SS4-438	
	0.500	SPC2-PL-500	1.594	YC2-SS4-500	

Spacer Clamps hold two tubes on each layer and allow room for compression tube fittings in straight runs of tubing. Plastic Spacer Clamps are not recommended above 150°F.

Bagged at 25 per bag or shipped in bulk. Order in multiples of 25.  
Fasteners are not included - order fasteners separately.

**Stainless Steel Cap  
for Plastic Spacer Clamps**



- Example of Cap in use

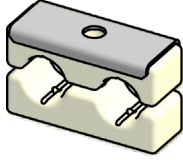
Part No. SS304 Cap	Part No. SS316 Cap	Dim. W	Matching Spacer Clamp	Bag Qty.
CAP-SPC2PL-S4-2	CAP-SPC2PL-S6-2	1.094	SPC2-PL-250	25
CAP-SPC2PL-S4-3	CAP-SPC2PL-S6-3	1.375	SPC2-PL-375	
CAP-SPC2PL-S4-5	CAP-SPC2PL-S6-5	1.5625	SPC2-PL-500	

Bagged at 25 per bag or shipped in bulk. Order in multiples of 25.  
Spacer Clamps and Fasteners are not included - order separately.

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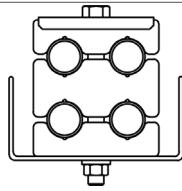


**Pipe Clamp Assembly  
Small Pipe  
& Large Tubing**



Includes Stainless Steel Cap

EXAMPLES



- (1) Clamp Assembly
- (1) Intermediate Spacer
- 3/8" Dia. Bolt
- (4) tubes: .675" dia.
- TUBETRACK® Tray: 4" x 2"

No. of Pipes	Pipe Size	Nominal Tube/Pipe OD	Part No. Assembly	Bag Qty.
2	1/4"	-	-	
	3/8"	.675	PC2-PL1-375A	
	1/2"	-	-	

Clamp manufactured from Black nylon with UV, fuel, and oil resistance (shown in white for better visibility). Secured using 3/8" bolting (see pg. 44 for bolting options). Each Pipe Clamp Assembly includes top and bottom clamps with one stainless steel cap. Add one Pipe Clamp Spacer (below) for each additional pipe pair desired per assembly. Fasteners are not included - order fasteners separately.

**Pipe Clamp Spacer  
Small Pipe & Large Tubing**

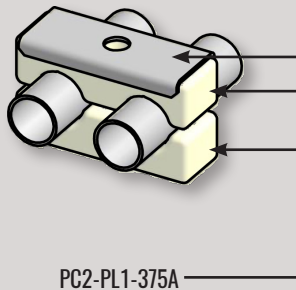


No. of Pipes	Pipe Size	Nominal Tube/Pipe OD	Part No. Spacer	Bag Qty.
2	1/4"	-	-	
	3/8"	.675	PCS2-PL1-375A	
	1/2"	-	-	

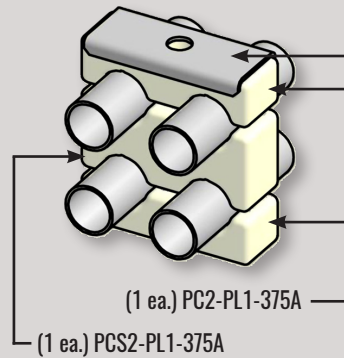
Spacer manufactured from Black nylon with UV, fuel, and oil resistance (shown in white for better visibility). Secured using 3/8" bolting (see pg. 44 for bolting options).

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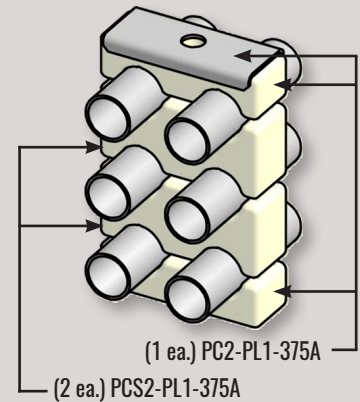
**Examples of possible configurations using Pipe Clamp and Spacer:**



PC2-PL1-375A

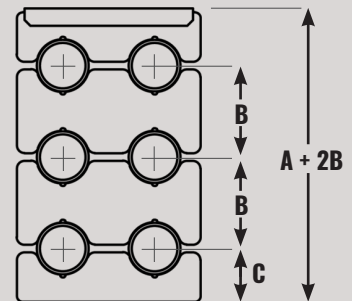
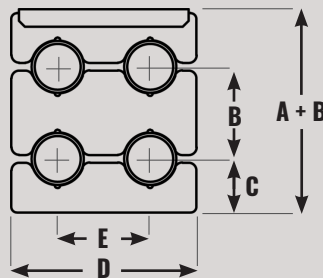
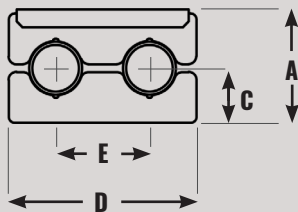


