



# TOUGHTray

- Submittals -

(ACCs Bulk Package)

6

5

4

3

2

1

**HARDWARE INCLUDED:**



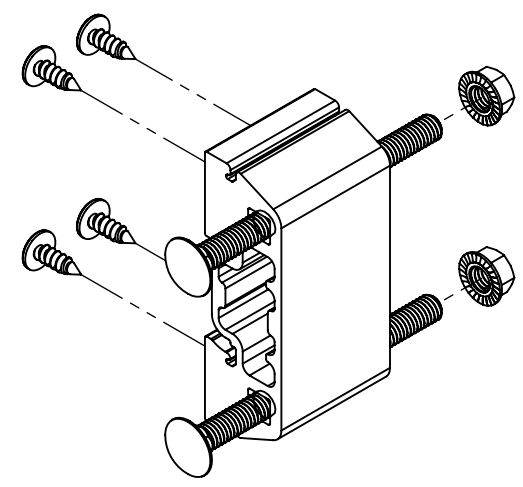
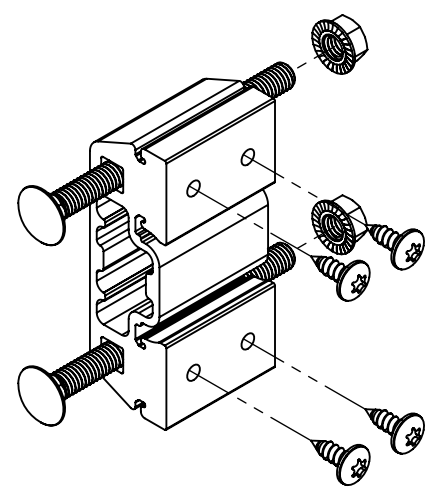
- (4 EA) TA38SNCB450-S6  
3/8 X 4.5" SQUARE NECK CARRIAGE BOLT



- (4 EA) TA38FNHX-S6  
3/8 SERRATED FLANGE HEX NUT



- (8 EA) TA25THS075-S6  
1/4 X 3/4" TORX HEAD SELF-DRILLING SCREW



**TTA - LINK - 4**

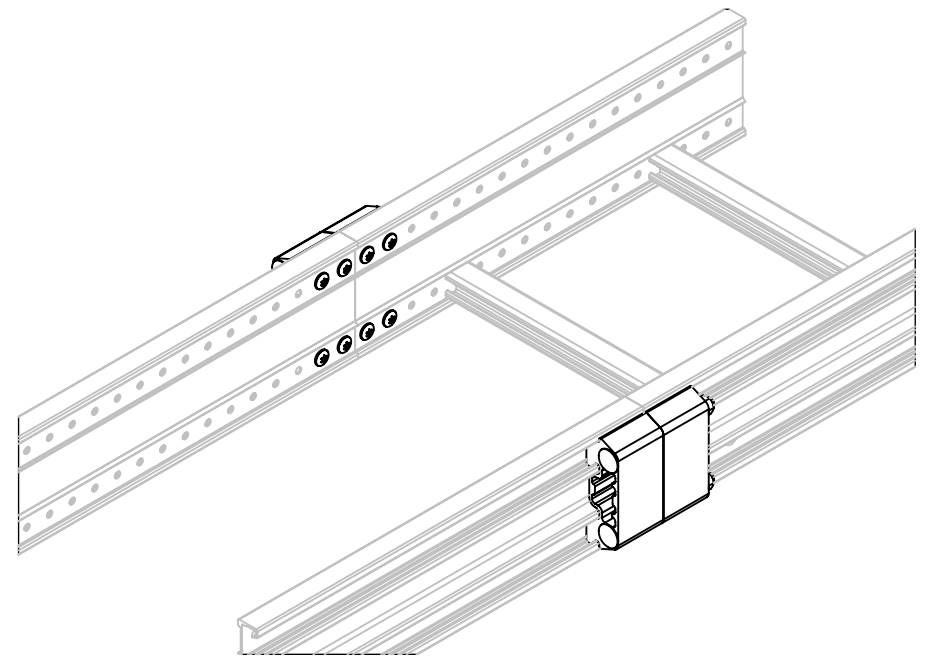
SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
LINK =  
LINK CONNECTOR

TRAY NOMINAL  
HEIGHT  
4 = 4"

**NOTE(S):**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED IN PAIRS COMPLETE W/ HARDWARE.




ISO INSTALLED VIEW



SECTION VIEW

**PATENT PENDING**

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TTA-LINK-4 TOUGHTRAY ACCESSORY 4" LINK CONNECTOR</b>		
	DRAWN BY/DATE: LW 09JUL2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S41995</b>
APPROVED BY/DATE: JDG 09JUL2024	SCALE: <b>NTS</b>	CAD FILE NAME: TTS09-(H)(W)(X)(L)-AL_A CAD SAVE DATE: Tuesday, July 9, 2024 6:25:03 PM	SHEET: <b>1 OF 1</b>

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E

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D

D

C

C

B

B

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A

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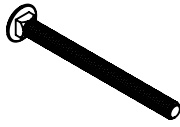
4

3

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1

**HARDWARE INCLUDED:**



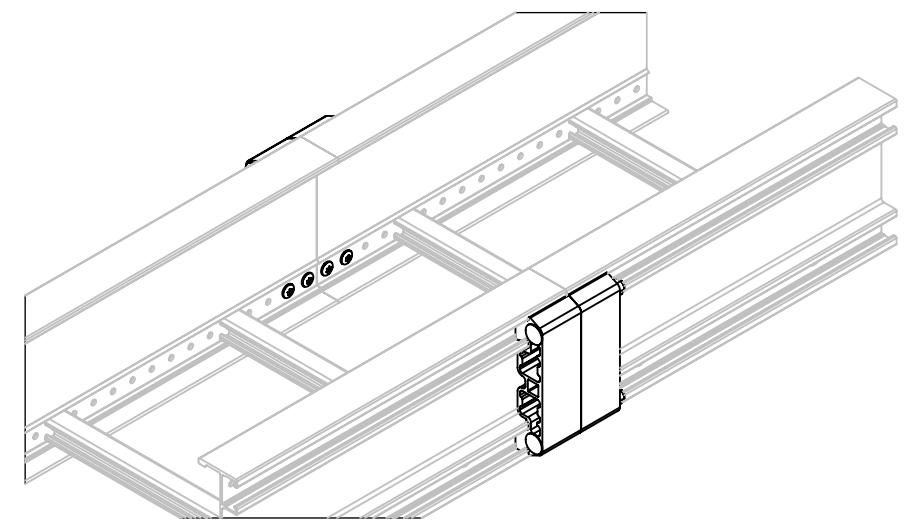
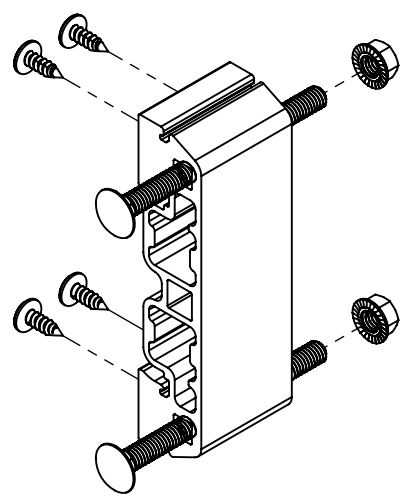
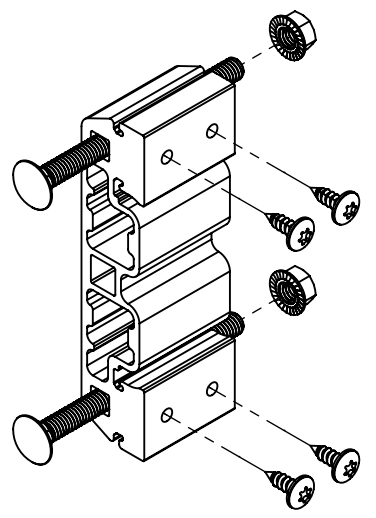
- (4 EA) TA38SNCB450-S6  
3/8 X 4.5" SQUARE NECK CARRIAGE BOLT



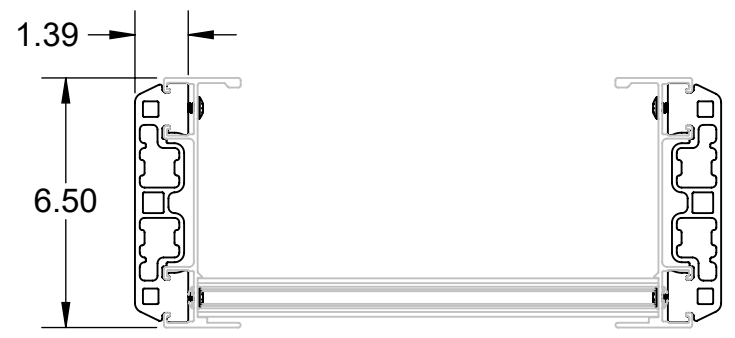
- (4 EA) TA38FNHX-S6  
3/8 SERRATED FLANGE HEX NUT



- (8 EA) TA25THS075-S6  
1/4 X 3/4" TORX HEAD SELF-DRILLING SCREW



ISO INSTALLED VIEW



SECTION VIEW

**TTA - LINK - 6**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
LINK =  
LINK CONNECTOR


TRAY NOMINAL  
HEIGHT  
6 = 6"

**PATENT PENDING**

**NOTE(S):**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED IN PAIRS COMPLETE W/ HARDWARE.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

	TITLE: <b>TTA-LINK-6 TOUGHTRAY ACCESSORY 6" LINK CONNECTOR</b>			
	DRAWN BY/DATE: LW 09JUL2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S41996</b>	REV: <b>C</b>
	APPROVED BY/DATE: JDG 09JUL2024	SCALE: <b>NTS</b>	CAD FILE NAME: TTS09-(H)(W)(L)-AL_A CAD SAVE DATE: Tuesday, July 9, 2024 6:17:12 PM	SHEET: <b>1 OF 1</b>

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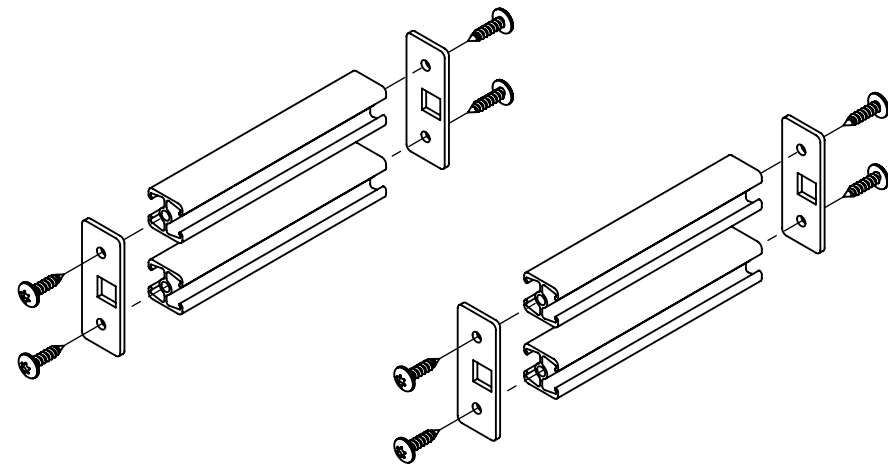
3

2

1

**HARDWARE INCLUDED:**

 - (8EA) TA25THS100-S6  
1/4 X 1" TORX HEAD SELF-DRILLING SCREW

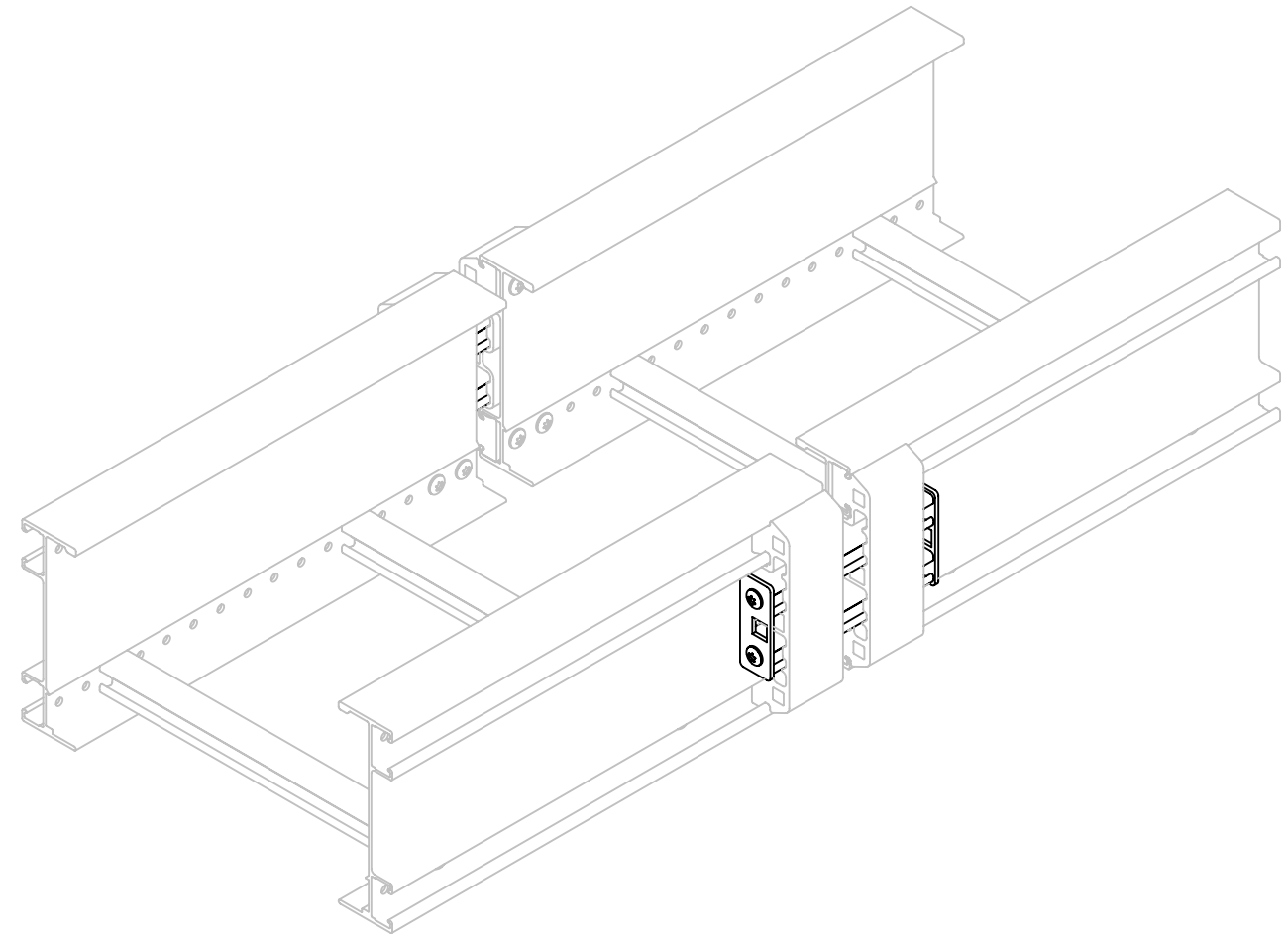


**TTA - EXPNKIT - 6**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
EXPNKIT =  
EXPANSION KIT

SIDERAIL  
HEIGHT  
6 = 6"




INSTALLED VIEW

**PATENT PENDING**

**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED IN PAIRS COMPLETE WITH HARDWARE.
- 4) PROVIDE SUPPORT WITHIN 2FT OF EACH SIDE OF THE EXPANSION KIT.
- 5) INSTALL BONDING JUMPER ON EACH SIDERAIL TO MAINTAIN ELECTRICAL CONTINUITY.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TTA-EXPNKIT-6 TTA EXPANSION KIT</b>		
	DRAWN BY/DATE: LW 27FEB2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48991</b>
APPROVED BY/DATE: JDG 29FEB2024	SCALE: <b>NTS</b>	CAD FILE NAME: Concept_1_EXP-6H CAD SAVE DATE: Tuesday, July 9, 2024 9:56:20 AM	SHEET: <b>1 OF 1</b>

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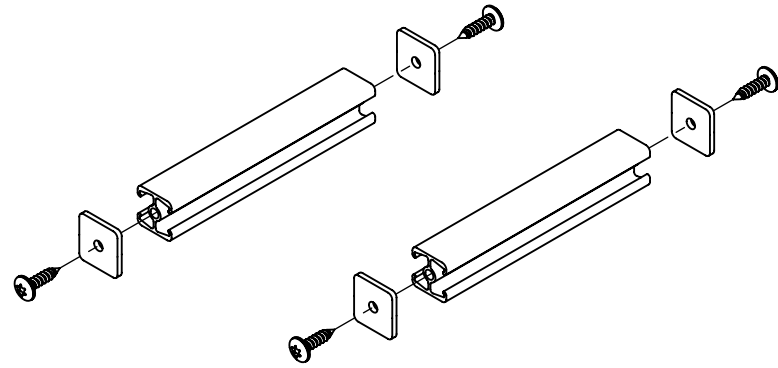
3

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1

**HARDWARE INCLUDED:**

 - (4EA) TA25THS100-S6  
1/4 X 1" TORX HEAD SELF-DRILLING SCREW

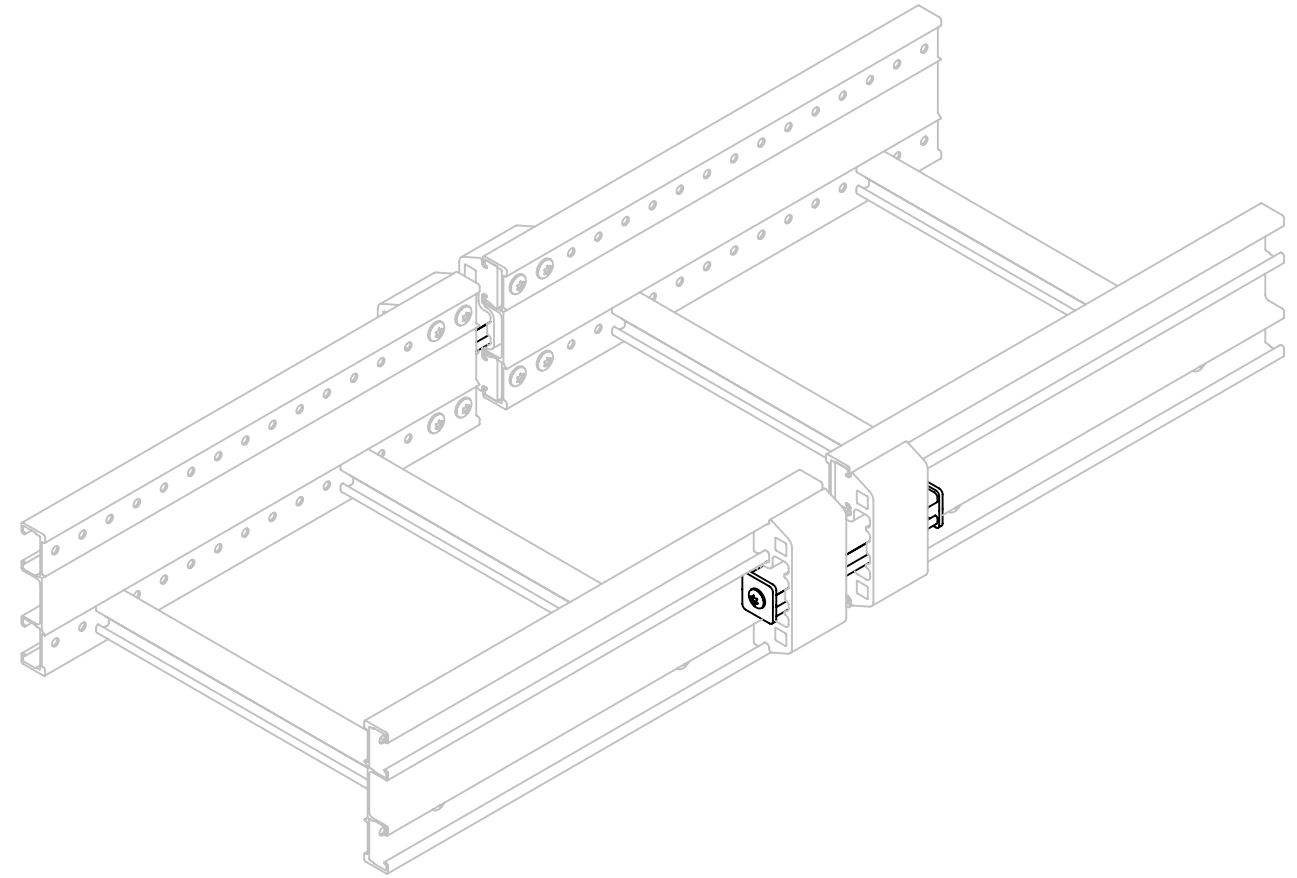


**TTA - EXPNKIT - 4**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
EXPNKIT =  
EXPANSION KIT

SIDERAIL  
HEIGHT  
4 = 4"




INSTALLED VIEW

**PATENT PENDING**

**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED IN PAIRS COMPLETE WITH HARDWARE.
- 4) PROVIDE SUPPORT WITHIN 2FT OF EACH SIDE OF THE EXPANSION KIT.
- 5) INSTALL BONDING JUMPER ON EACH SIDERAIL TO MAINTAIN ELECTRICAL CONTINUITY.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TTA-EXPNKIT-4 TTA EXPANSION KIT</b>		
	DRAWN BY/DATE: LW 27FEB2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48992</b>
APPROVED BY/DATE: JDG 29FEB2024	SCALE: <b>NTS</b>	CAD FILE NAME: Concept_1_EXP-4H CAD SAVE DATE: Tuesday, July 9, 2024 9:56:44 AM	SHEET: <b>1 OF 1</b>

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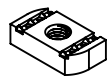
2

1

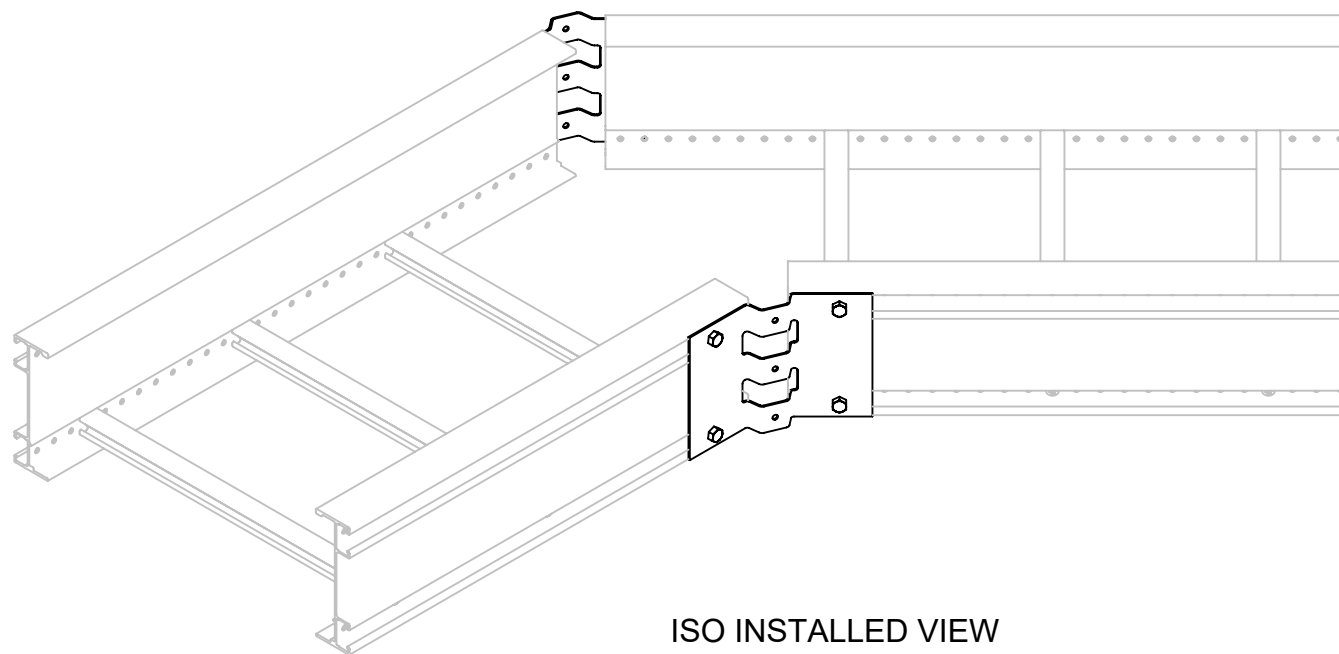
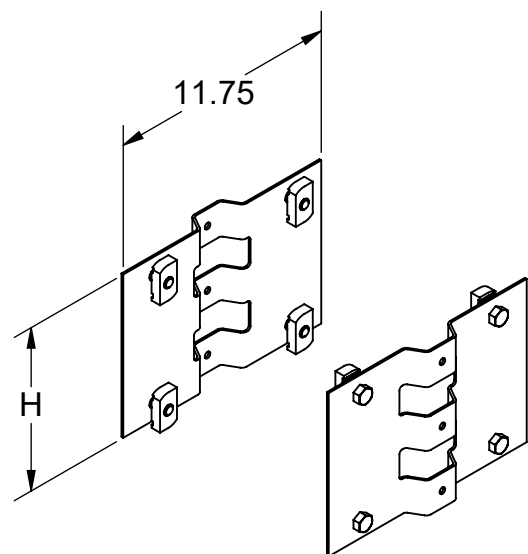
**HARDWARE INCLUDED:**



- (8EA) TA38HX075-S6  
3/8-16 X 3/4" HEX HEAD CAP SCREW



- (8EA) TA38NC-S6  
3/8" CHANNEL NUT



ISO INSTALLED VIEW

**TTA - HADJ - 6**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
HADJ =  
HORIZONTAL  
ADJUSTABLE  
SPLICE PLATE

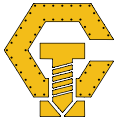
NOMINAL  
HEIGHT (H)  
4 = 4"  
6 = 6"

**PATENT PENDING**

**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED IN PAIRS COMPLETE W/ HARDWARE.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TTA-HADJ-(H) TTA SERIES HORIZONTAL ADJ SPLICE PLATE</b>			
	DRAWN BY/DATE: LW 05APR2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48997</b>	REV: <b>B</b>
	APPROVED BY/DATE: JDG 28APR2023	SCALE: <b>NTS</b>	CAD FILE NAME: TTA-HADJ-(H)_A_SUB CAD SAVE DATE: Monday, July 8, 2024 6:58:56 PM	SHEET: <b>1 OF 1</b>

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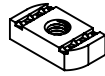
3


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1

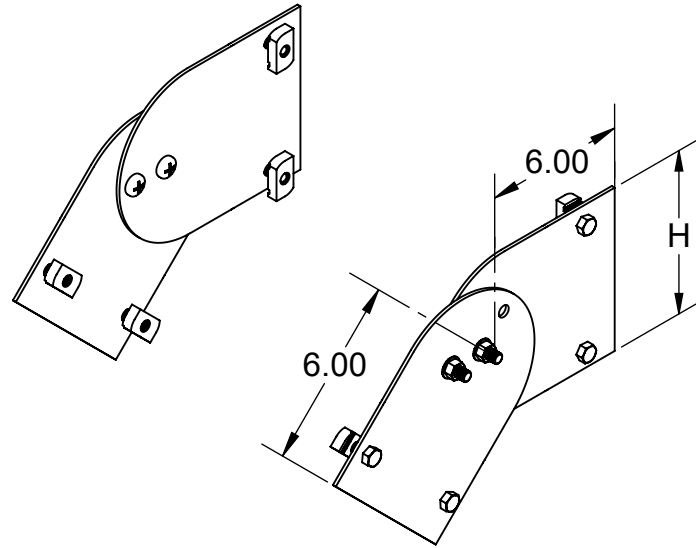
**HARDWARE INCLUDED:**

 - (8EA) TA38HX075-S6  
3/8-16 X 3/4" HEX HEAD CAP SCREW

 - (8EA) TA38NC-S6  
3/8" CHANNEL NUT

 - (4EA) TA38PHM100-S6  
3/8 X 1" PAN HEAD MACHINE SCREW

 - (4EA) TA38FNHX-S6  
3/8 SERRATED FLANGE HEX NUT

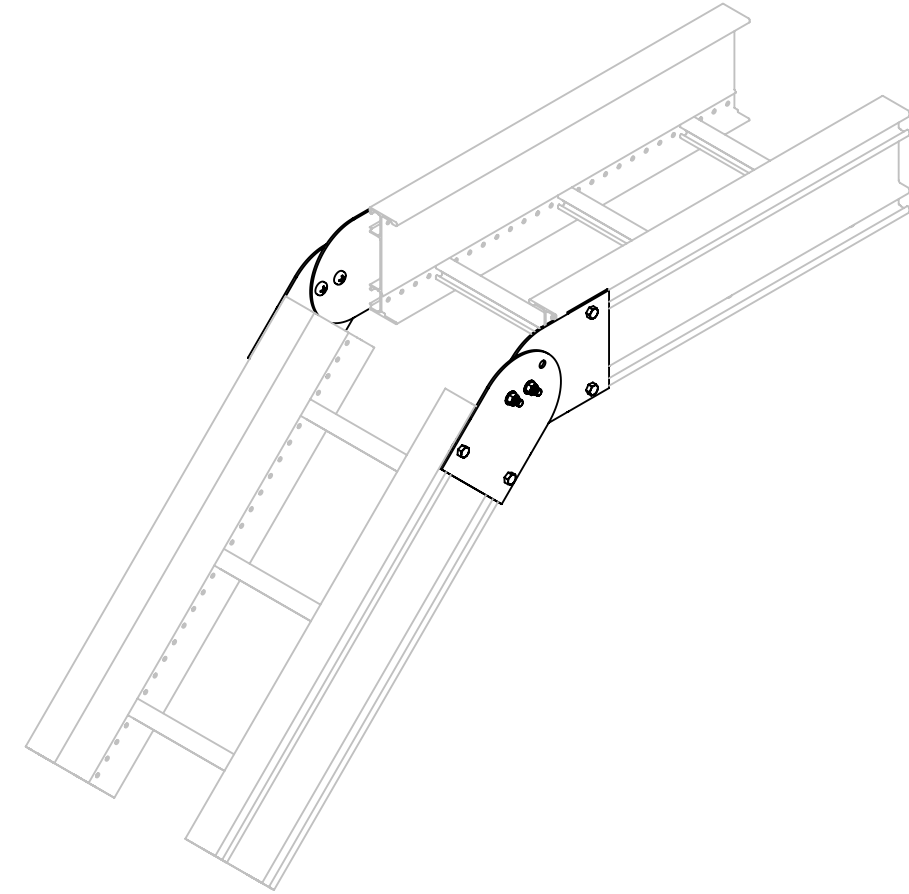


**TTA - VADJ - 6**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
VADJ =  
VERTICAL  
ADJUSTABLE  
SPLICE PLATE

NOMINAL  
HEIGHT (H)  
4 = 4"  
6 = 6"




ISO INSTALLED VIEW

**PATENT PENDING**

**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED IN PAIRS COMPLETE W/ HARDWARE.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TTA-VADJ-(H)</b> <b>TTA SERIES VERTICAL ADJ SPLICE PLATE</b>		
	DRAWN BY/DATE: LW 20NOV2023	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48998</b>
APPROVED BY/DATE: JDG 28APR2023	SCALE: <b>NTS</b>	CAD FILE NAME: TTA-VADJ_A CAD SAVE DATE: Monday, July 8, 2024 7:35:19 PM	SHEET: <b>1 OF 1</b>

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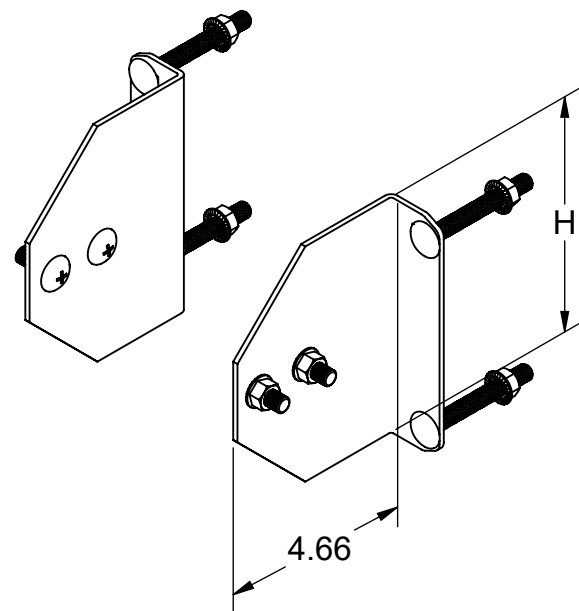
3

2

1

**HARDWARE INCLUDED:**

-  - (4EA) TA38SNCB300-S6  
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT
-  - (8EA) TA38FNHX-S6  
3/8 SERRATED FLANGE HEX NUT
-  - (4EA) TA38PHM100-S6  
3/8 X 1 PAN HEAD MACHINE SCREW

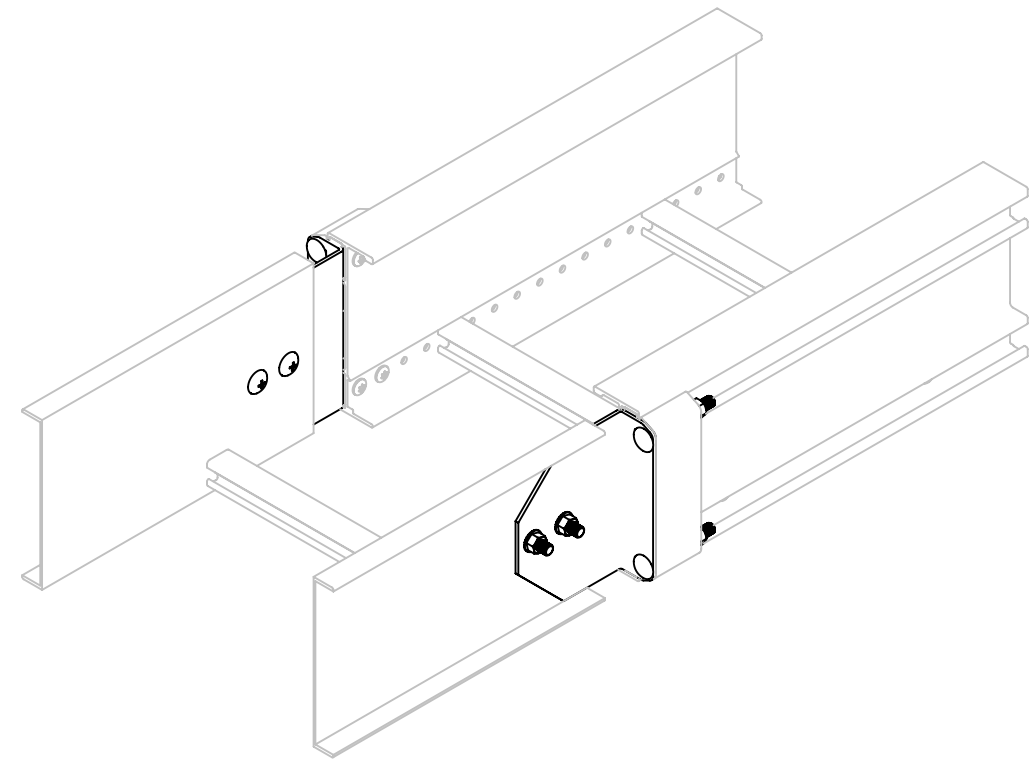


**TTA - USPLICE - 4**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
USPLICE =  
UNIVERSAL  
ADAPTER SPLICE

NOMINAL  
HEIGHT (H)  
4 = 4"  
6 = 6"