(1 ea.) PC2-PL1-375A  
(1 ea.) PCS2-PL1-375A



(1 ea.) PC2-PL1-375A  
(2 ea.) PCS2-PL1-375A

A: 1.560" D: 2.75"  
B: 1.375" E: 1.50"  
C: 0.75"



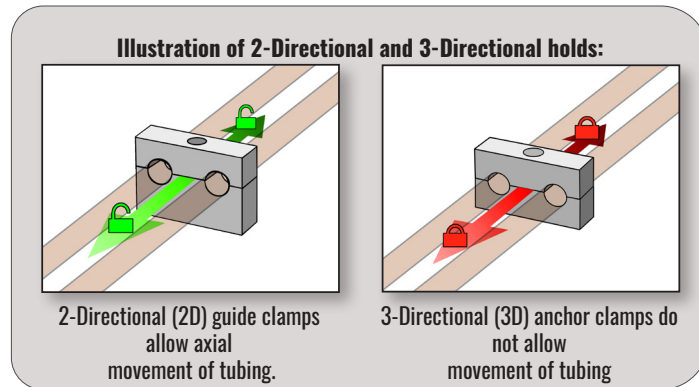






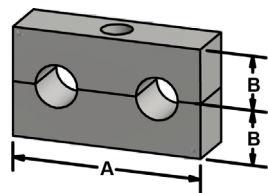
**NC & PC Series Tube and Pipe Clamps**

- Machined from solid stainless steel
- Heavy duty clamps used in both commercial and safety-related applications
- Available as 2-directional (guide clamp) or 3-directional (anchor clamp)
- Part numbers listed in this catalog are the most commonly used sizes/types. Contact Factory for additional clamp sizes/types and for technical data including Load Rating Data Sheets



**NC-Series Clamp  
2 Tubes**

1/8" - 1/2"  
TUBE O.D.



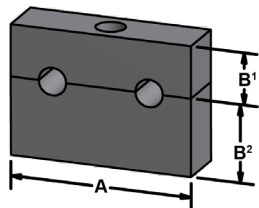
No. of Tubes	Nominal Tube OD	Part No. 2D Guide Clamp	Part No. 3D Anchor Clamp	Dimensions	
				A	B
2	0.125	NC-2-125-2D	NC-2-125-3D	1.75	0.50
	0.1875	NC-2-188-2D	NC-2-188-3D		
	0.250	NC-2-250-2D	NC-2-250-3D		
	0.375	NC-2-375-2D	NC-2-375-3D		
	0.500	NC-2-500-2D	NC-2-500-3D		

1/4" Bolting. Hardware not included.

Corresponding Weld-Down Base part number: WBS4-A5050  
(See pg. 43 for more information)

**NC-Series Clamp  
2 Tubes, Tall Base**

1/8" - 1/2"  
TUBE O.D.

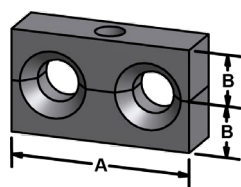


No. of Tubes	Nominal Tube OD	Part No. 2D Guide Clamp	Part No. 3D Anchor Clamp	Dimensions	
				A	B
2	0.125	NC-2-125-2DBS	NC-2-125-3DB	1.75	B <sup>1</sup> : 0.50 B <sup>2</sup> : 0.75
	0.1875	NC-2-188-2DBS	NC-2-188-3DB		
	0.250	NC-2-250-2DBS	NC-2-250-3DB		
	0.375	NC-2-375-2DBS	NC-2-375-3DB		
	0.500	NC-2-500-2DBS	NC-2-500-3DB		

Taller 3/4" base allows for more clearance between tube fittings and tray.  
1/4" Bolting. Hardware not included.  
Corresponding Weld-Down Base part number: WBS4-A5050  
(See pg. 43 for more information)

**NC-Series Clamp  
2 Tubes, Chamfered**

1/4" - 1/2"  
TUBE O.D.

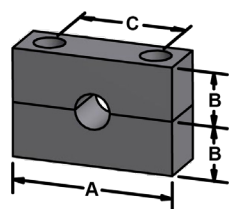


No. of Tubes	Nominal Tube OD	Part No. 2D Guide Clamp	Dimensions	
			A	B
2	0.250	NC-2-250-2DL	1.75	0.50
	0.375	NC-2-375-2DL		
	0.500	NC-2-500-2DL		

Larger-diameter chamfered tube holes permit some angular displacement of tubes.  
1/4" Bolting. Hardware not included.  
Corresponding Weld-Down Base part number: WBS4-A5050  
(See pg. 43 for more information)

**NC-Series Clamp  
1 Tube**

1/8" - 1/2"  
TUBE O.D.



No. of Tubes	Nominal Tube OD	Part No. 2D Guide Clamp	Part No. 3D Anchor Clamp	Dimensions		
				A	B	C
1	0.125	NC-1-125-2D	-	1.50	0.50	1.00
	0.1875	NC-1-188-2D	NC-1-188-3D			
	0.250	NC-1-250-2D	NC-1-250-3D			
	0.375	NC-1-375-2D	NC-1-375-3D			
	0.500	NC-1-500-2D	NC-1-500-3D			

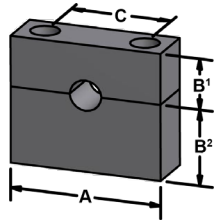
1/4" Bolting. Hardware not included.  
Corresponding Weld-Down Base part number: WBS4-A5051  
(See pg. 43 for more information)

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**NC-Series Tube Clamp**  
1 Tube, Tall Base

3/16" - 1/2"  
TUBE O.D.



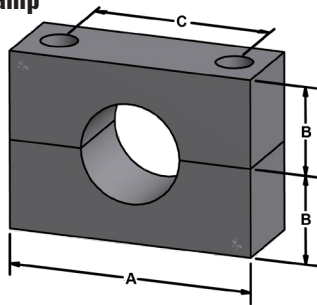
No. of Tubes	Nominal Tube OD	Part No. 2D Guide Clamp	Part No. 3D Anchor Clamp	Dimensions		
				A	B	C
1	0.1875	NC-1-188-2DBS	NC-1-188-3DB	1.50	B <sup>1</sup> : 0.50 B <sup>2</sup> : 0.75	1.00
	0.250	NC-1-250-2DBS	NC-1-250-3DB			
	0.375	NC-1-375-2DBS	NC-1-375-3DB			
	0.500	NC-1-500-2DBS	NC-1-500-3DB			

Taller 3/4" base allows for more clearance between tube fittings and tray.  
1/4" Bolting. Hardware not included.

Corresponding Weld-Down Base part number: WBS4-A5051  
(See pg. 43 for more information)

**PC-Series Pipe Clamp**  
1 Pipe

1/4" - 2"  
PIPE O.D.



No. of Pipes	Pipe Size	Part No. 2D Guide Clamp	Part No. 3D Anchor Clamp	Dimensions		
				A	B	C
1	0.250	PC-1-250-2D	PC-1-250-3D	2.75	1.00	2.00
	0.375	PC-1-375-2D	PC-1-375-3D			
	0.500	PC-1-500-2D	PC-1-500-3D			
	0.750	PC-1-750-2D	PC-1-750-3D			
	1.000	PC-1-1000-2D	PC-1-1000-3D			
	1.500	PC-1-1500-2D	PC-1-1500-3D			
2.000	PC-1-2000-2D	PC-1-2000-3D	5.50	2.00	3.50	

Taller 3/4" base allows for more clearance between tube fittings and tray.  
3/8" Bolting. Hardware not included.

Corresponding Weld-Down Base part number: Contact Factory

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**Tube and Pipe Clamps - Machined to Your Specification**

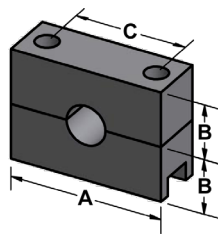
Part numbers listed in this catalog are only the most commonly used sizes and types.  
We routinely partner with our customers to fabricate and machine custom parts.  
Contact Factory for additional clamp sizes and types needed for your application.





**Weld-Down Pipe Clamp  
1 Pipe**

1/4" - 1"  
PIPE O.D.



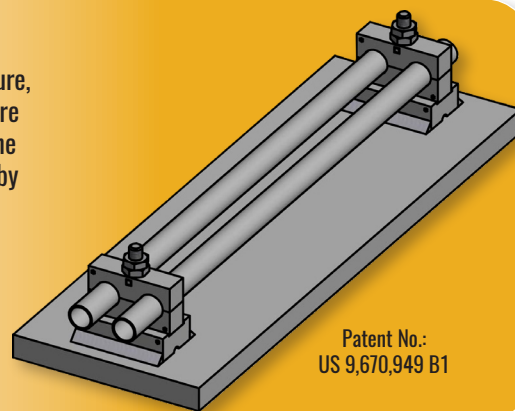
No. of Pipes	Nominal Pipe OD	Part No. 2D Guide Clamp	Part No. 3D Anchor Clamp	Dimensions		
				A	B	C
1	0.250	PC-1-250-2DWD	PC-1-250-3DWD	2.75	1.00	1.375
	0.375	PC-1-375-2DWD	PC-1-375-3DWD			
	0.500	PC-1-500-2DWD	PC-1-500-3DWD			
	0.750	PC-1-750-2DWD	PC-1-750-3DWD			
	1.000	PC-1-1000-2DWD	PC-1-1000-3DWD			

3/8" bolting. Hardware included.  
SR

**NEW Weld-Down Bases for NC-Series Clamps**

When an application requires weld mounting of Tube or Pipe Clamps to a structure, the **Weld-Down Base** is first welded to the structure. The clamp and bolting are then installed on the **Weld-Down Base**. This enables precision alignment of the clamps and prevents the clamps and bolting from being damaged or distorted by welding. The **Weld-Down Base** enables easy replacement of the clamp and bolting after installation.