ISO INSTALLED VIEW

**PATENT PENDING**

**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED IN PAIRS COMPLETE W/ HARDWARE.
- 4) PROVIDE SUPPORT WITHIN 2FT OF EACH SIDE OF THE UNIVERSAL ADAPTER SPLICE.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TTA-USPLICE-(H)</b> <b>TTA SERIES UNIVERSAL ADAPTER SPLICE</b>		
	DRAWN BY/DATE: LW 28JUN2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S41993</b>
APPROVED BY/DATE: JDG 28JUN2024	SCALE: <b>NTS</b>	CAD FILE NAME: CTI-S41993_A CAD SAVE DATE: Monday, July 8, 2024 2:52:24 PM	SHEET: <b>1 OF 1</b>

6

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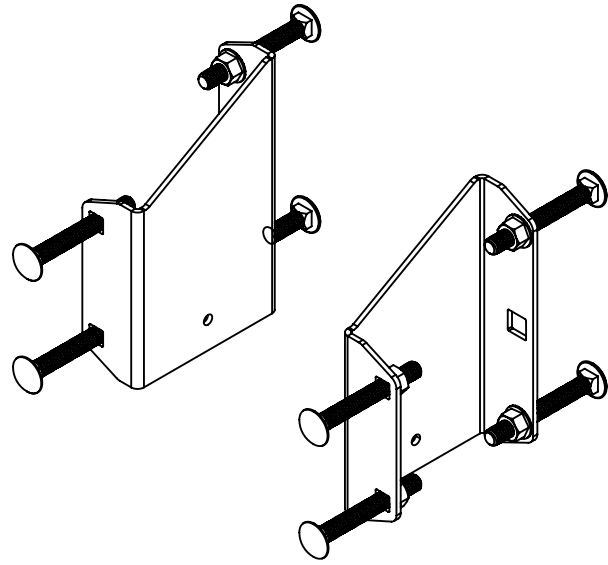
2

1

**HARDWARE INCLUDED:**

 - (8 EA) TA38SNCB300-S6  
3/8 X 3" SQUARE NECK CARRIAGE BOLT

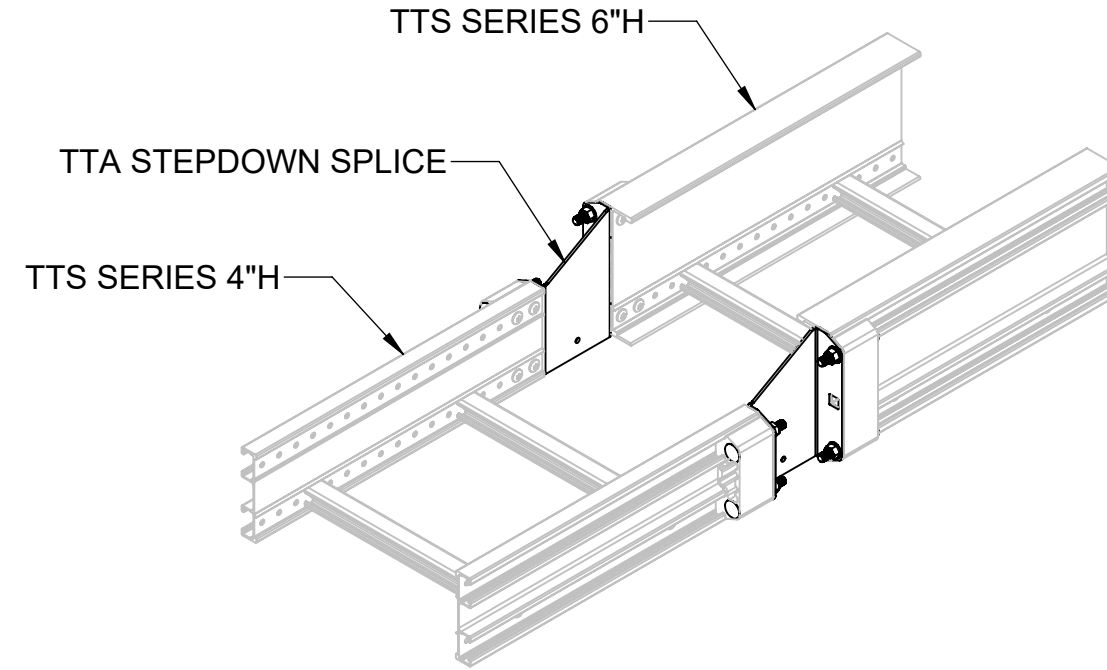
 - (8 EA) TA38FNHX-S6  
3/8 SERRATED FLANGE HEX NUT



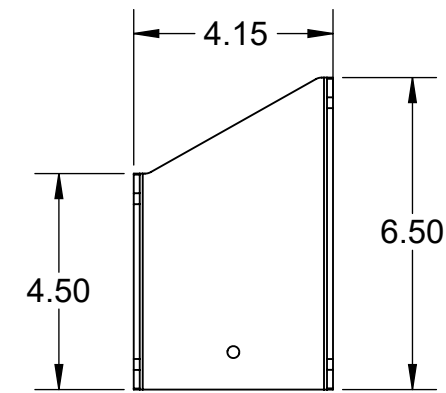
**TTA - STEPDOWN**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
STEPDOWN =  
STEPDOWN SPLICE



INSTALLED VIEW



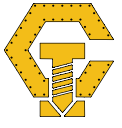
SIDE VIEW

**PATENT PENDING**

**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED IN PAIRS COMPLETE WITH HARDWARE.
- 4) PROVIDE SUPPORT WITHIN 2FT OF EACH SIDE OF THE STEPDOWN SPLICE.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>		TITLE:		
		<b>TTA-STEPDOWN STEP DOWN SPLICE, ALUMINUM</b>		
DRAWN BY/DATE:		SIZE:	DWG. NO.:	REV:
LW 09JUL2024		<b>B</b>	<b>CTI-S48012</b>	<b>B</b>
APPROVED BY/DATE:		SCALE:	CAD FILE NAME: Concept_1_EXP-6H	SHEET:
JDG 09JUL2024		<b>NTS</b>	CAD SAVE DATE: Tuesday, July 9, 2024 6:26:36 PM	<b>1 OF 1</b>



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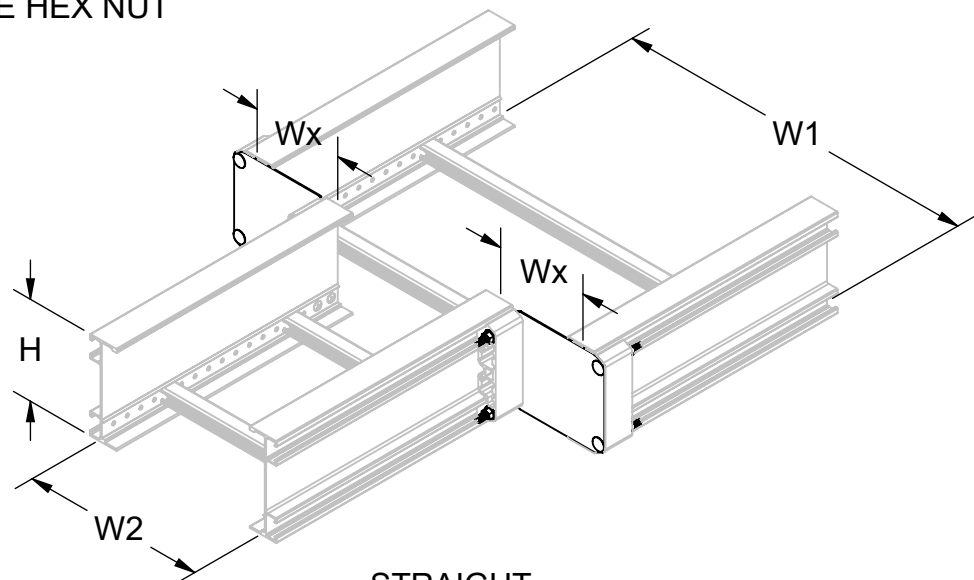
**HARDWARE INCLUDED:**



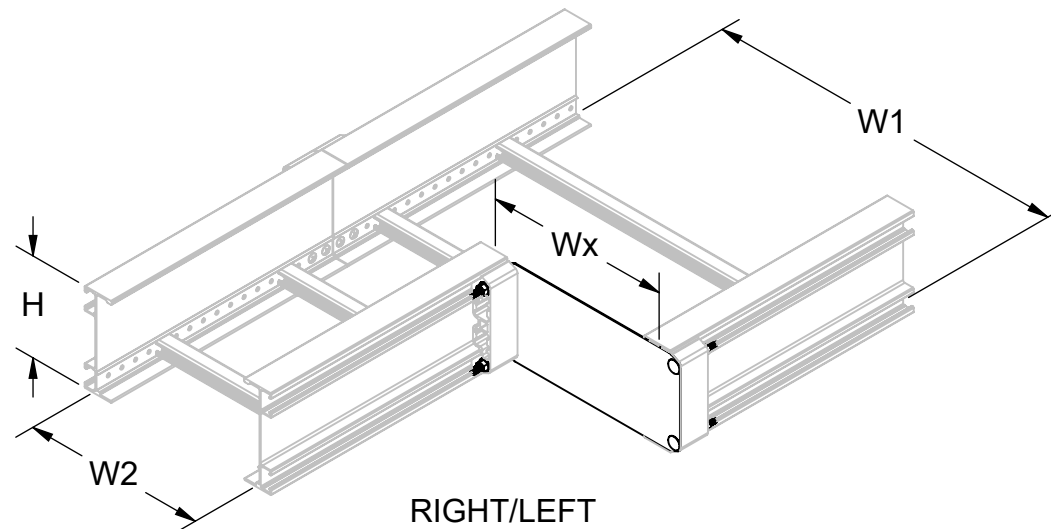
- TA38SNCB300-S6  
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT  
SEE NOTE 3



- TA38FNHX-S6  
3/8 SERRATED FLANGE HEX NUT  
SEE NOTE 3



STRAIGHT REDUCER (SREDU)



RIGHT/LEFT OFFSET REDUCERS (OREDU)

**TTA - SREDU - 6 - 18**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
OREDU = LEFT/  
RIGHT OFFSET  
REDUCER  
SREDU = STRAIGHT  
REDUCER

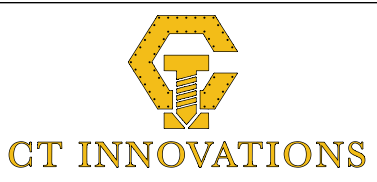
NOMINAL  
HEIGHT (H)  
4 = 4"  
6 = 6"

WIDTH  
REDUCTION  
(Wx)  
03 = 3"  
06 = 6"  
09 = 9"  
12 = 12"  
15 = 15"  
18 = 18"  
21 = 21"  
24 = 24"  
27 = 27"  
30 = 30"

**PATENT PENDING**

**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) STRAIGHT REDUCERS - SUPPLIED WITH 8PCS OF TA38SNCB300- S6 AND TA38FNHX-S6  
LEFT/RIGHT REDUCERS - SUPPLIED WITH 4PCS OF TA38SNCB300- S6 AND TA38FNHX-S6

<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.</small>				
	<b>TITLE:</b> <b>4" AND 6" HEIGHT          TTA SERIES STRAIGHT &amp; OFFSET REDUCERS</b>			
	<b>DRAWN BY/DATE:</b> LW 01JUL2024	<b>SIZE:</b> <b>B</b>	<b>DWG. NO.:</b> <b>CTI-S48999</b>	<b>REV:</b> <b>B</b>
	<b>APPROVED BY/DATE:</b> JDG 05JUL2024	<b>SCALE:</b> <b>NTS</b>	<small>CAD FILE NAME: CTI-S48999_A          CAD SAVE DATE: Monday, July 8, 2024 2:53:41 PM</small>	<b>SHEET:</b> <b>1 OF 1</b>

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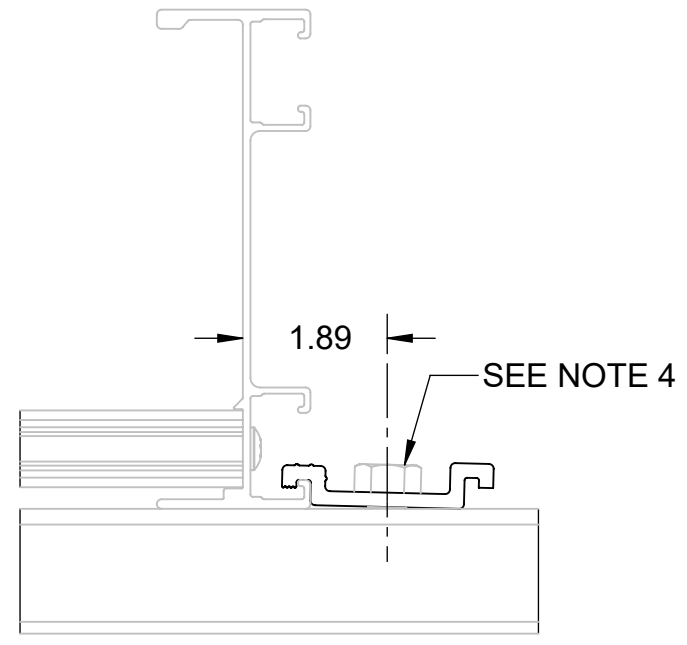
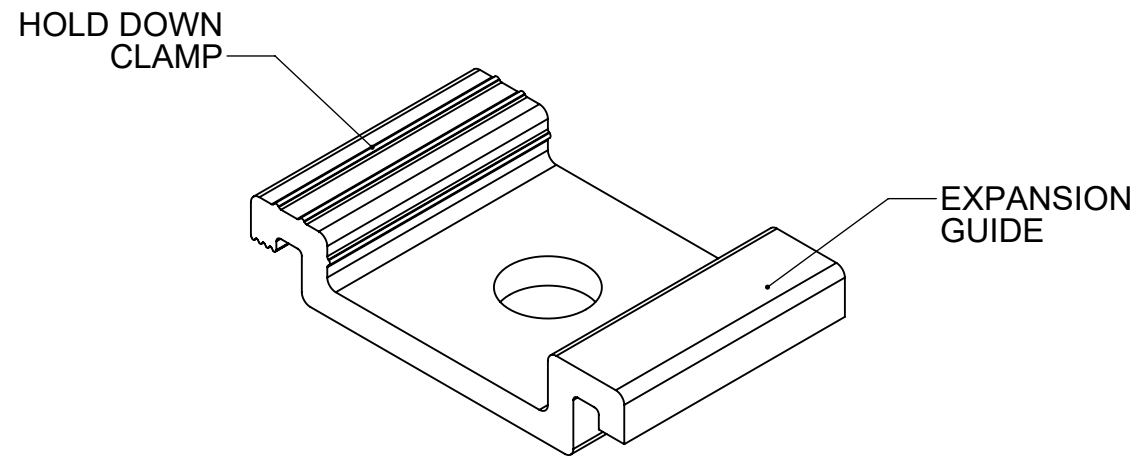
C

B

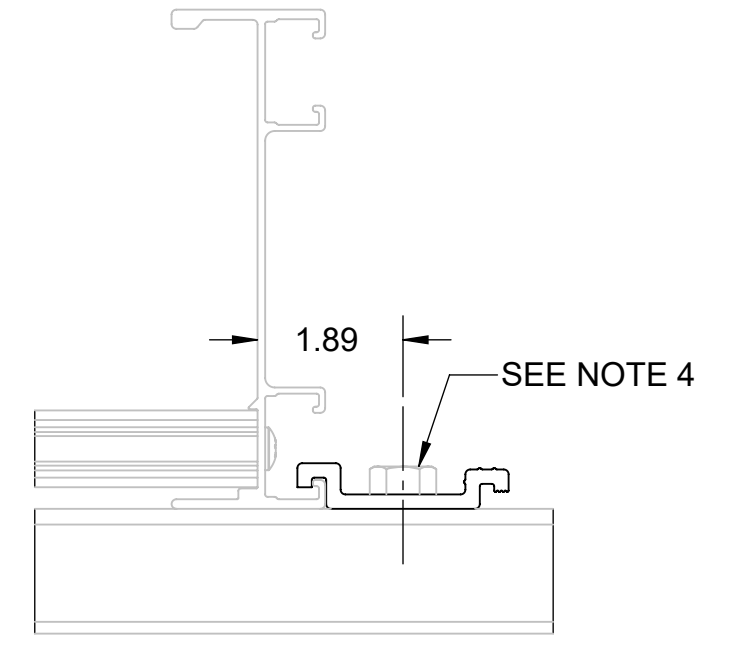
B

A

A



INSTALLED AS CLAMP

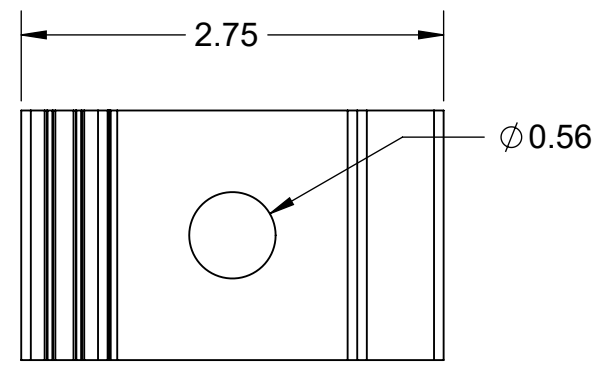


INSTALLED AS GUIDE

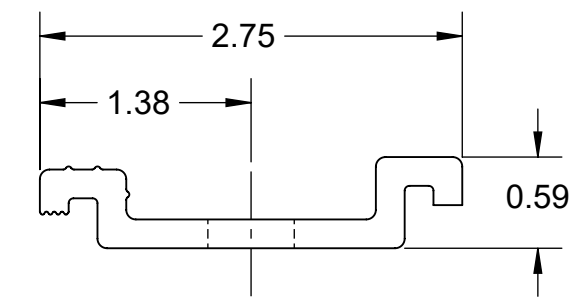
**TTA - CLAMPGUIDE - U**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
CLAMPGUIDE - U =  
CLAMP & GUIDE  
RESTRAINT



TOP VIEW




SIDE VIEW

**PATENT PENDING**

**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED IN PAIRS WITHOUT HARDWARE.
- 4) 3/8 OR 1/2 SUPPORT ATTACHMENT HARDWARE TO BE ORDERED SEPARATELY.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TTA-CLAMPGUIDE-U CLAMP &amp; GUIDE RESTRAINT</b>		
	DRAWN BY/DATE: LW 28JUN2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S41006</b>
APPROVED BY/DATE: JDG 23OCT2023	SCALE: <b>NTS</b>	CAD FILE NAME: CTI-41006_A CAD SAVE DATE: Friday, June 28, 2024 2:43:52 PM	SHEET: <b>1 OF 1</b>

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

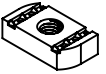
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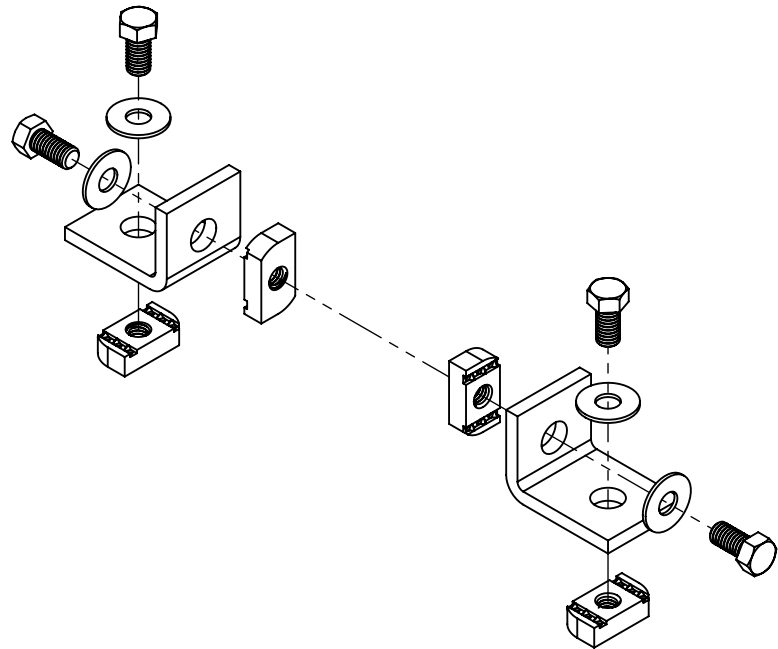
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**HARDWARE INCLUDED:**

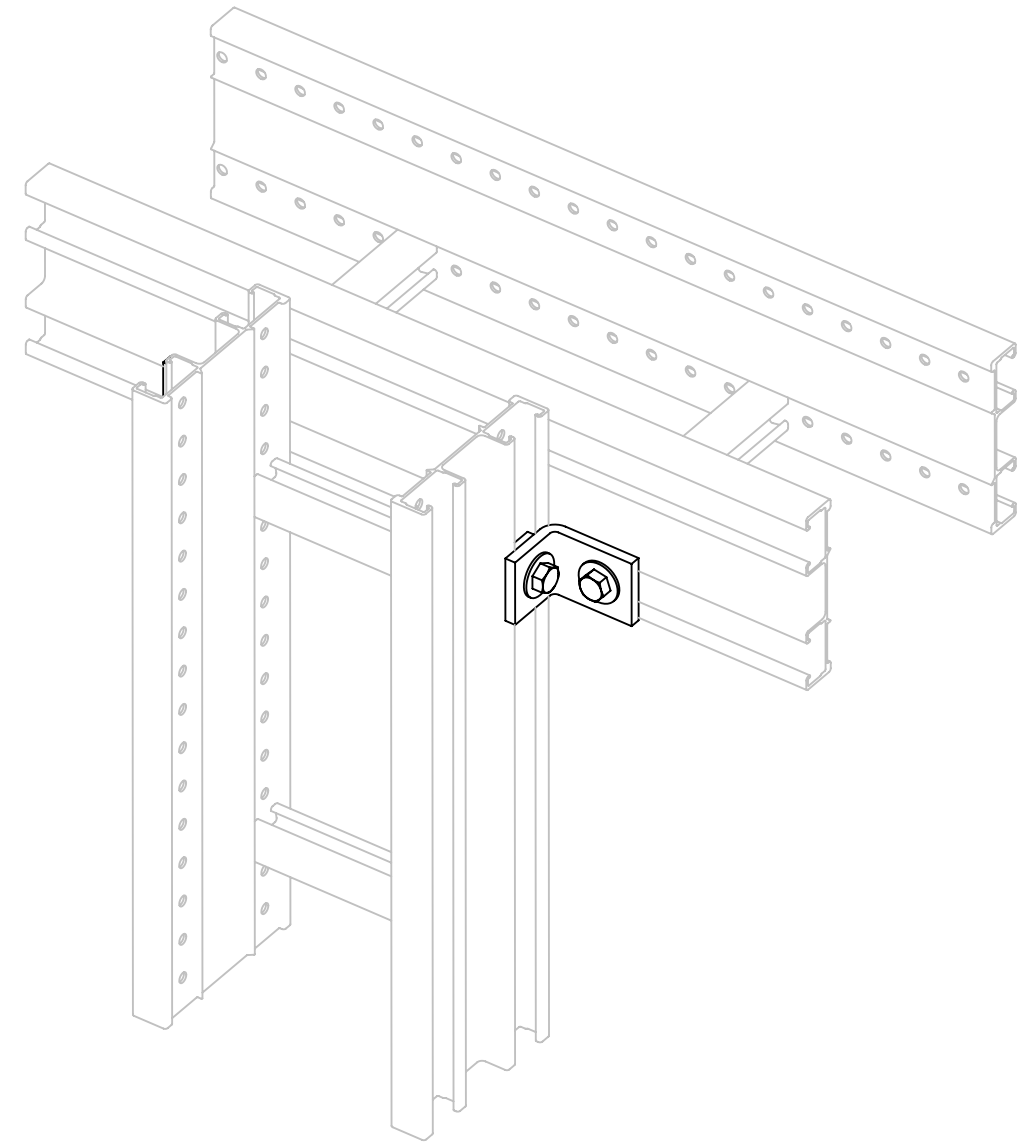
-  - (4 EA) TA38HX100-S6  
3/8-16 X 1" HEX HEAD CAP SCREW
-  - (4 EA) TA38W-S6  
3/8 FLAT WASHER
-  - (4 EA) TA38NC-S6  
3/8-16 CHANNEL NUT



**TTA - CCBRKT**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
CCBRKT =  
CROSS CONNECTOR BRACKET



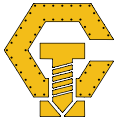
ISO INSTALLED VIEW

**PATENT PENDING**

**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED IN PAIRS WITH SIDERAIL ATTACHMENT HARDWARE.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>		TITLE:		
		<b>TTA-CCBRKT</b> <b>TTA CROSS CONNECTOR BRACKET</b>		
DRAWN BY/DATE:		SIZE:	DWG. NO.:	REV:
VA 14NOV2023		<b>B</b>	<b>CTI-S48149</b>	<b>A</b>
APPROVED BY/DATE:		SCALE:	CAD FILE NAME: CTI-548149	SHEET:
JDG 15NOV2023		<b>NTS</b>	CAD SAVE DATE: Monday, July 8, 2024 6:54:00 PM	<b>1 OF 1</b>

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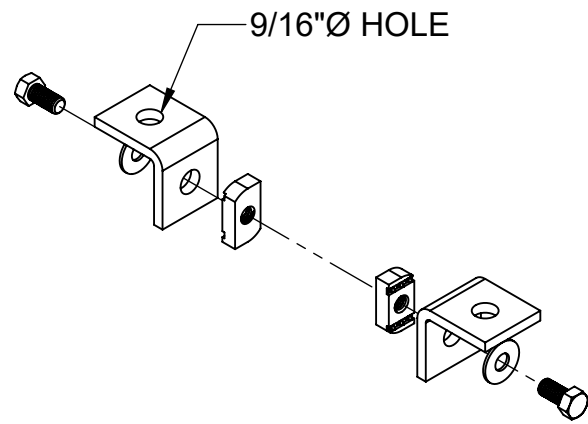
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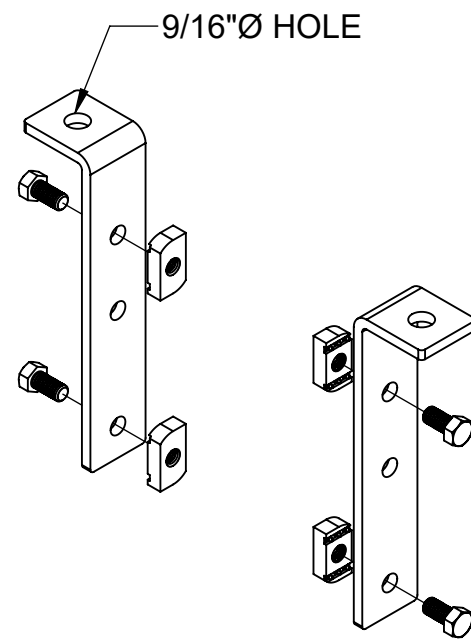
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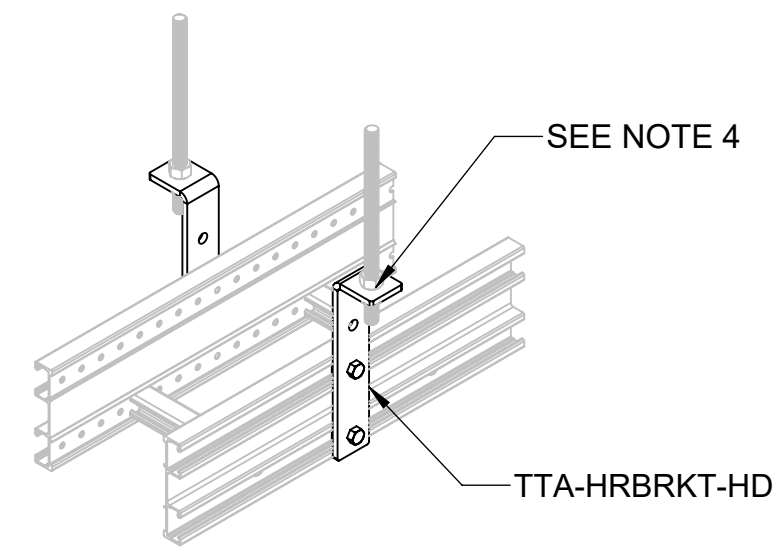
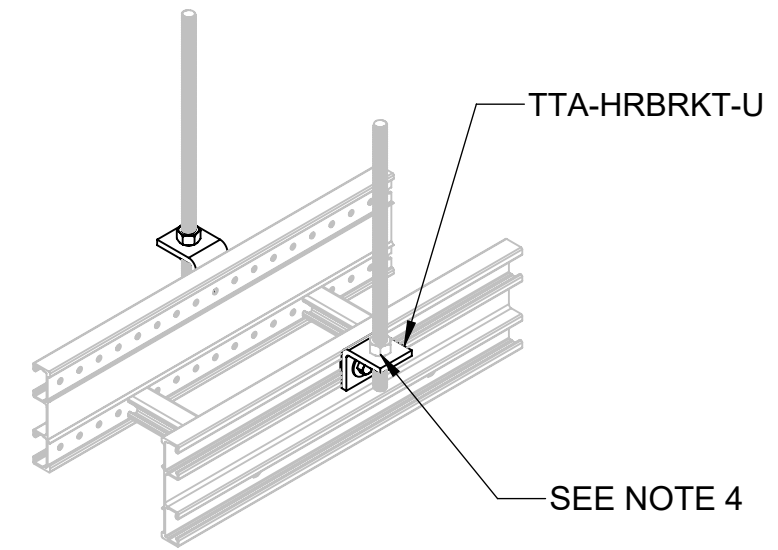
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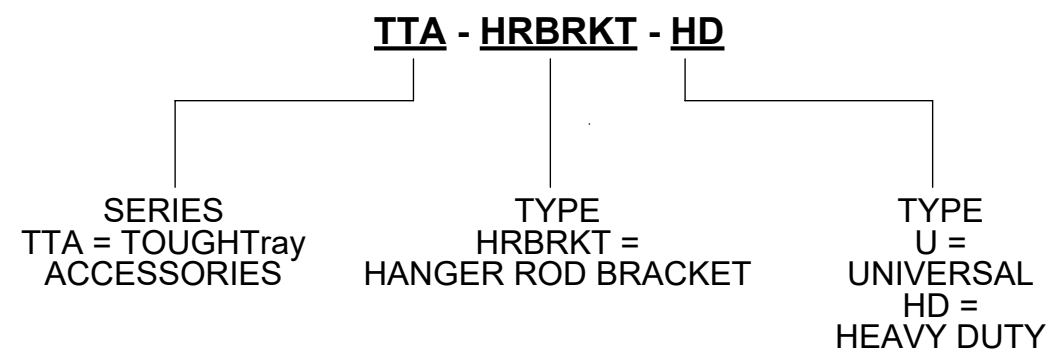
TTA-HRBRKT-U  
UNIVERSAL HANGER  
ROD BRACKET



TTA-HRBRKT-HD  
HEAVY DUTY HANGER  
ROD BRACKET




ISO INSTALLED VIEW



**PATENT PENDING**

- NOTES:**
- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
  - 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
  - 3) SUPPLIED IN PAIRS WITH 3/8 SIDERAIL ATTACHMENT HARDWARE.
  - 4) SUPPORT ATTACHMENT HARDWARE TO BE ORDERED SEPARATELY.