Contact Factory for additional sizes and types of Weld-Down Bases

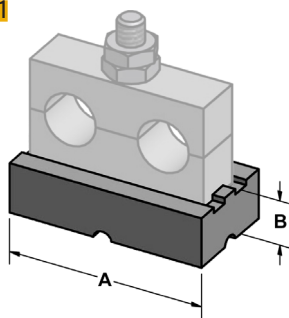


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**Weld-Down Clamp Base  
for 2-Tube Clamps**

Patent No.: US 9,670,949 B1

Shown:  
NC-2 clamp on a  
Weld-Down Base



Part No.	Dimensions	
	A	B
WBS4-A5050	1.94	0.45

Bolting hardware and Tube Clamp not included with Weld-Down Base. See individual clamp listing for correct corresponding Weld-Down Base.

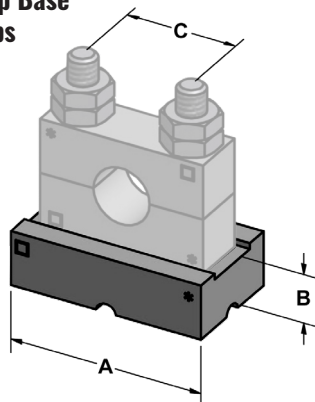
Made to order or to fit JCWCO NC-Series Clamps. May not be available from stock.



**Weld-Down Clamp Base  
for 1-Tube Clamps**

Patent No.:  
US 9,670,949 B1

Shown:  
NC-1 clamp on a  
Weld-Down Base



Part No.	Dimensions		
	A	B	C
WBS4-A5051	1.75	0.45	1.00

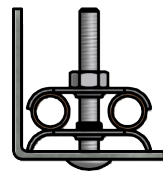
Bolting hardware and Tube Clamp not included with Weld-Down Base. See individual clamp listing for correct corresponding Weld-Down Base.

Made to order or to fit JCWCO NC-Series Clamps. May not be available from stock.





**JCWCO Tubing Bolt**  
**1/4" Dia., 20 Thread**

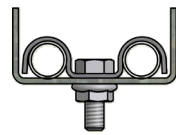


Tubing Bolt 2" long  
Nuts sold separately

Bolt Length	Part No. 18-8 Stainless Steel	Part No. 316 Stainless Steel	Bag Qty.
0.50	TBSS4-250X0.50	TBSS6-250X0.50	25
0.75	TBSS4-250X0.75	TBSS6-250X0.75	
1.00	TBSS4-250X1.00	TBSS6-250X1.00	
1.25	TBSS4-250X1.25	TBSS6-250X1.25	
1.50	TBSS4-250X1.50	TBSS6-250X1.50	
2.00	TBSS4-250X2.00	TBSS6-250X2.00	
3.00	TBSS4-250X3.00	TBSS6-250X3.00	
3.50	TBSS4-250X3.50	TBSS6-250X3.50	
4.00	TBSS4-250X4.00	TBSS6-250X4.00	

Special short square carriage fits in square holes in punch pattern. Bagged 25 per bag, or shipped in bulk. Order in multiples of 25. Low profile JCWCO Tubing Bolts are provided with all standard 1" deep TUBETRACK® tray fittings and Flat Clamps.

**Hex Head Bolts**  
**1/4"-20 NC, 3/8"-16**



1-4"-20 Hex Head Bolt, 3/4" Long with Flange Lock Nut  
Nuts sold separately

**1/4" Diameter**

Bolt Length	Part No. Zinc Plated Steel	Part No. 18-8 Stainless Steel	Part No. 316 Stainless Steel	Bag Qty.
0.75	-	MBSS4-250X0.75	-	25
1.00	-	MBSS4-250X1.00	-	
1.25	-	MBSS4-250X1.25	-	
1.50	-	MBSS4-250X1.50	-	

**3/8" Diameter**

1.50	-	MBSS4-375X1.50	-	25
2.00	-	MBSS4-375X2.00	-	
2.50	-	MBSS4-375X2.50	-	
3.00	-	MBSS4-375X3.00	-	
3.50	-	MBSS4-375X3.50	-	
4.00	-	MBSS4-375X4.00	-	
5.00	-	MBSS4-375X5.00	-	

Bagged 25 per bag, or shipped in bulk. Order in multiples of 25.

Other lengths of Hex Head Bolts may be available upon request.

**Truss-Head Bolts**  
**3/8" Dia., 16 Thread Slotted**



Bolt Length	Part No. Zinc Plated Steel	Part No. 18-8 Stainless Steel	Part No. 316 Stainless Steel	Bag Qty.
0.75	THBZN-375X0.75	THBSS4-375X0.75	THBSS6-375X0.75	25
1.00	THBZN-375X1.00	-	THBSS6-375X1.00	

Bagged 25 per bag, or shipped in bulk. Order in multiples of 25.

Low profile JCWCO Truss Head Bolts are provided with all standard 2" deep TUBETRACK® tray fittings. Order additional bolts with nuts and hardware to be used for mounting 1" and 2" deep tray, spares, etc.

Other lengths of Truss Head Bolts may be available upon request.