<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.</small>			
	TITLE: <b>TTA-HRBRKT-(X) HANGER ROD BRACKET</b>		
	DRAWN BY/DATE: LW 28FEB2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48968</b>
APPROVED BY/DATE: JDG 29FEB2024	SCALE: <b>NTS</b>	CAD FILE NAME: TTA-HRBRKT-HD CAD SAVE DATE: Wednesday, February 28, 2024 11:32:24 AM	SHEET: <b>1 OF 1</b>

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

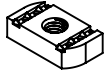

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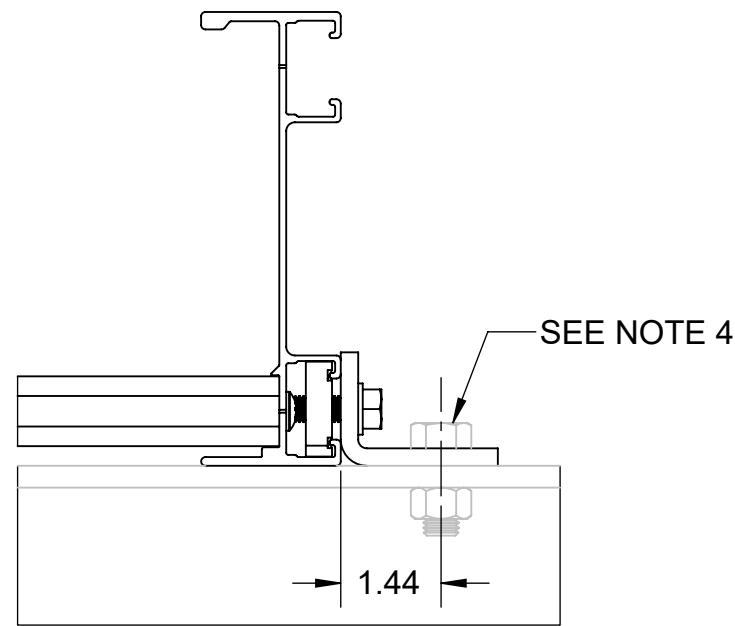
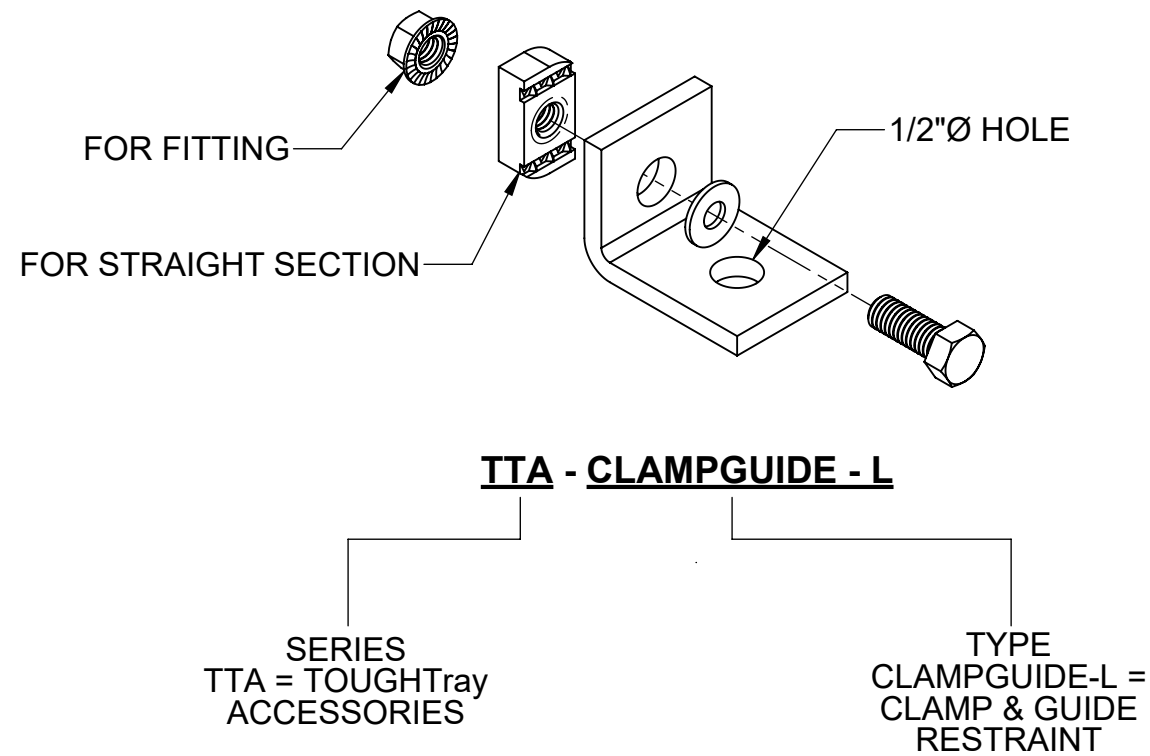
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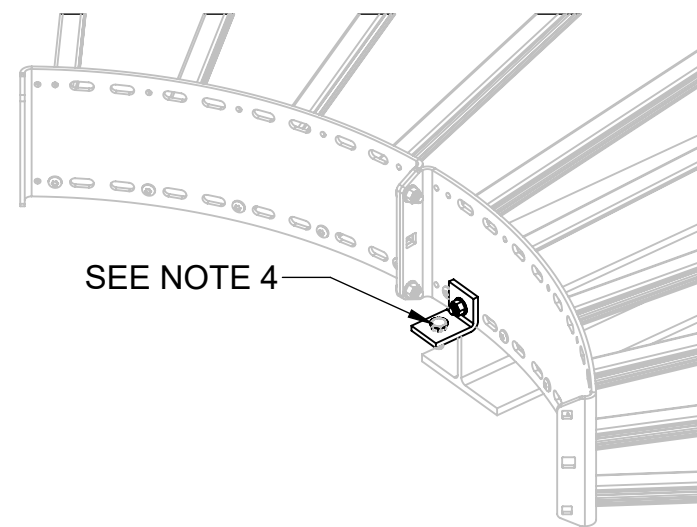
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**HARDWARE INCLUDED:**

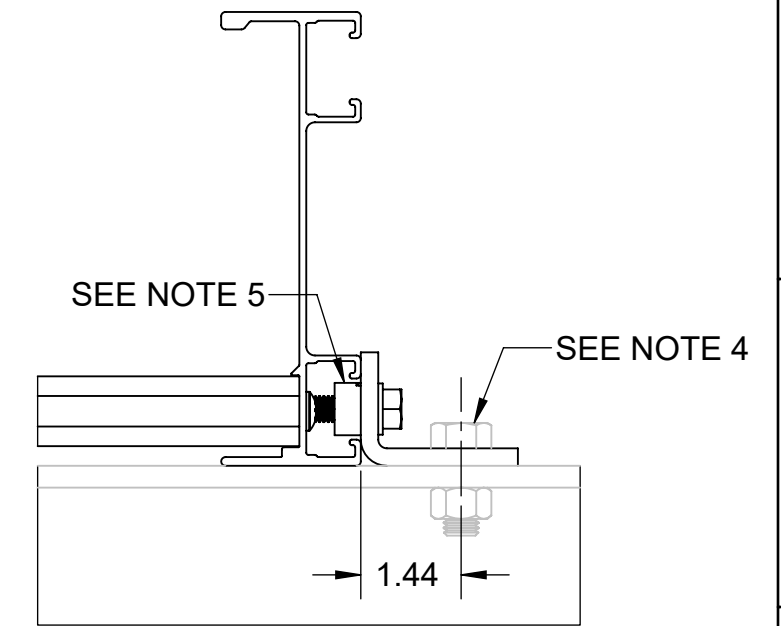
-  - (2 EA) TA38HX100-S6  
3/8-16 X 1" HEX HEAD CAP SCREW
-  - (2 EA) TA38W-S6  
3/8 FLAT WASHER
-  - (2 EA) TA38NC-S6  
3/8-16 CHANNEL NUT
-  - (2 EA) TA38FNHX-S6  
3/8 SERRATED FLANGE HEX NUT



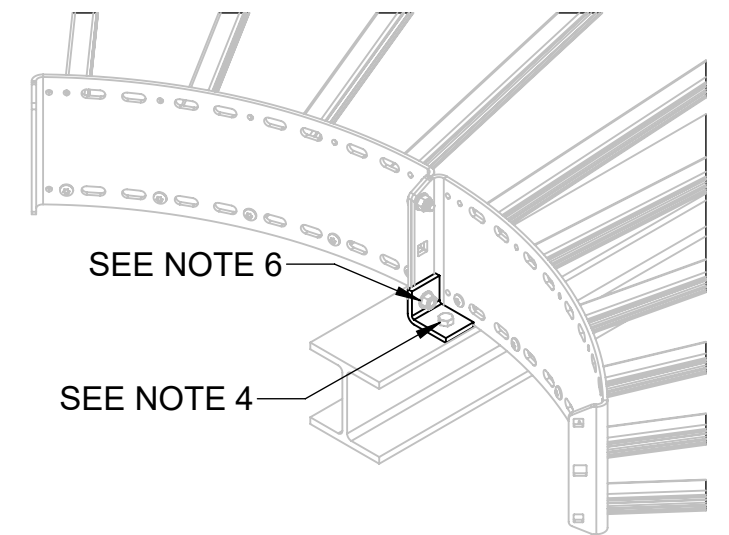
**INSTALLED AS A HOLD DOWN CLAMP  
(STRAIGHT SECTION)**



**INSTALLED AS A HOLD DOWN CLAMP  
(FITTING SIDERAIL)**



**INSTALLED AS A HOLD DOWN GUIDE  
(STRAIGHT SECTION)**




**INSTALLED AS A HOLD DOWN CLAMP  
(FITTING LINK CONNECTION)**

**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED IN PAIRS WITH SIDERAIL ATTACHMENT HARDWARE.
- 4) 3/8 AND 1/2 SUPPORT ATTACHMENT HARDWARE TO BE ORDERED SEPARATELY.
- 5) CHANNEL NUT TO BE INSTALLED AND ORIENTED IN HORIZONTAL POSITION WHEN USED AS A HOLD DOWN GUIDE TO PREVENT IT FROM ENGAGING THE SIDERAIL AND ALLOW LONGITUDINAL MOVEMENT DURING THERMAL EXPANSION/CONTRACTION.
- 6) CONNECT THE HOLD DOWN CLAMP TO FITTING LINK HARDWARE.

**PATENT PENDING**

<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.</small>			
 <b>CT INNOVATIONS</b>		<b>TTA-CLAMPGUIDE-L TTA CLAMP &amp; GUIDE RESTRAINT</b>	
DRAWN BY/DATE: LW 18JAN2024		SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48095</b>
APPROVED BY/DATE: JDG 16JAN2024		SCALE: <b>NTS</b>	REV: <b>A</b>
		CAD FILE NAME: CTI-S48095_A CAD SAVE DATE: Tuesday, July 9, 2024 9:39:21 AM	SHEET: <b>1 OF 1</b>

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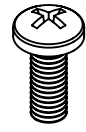
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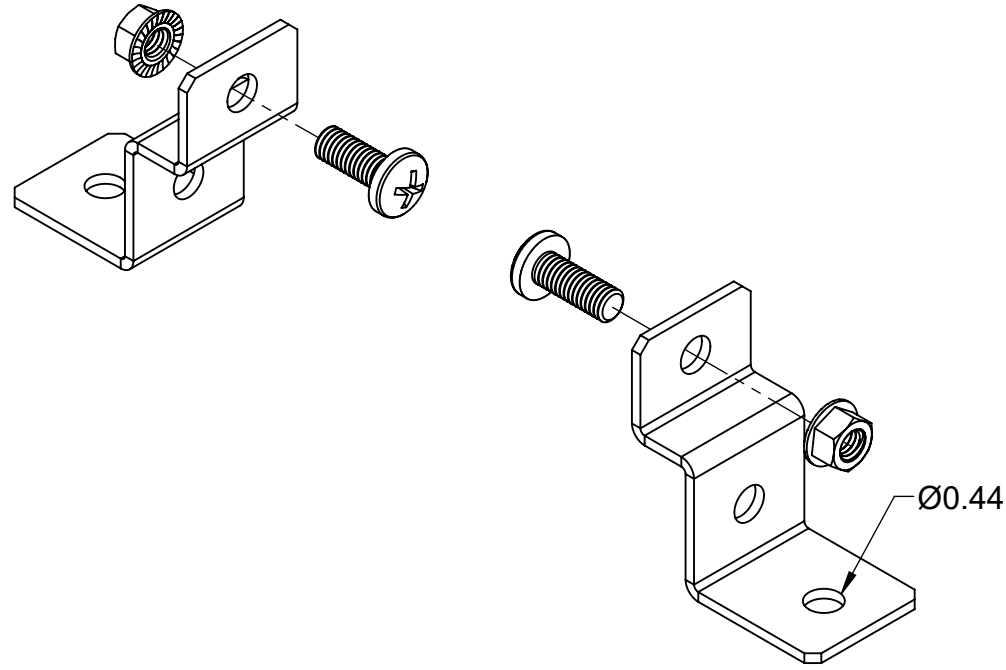
**HARDWARE INCLUDED:**



- (2 EA) TA38PHM100-S6  
3/8 X 1" PAN HEAD MACHINE SCREW



- (2 EA) TA38FNHX-S6  
3/8 SERRATED FLANGE HEX NUT

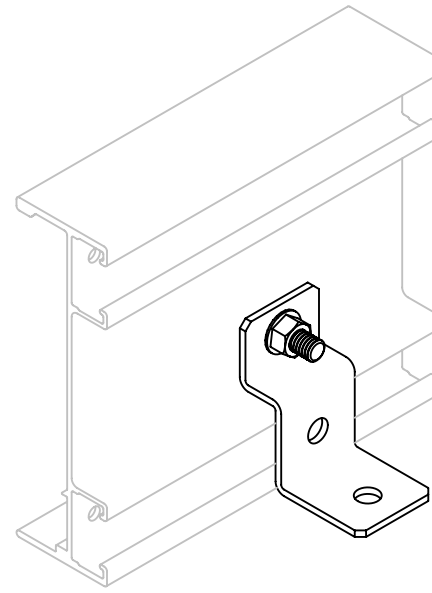


**TTA - CLAMP - 1HD**

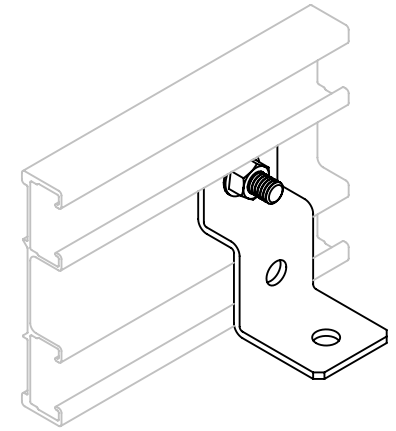
SERIES  
TTA = TOUGHTray  
ACCESSORIES

CLAMP =  
BOLT-THRU CLAMP

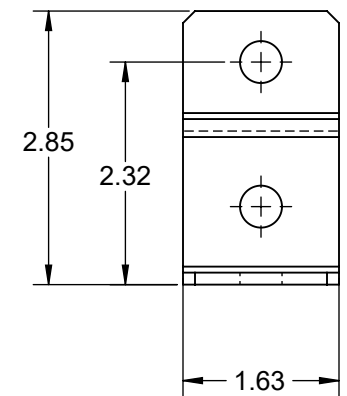
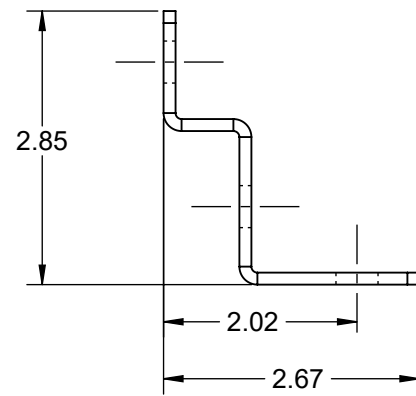
1HD =  
HEAVY DUTY



INSTALLED VIEW  
(6" SIDERAIL)



INSTALLED VIEW  
(4" SIDERAIL)



**NOTE(S):**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED IN PAIRS WITH SIDERAIL ATTACHMENT HARDWARE.
- 4) 3/8 SUPPORT ATTACHMENT HARDWARE TO BE ORDERED SEPARATELY

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.



TITLE:  
**TTA-CLAMP-1HD  
HD BOLT-THRU CLAMP**

DRAWN BY/DATE:  
DL 15JAN2024

SIZE: **B** DWG. NO.: **CTI-S48147** REV: **C**

APPROVED BY/DATE:  
JDG 16JAN2024

SCALE: **NTS** CAD FILE NAME: CTI-48147\_A SHEET: **1 OF 1**  
CAD SAVE DATE: Monday, July 8, 2024 6:53:15 PM

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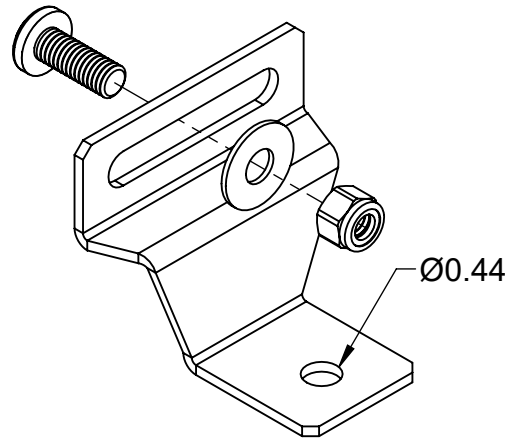
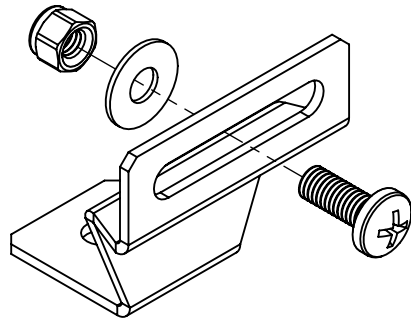
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**HARDWARE INCLUDED:**

-  - (2 EA) TA38PHM100-S6  
3/8 X 1" PAN HEAD MACHINE SCREW
-  - (2 EA) TA38W-S6  
3/8 FLAT WASHER
-  - (2 EA) TA38NHN-S6  
3/8 NYLON HEX NUT

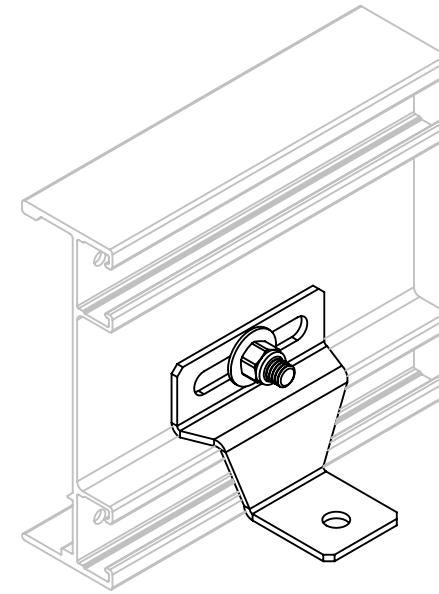


**TTA - GUIDE - 1HD**

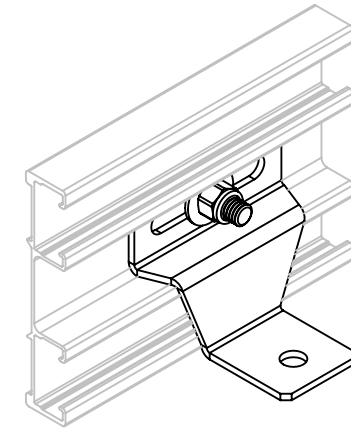
SERIES  
TTA = TOUGHTray  
ACCESSORIES

GUIDE =  
BOLT-THRU GUIDE

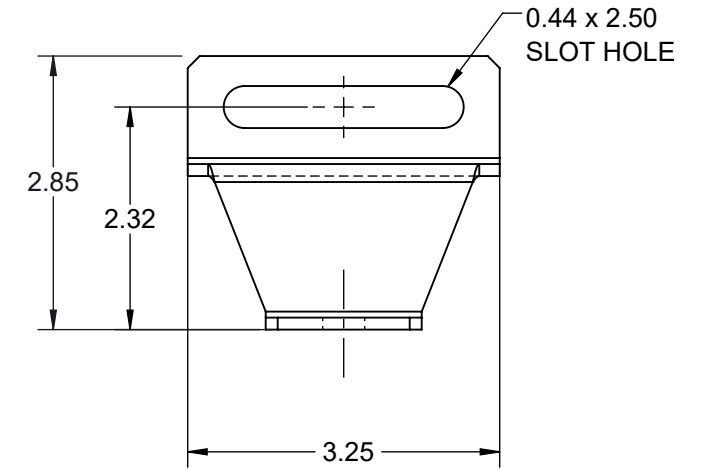
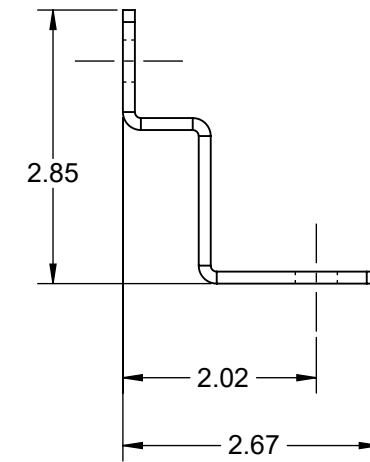
1HD =  
HEAVY DUTY



INSTALLED VIEW  
(6" SIDERAIL)




INSTALLED VIEW  
(4" SIDERAIL)



**NOTE(S):**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED IN PAIRS WITH SIDERAIL ATTACHMENT HARDWARE.
- 4) 3/8 SUPPORT ATTACHMENT HARDWARE TO BE ORDERED SEPARATELY

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>		TITLE: <b>TTA-GUIDE-1HD HD BOLT-THRU GUIDE</b>		
		DRAWN BY/DATE: DL 15JAN2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48146</b>
APPROVED BY/DATE: JDG 14JAN2024		SCALE: <b>NTS</b>	CAD FILE NAME: CTI-48146_A CAD SAVE DATE: Monday, July 8, 2024 6:52:35 PM	SHEET: <b>1 OF 1</b>

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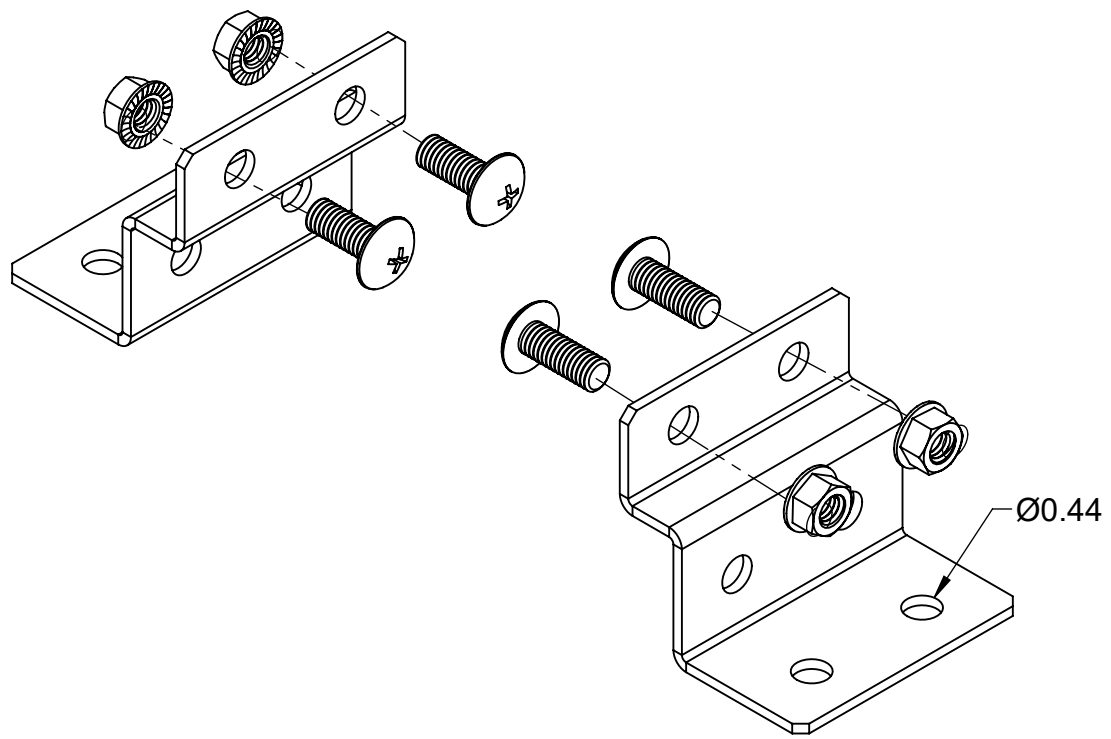
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**HARDWARE INCLUDED:**

-  - (4EA) TA38PHM100-S6  
3/8 X 1.0" PAN HEAD MACHINE SCREW
-  - (4EA) TA38FNHX-S6  
3/8 SERRATED FLANGE HEX NUT



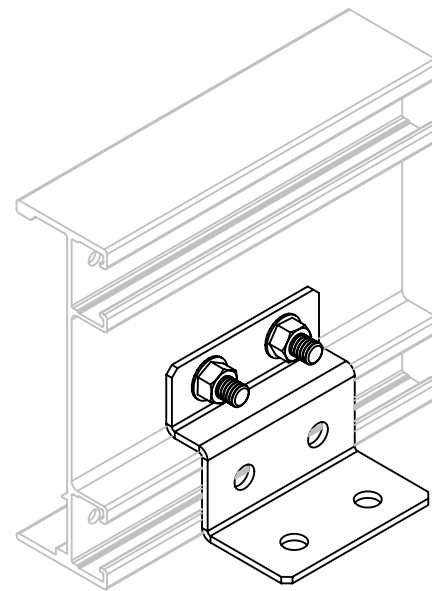
**TTA - CLAMP - 2HD**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

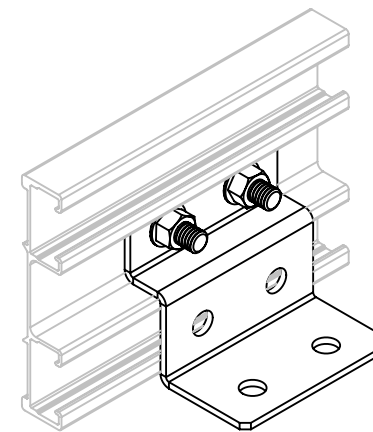
CLAMP =  
BOLT-THRU CLAMP

2HD =  
EXTRA  
HEAVY DUTY

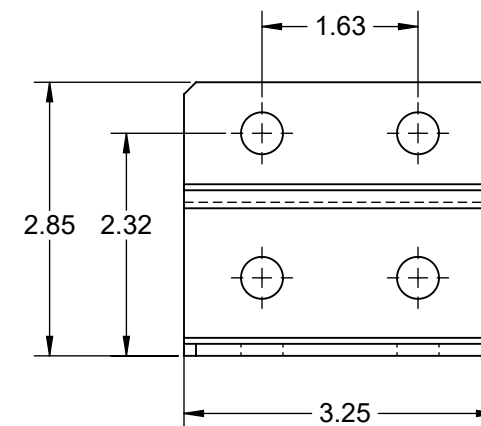
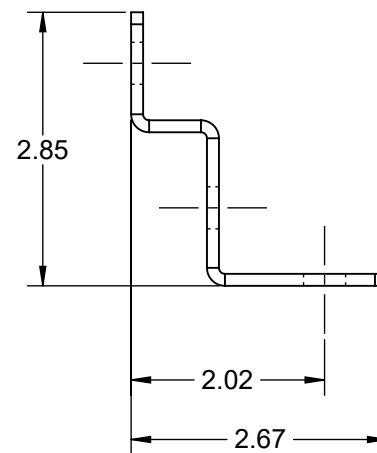
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INSTALLED VIEW  
(6" SIDERAIL)

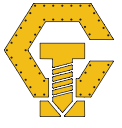


INSTALLED VIEW  
(4" SIDERAIL)



- NOTE(S):**
- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
  - 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
  - 3) SUPPLIED IN PAIRS WITH SIDERAIL ATTACHMENT HARDWARE.
  - 4) 3/8 SUPPORT ATTACHMENT HARDWARE TO BE ORDERED SEPARATELY

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 <b>CT INNOVATIONS</b>	<b>TITLE:</b> <b>TTA-CLAMP-2HD EXTRA HD BOLT-THRU CLAMP</b>		
DRAWN BY/DATE:	DL 01JUL2024	SIZE:	<b>B</b>
APPROVED BY/DATE:	JDG 01JUL2024	SCALE:	<b>NTS</b>
DWG. NO.:	<b>CTI-S48061</b>	REV:	<b>C</b>
CAD FILE NAME:	CTI-48061_A	SHEET:	<b>1 OF 1</b>
CAD SAVE DATE:	Monday, July 1, 2024 11:41:49 AM		

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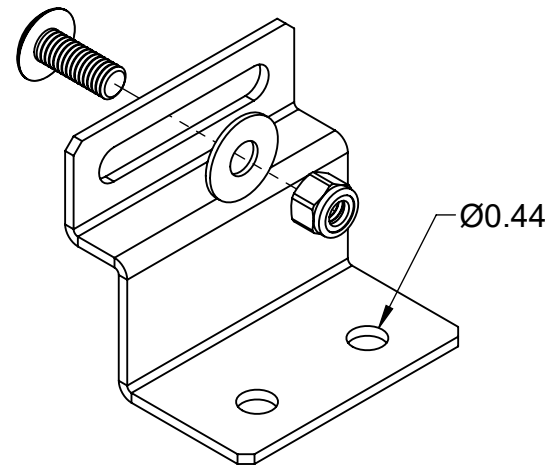
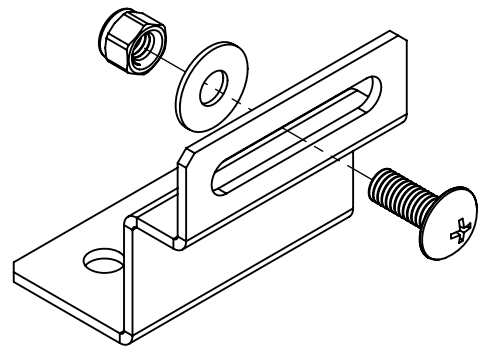
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**HARDWARE INCLUDED:**

-  - (2EA) TA38PHM100-S6  
3/8 X 1.0" PAN HEAD MACHINE SCREW
-  - (2EA) TA38FNHX-S6  
3/8 SERRATED FLANGE HEX NUT
-  - (2EA) TA38W-S6  
3/8 FLAT WASHER

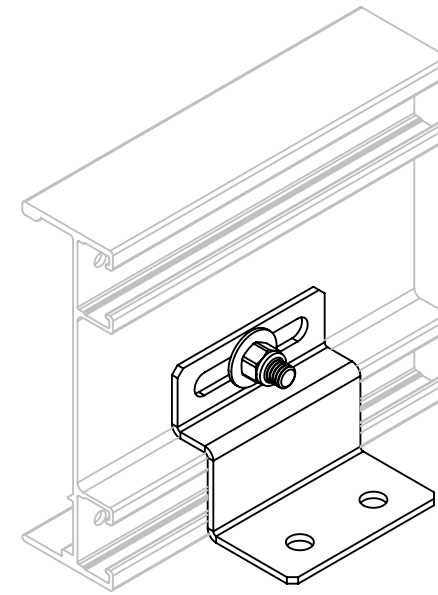


**TTA - GUIDE - 2HD**

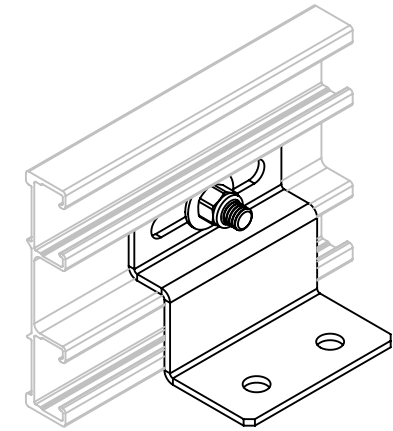
SERIES  
TTA = TOUGHTray  
ACCESSORIES

GUIDE =  
BOLT-THRU GUIDE

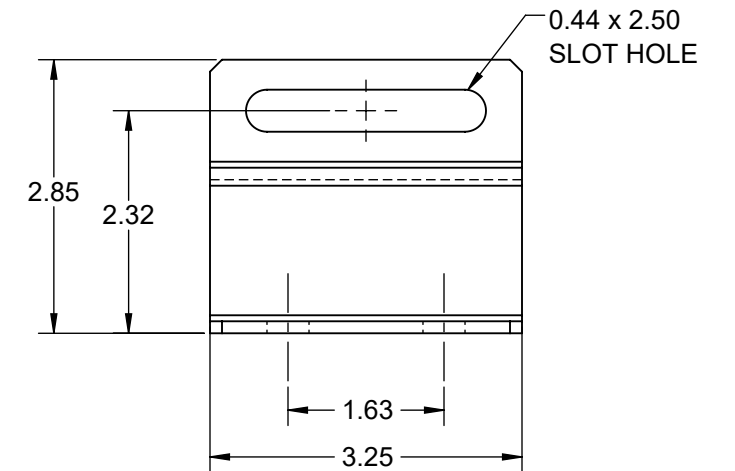
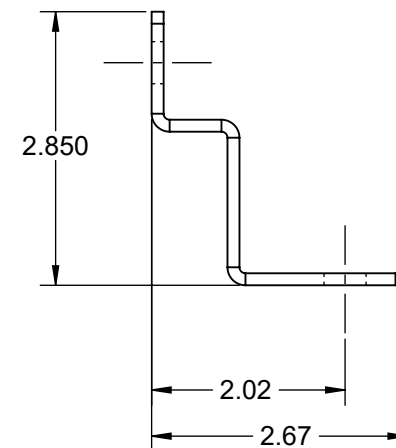
2HD =  
EXTRA  
HEAVY DUTY



INSTALLED VIEW  
(6" SIDERAIL)




INSTALLED VIEW  
(4" SIDERAIL)



- NOTE(S):**
- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
  - 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
  - 3) SUPPLIED IN PAIRS WITH SIDERAIL ATTACHMENT HARDWARE.
  - 4) TORQUE 3/8 SIDERAIL ATTACHMENT HARDWARE TO 19FT-LBS THEN BACK-OFF 1/4 TURN.
  - 5) 3/8 SUPPORT ATTACHMENT HARDWARE TO BE ORDERED SEPARATELY

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 <b>CT INNOVATIONS</b>		TITLE: <b>TTA-GUIDE-2HD EXTRA HD BOLT-THRU GUIDE</b>		
		DRAWN BY/DATE: DL 01JUL2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48062</b>
APPROVED BY/DATE: JDG 01JUL2024		SCALE: <b>NTS</b>	CAD FILE NAME: CTI-48062_A CAD SAVE DATE: Monday, July 8, 2024 3:13:15 PM	SHEET: <b>1 OF 1</b>

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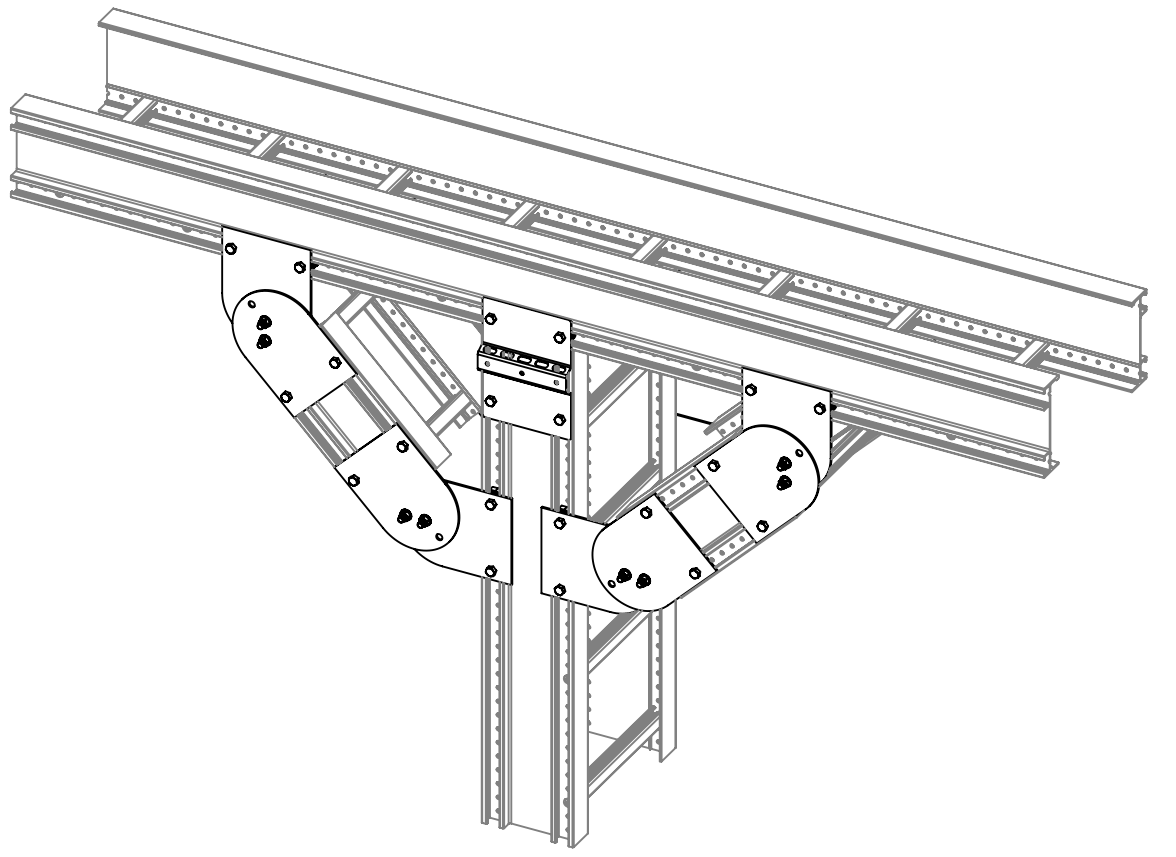
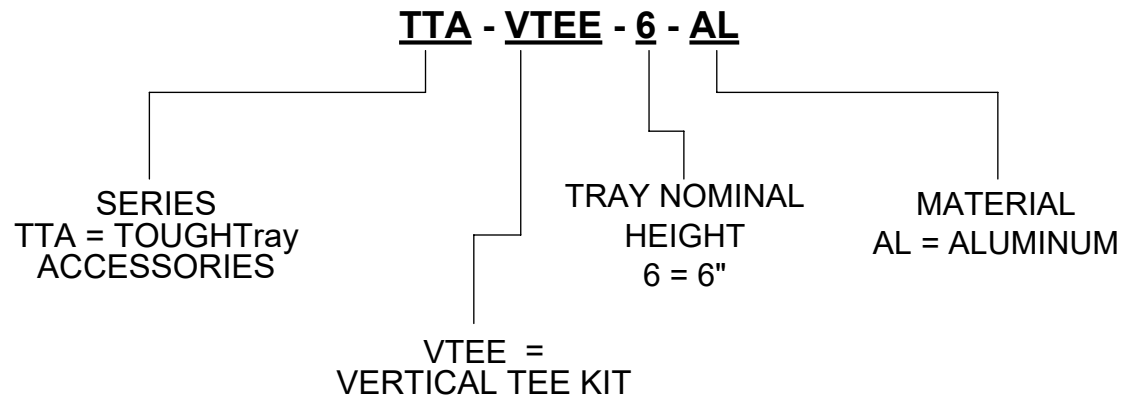
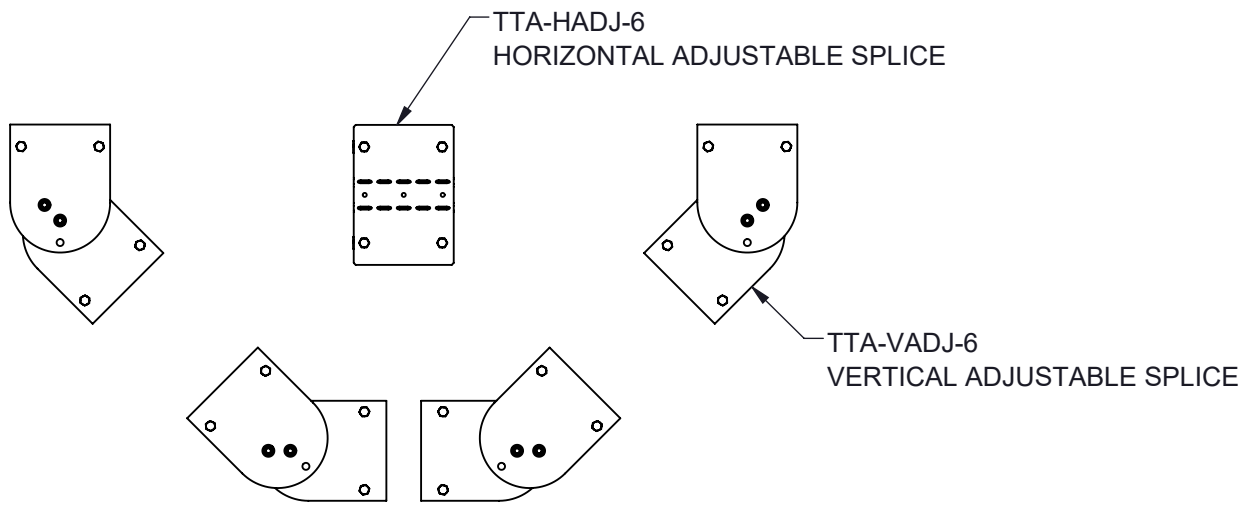
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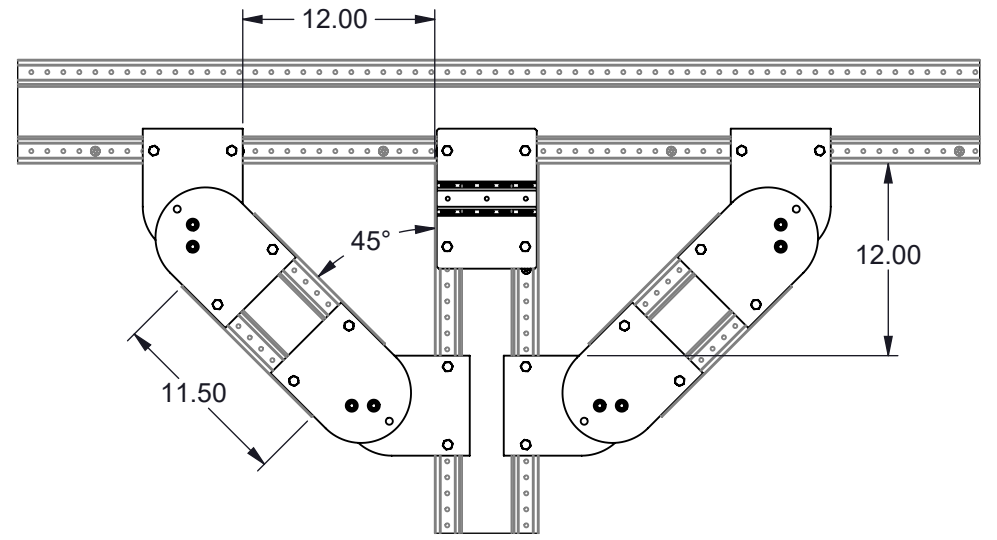
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ISO INSTALLED VIEW



SIDE VIEW

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

	TITLE: <b>TTA-VTEE-6-AL 6"H VERTICAL TEE KIT</b>		
	DRAWN BY/DATE: LW 20NOV2023	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48151</b>
	APPROVED BY/DATE: JDG 13NOV2023	SCALE: <b>NTS</b>	REV: <b>B</b> SHEET: <b>1 OF 1</b> <small>CAD FILE NAME: TTA-VTUD_A CAD SAVE DATE: Monday, November 20, 2023 10:08:22 AM</small>

NOTES:  
 1) DIMENSION SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.  
 2) ALL DIMENSIONS SHOWN ARE NOMINAL.  
 3) SUPPLIED AS KIT.