**Hex & Flange Lock Nuts**



**Nut Size 0.250"**



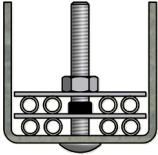
Type	Part No. Zinc Plated Steel	Part No. 18-8 Stainless Steel	Part No. 316 Stainless Steel	Bag Qty.
Hex Nut	HN-ZN-250	HN-SS4-250	HN-SS6-250	25
Locking Flange	HNFL-ZN-250	HNFL-SS4-250	HNFL-SS6-250	

**Nut Size 0.375"**

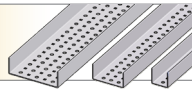
Type	Part No. Zinc Plated Steel	Part No. 18-8 Stainless Steel	Part No. 316 Stainless Steel	Bag Qty.
Hex Nut	HN-ZN-375	HN-SS4-375	HN-SS6-375	25
Locking Flange	HNFL-ZN-375	HNFL-SS4-375	HNFL-SS6-375	

Bagged 25 per bag, or shipped in bulk. Order in multiples of 25.



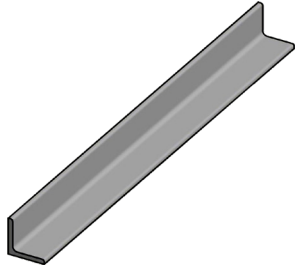
		EXAMPLES				
<b>Washers</b>  	<b>Washer Size 0.250"</b>					
	<b>Type</b>	<b>Part No. Zinc Plated Steel</b>	<b>Part No. 18-8 Stainless Steel</b>	<b>Part No. 316 Stainless Steel</b>	<b>Bag Qty.</b>	
	Flat	FLW-ZN-250	FLW-SS4-250	FLW-SS6-250	25	
	Lock	LKW-ZN-250	LKW-SS4-250	LKW-SS6-250		
<b>Washer Size 0.375"</b>						
<b>Type</b>	<b>Part No. Zinc Plated Steel</b>	<b>Part No. 18-8 Stainless Steel</b>	<b>Part No. 316 Stainless Steel</b>	<b>Bag Qty.</b>		
Flat	FLW-ZN-375	FLW-SS4-375	FLW-SS6-375	25		
Lock	LKW-ZN-375	LKW-SS4-375	LKW-SS6-375			
Bagged 25 per bag, or shipped in bulk. Order in multiples of 25.						
<b>Nuts, Specialty</b> <b>1/4" Dia., 20 NC Thread</b>   <p>Wing      Round</p> <p>Knurled</p>	 <p>Round Nut holds bolt and lower clamp in place for assembly.</p>	<b>Nut Type</b>	<b>Part No. Zinc Plated Steel</b>	<b>Part No. 18-8 Stainless Steel</b>	<b>Part No. 316 Stainless Steel</b>	<b>Bag Qty.</b>
		Wing	WN-ZN-250	WN-SS4-250	WN-SS6-250	25
		Round	-	RN-SS4-250	-	
		Knurled	KN-ZN-250	-	-	
Round nuts are used to secure bolt or lower layers of tubes as additional layers are added. They are 0.16" high.						
All nuts bagged 25 per bag, or shipped in bulk. Order in multiples of 25.						





# Supplementary Materials

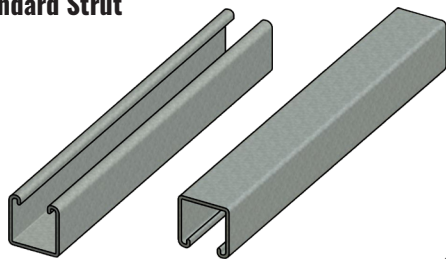
## Framing Angle



Width	Metal	Part No.
2"	A-36 HRS Hot-Dip Galvanized Steel	A2FR25GCU-240
3"	A-36 HRS Hot-Dip Galvanized Steel	A3FR25GCU-240

1/4" thick, 20' length.  
Non-perforated, hot-dip galvanized A-36 HRS structural steel angle for field fabrication.

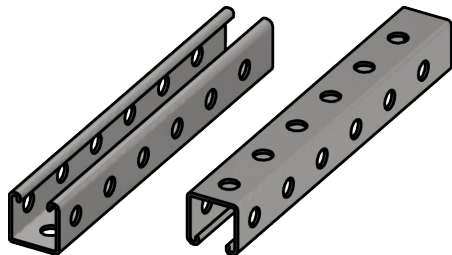
## Standard Strut



Metal	Part No.	Length
Hot-Dip Galv. Steel	ST200-GC	20'
Pre-Galv. Steel	ST200-PG	
Stainless Steel T-304	ST200-S4	10'
Stainless Steel T-316	ST200-S6	

1-5/8" x 1-5/8" x 12ga.  
Standard Strut with no holes.