6

5

4

3

2

1



6

5

4

3

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1

F

F

E

E

D

D

C

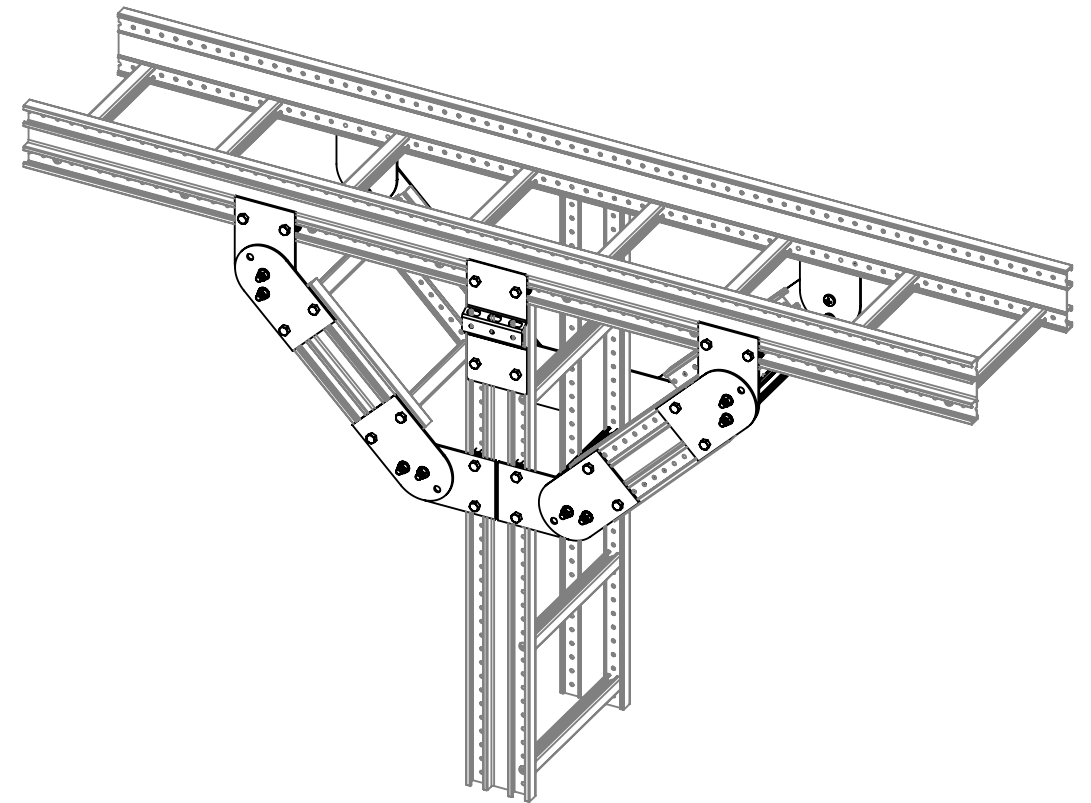
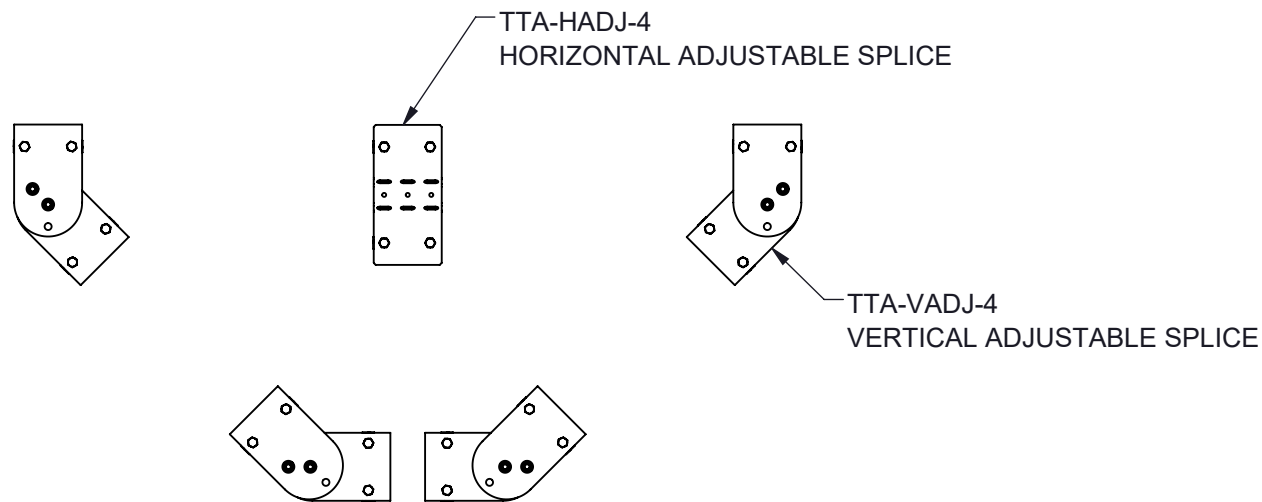
C

B

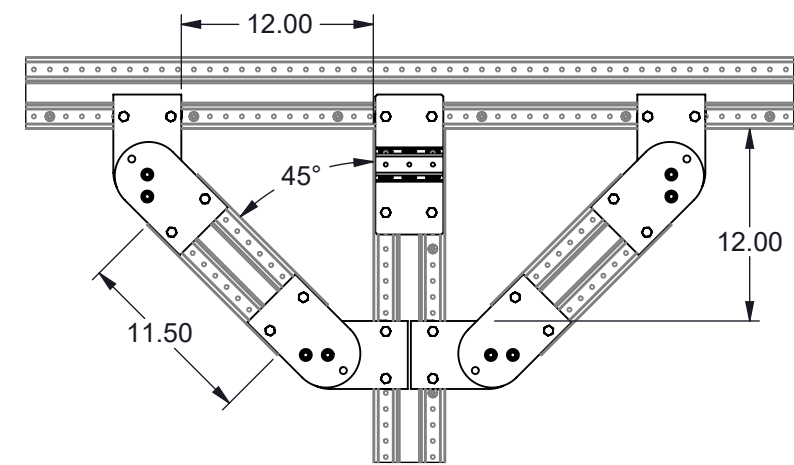
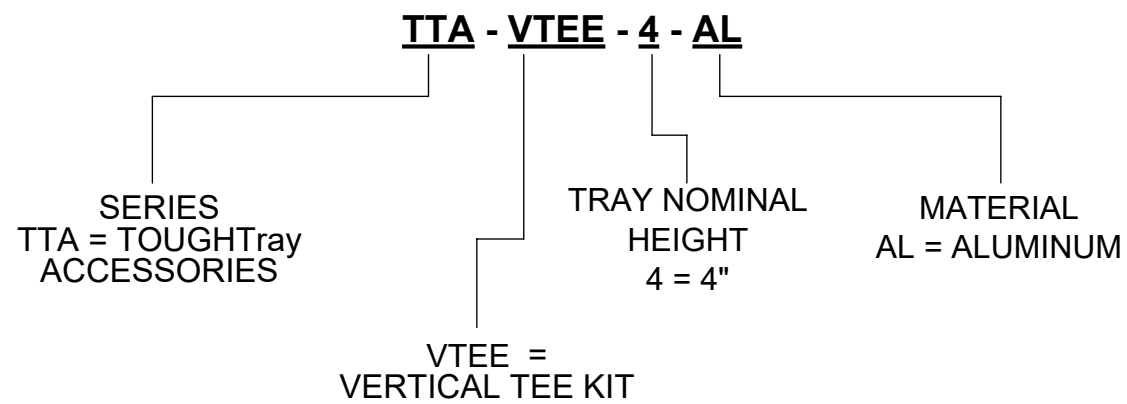
B

A

A




ISO INSTALLED VIEW



SIDE VIEW

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TTA-VTEE-4-AL 4"H VERTICAL TEE KIT</b>		
	DRAWN BY/DATE: LW 20NOV2023	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48152</b>
	APPROVED BY/DATE: JDG 13NOV2023	SCALE: <b>NTS</b>	REV: <b>B</b> SHEET: <b>1 OF 1</b> <small>CAD FILE NAME: TTA-VTUD_A CAD SAVE DATE: Monday, November 20, 2023 10:11:42 AM</small>

- NOTES:  
 1) DIMENSION SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.  
 2) ALL DIMENSIONS SHOWN ARE NOMINAL.  
 3) SUPPLIED AS KIT.

6

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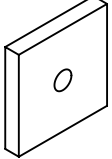
3

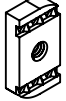
2

1

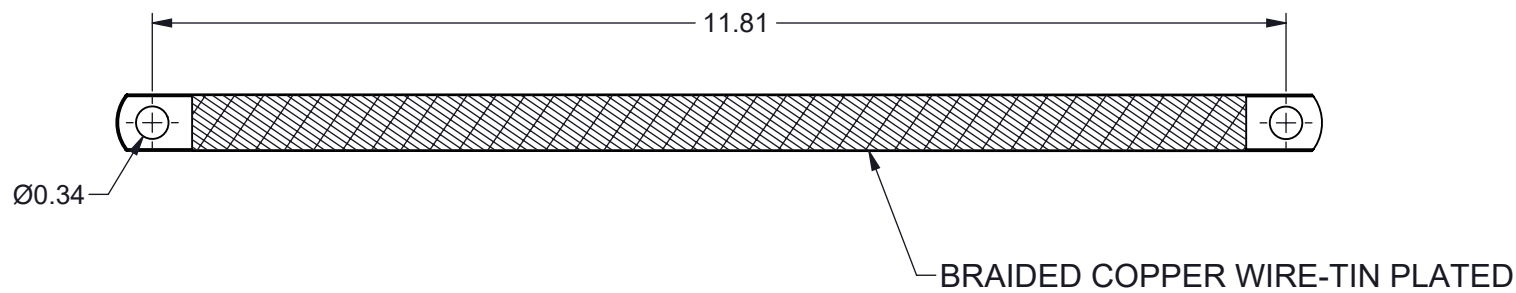
**HARDWARE INCLUDED:**

 - (2EA) TA25HX100-S6  
1/4 X 1 HEX HEAD CAP SCREW

 - (2EA) TF25WSQ-AL  
1/4 SQUARE WASHER

 - (2EA) TA25NC-S6  
1/4 CHANNEL NUT

 - (2EA) TA25W-S6  
1/4 FLAT WASHER

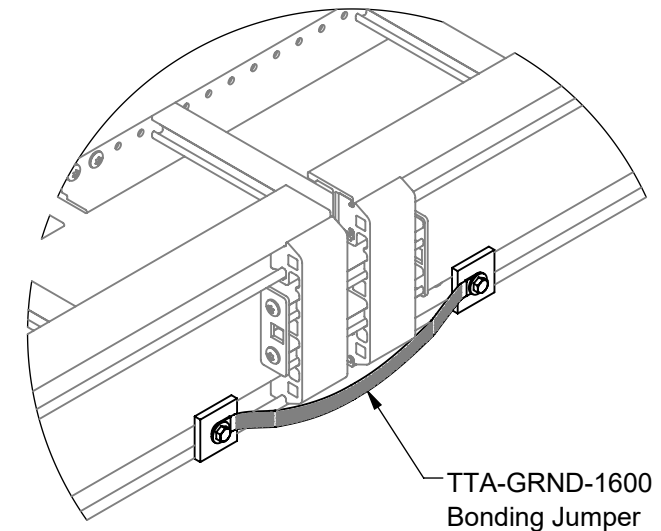


**TTA - GRND - 1600**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
GRND =  
BONDING JUMPER

RATED  
AMPACITY  
1600 = 1600AMPS




**ISO INSTALLED VIEW**

**NOTES:**

- 1) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 3) SUPPLIED PER PIECE COMPLETE WITH 1/4 SIDERAIL ATTACHMENT HARDWARE.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TTA-GRND-1600 TTA BONDING JUMPER</b>		
	DRAWN BY/DATE: LW 20NOV2023	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48156</b>
	APPROVED BY/DATE: JDG 23OCT2023	SCALE: <b>NTS</b>	CAD FILE NAME: TTA-GRND-1600 CAD SAVE DATE: Monday, November 20, 2023 1:29:59 PM
		REV: <b>B</b>	SHEET: <b>1 OF 1</b>

6

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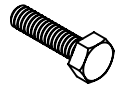
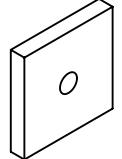



4

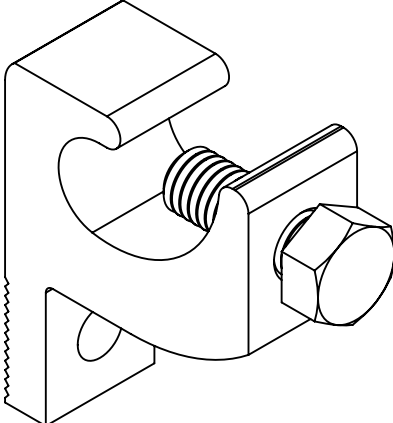
3

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1

**HARDWARE INCLUDED:**

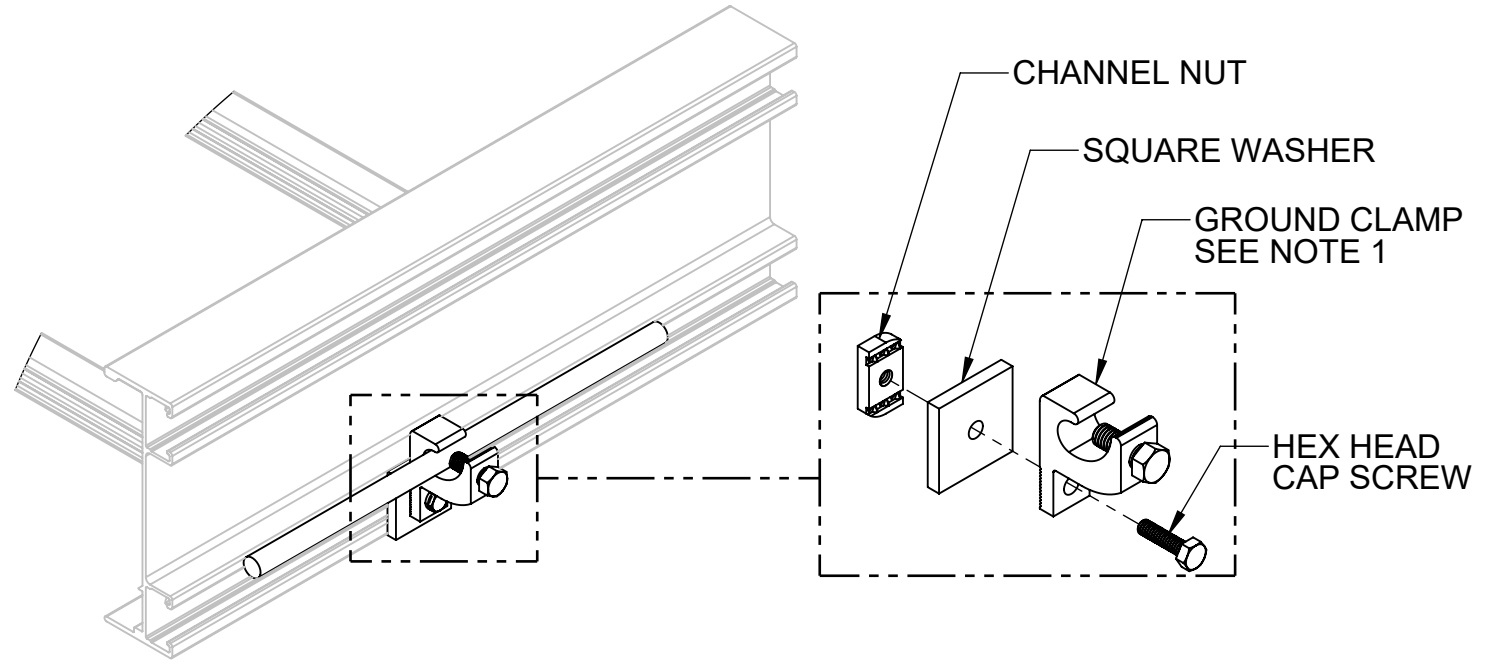
-  - (1EA) TA25HX100-S6  
1/4 X 1 HEX HEAD CAP SCREW
-  - (1EA) TF25WSQ-AL  
1/4 SQUARE WASHER
-  - (1EA) TA25NC-S6  
1/4 CHANNEL NUT
-  - (1EA) TA25W-S6  
1/4 FLAT WASHER
-  - (1EA) TA25FNHX-S6  
1/4 SERRATED FLANGE HEX NUT



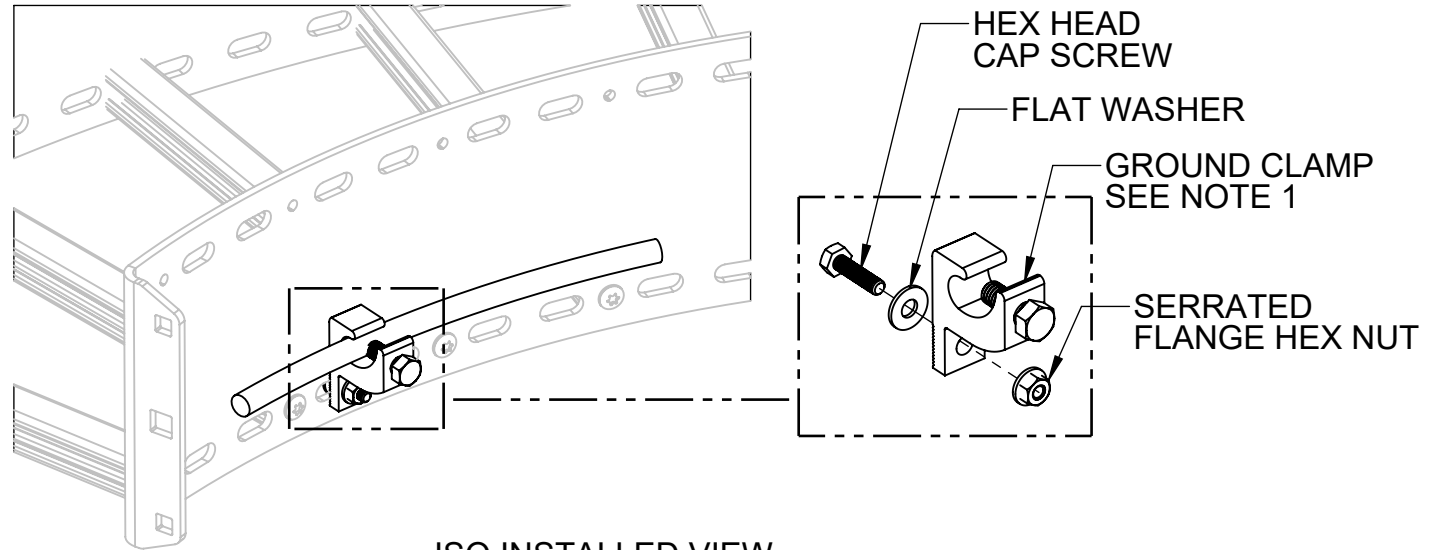
**TTA - GRNDCLMP**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
GRNDCLMP =  
GROUND CLAMP



ISO INSTALLED VIEW  
(STRAIGHT SECTION)




ISO INSTALLED VIEW  
(FITTINGS)

**PATENT PENDING**

**NOTES:**  
1) ACCEPTS #6 AWG TO 250 MCM.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TTA-GRNDCLMP TTA GROUND CLAMP</b>		
	DRAWN BY/DATE: LW 20NOV2023	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48157</b>
APPROVED BY/DATE: JDG 23OCT2023	SCALE: <b>NTS</b>	CAD FILE NAME: CTI-S48157_A CAD SAVE DATE: Monday, November 20, 2023 10:18:34 AM	SHEET: <b>1 OF 1</b>

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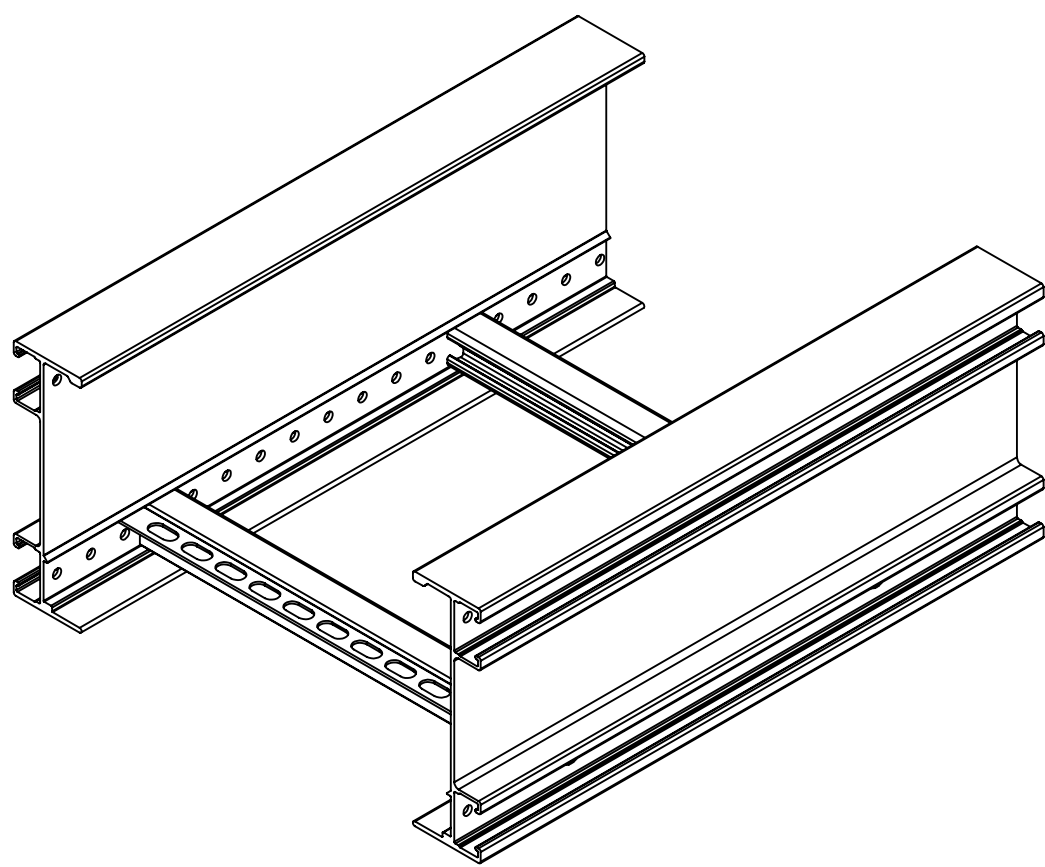
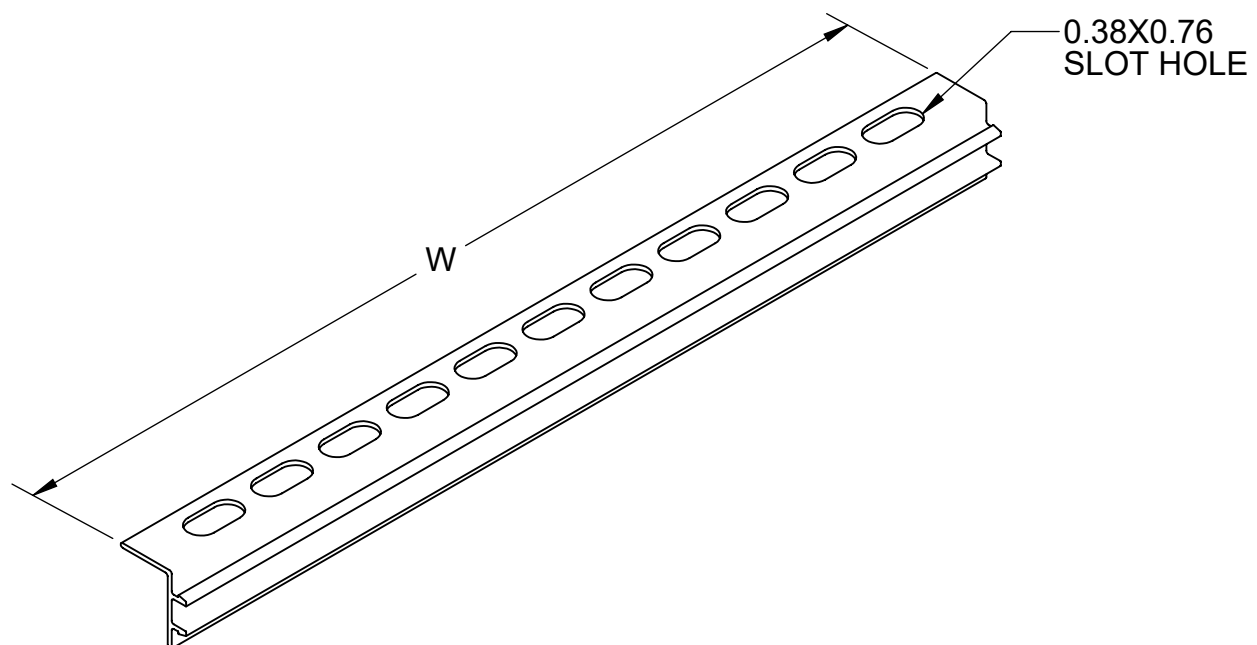
5

4

3

2

1



ISOMETRIC VIEW

**TTA - SLRUNG - 12 - AL**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
SLRUNG =  
SLOTTED RUNG KIT

TRAY NOMINAL  
WIDTH (W) =  
06 = 6  
09 = 9  
12 = 12  
18 = 18  
24 = 24  
30 = 30  
36 = 36


TYPE  
AL =  
ALUMINUM

**PATENT PENDING**

**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

	TITLE: <b>TTA-SLRUNG-(W)-(*) SLOTTED RUNG KIT</b>		
	DRAWN BY/DATE: DL 22JAN2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48970</b>
APPROVED BY/DATE: JDG 23JAN2024	SCALE: <b>NTS</b>	CAD FILE NAME: TTA-SLRUNG_A CAD SAVE DATE: Friday, February 23, 2024 5:28:15 PM	SHEET: <b>1 OF 1</b>

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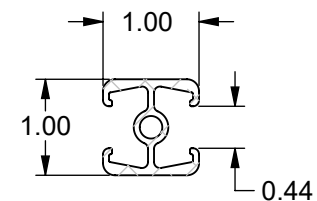
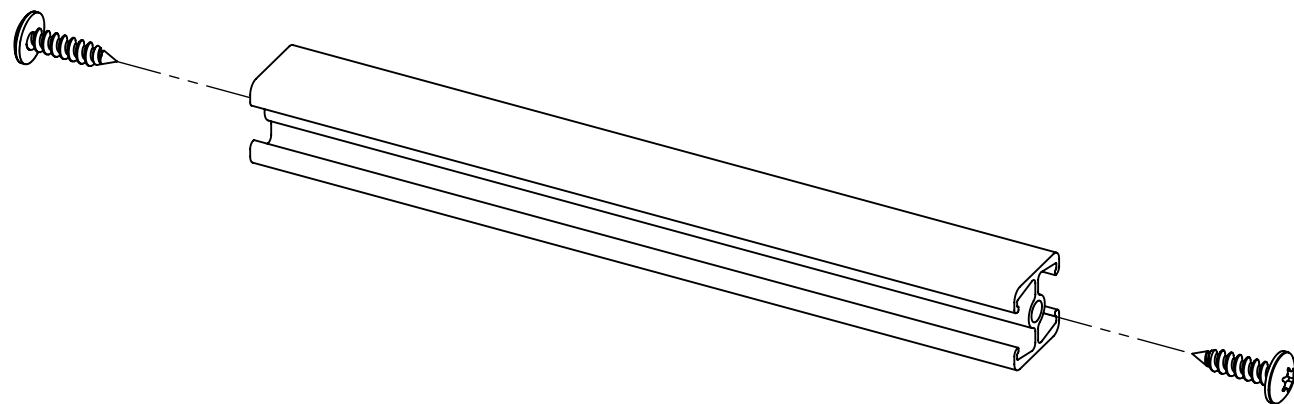
2

1

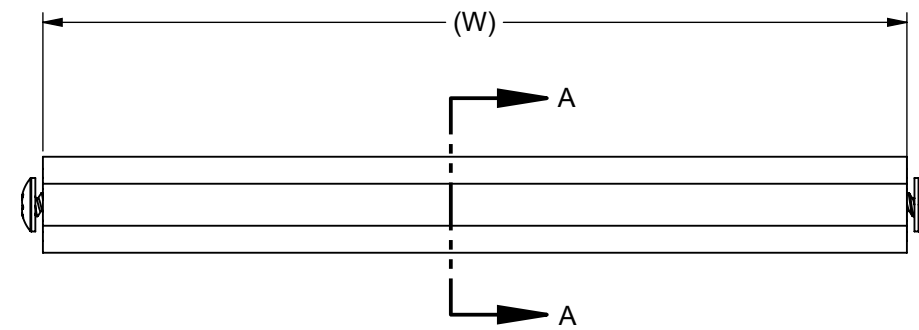
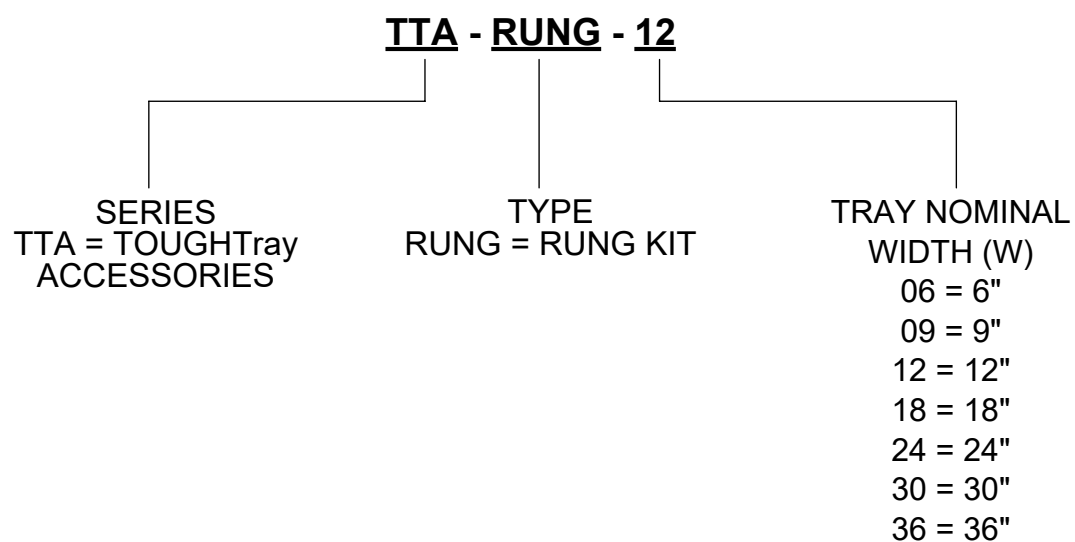
**HARDWARE INCLUDED:**



- (2EA) TA25THS100-S6  
1/4 X 1" TORX HEAD SELF-DRILLING SCREW



SECTION A-A



SIDE VIEW

NOTES:

- 1) DIMENSION SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED PER PIECE W/ S6 HARDWARE.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

	TITLE: <b>TTA-RUNG-(W) TOUGHTray RUNG KIT ACCESSORY</b>			
	DRAWN BY/DATE: LW 07DEC2023	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48974</b>	REV: <b>A</b>
	APPROVED BY/DATE: JDG 07DEC023	SCALE: <b>NTS</b>	CAD FILE NAME: TTA-RUNG-(W)_A CAD SAVE DATE: Tuesday, July 9, 2024 9:35:51 AM	SHEET: <b>1 OF 1</b>

6

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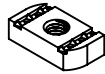
1



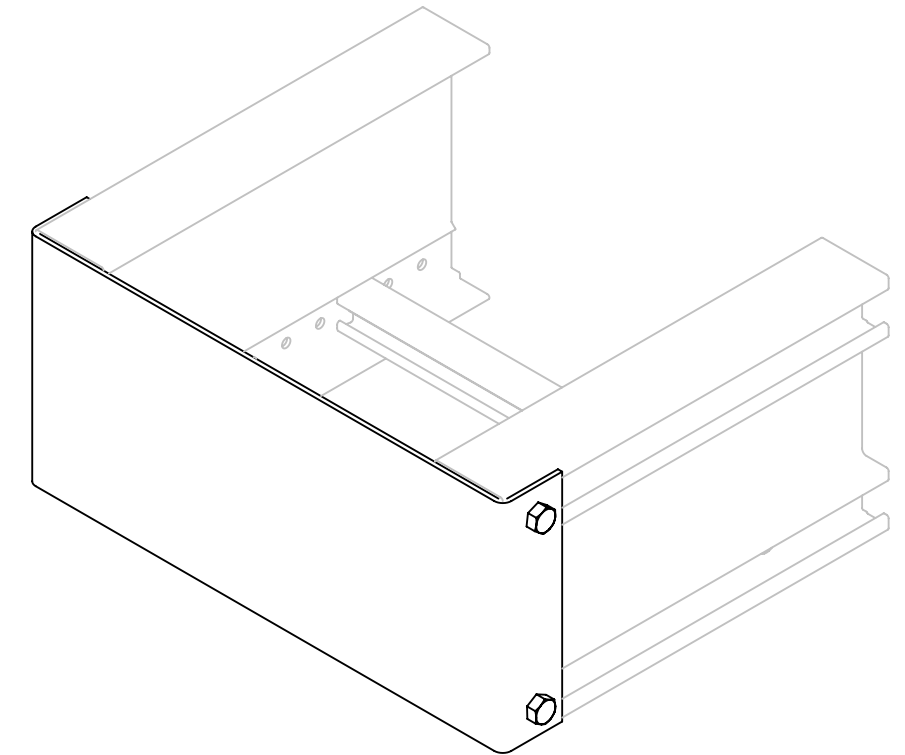
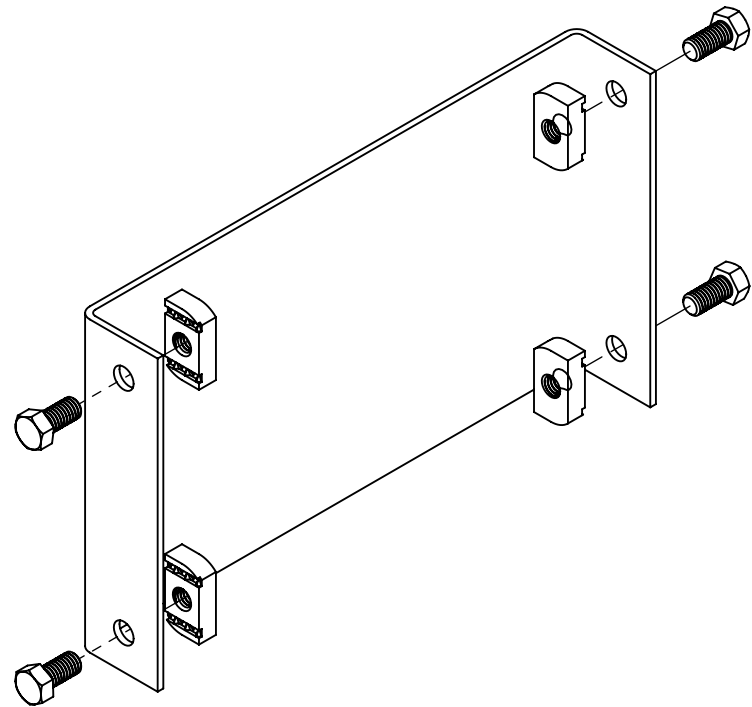
**HARDWARE INCLUDED:**



- (4EA) TA38HX075-S6  
3/8-16 X 3/4" HEX HEAD CAP SCREW



- (4EA) TA38NC-S6  
3/8" CHANNEL NUT



INSTALLED VIEW

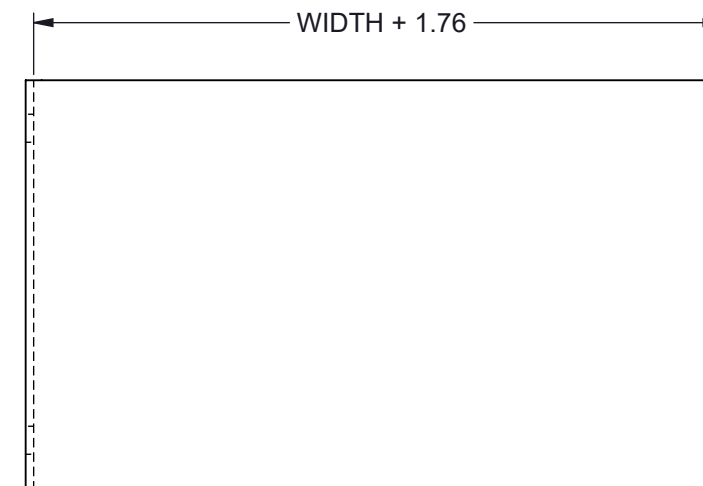
**TTA - BLIND - 6 X 12**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

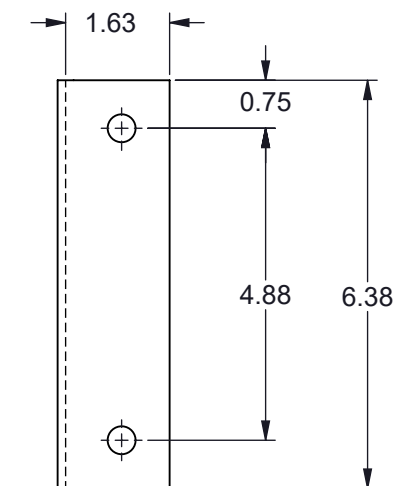
BLIND =  
BLIND END

TRAY NOMINAL  
HEIGHT  
6 = 6"

TRAY NOMINAL  
WIDTH  
06 = 6"  
09 = 9"  
12 = 12"  
18 = 18"  
24 = 24"  
30 = 30"  
36 = 36"



FRONT VIEW



SIDE VIEW

- NOTES:
- 1) DIMENSION SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
  - 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
  - 3) SUPPLIED PER PIECE COMPLETE W/ HARDWARE.
  - 4) REMOVE LINK (TORX T30 BIT) TO INSTALL BLIND END.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

		TITLE:	
		<b>TTA-BLIND-6X(W)</b> <b>TOUGHTray ACCESSORY BLIND END</b>	
DRAWN BY/DATE:		SIZE:	DWG. NO.:
VA 01JUL2024		<b>B</b>	<b>CTI-S48975</b>
APPROVED BY/DATE:		SCALE:	CAD FILE NAME: TTA-BLIND-H_A
JDG 05JUL2024		<b>NTS</b>	CAD SAVE DATE: Monday, July 8, 2024 3:57:05 PM
		REV:	SHEET:
		<b>B</b>	<b>1 OF 1</b>

6

5



4

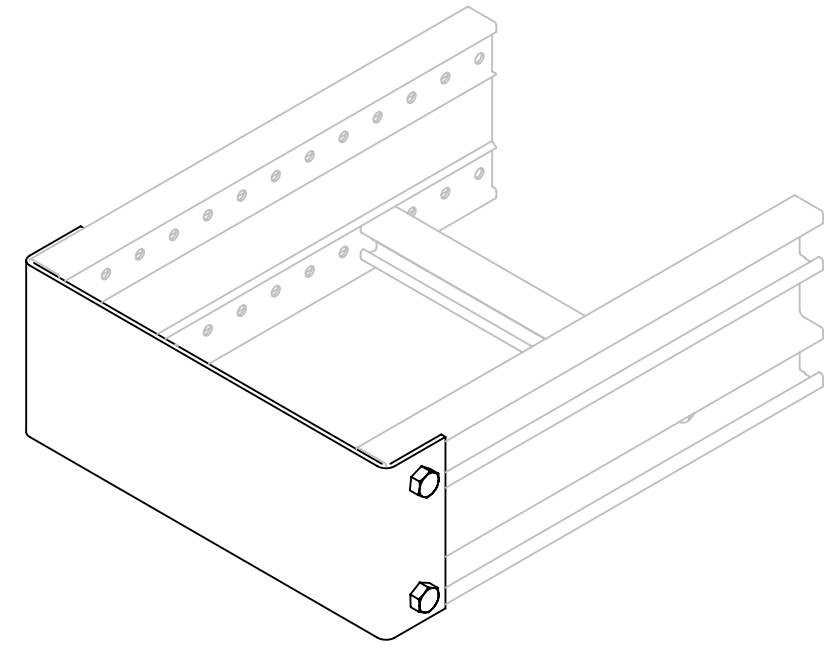
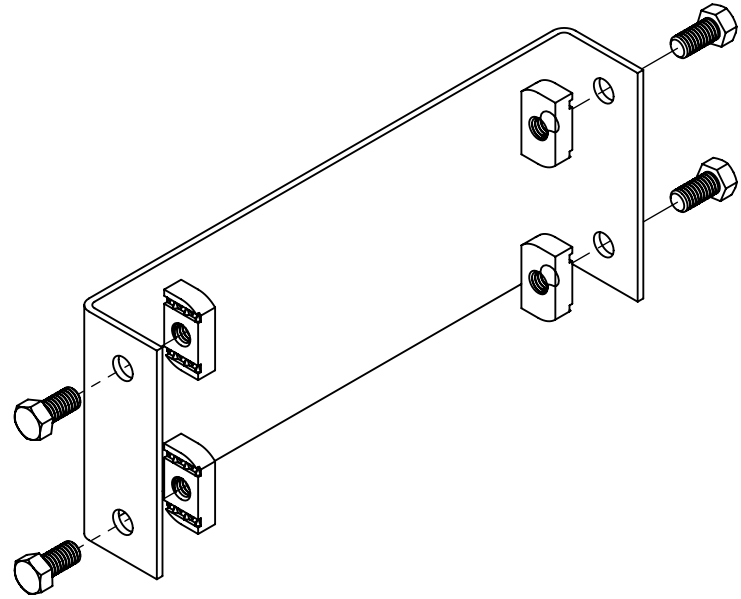
3

2

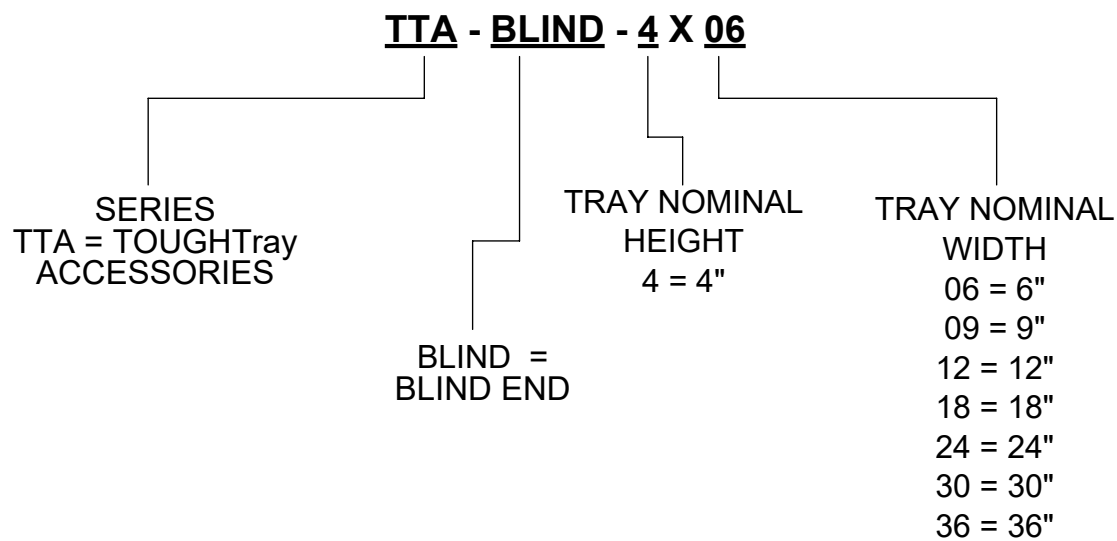
1

**HARDWARE INCLUDED:**

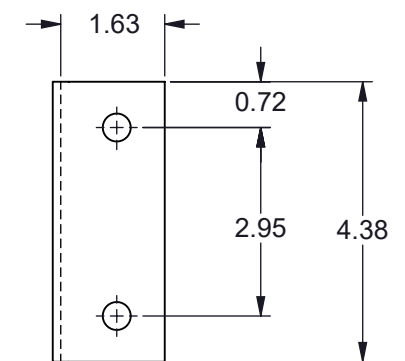
-  - (4EA) TA38HX075-S6  
3/8-16 X 3/4" HEX HEAD CAP SCREW
-  - (4EA) TA38NC-S6  
3/8" CHANNEL NUT



INSTALLED VIEW



FRONT VIEW



SIDE VIEW

- NOTES:
- 1) DIMENSION SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
  - 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
  - 3) SUPPLIED PER PIECE COMPLETE W/ HARDWARE.
  - 4) REMOVE LINK (TORX 30 BIT) TO INSTALL BLIND END.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.



TITLE:  
**TTA-BLIND-4X(W)  
TOUGHTray ACCESSORY BLIND END**

DRAWN BY/DATE:  
VA 01JUL2024

SIZE:  
**B**

DWG. NO.:  
**CTI-S48976**

REV:  
**B**

APPROVED BY/DATE:  
JDG 01JUL2023

SCALE:  
**NTS**

CAD FILE NAME: TTA-BLIND-H\_A  
CAD SAVE DATE: Monday, July 8, 2024 5:43:47 PM

SHEET:  
**1 OF 1**

6

5



4

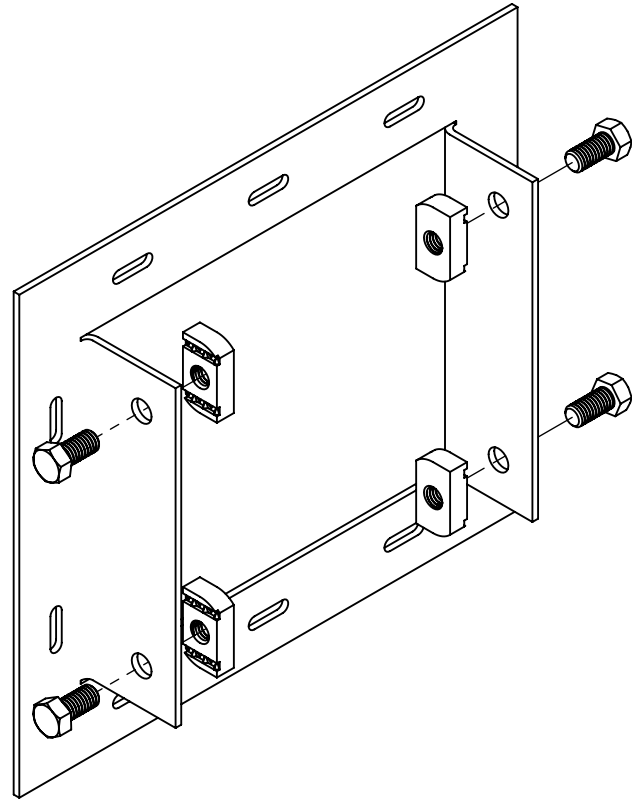
3

2

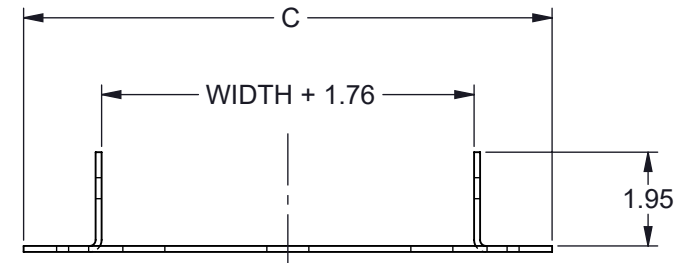
1

**HARDWARE INCLUDED:**

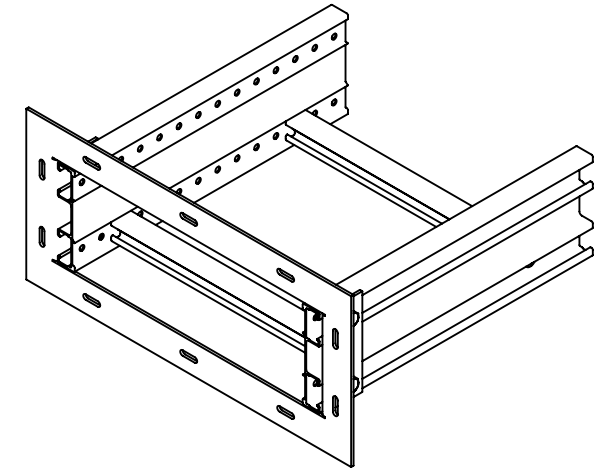
-  - (4EA) TA38HX075-S6  
3/8-16 X 3/4" HEX HEAD CAP SCREW
-  - (4EA) TA38NC-S6  
3/8" CHANNEL NUT



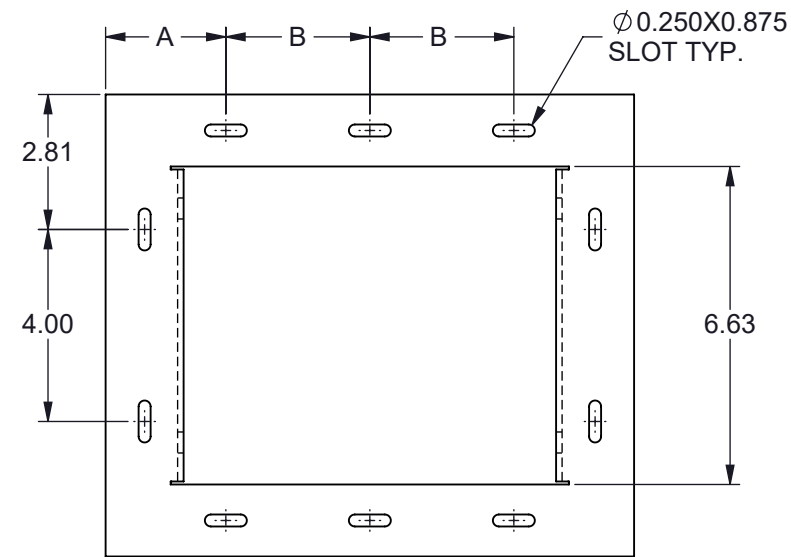
PART NUMBER	A	B	C
TTA-FTBC-6X06	2.51	3	11.01
TTA-FTBC-6X09	3.01	4	14.01
TTA-FTBC-6X12	3.51	5	17.01
TTA-FTBC-6X18	3.51	8	23.01
TTA-FTBC-6X24	3.51	11	29.01
TTA-FTBC-6X30	3.51	14	35.01
TTA-FTBC-6X36	3.51	17	41.01



TOP VIEW



INSTALLED VIEW



FRONT VIEW

SIDE VIEW

**TTA - FTBC - 6 X 12**


SERIES  
TTA = TOUGHTray  
ACCESSORIES

FTBC =  
FRAME TYPE BOX  
CONNECTOR


TRAY NOMINAL  
HEIGHT  
6 = 6"

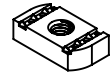
TRAY NOMINAL  
WIDTH  
06 = 6"  
09 = 9"  
12 = 12"  
18 = 18"  
24 = 24"  
30 = 30"  
36 = 36"

- NOTES:
- 1) DIMENSION SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
  - 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
  - 3) SUPPLIED PER PIECE COMPLETE W/ HARDWARE.
  - 4) REMOVE LINK (TORX T30 BIT) TO INSTALL FTBC.

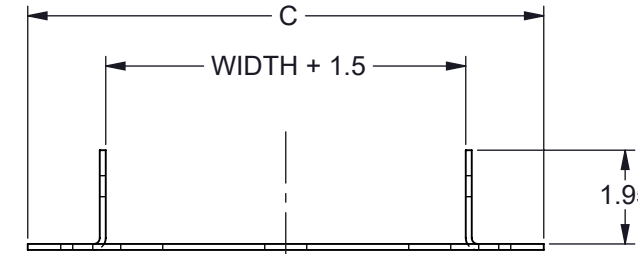
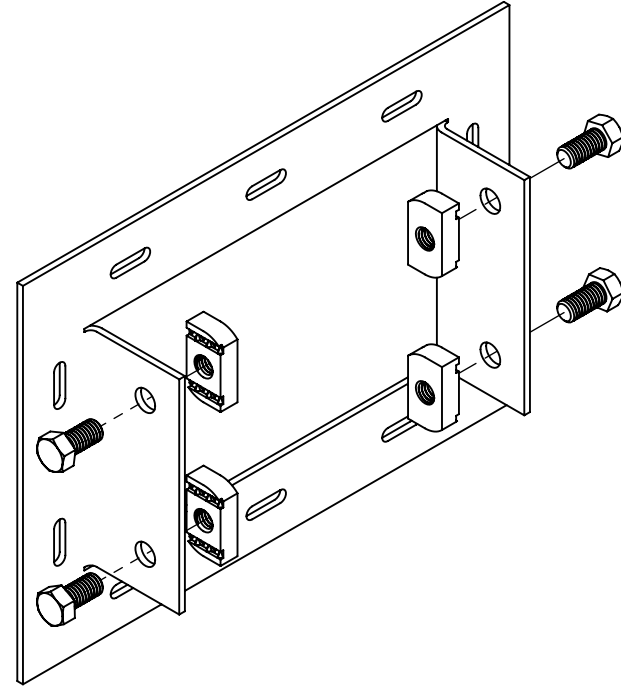
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.			
		TITLE: <b>TTA-FTBC-6X(W) TOUGHTray ACCESSORY FRAME TYPE BOX CONNECTOR</b>	
DRAWN BY/DATE: 01JUL2024 VA		SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48977</b>
APPROVED BY/DATE: JDG 02JUL2024		SCALE: <b>NTS</b>	REV: <b>B</b> SHEET: <b>1 OF 1</b>
CAD FILE NAME: TTA-FTBC_A CAD SAVE DATE: Monday, July 8, 2024 3:55:42 PM			

**HARDWARE INCLUDED:**

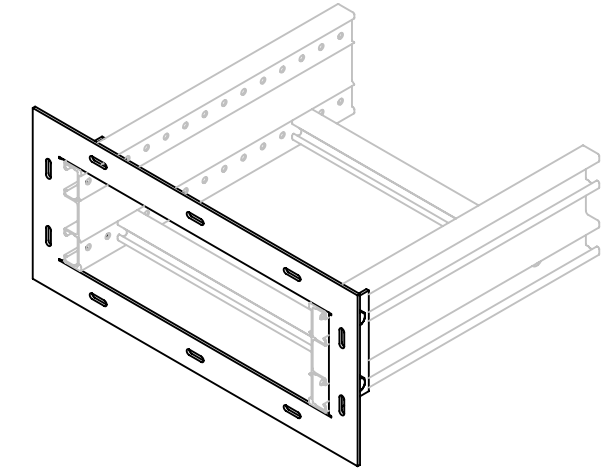
 - (4EA) TA38HX075-S6  
3/8-16 X 3/4" HEX HEAD CAP SCREW

 - (4EA) TA38NC-S6  
3/8" CHANNEL NUT

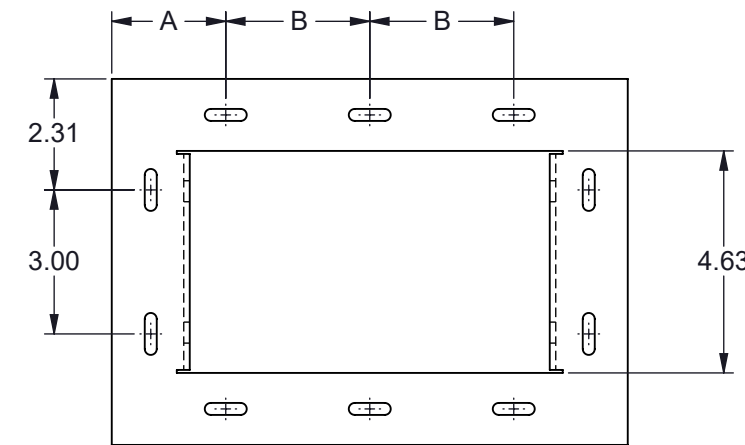
PART NUMBER	A	B	C
TTA-FTBC-4X06	2.38	3	10.75
TTA-FTBC-4X09	2.88	4	13.75
TTA-FTBC-4X12	3.38	5	16.75
TTA-FTBC-4X18	3.38	8	22.75
TTA-FTBC-4X24	3.38	11	28.75
TTA-FTBC-4X30	3.38	14	34.75
TTA-FTBC-4X36	3.38	17	40.75



TOP VIEW



INSTALLED VIEW



FRONT VIEW

SIDE VIEW

**TTA - FTBC - 4 X 12**

SERIES  
TTA = TOUGHTray  
ACCESSORIES


FTBC =  
FRAME TYPE BOX  
CONNECTOR

TRAY NOMINAL  
HEIGHT  
4 = 4"

TRAY NOMINAL  
WIDTH  
06 = 6"  
09 = 9"  
12 = 12"  
18 = 18"  
24 = 24"  
30 = 30"  
36 = 36"

- NOTES:
- 1) DIMENSION SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
  - 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
  - 3) SUPPLIED PER PIECE COMPLETE W/ HARDWARE.
  - 4) REMOVE LINK (TORX T30 BIT) TO INSTALL FTBC.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

	TITLE: <b>TTA-FTBC-4X(W) TOUGHTray ACCESSORY FRAME TYPE BOX CONNECTOR</b>		
	DRAWN BY/DATE: VA 01JUL2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48978</b>
APPROVED BY/DATE: JDG 01JUL2024	SCALE: <b>NTS</b>	CAD FILE NAME: TTA-FTBC_A CAD SAVE DATE: Monday, July 8, 2024 5:47:58 PM	SHEET: <b>1 OF 1</b>

6

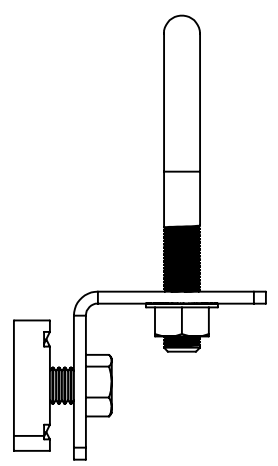
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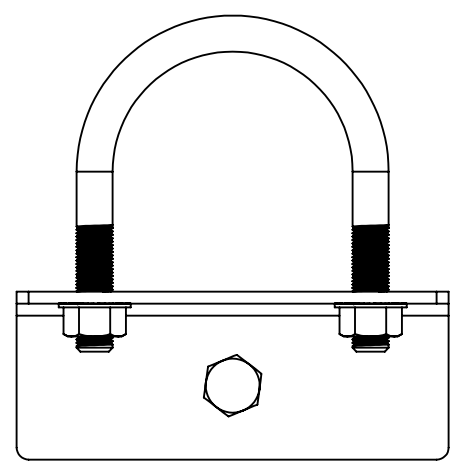
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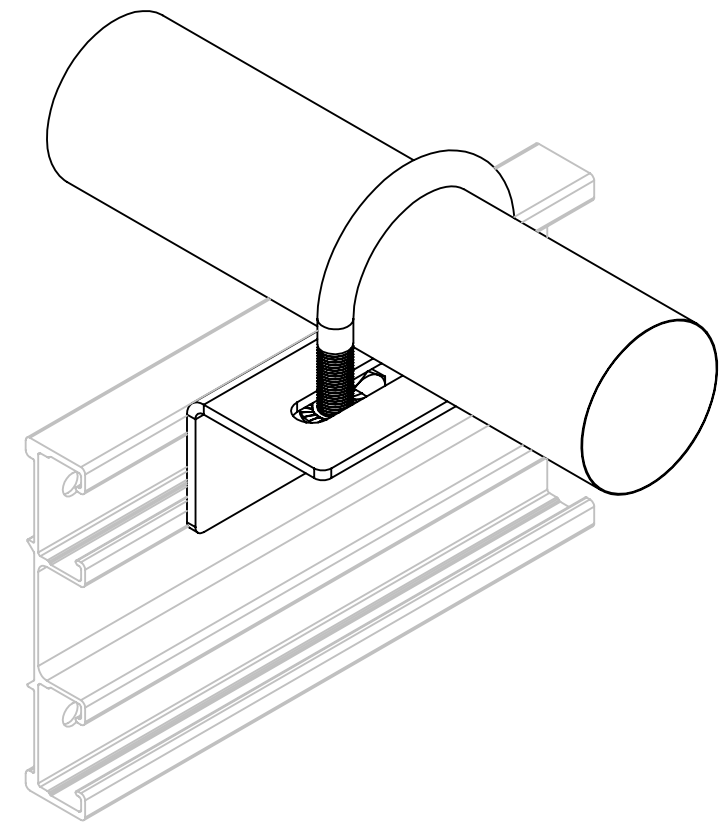
1



SIDE VIEW



FRONT VIEW



ISO INSTALLED VIEW

**TTA - CONADPTR - 1/2**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
CONADPTR =  
CONDUIT TO  
TRAY  
ADAPTOR


CONDUIT NOMINAL  
DIAMETER  
0.50" = 1/2  
0.75" = 3/4  
1.00" = 1  
1.25" = 1 1/4  
1.50" = 1 1/2  
2.00" = 1 3/4  
4.00" = 4  
6.00" = 6

**PATENT PENDING**

**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED PER PIECE COMPLETE WITH HARDWARE.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

	TITLE: <b>TTA-CONADPTR-(D)</b> <b>TTA SERIES CONDUIT TO TRAY ADAPTOR</b>			
	DRAWN BY/DATE: VA 11DEC2023	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48971</b>	REV: <b>B</b>
	APPROVED BY/DATE: JDG 15DEC2023	SCALE: <b>NTS</b>	CAD FILE NAME: TTA-VADJ_A CAD SAVE DATE: Monday, December 11, 2023 3:38:24 AM	SHEET: <b>1 OF 1</b>

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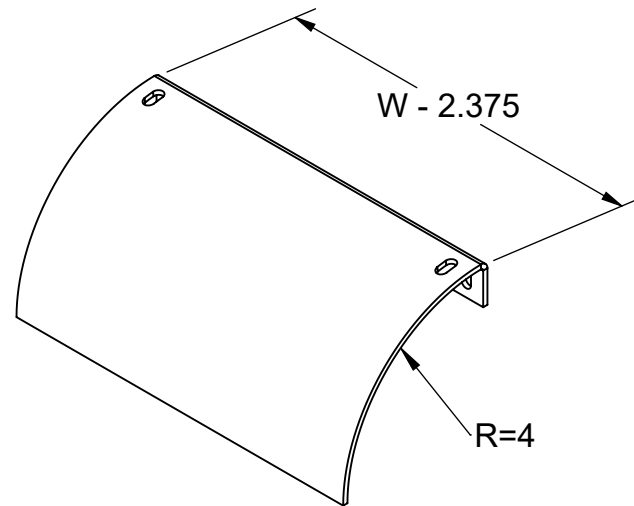
2

1

**HARDWARE INCLUDED:**

 - (2 EA) TA25PHM038-S6  
1/4 X 3/8" PAN HEAD MACHINE SCREW

 - (2 EA) TA25NCM-S6  
1/4" RUNG MINI CHANNEL NUT

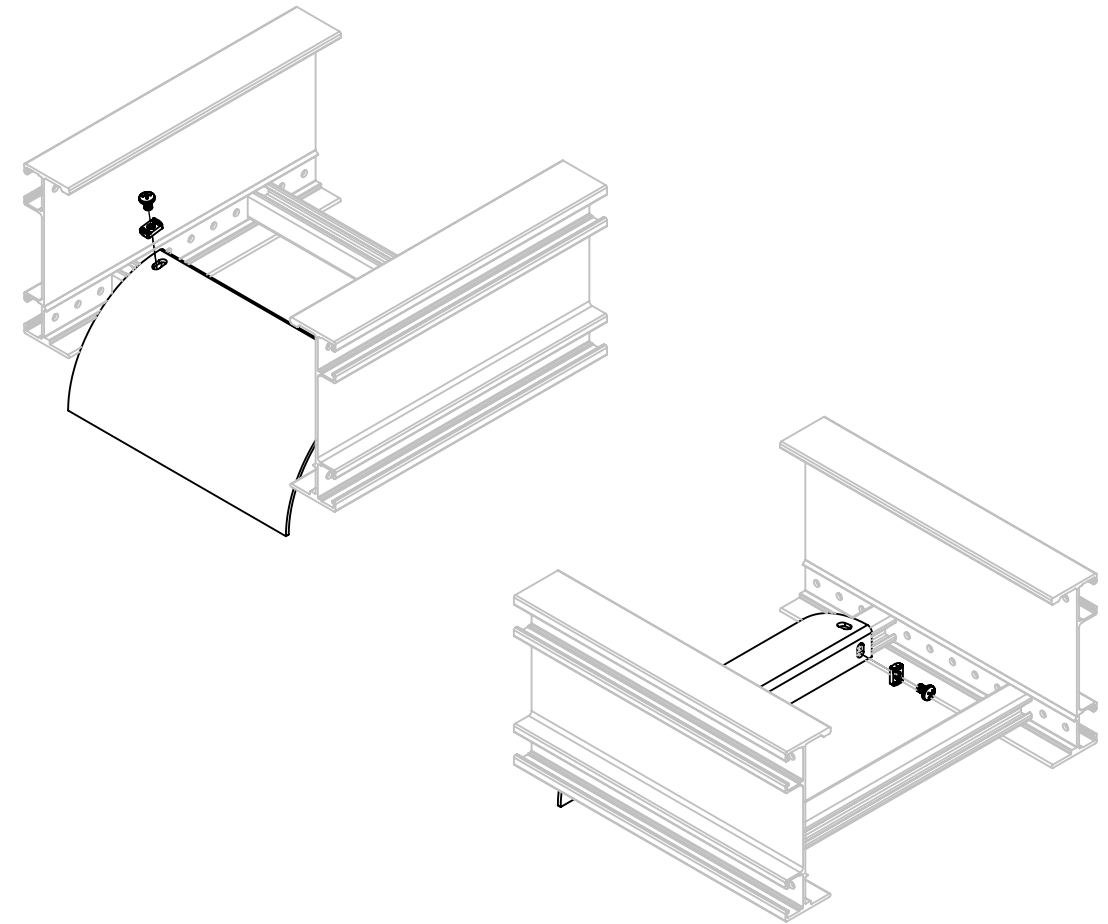


**TTA - DROP - 12**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
DROP =  
DROP OUT

NOMINAL  
WIDTH (W)  
06 = 6"  
09 = 9"  
12 = 12"  
18 = 18"  
24 = 24"  
30 = 30"  
36 = 36"