## Strut with Holes

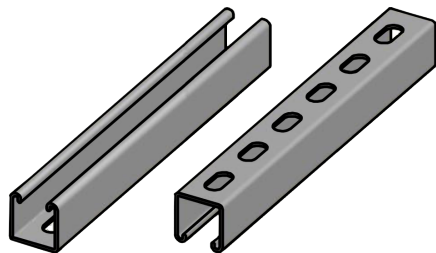


Metal	Part No.	Length
Hot-Dip Galv. Steel	ST200-GC-H3	20'
Pre-Galv. Steel	ST200-PG-H3	

1-5/8" x 1-5/8" x 12ga.  
Standard strut with 9/16" round holes (all sides) on 1-7/8" centers.

Will fit JCWCO Strut Connectors & Strut Bases in 90° orientation without drilling holes. See pages 47-48.

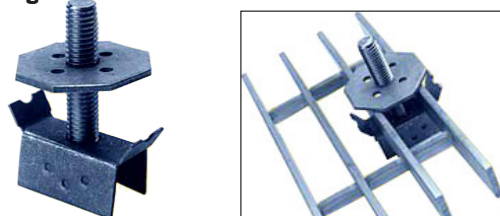
## Strut with Elongated Holes



Metal	Part No.	Length
Hot-Dip Galv. Steel	ST200-GC-EH	20'
Pre-Galv. Steel	ST200-PG-EH	
Stainless Steel T-304	ST200-S4-EH	10'
Stainless Steel T-316	ST200-S6-EH	

1-5/8" x 1-5/8" x 12ga.  
Standard strut with oblong slots (9/16" x 1-1/8") on 2" centers.

## Grating Mounts

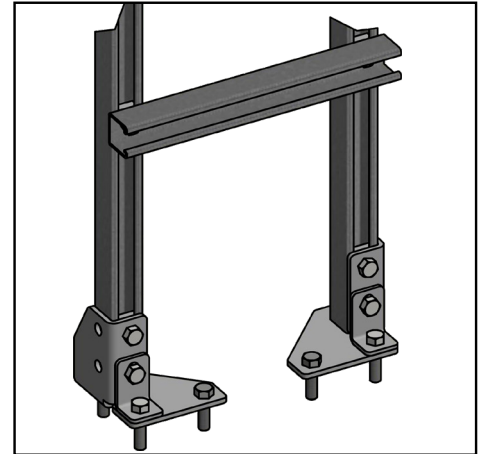


Metal	Part No.
Hot-Dip Galv. Steel	IM-GMGC-500X3.0
Stainless Steel T-316	IM-GMS6-500X3.0

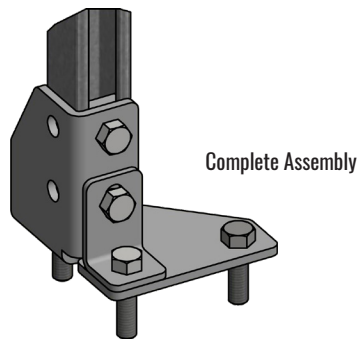
1/2" x 3" stud. Withstands up to 1,000 lb. upward pulling force.  
Fastener assembly used as a stable base on which to mount other devices to a grating surface.

**Strut Stand Bases**

- Our new Strut Stand Bases allow for fast and easy field fabrication of strut stands, saving you time and money.
- No welds
- Pre-cut or field cut standard strut to desired length.
- Fits Unistrut® P1000, P1000T, P1000H3, standard 1-3/8" x 1-5/8" strut or equivalent.
- Available to purchase as individual components or a complete assembly.
- Assembly includes (2) 1/2-13 x 1 1/2" bolts, (2) 1/2" spring nuts, and angle brace.
- Anchor Fasteners and Strut are not included.



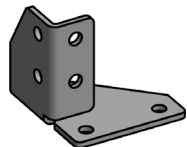
**Strut Stand Base Left Hand**



Metal	Complete Assy. Part No.
Hot-Dip Galv. Steel	STBA-GCL-B2878Y
Stainless Steel T-304	-
Stainless Steel T-316	-

**Great for skid building.** Can be purchased as individual components or complete assembly. **For Individual Components, use item numbers at left and see page 48 for associated Part Number.**

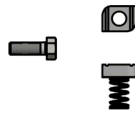
Complete assembly includes hardware: (2) 1/2-13 x 1-1/2" bolts and (2) 1/2" Spring Nuts. Anchor Fasteners and Strut sold separately.



(1) Stand Base



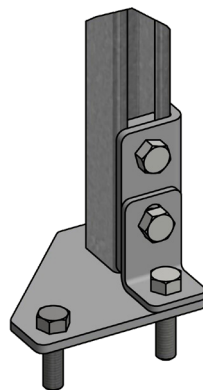
(4) Angle Brace



(5) Bolt and  
(6) Spring Nut

**Strut Stand Base Right Hand**

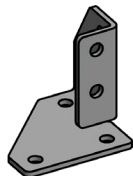
Complete Assembly



Metal	Complete Assy. Part No.
Hot-Dip Galv. Steel	STBA-GCR-B2886Y
Stainless Steel T-304	-
Stainless Steel T-316	-

**Great for skid building.** Can be purchased as individual components or complete assembly. **For Individual Components, use item numbers at left and see page 48 for associated Part Number.**

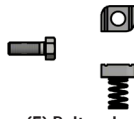
Complete assembly includes hardware: (2) 1/2-13 x 1-1/2" bolts and (2) 1/2" Spring Nuts. Anchor Fasteners and Strut sold separately.