ISO EXPLODED VIEW  
DROP OUT INSTALLATION

**PATENT PENDING**

**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.

<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.</small>			
 <b>CT INNOVATIONS</b>		<b>TITLE:</b> <b>TTA-DROP-(W)</b> <b>TTA SERIES DROP OUT</b>	
<b>DRAWN BY/DATE:</b> LW 04JUL2024	<b>SIZE:</b> <b>B</b>	<b>DWG. NO.:</b> <b>CTI-S48996</b>	<b>REV:</b> <b>B</b>
<b>APPROVED BY/DATE:</b> JDG 04JUL2024	<b>SCALE:</b> <b>NTS</b>	<small>CAD FILE NAME: TTA-DROP_b CAD SAVE DATE: Monday, July 8, 2024 7:00:56 PM</small>	<b>SHEET:</b> <b>1 OF 1</b>

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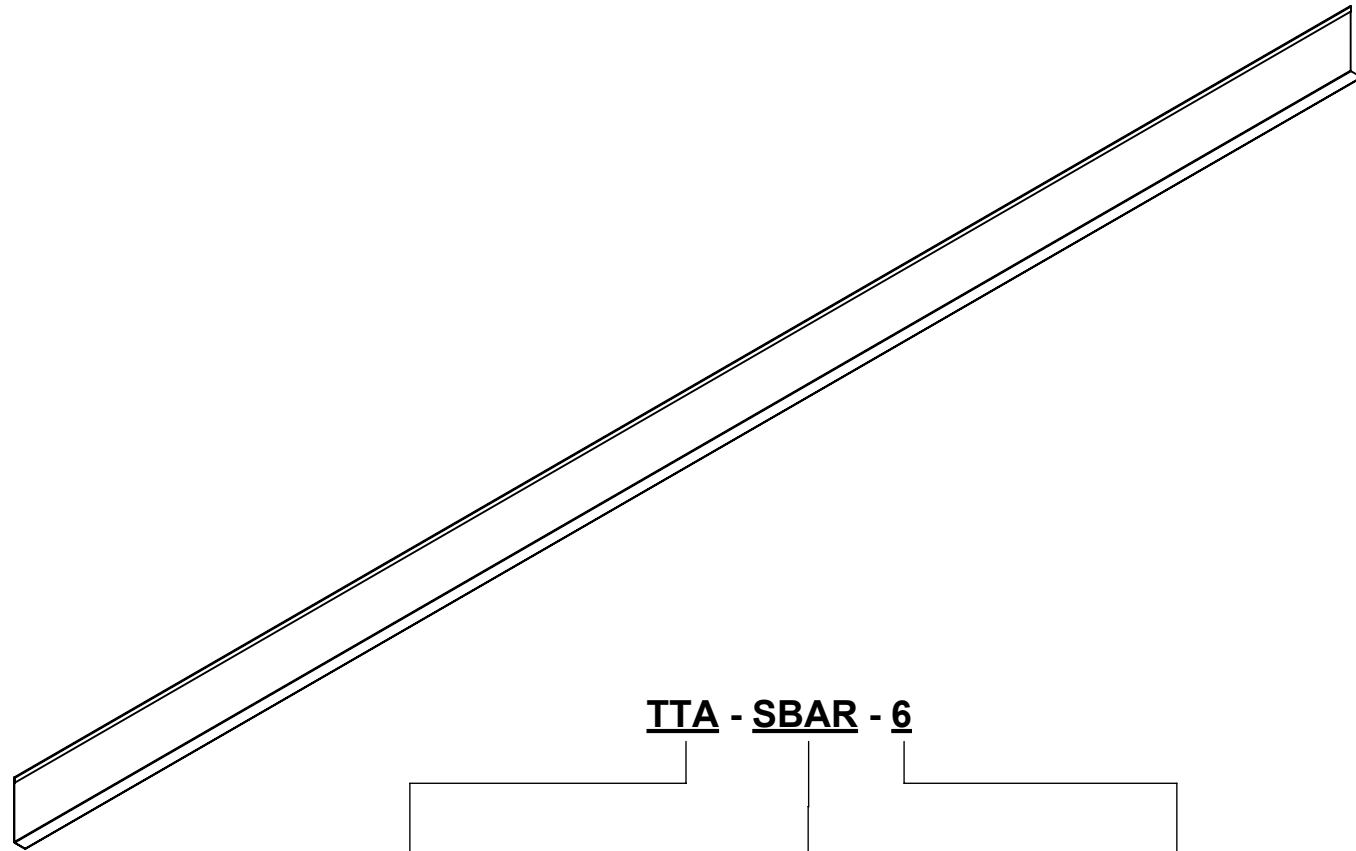
1



**HARDWARE FIXINGS:**



- TTA-CVRSCRW-S6  
1/4 X 1/2" TORX HEAD SELF DRILLING SCREW  
SEE NOTE 3

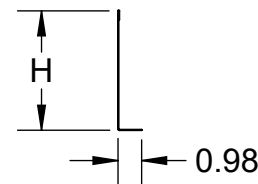


**TTA - SBAR - 6**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

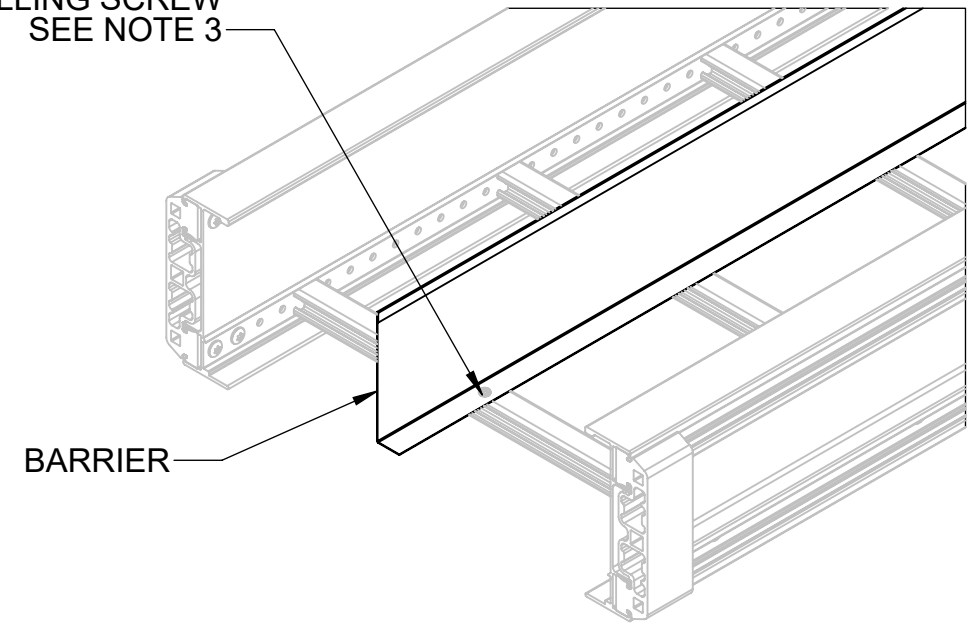
TYPE  
SBAR =  
STRAIGHT  
BARRIER

SIDERAIL  
HEIGHT(H)  
4 = 4"  
6 = 6"



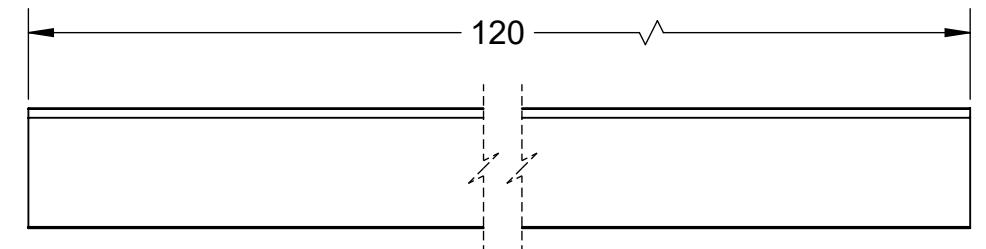
SECTION VIEW

1/4 SELF DRILLING SCREW  
SEE NOTE 3



BARRIER

INSTALLED VIEW




SIDE VIEW

**PATENT PENDING**

**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) TTA-CVRSCRW-S6 SELF DRILLING SCREW IS SOLD SEPARATELY IN QTY'S OF BAG OF 50.

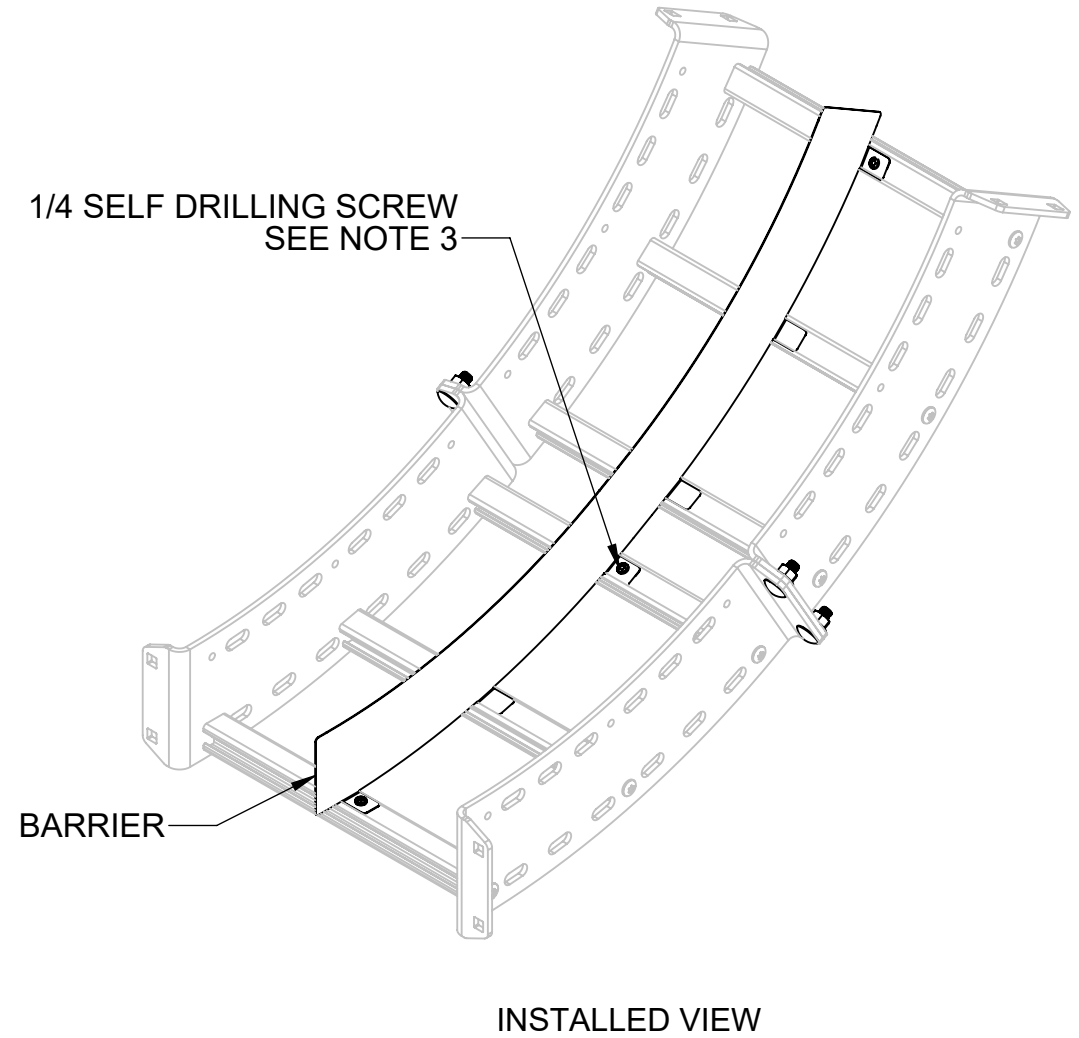
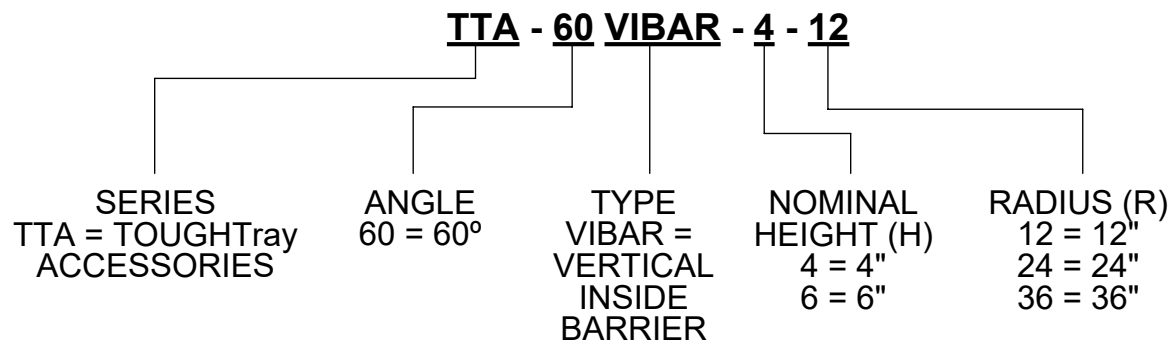
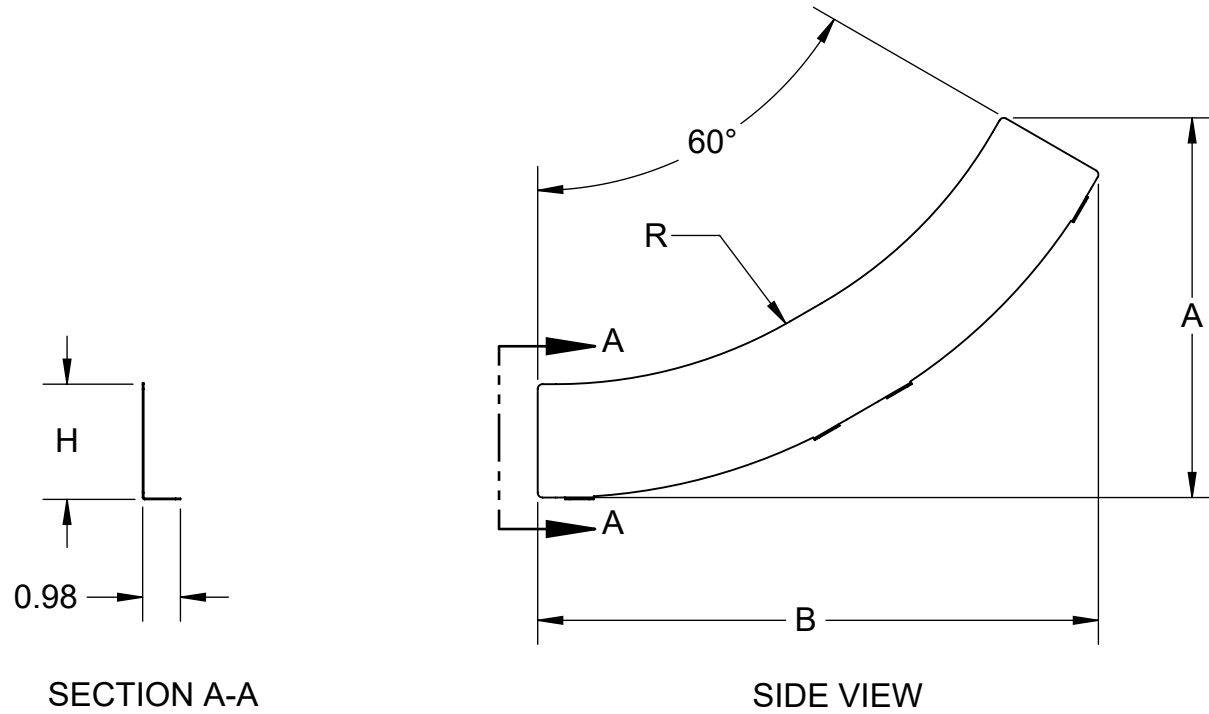
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.			
 <b>CT INNOVATIONS</b>		TITLE: <b>TTA-SBAR-(H) TTA STRAIGHT BARRIER</b>	
DRAWN BY/DATE: VA 25MAR2024		SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48989</b>
APPROVED BY/DATE: JDG 29MAR2024		SCALE: <b>NTS</b>	REV: <b>C</b> SHEET: <b>1 OF 1</b>
		CAD FILE NAME: TTA-SBAR-(H)_A CAD SAVE DATE: Monday, July 8, 2024 3:15:24 PM	

**HARDWARE FIXINGS:**



- TTA-CVRSCRW-S6  
1/4 X 1/2" TORX HEAD SELF DRILLING SCREW  
SEE NOTE 3

PART NUMBER	A	B
TTA-60VIBAR-4-12	9.89	14.60
TTA-60VIBAR-4-24	15.88	24.97
TTA-60VIBAR-4-36	21.88	35.36
TTA-60VIBAR-6-12	11.87	16.31
TTA-60VIBAR-6-24	17.88	26.70
TTA-60VIBAR-6-36	23.88	37.09




**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) TTA-CVRSCRW-S6 SELF DRILLING SCREW IS SOLD SEPARATELY IN QTY'S OF BAG OF 50.

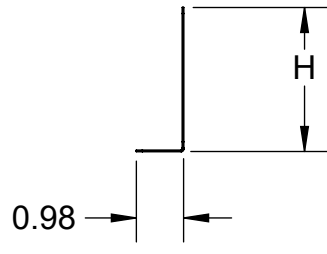
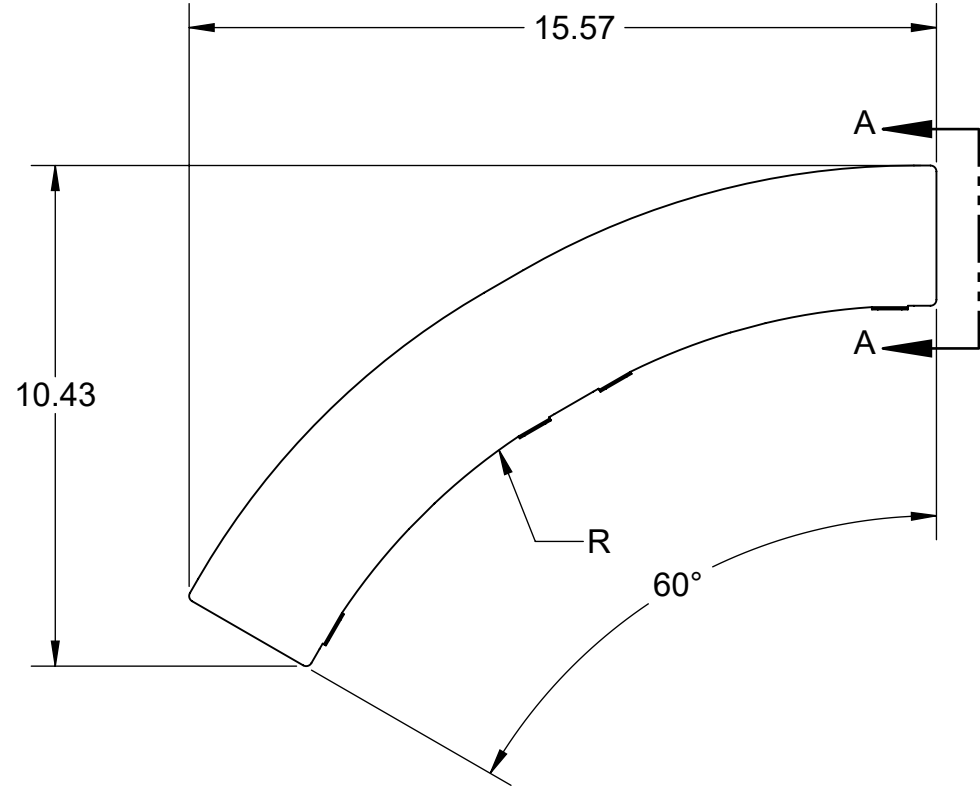
**PATENT PENDING**

<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.</small>			
 <b>CT INNOVATIONS</b>		<b>TITLE:</b> <b>4" AND 6" HEIGHT (60° ANGLE)</b> <b>TTA SERIES VERTICAL INSIDE BARRIER</b>	
<b>DRAWN BY/DATE:</b> VA 02JUL2024		<b>SIZE:</b> <b>B</b>	<b>DWG. NO.:</b> <b>CTI-S48979</b>
<b>APPROVED BY/DATE:</b> JDG 02JUL2024		<b>SCALE:</b> <b>NTS</b>	<b>REV:</b> <b>B</b>
		<small>CAD FILE NAME: TTA-60VIBAR_A</small> <small>CAD SAVE DATE: Monday, July 8, 2024 3:03:45 PM</small>	<b>SHEET:</b> <b>1 OF 1</b>

**HARDWARE FIXINGS:**

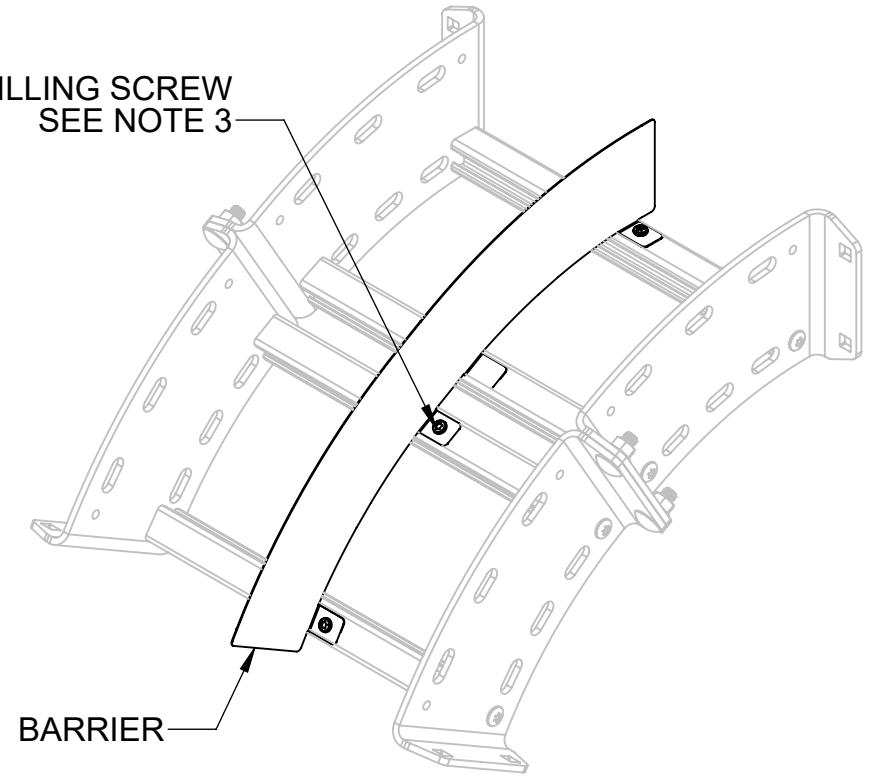
-  - TTA-CVRSCRW-S6  
1/4 X 1/2" TORX HEAD SELF DRILLING SCREW  
SEE NOTE 3

PART NUMBER	A	B
TTA-60VOBAR-4-12	10.43	15.57
TTA-60VOBAR-4-24	16.44	25.97
TTA-60VOBAR-4-36	22.45	36.37
TTA-60VOBAR-6-12	12.43	17.30
TTA-60VOBAR-6-24	18.44	27.71
TTA-60VOBAR-6-36	24.45	38.10



SECTION A-A

1/4 SELF DRILLING SCREW  
SEE NOTE 3



INSTALLED VIEW

**TTA - 60 VOBAR - 4 - 12**


SERIES TTF = TOUGHTray ACCESSORIES	ANGLE 60 = 60°	TYPE VOBAR = VERTICAL OUTSIDE BARRIER	NOMINAL HEIGHT (H) 4 = 4" 6 = 6"	RADIUS (R) 12 = 12" 24 = 24" 36 = 36"
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**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) TTA-CVRSCRW-S6 SELF DRILLING SCREW IS SOLD SEPARATELY IN QTY'S OF BAG OF 50.

**PATENT PENDING**

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>4" AND 6" HEIGHT (60° ANGLE) TTA SERIES VERITCAL OUTSIDE BARRIER</b>		
	DRAWN BY/DATE: VA 02JUL2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48980</b>
	APPROVED BY/DATE: JDG 02JUL2024	SCALE: <b>NTS</b>	REV: <b>B</b> SHEET: <b>1 OF 1</b> <small>CAD FILE NAME: 60VBAR CAD SAVE DATE: Monday, July 8, 2024 3:06:07 PM</small>

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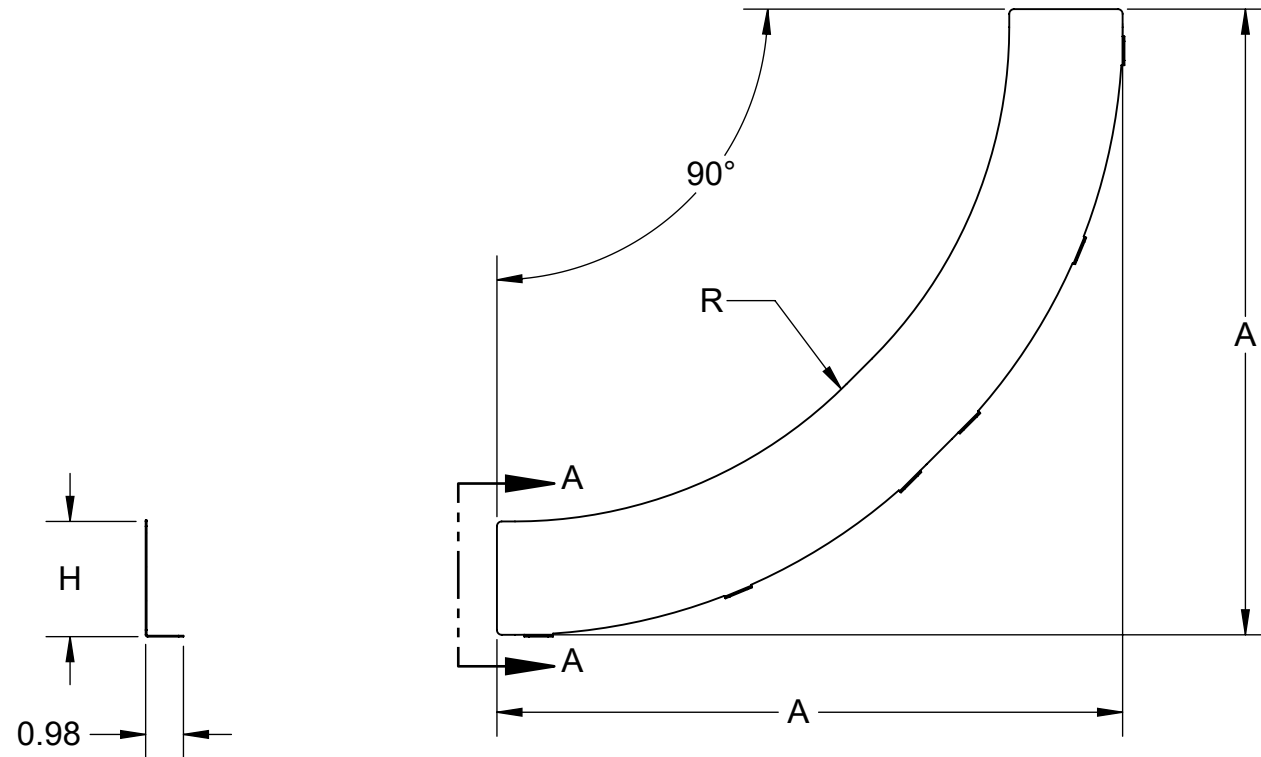
1

**HARDWARE FIXINGS:**



- TTA-CVRSCRW-S6  
1/4 X 1/2" TORX HEAD SELF DRILLING SCREW  
SEE NOTE 3

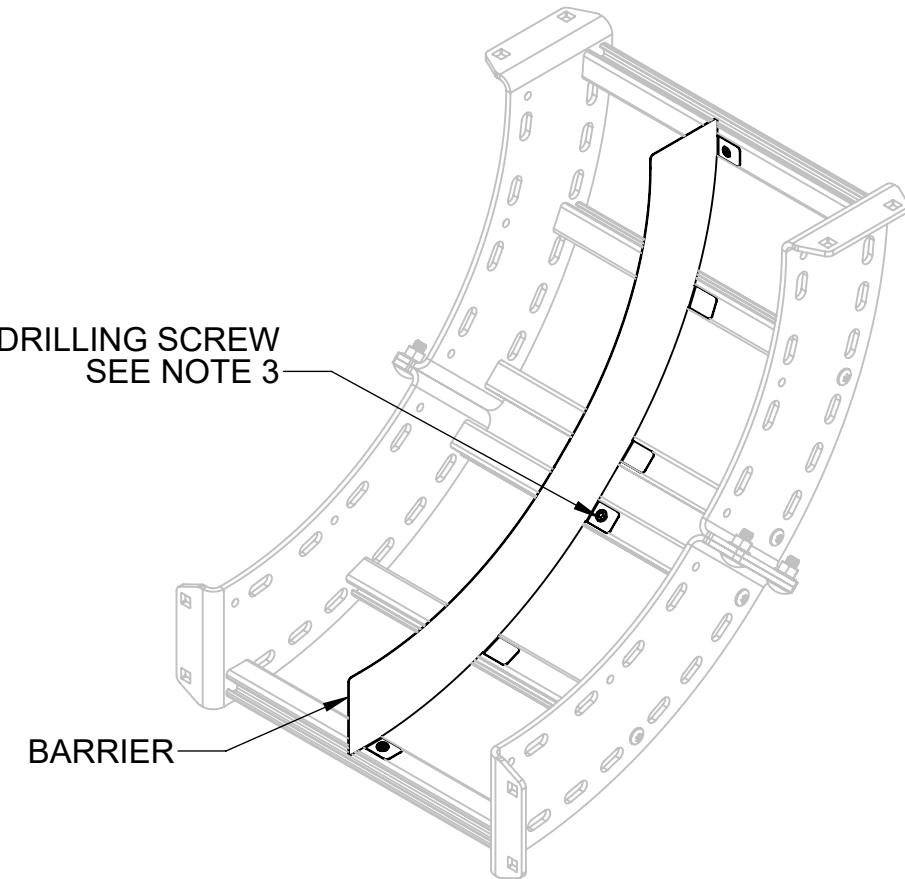
PART NUMBER	A
TTA-90VIBAR-4-12	16.29
TTA-90VIBAR-4-24	28.27
TTA-90VIBAR-4-36	40.27
TTA-90VIBAR-6-12	18.27
TTA-90VIBAR-6-24	30.27
TTA-90VIBAR-6-36	42.27



SECTION A-A

SIDE VIEW

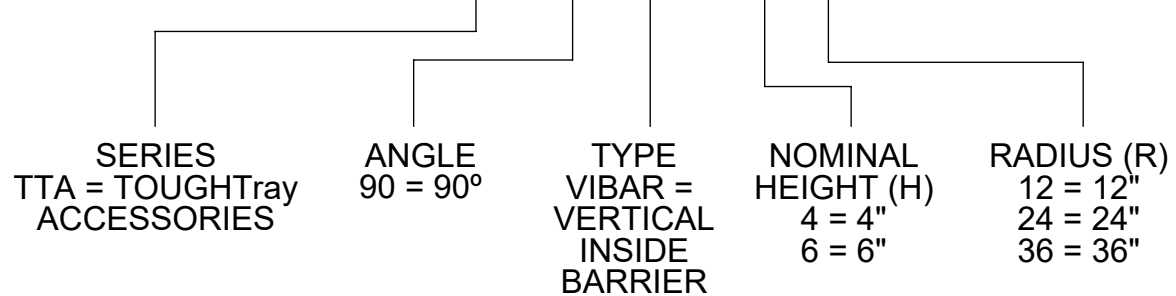
1/4 SELF DRILLING SCREW  
SEE NOTE 3



BARRIER

INSTALLED VIEW

**TTA - 90 VIBAR - 4 - 12**



**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) TTA-CVRSCRW-S6 SELF DRILLING SCREW IS SOLD SEPARATELY IN QTY'S OF BAG OF 50.