(2) Stand Base

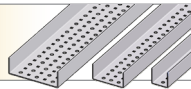


(4) Angle Brace

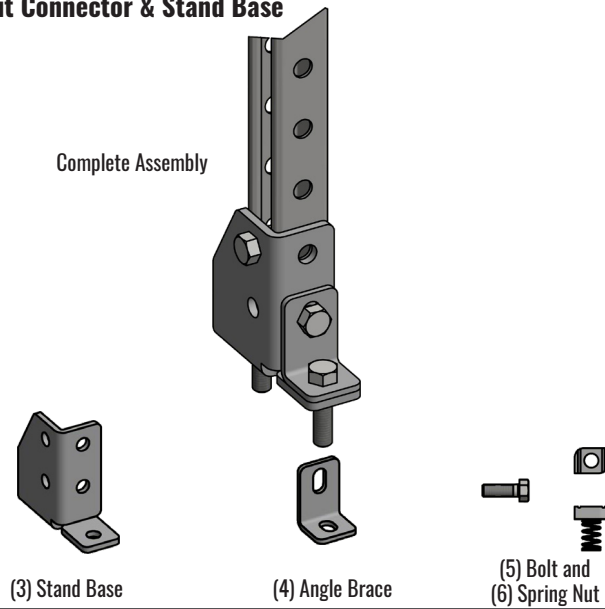


(5) Bolt and  
(6) Spring Nut

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**Strut Connector & Stand Base**



Metal	Complete Assy. Part No.
Hot-Dip Galv. Steel	STBA-GC-A5100Y
Stainless Steel T-304	-
Stainless Steel T-316	-

**Great for skid building.** Can be purchased as individual components or complete assembly. **For Individual Components, use item numbers at left and see below for associated Part Number.**

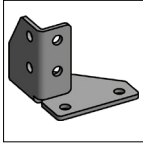

Complete assembly includes hardware: (2) 1/2-13 x 1-1/2" bolts and (2) 1/2" Spring Nuts. Anchor Fasteners and Strut sold separately.

(3) Stand Base

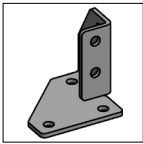

(4) Angle Brace

(5) Bolt and  
(6) Spring Nut

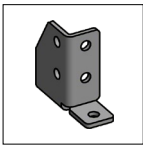

**Strut Stand Bases - Individual Components**

**1**  **Stand Base - LEFT HAND** 

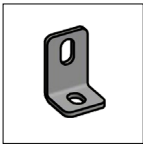

Metal	Part No.
Hot-Dip Galv. Steel	STB-GC-B2877-LH
Stainless Steel T-304	-
Stainless Steel T-316	-

**2**  **Stand Base - RIGHT HAND** 

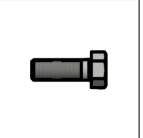
Metal	Part No.
Hot-Dip Galv. Steel	STB-GC-B2885-RH
Stainless Steel T-304	-
Stainless Steel T-316	-

**3**  **Stand Base - STANDARD** 

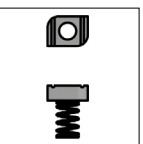
Metal	Part No.
Hot-Dip Galv. Steel	STB-GC-A5099
Stainless Steel T-304	-
Stainless Steel T-316	-

**4**  **Angle Brace** 

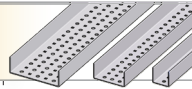
Metal	Part No.
Hot-Dip Galv. Steel	STBB-GC-A5087
Stainless Steel T-304	-
Stainless Steel T-316	-

**5**  **Hex Head Bolt**

Metal	Part No.
Zinc-Plated Steel	MBZN-500X1.50

**6**  **Strut Nut**

Metal	Part No. Strut Nut (w/ Spring)	Part No. Strut Nut (No Spring)
Zinc-Plated Steel	STSN-ZN-500	STN-ZN-500
Stainless Steel T-304	STSN-S4-500	STN-S4-500
Stainless Steel T-316	STSN-S6-500	STN-S6-500



**TUBETRACK® Channels:**  
**Complete Support and Protection System for low-voltage control, signal, data, and communications cables.**

**UL Classification CYNW.E240501**

Where TUBETRACK® Channels and Channel Fittings are used as a Ventilated Bottom Channel Cable Tray for the support of low voltage control, signal, data, communications, or other low voltage type cables, the TUBETRACK® Channels and Channel Fittings may be installed per the applicable sections of NEMA Standard VE 2-2000, and NEC-2002 Article 392 for Ventilated Bottom Channel Cable Trays, or per customer’s engineering specifications.

Where TUBETRACK® Channels are cut to length in the field, any burr created by the cutting process should be removed before installing the Channel Fitting.