**PATENT PENDING**

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

	TITLE: <b>4" AND 6" HEIGHT (90° ANGLE) TTA SERIES VERITCAL INSIDE BARRIER</b>		
	DRAWN BY/DATE: VA 02JUL2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48981</b>
APPROVED BY/DATE: JDG 02JUL2024	SCALE: <b>NTS</b>	CAD FILE NAME: TTA-90VIBAR_A CAD SAVE DATE: Monday, July 8, 2024 3:03:05 PM	SHEET: <b>1 OF 1</b>

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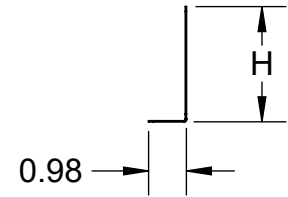
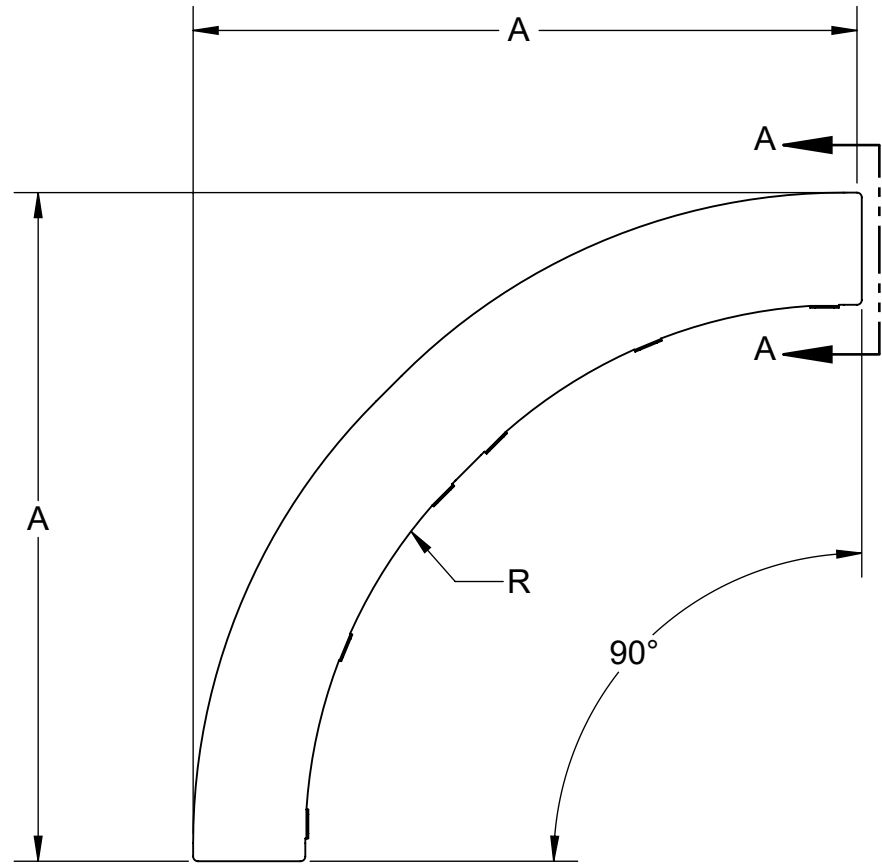
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**HARDWARE FIXINGS:**

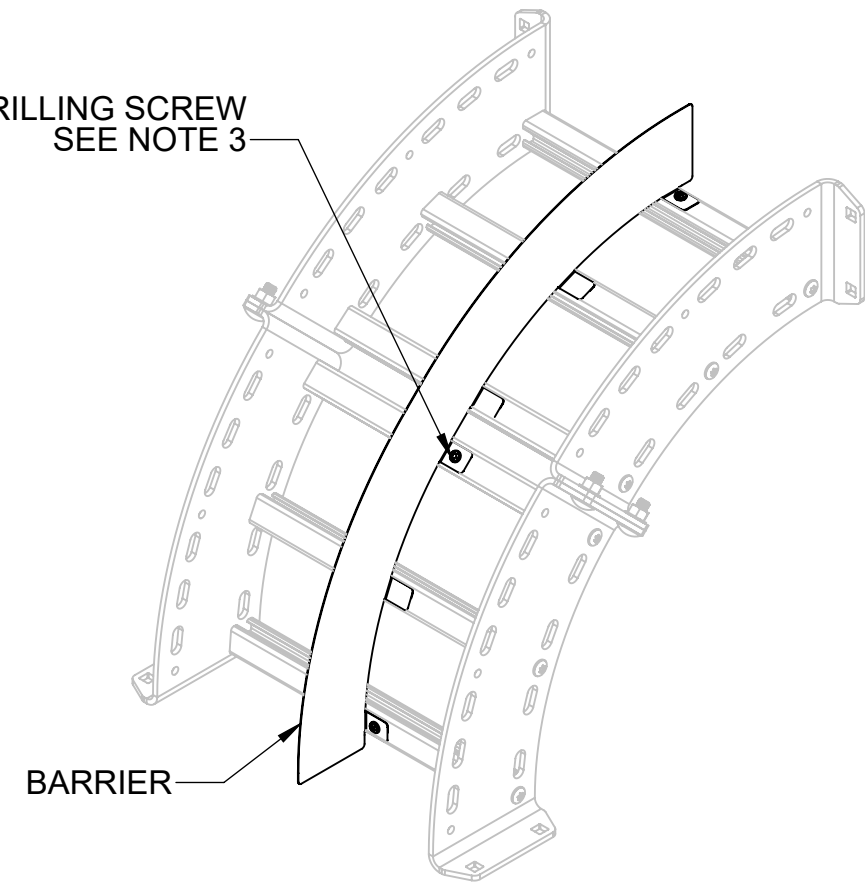
 - TTA-CVRSCRW-S6  
1/4 X 1/2" TORX HEAD SELF DRILLING SCREW  
SEE NOTE 3

PART NUMBER	A
TTA-90VOBAR-4-12	17.41
TTA-90VOBAR-4-24	29.43
TTA-90VOBAR-4-36	41.43
TTA-90VOBAR-6-12	19.41
TTA-90VOBAR-6-24	31.43
TTA-90VOBAR-6-36	43.43



SECTION A-A

1/4 SELF DRILLING SCREW  
SEE NOTE 3



INSTALLED VIEW

**TTA - 90 VOBAR - 4 - 12**


SERIES TTF = TOUGHTray ACCESSORIES	ANGLE 90 = 90°	TYPE VOBAR = VERTICAL OUTSIDE BARRIER	NOMINAL HEIGHT (H) 4 = 4" 6 = 6"	RADIUS (R) 12 = 12" 24 = 24" 36 = 36"
--	-------------------	---	---	--

**NOTES:**


- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) TTA-CVRSCRW-S6 SELF DRILLING SCREW IS SOLD SEPARATELY IN QTY'S OF BAG OF 50.

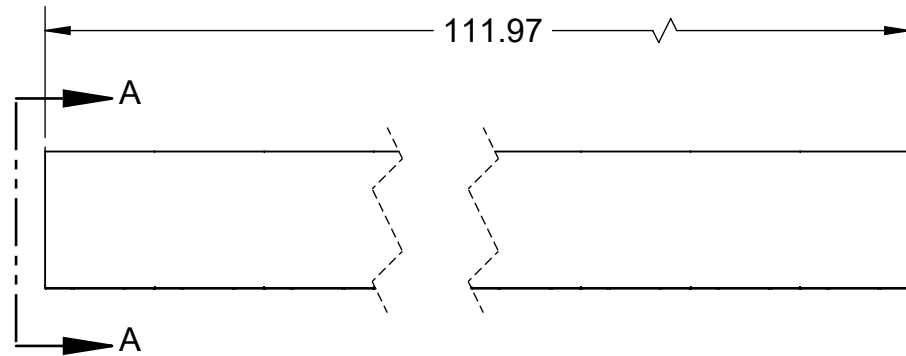
**PATENT PENDING**

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

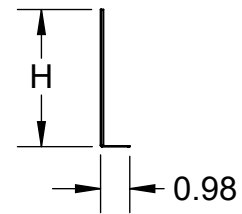
 <b>CT INNOVATIONS</b>	TITLE: <b>4" AND 6" HEIGHT (90° ANGLE) TTA SERIES VERITICAL OUTSIDE BARRIER</b>		
	DRAWN BY/DATE: VA 02JUL2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48982</b>
APPROVED BY/DATE: JDG 02JUL2024	SCALE: <b>NTS</b>	CAD FILE NAME: 90VBAR CAD SAVE DATE: Monday, July 8, 2024 3:02:29 PM	SHEET: <b>1 OF 1</b>

**HARDWARE FIXINGS:**

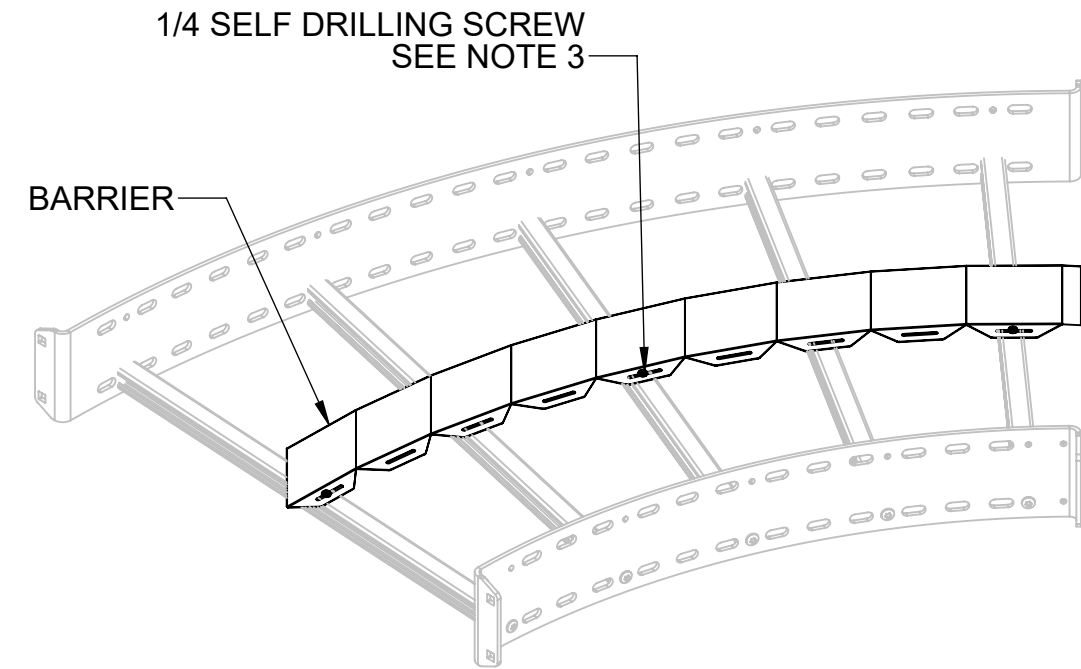
 - TTA-CVRSCRW-S6  
1/4 X 1/2" TORX HEAD SELF DRILLING SCREW  
SEE NOTE 3



SIDE VIEW



SECTION A-A



INSTALLED VIEW

**TTA - HBAR - 4**


SERIES TTF = TOUGHTray ACCESSORIES	TYPE HBAR = HORIZONTAL BEND BARRIER	NOMINAL HEIGHT (H) 4 = 4" 6 = 6"
--	--	---

**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) TTA-CVRSCRW-S6 SELF DRILLING SCREW IS SOLD SEPARATELY IN QTY'S OF BAG OF 50.

**PATENT PENDING**

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>4" AND 6" HEIGHT TTA SERIES HORIZONTAL BEND BARRIER</b>		
	DRAWN BY/DATE: LW 22MAR2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48983</b>
APPROVED BY/DATE: JDG 29MAR2024	SCALE: <b>NTS</b>	CAD FILE NAME: TTA-HBAR_A CAD SAVE DATE: Monday, July 8, 2024 3:10:31 PM	SHEET: <b>1 OF 1</b>



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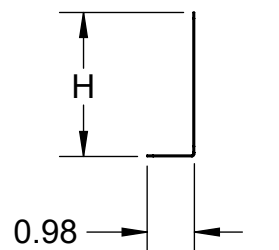
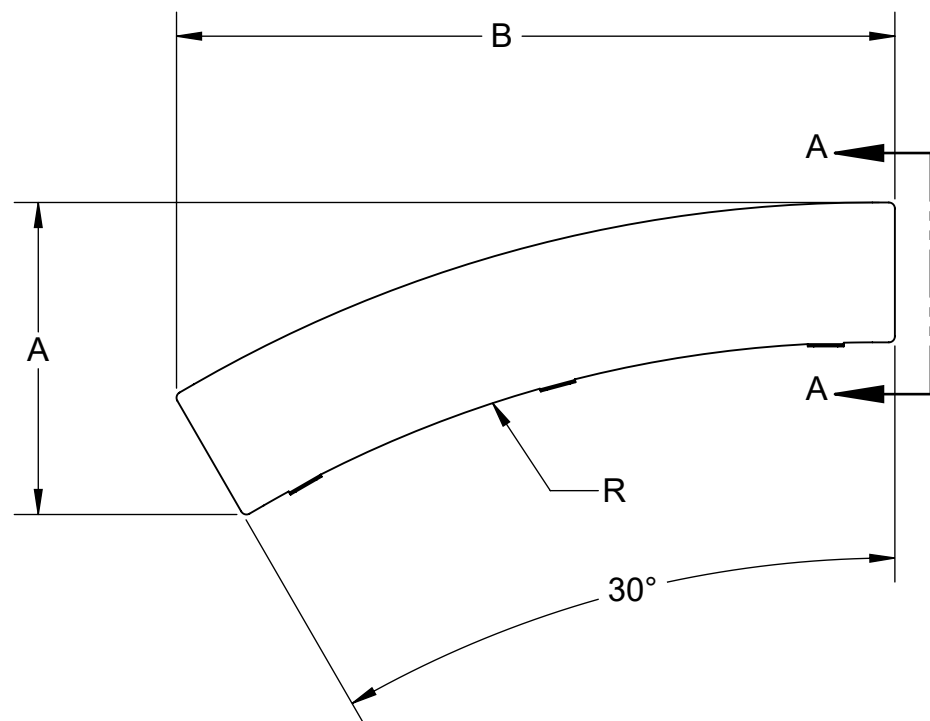
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**HARDWARE FIXINGS:**



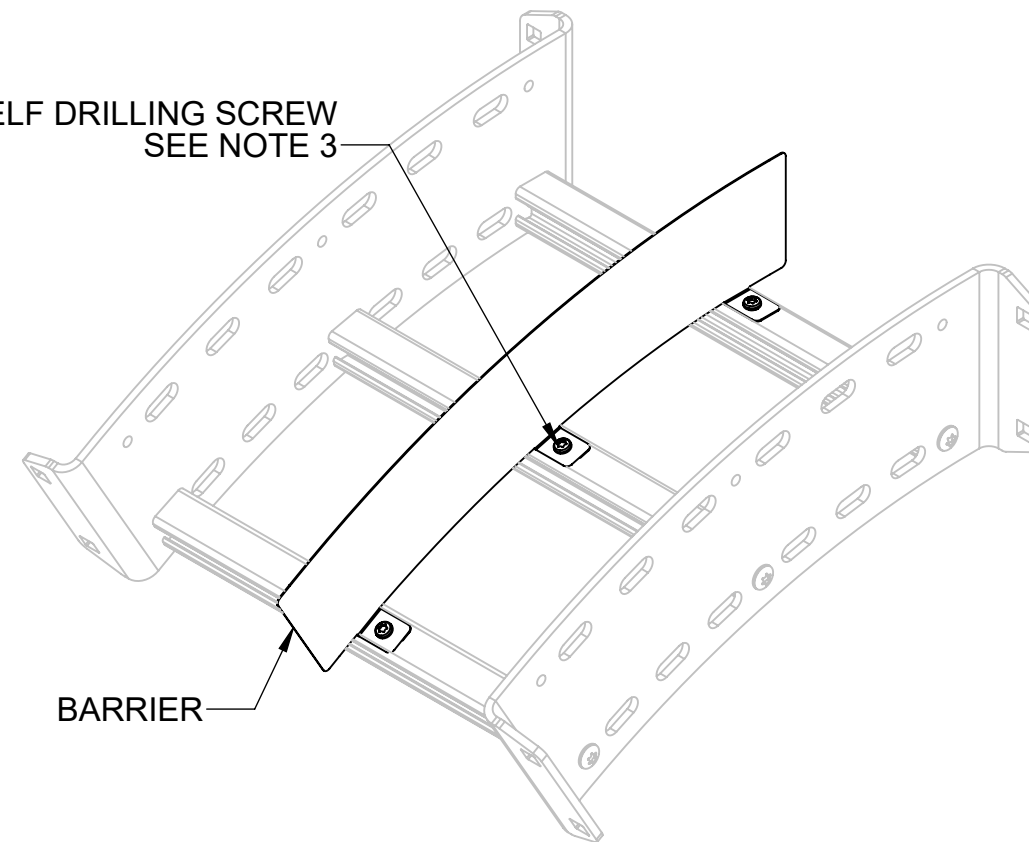
- TTA-CVRSCRW-S6  
1/4 X 1/2" TORX HEAD SELF DRILLING SCREW  
SEE NOTE 3

PART NUMBER	A	B
TTA-30VOBAR-4-12	4.90	8.97
TTA-30VOBAR-4-24	6.50	14.97
TTA-30VOBAR-4-36	8.10	20.96
TTA-30VOBAR-6-12	6.90	9.97
TTA-30VOBAR-6-24	8.50	15.97
TTA-30VOBAR-6-36	10.10	21.96



SECTION A-A

1/4 SELF DRILLING SCREW  
SEE NOTE 3



BARRIER

INSTALLED VIEW

**TTA - 30 VOBAR - 4 - 12**

SERIES TTF = TOUGHTray ACCESSORIES	ANGLE 30 = 30°	TYPE VOBAR = VERTICAL OUTSIDE BARRIER	NOMINAL HEIGHT (H) 4 = 4" 6 = 6"	RADIUS (R) 12 = 12" 24 = 24" 36 = 36"
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**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) TTA-CVRSCRW-S6 SELF DRILLING SCREW IS SOLD SEPARATELY IN QTY'S OF BAG OF 50.

**PATENT PENDING**

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

	TITLE: <b>4" AND 6" HEIGHT (30° ANGLE) TTA SERIES VERITICAL OUTSIDE BARRIER</b>		
	DRAWN BY/DATE: VA 02JUL2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48984</b>
APPROVED BY/DATE: JDG 02JUL2024	SCALE: <b>NTS</b>	CAD FILE NAME: TTA-30VOBAR_A CAD SAVE DATE: Monday, July 8, 2024 3:07:20 PM	SHEET: <b>1 OF 1</b>

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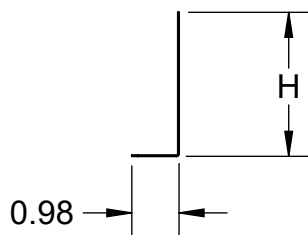
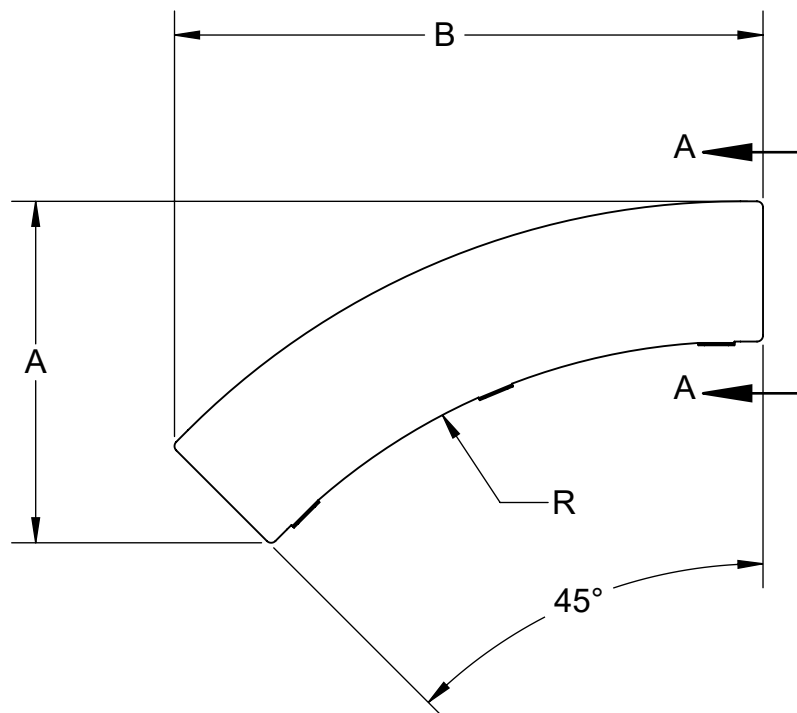
2

1

**HARDWARE FIXINGS:**

-  - TTA-CVRSCRW-S6  
1/4 X 1/2" TORX HEAD SELF DRILLING SCREW  
SEE NOTE 3

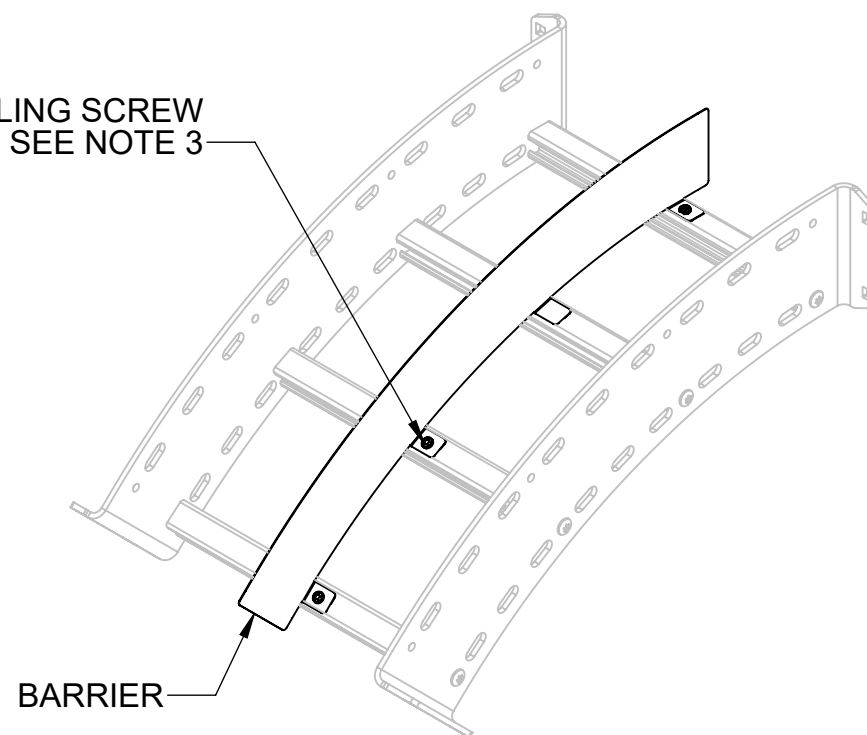
PART NUMBER	A	B
TTA-45VOBAR-4-12	7.11	12.26
TTA-45VOBAR-4-24	10.62	20.74
TTA-45VOBAR-4-36	14.13	29.22
TTA-45VOBAR-6-12	9.11	13.67
TTA-45VOBAR-6-24	12.62	22.16
TTA-45VOBAR-6-36	16.13	30.63



SECTION A-A

SIDE VIEW

1/4 SELF DRILLING SCREW  
SEE NOTE 3



INSTALLED VIEW

**TTA - 45 VOBAR - 4 - 12**

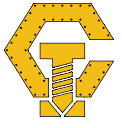
SERIES TTF = TOUGHTray ACCESSORIES	ANGLE 45 = 45°	TYPE VOBAR = VERTICAL OUTSIDE BARRIER	NOMINAL HEIGHT (H) 4 = 4" 6 = 6"	RADIUS (R) 12 = 12" 24 = 24" 36 = 36"
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**NOTES:**

- DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS SHOWN ARE NOMINAL.
- TTA-CVRSCRW-S6 SELF DRILLING SCREW IS SOLD SEPARATELY IN QTY'S OF BAG OF 50.

**PATENT PENDING**

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>4" AND 6" HEIGHT (45° ANGLE) TTA SERIES VERITCAL OUTSIDE BARRIER</b>		
	DRAWN BY/DATE: VA 02JUL2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48985</b>
APPROVED BY/DATE: JDG 02JUL2024	SCALE: <b>NTS</b>	CAD FILE NAME: TTA-45VOBAR_A CAD SAVE DATE: Monday, July 8, 2024 3:08:20 PM	SHEET: <b>1 OF 1</b>

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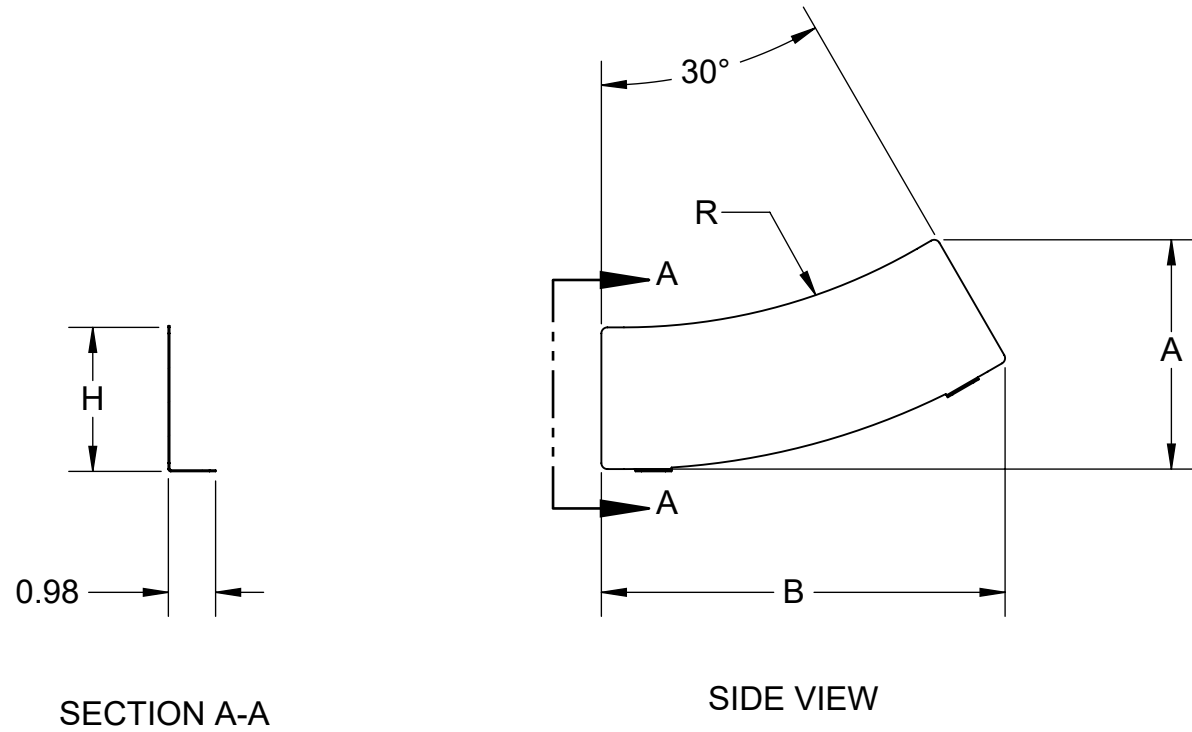
1

**HARDWARE FIXINGS:**

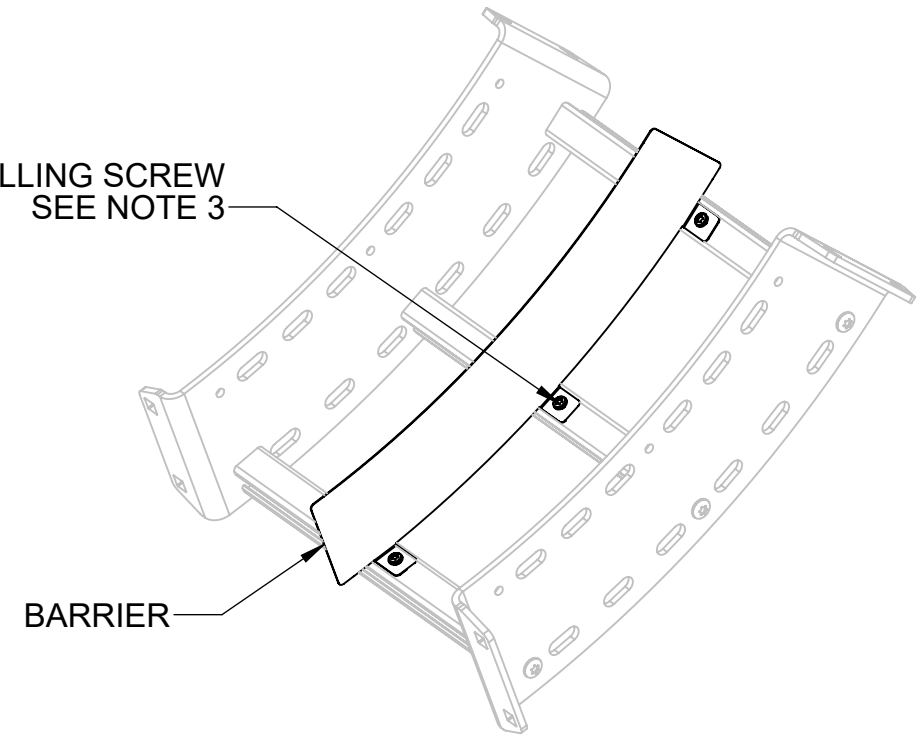


- TTA-CVRSCRW-S6  
1/4 X 1/2" TORX HEAD SELF DRILLING SCREW  
SEE NOTE 3

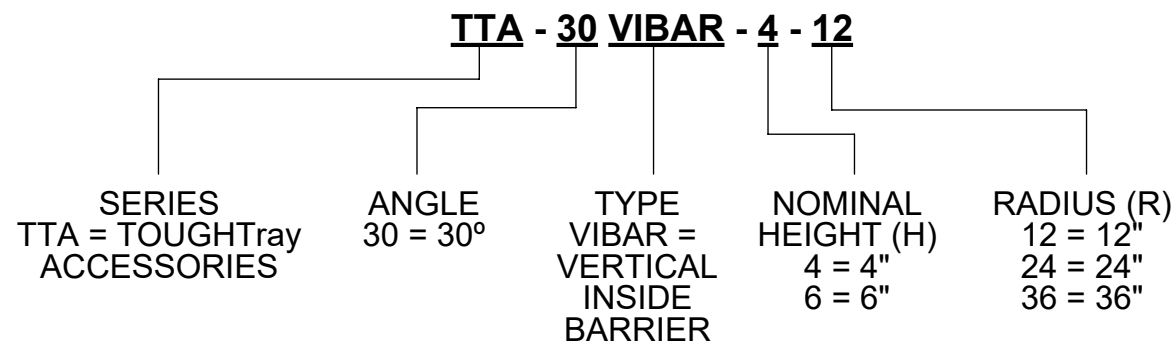
PART NUMBER	A	B
TTA-30VIBAR-4-12	4.78	8.41
TTA-30VIBAR-4-24	6.39	14.40
TTA-30VIBAR-4-36	8.00	20.40
TTA-30VIBAR-6-12	6.77	9.40
TTA-30VIBAR-6-24	8.39	15.40
TTA-30VIBAR-6-36	10.00	21.40



1/4 SELF DRILLING SCREW  
SEE NOTE 3



INSTALLED VIEW

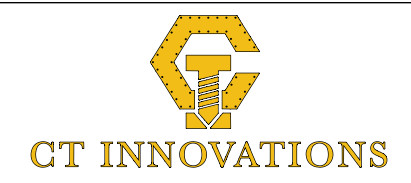


**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) TTA-CVRSCRW-S6 SELF DRILLING SCREW IS SOLD SEPARATELY IN QTY'S OF BAG OF 50.

**PATENT PENDING**

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.



TITLE:  
**4" AND 6" HEIGHT (30° ANGLE)  
TTA SERIES VERTICAL INSIDE BARRIER**

DRAWN BY/DATE:  
VA 02JUL2024

APPROVED BY/DATE:  
JDG 02JUL2024

SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48986</b>	REV: <b>B</b>
SCALE: <b>NTS</b>	CAD FILE NAME: TTA-30VIBAR_A CAD SAVE DATE: Monday, July 8, 2024 3:05:01 PM	SHEET: <b>1 OF 1</b>

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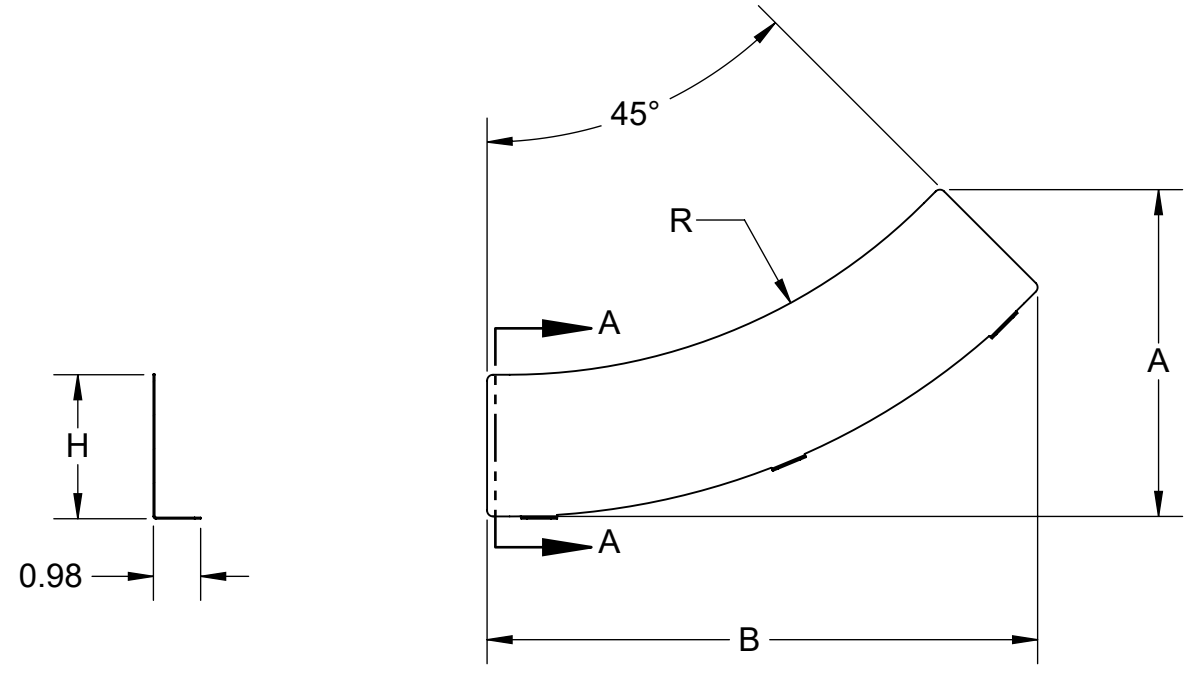
2

1

**HARDWARE FIXINGS:**

-  - TTA-CVRSCRW-S6  
1/4 X 1/2" TORX HEAD SELF DRILLING SCREW  
SEE NOTE 3

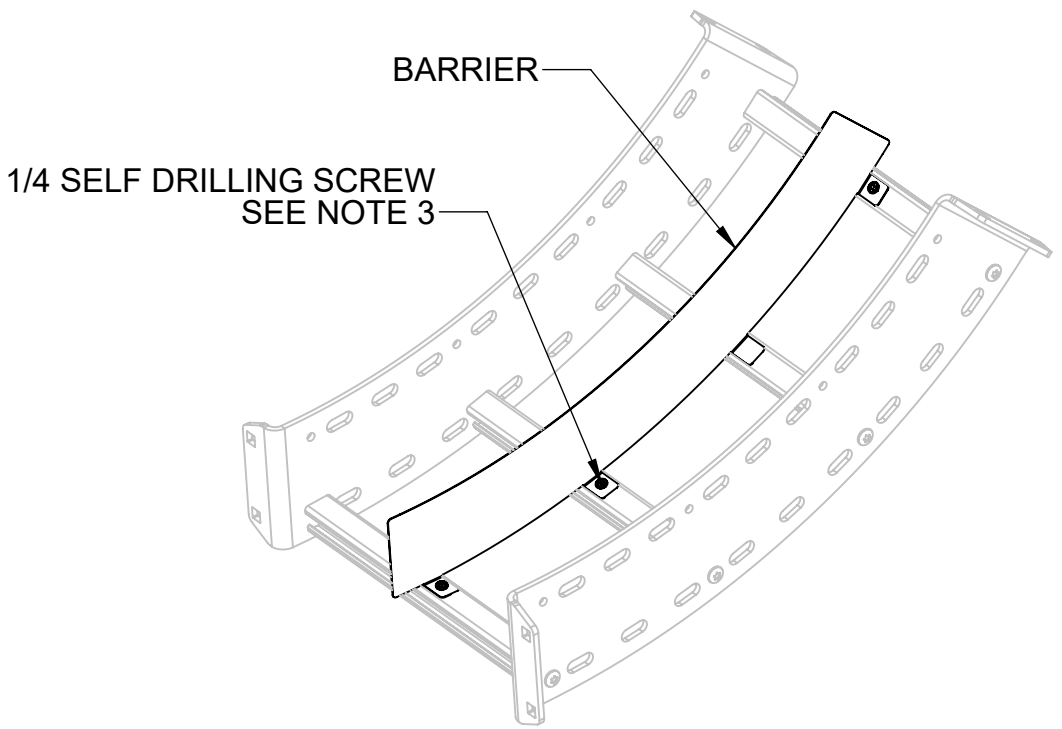
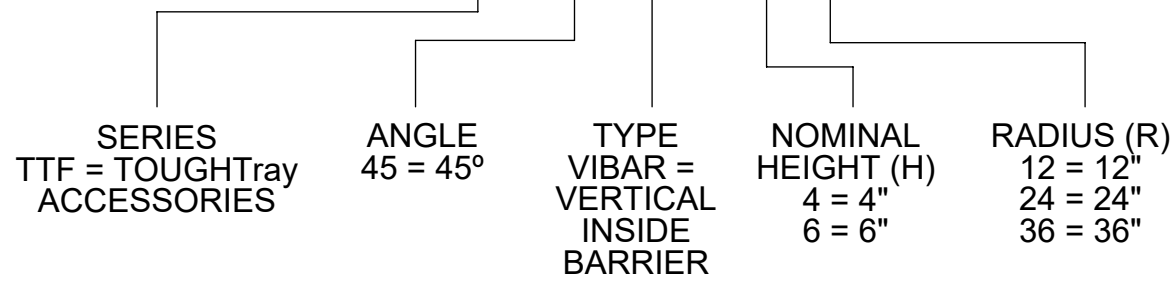
PART NUMBER	A	B
TTA-45VIBAR-4-12	6.81	11.47
TTA-45VIBAR-4-24	10.32	19.94
TTA-45VIBAR-4-36	13.84	28.42
TTA-45VIBAR-6-12	8.80	12.86
TTA-45VIBAR-6-24	12.32	21.35
TTA-45VIBAR-6-36	29.83	15.84



SECTION A-A

SIDE VIEW


**TTA - 45 VIBAR - 4 - 12**



INSTALLED VIEW

- NOTES:**
- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
  - 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
  - 3) TTA-CVRSCRW-S6 SELF DRILLING SCREW IS SOLD SEPARATELY IN QTY'S OF BAG OF 50.