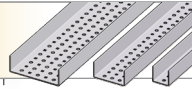
The following table is provided for customer installation information:

<b>TABLE OF CROSS-SECTIONAL AREA OF METAL RATING FOR TUBETRACK® CHANNELS AND CHANNEL FITTINGS CORRESPONDING TO NEC-2002 TABLE 392.7(B)</b>					
WIDTH	JCWCO PART NO.	Minimum Cross-Sectional Area of Metal in. <sup>2</sup> Rating	WIDTH	JCWCO PART NO.	Minimum Cross-Sectional Area of Metal in. <sup>2</sup> Rating
1	CH1-GC1	0.2	4	CH4-GC2	0.4
	CH1-NA1	0.2		CH4-NA2	0.4
2	CH2-GC1	0.2		CH4-SS2T4-144-6	0.2
	CH2-NA1	0.2		CH4-SS2T6-144-6	0.2
	CH2-SS1T4-144-6	0.2	6	CH6-GC1-144	0.4
	CH2-SS1T6-144-6	0.2		CH6-NA1	0.4
2	CH2-GC2	0.4		CH6-SS1T4-144-6	0.2
	CH2-NA2	0.4		CH6-SS1T6-144-6	0.2
	CH2-SS2T4-144-6	0.2	6	CH6-GC2	0.7
	CH2-SS2T6-144-6	0.2		CH6-NA2	0.7
4	CH4-GC1	0.2		CH6-SS2T4-144-6	0.4
	CH4-NA1	0.2		CH6-SS2T6-144-6	0.4
	CH4-SS1T4-144-6	0.2			
	CH4-SS1T6-144-6	0.2			

All TUBETRACK® Channel Fittings meet or exceed the minimum cross-sectional area rating of their corresponding Channel Tray listed above. The width of TUBETRACK® Channel Fittings is slightly greater than the corresponding Channel to permit the Channel to bolt inside the fitting. All TUBETRACK® Channel Fittings are supplied with bolting hardware for proper field assembly. Assembly diagrams available on request.

UL® classification of the JCWCO TUBETRACK® system is meant to include the straight lengths of Channel and corresponding Channel Fittings with bolting hardware. Tray Covers, Cover Hold-Down Clamps, Tube and Cable Clamps, non-standard tray or tray components, and other miscellaneous tray accessories are not covered by the UL® classification. UL® classification CYNW.E240501 is for cable tray classified as to its suitability as an equipment grounding conductor only.

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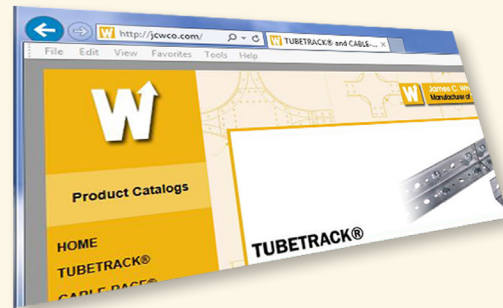
## TUBETRACK® Weights Table

<b>JAMES C. WHITE CO., INC. TUBETRACK® CHANNELS - WEIGHT PER FT. (LB.)</b>					
Depth	Width	Part NO.	CARBON STEEL H.D. GALVANIZED AFTER FABRICATION (GC) (LB./FT.)	ALUMINUM (NA) (LB./FT.)	STAINLESS STEEL 304 & 316 (SS) (LB./FT.)
<b>Angle</b>					
2	2	A2HD2-**2	1.23	0.46	0.91
<b>Flat</b>					
-	2	F2-**-144	0.73	0.27	0.39
	4	F4-**-144	1.40	0.54	0.75
	6	F6-**-144	2.13	0.82	1.18
<b>Channel</b>					
1	1	CH1-**1	0.76	0.28	(16 ga.) 0.57
	2	CH2-**1	1.04	0.40	(16 ga.) 0.78
	4	CH4-**1	1.52	0.58	(16 ga.) 1.13
	6	CH6-**1	1.98	0.79	(16 ga.) 1.56
2	2	CH2-**2	2.05	0.64	(16 ga.) 1.19
	4	CH4-**2	2.58	0.82	(16 ga.) 1.55
	6	CH6-**2	3.48	1.15	(16 ga.) 1.97

\*\* = GC, NA, or SS

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Weight information is also available on the company website ([www.JCWCO.com](http://www.JCWCO.com)) under the "Load & Deflection Information" link. Find and click on the interactive program to also find calculations for span planning of TUBETRACK® structural straight lengths.



Select a desired TUBETRACK® part:

Select a desired support spacing:  ft

Enter desired actual live load:  #/ft

LIVE LOAD consist of the uniform weight lb/ft of wires, tubing, clamps, fasteners, snow, ice, wind and any other loading possibilities except the uniform lb/ft of the bare TUBETRACK®.

**Material Data**  
 Part Number/Description = GALVANIZED CARBON STEEL ("GC") CHANNEL 1"x1" CHANNEL- PART# CH1-GC1 - 14 gage (0.068")  
 Fy = 36 ksi  
 E = 29000 ksi  
 Member Weight = 0.76 #/ft