**PATENT PENDING**

<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.</small>			
		<b>TITLE:</b> <b>4" AND 6" HEIGHT (45° ANGLE) TTA SERIES VERITCAL INSIDE BARRIER</b>	
DRAWN BY/DATE: VA 02JUL2024		SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48987</b>
APPROVED BY/DATE: JDG 02JUL2024		SCALE: <b>NTS</b>	REV: <b>B</b> SHEET: <b>1 OF 1</b>
		CAD FILE NAME: TTA-45VIBAR_A CAD SAVE DATE: Monday, July 8, 2024 3:04:35 PM	

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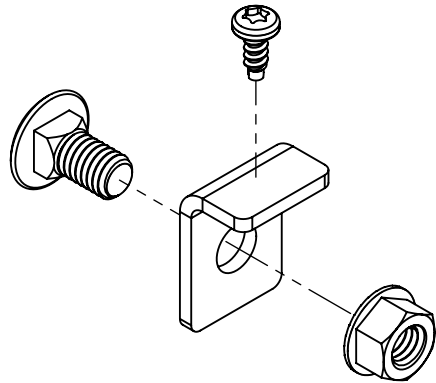
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**HARDWARE INCLUDED:**

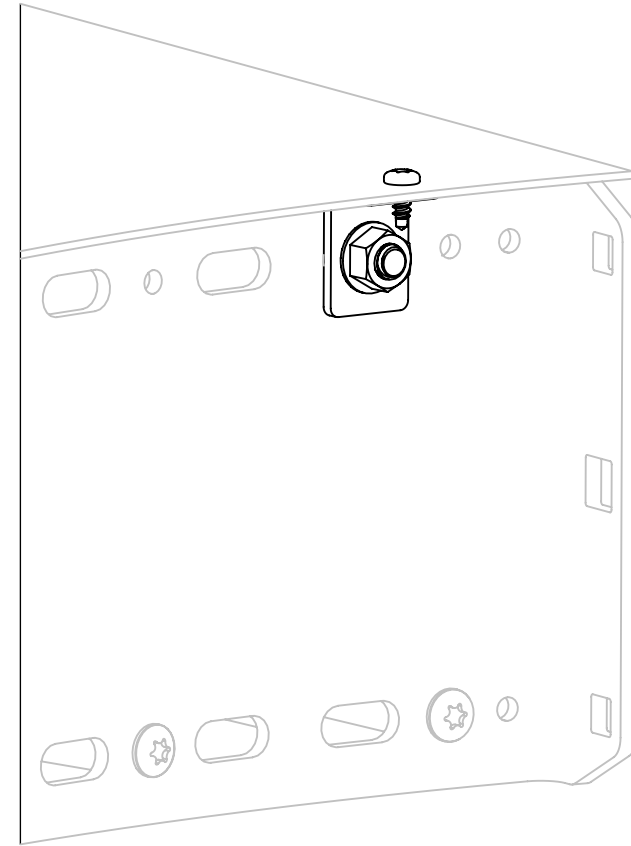
-  - (1 EA) TTA-CVRSCRW-S6  
1/4 X 1/2" TORX HEAD SELF DRILLING SCREW
-  - (1 EA) TA38SNCB075-S6  
3/8 X 1.0 SQUARE NECK CARRIAGE BOLT
-  - (1 EA) TA38FNHX-S6  
3/8 SERRATED FLANGE HEX NUT



**TTA - CVRCLMP**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
CVRCLMP =  
COVER CLAMP



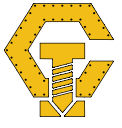
INSTALLED VIEW

**PATENT PENDING**

**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED PER PIECE COMPLETE WITH HARDWARE.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TTA-CVRCLMP TTA COVER CLAMP</b>		
	DRAWN BY/DATE: LW 13OCT2023	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48990</b>
	APPROVED BY/DATE: JDG 13OCT2023	SCALE: <b>NTS</b>	CAD FILE NAME: Cover Clamp Concept_1 CAD SAVE DATE: Monday, July 8, 2024 6:53:39 PM
		REV: <b>B</b>	SHEET: <b>1 OF 1</b>

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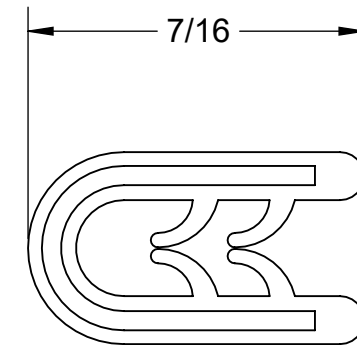
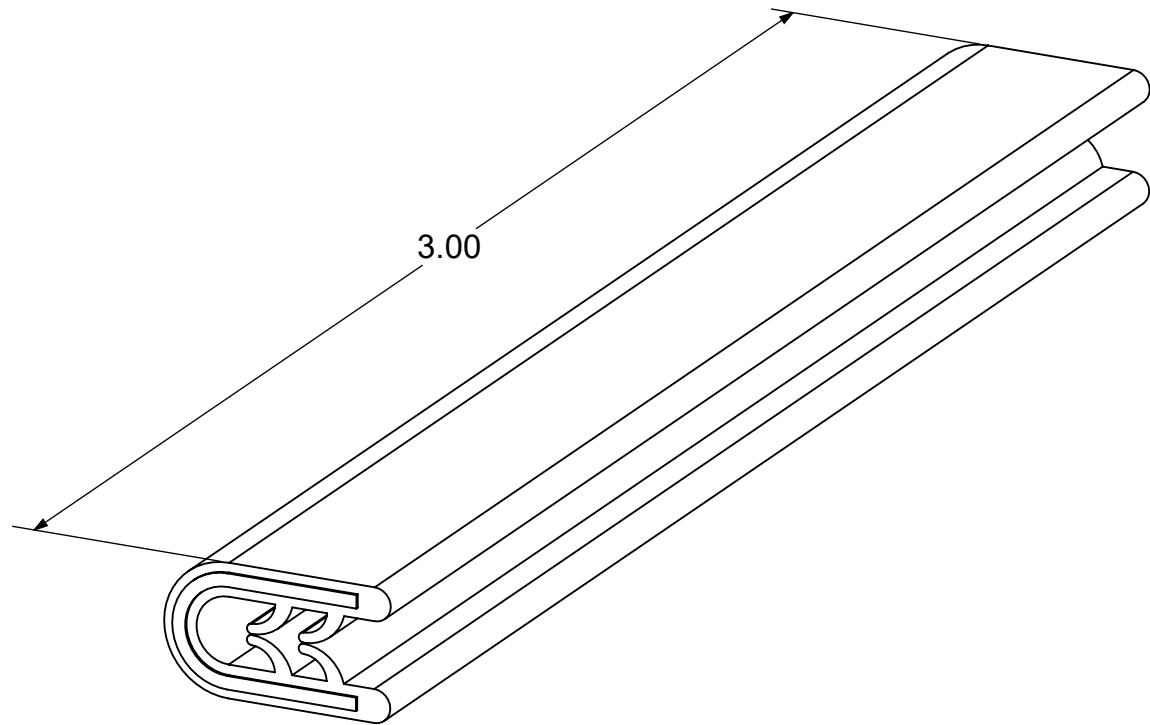
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A



**TTA - BARSPLICE**


SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
BSPLICE =  
BARRIER SPLICE

**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED PER PIECE.
- 4) 1/32" EDGE THICKNESS.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>		TITLE:		
		<b>TTA-BARSPLICE TTA BARRIER SPLICE</b>		
DRAWN BY/DATE: LW 19OCT2023		SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48993</b>	REV: <b>A</b>
APPROVED BY/DATE: JDG 02OCT2023		SCALE: <b>NTS</b>	CAD FILE NAME: TTA-TTRIM716132_A CAD SAVE DATE: Wednesday, October 4, 2023 7:53:24 PM	SHEET: <b>1 OF 1</b>

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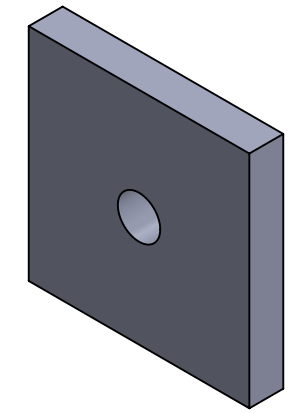
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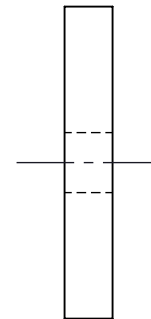
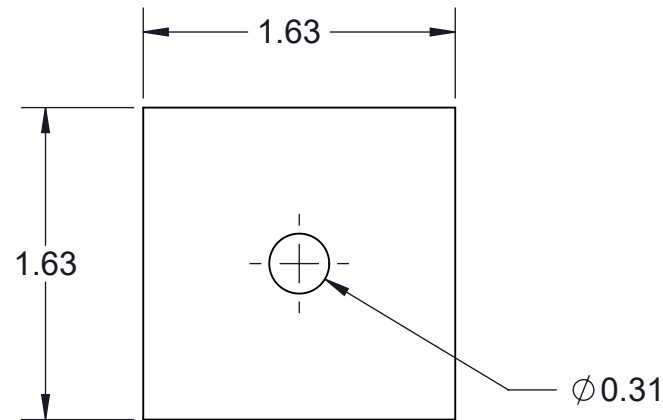


TF25WSQ-(\*) SQUARE WASHER, 5/16" HOLE

(\*) INSERT MATERIAL/FINISH:  
 ZN - GALVANIZED  
 HD - HOT DIP  
 S6 - STAINLESS STEEL 316  
 S4 - STAINLESS STEEL 304  
 AL - ALUMINUM




ISOMETRIC VIEW



**NOTES:**

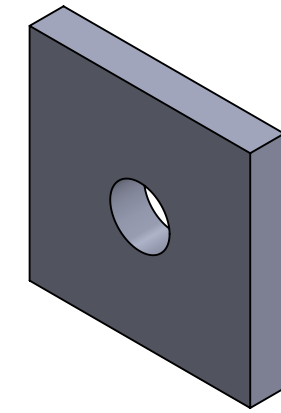
- 1) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

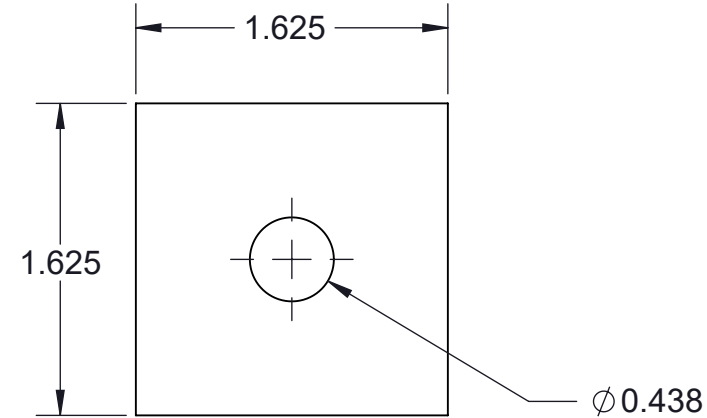
 <b>CT INNOVATIONS</b>	TITLE: <b>TF25WSQ-(*)                  SQUARE WASHER, 5/16" HOLE</b>		
	DRAWN BY/DATE: LW 05JAN2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S12006</b>
APPROVED BY/DATE: JDG 12JAN2024	SCALE: <b>NTS</b>	CAD FILE NAME: TF25WSQ_A CAD SAVE DATE: Monday, March 4, 2024 9:46:57 PM	SHEET: <b>1 OF 1</b>

PART NUMBER	D (in)
TF25WSQ-(* )	5/16
TF38WSQ-(* )	7/16
TF50WSQ-(* )	9/16

(\*) INSERT MATERIAL/FINISH:  
 ZN - GALVANIZED  
 HD - HOT DIP  
 S6 - STAINLESS STEEL 316  
 S4 - STAINLESS STEEL 304  
 AL - ALUMINUM




ISOMETRIC VIEW



**NOTES:**

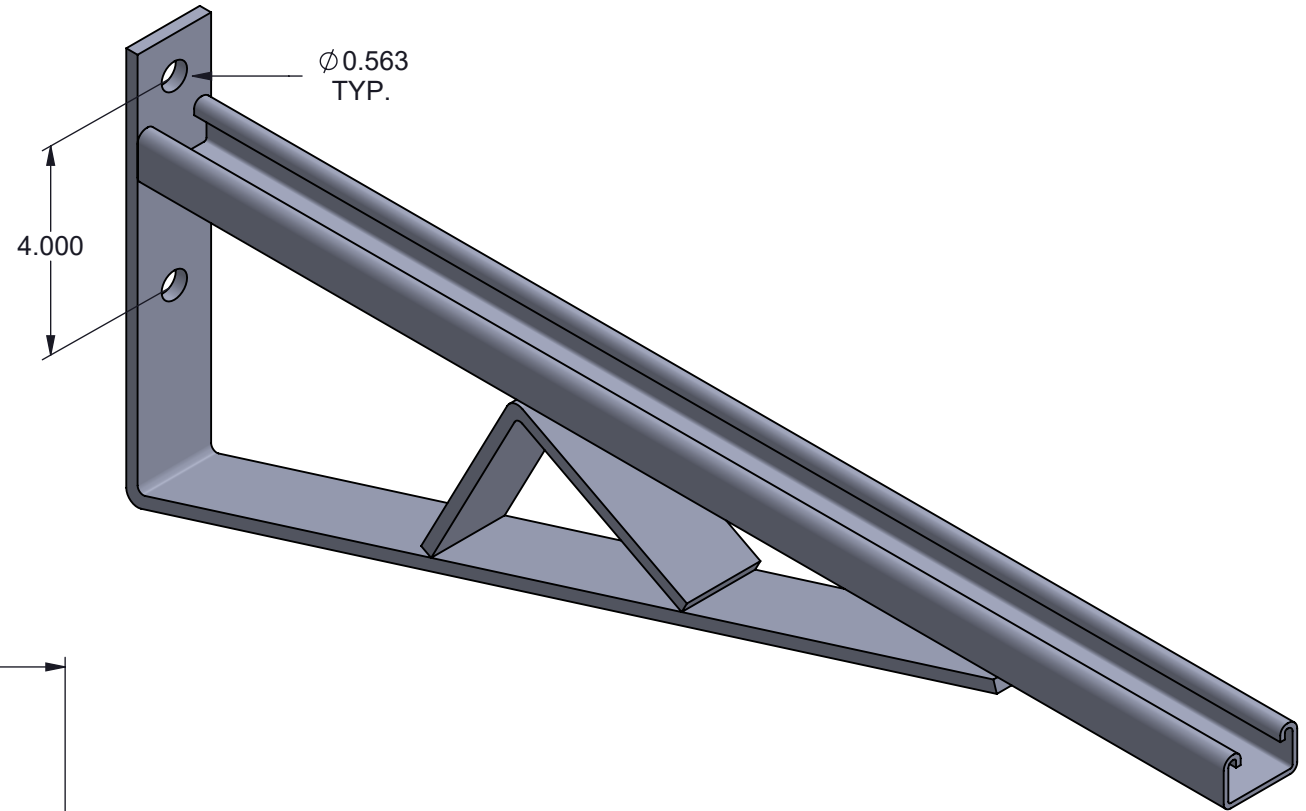
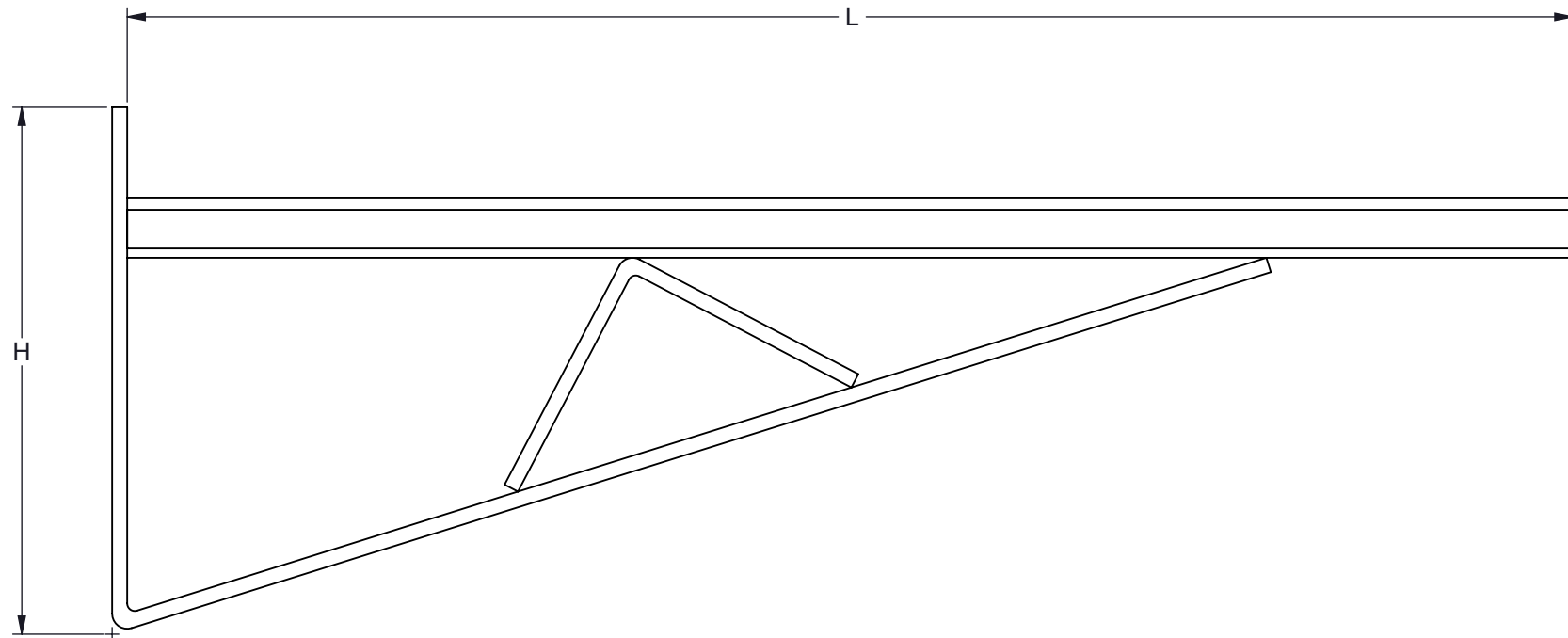
- 1) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TF(Ø)WSQ-(* ) SQUARE WASHER</b>		
	DRAWN BY/DATE: LW 19JUL2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S12996</b>
APPROVED BY/DATE: JDG 19JUL2024	SCALE: <b>NTS</b>	CAD FILE NAME: TF38WSQ_A CAD SAVE DATE: Friday, July 19, 2024 6:44:46 PM	SHEET: <b>1 OF 1</b>

PART NUMBER	L (in)	H (in)
TSGC12WB-(*)	12	8.75
TSGC18WB-(*)	18	8.75
TSGC24WB-(*)	24	8.75
TSGC30WB-(*)	30	11.25
TSGC36WB-(*)	36	11.25
TSGC48WB-(*)	48	16.00

(\*) INSERT MATERIAL/FINISH:  
 ZN - GALVANIZED  
 HD - HOT DIP  
 S6 - STAINLESS STEEL 316  
 S4 - STAINLESS STEEL 304  
 AL - ALUMINUM




ISOMETRIC VIEW

**NOTES:**

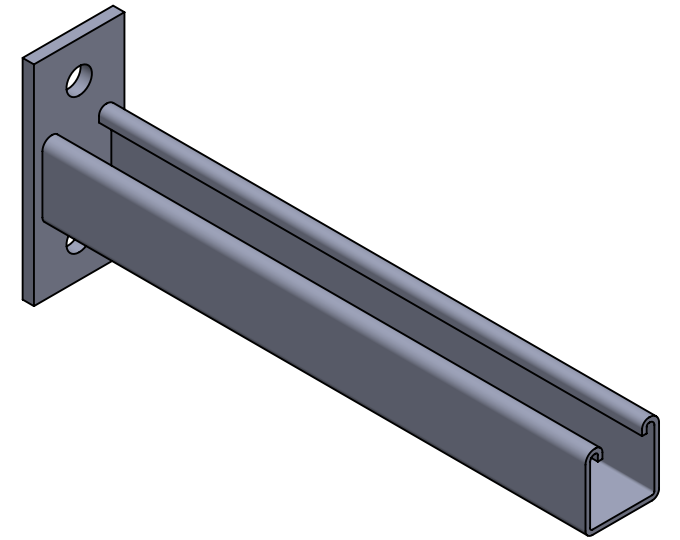
- 1) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

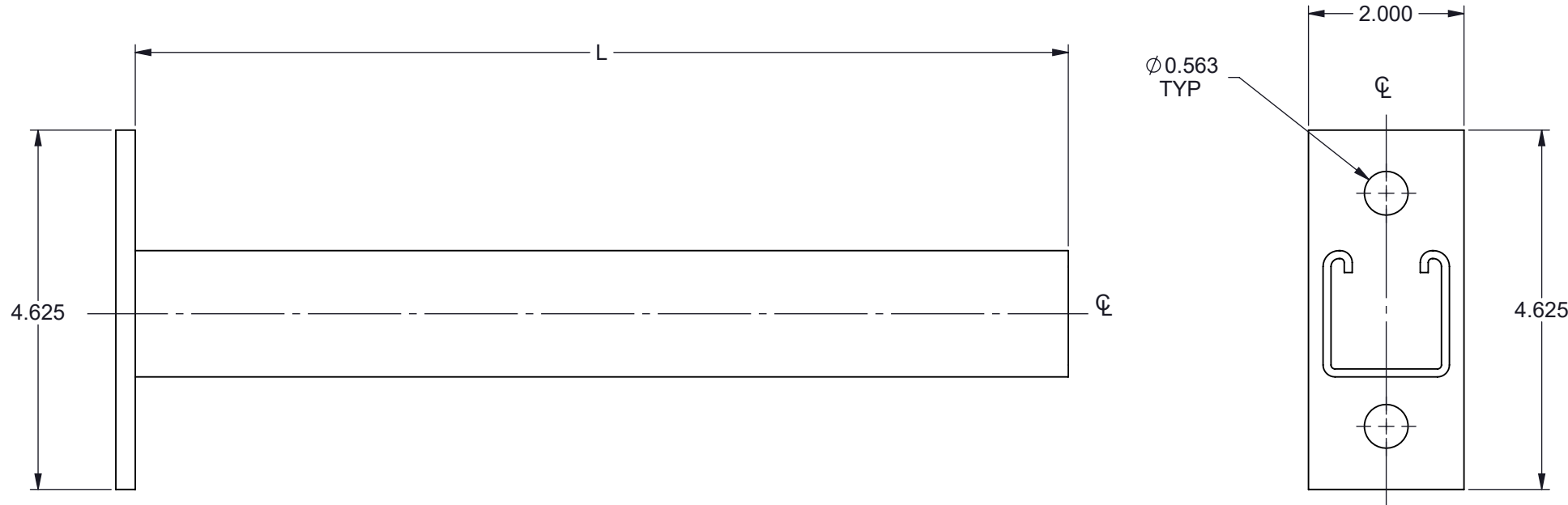
 <b>CT INNOVATIONS</b>	TITLE: <b>TSGC(L)WB-(*)</b> <b>GUSSETED CHANNEL WALL BRACKET SUPPORT</b>		
	DRAWN BY/DATE: LW 27FEB2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S12997</b>
APPROVED BY/DATE: JDG 29FEB2024	SCALE: <b>NTS</b>	CAD FILE NAME: TSGCXXWB_A CAD SAVE DATE: Tuesday, February 27, 2024 9:13:36 AM	SHEET: <b>1 OF 1</b>

PART NUMBER	L (in)
TSSC06WB-(*)	6
TSSC12WB-(*)	12
TSSC18WB-(*)	18
TSSC24WB-(*)	24

(\*) INSERT MATERIAL/FINISH:  
 ZN - GALVANIZED  
 HD - HOT DIP  
 S6 - STAINLESS STEEL 316  
 S4 - STAINLESS STEEL 304  
 AL - ALUMINUM




ISOMETRIC VIEW



**NOTES:**

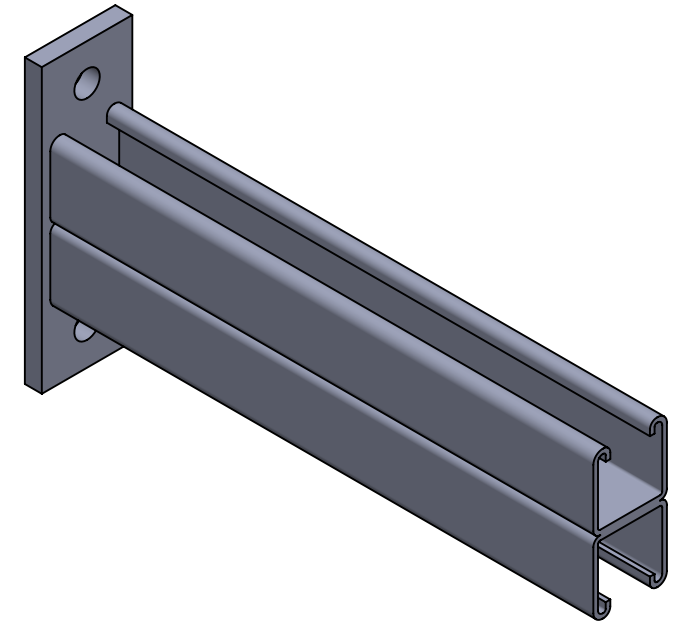
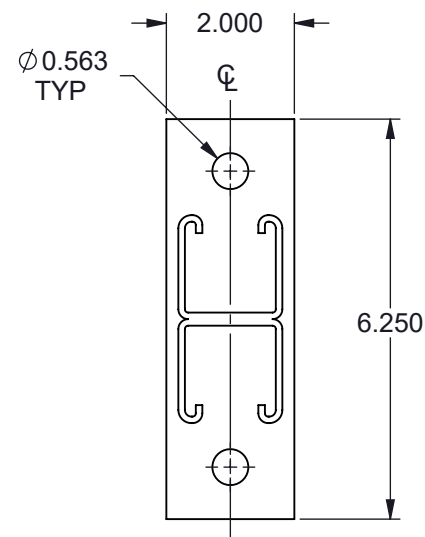
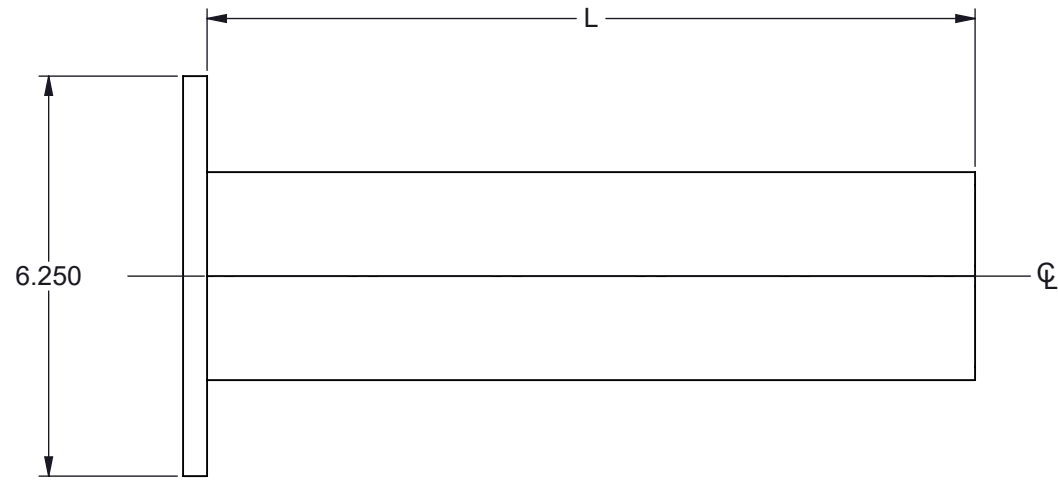
- 1) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TSSC(L)WB-(*)</b> <b>SINGLE CHANNEL WALL BRACKET SUPPORT</b>			
	DRAWN BY/DATE: LW 27FEB2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S12998</b>	REV: <b>A</b>
	APPROVED BY/DATE: JDG 29FEB2024	SCALE: <b>NTS</b>	CAD FILE NAME: CTI-S12998_A CAD SAVE DATE: Tuesday, February 27, 2024 9:14:10 AM	SHEET: <b>1 OF 1</b>

PART NUMBER	L (in)
TSDC12WB-(* )	12
TSDC18WB-(* )	18
TSDC24WB-(* )	24
TSDC30WB-(* )	30
TSDC36WB-(* )	36

(\*) INSERT MATERIAL/FINISH:  
 ZN - GALVANIZED  
 HD - HOT DIP  
 S6 - STAINLESS STEEL 316  
 S4 - STAINLESS STEEL 304  
 AL - ALUMINUM

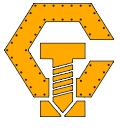


ISOMETRIC VIEW

**NOTES:**

- 1) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TSDC(L)WB-(* )          DOUBLE CHANNEL WALL BRACKET SUPPORT</b>		
	DRAWN BY/DATE: LW 27FEB2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S12999</b>
APPROVED BY/DATE: JDG 29FEB2024	SCALE: <b>NTS</b>	CAD FILE NAME: CTI-S12999_A CAD SAVE DATE: Tuesday, February 27, 2024 8:54:47 AM	SHEET: <b>1 OF 1</b>

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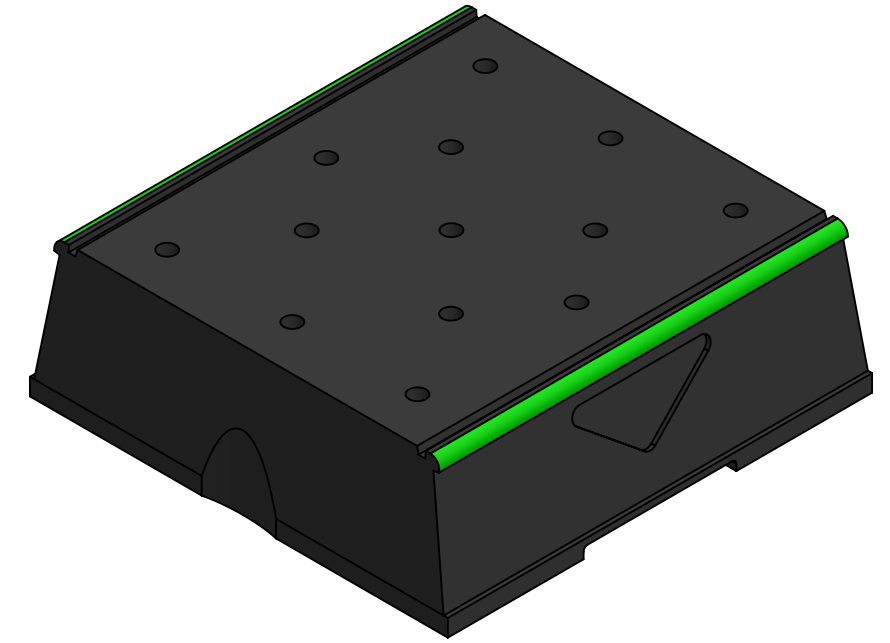
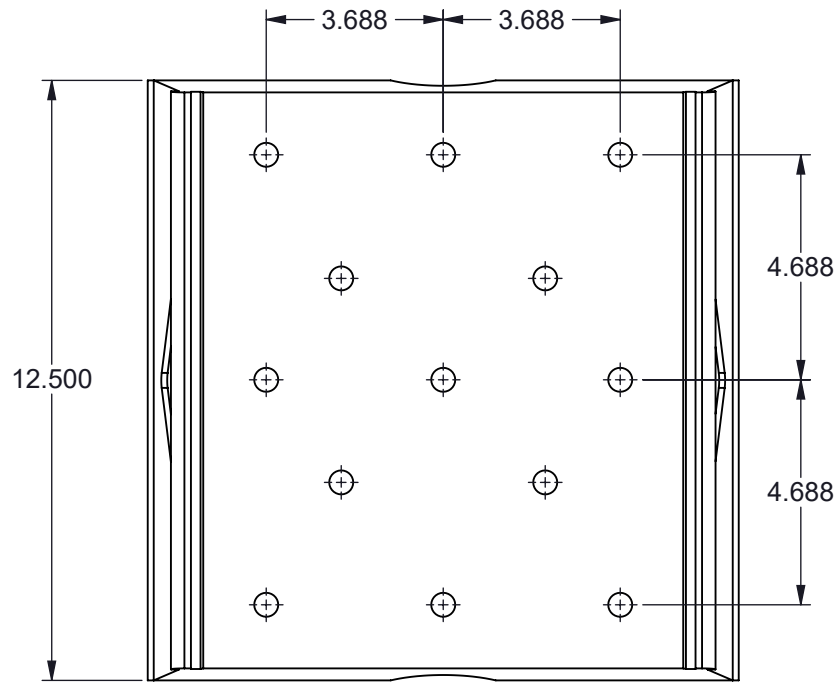
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PART NO.

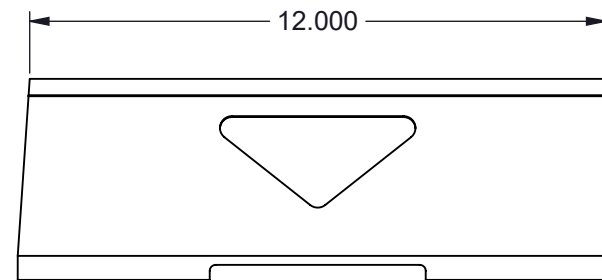
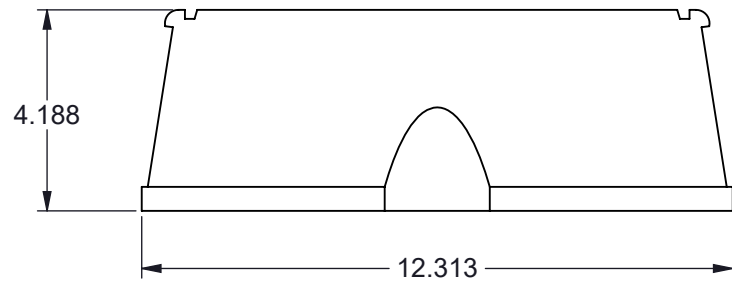
MATERIAL

TSRB-A

RUBBER



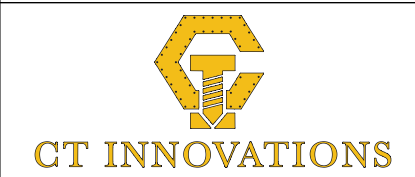
ISOMETRIC VIEW



**NOTES:**

- 1) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.



TITLE:  
**TSRB-A  
13 HOLES ROOFTOP PLATFORM SUPPORT**

DRAWN BY/DATE:  
DL 05FEB2024

SIZE: **B** DWG. NO.: **CTI-S15118** REV: **A**

APPROVED BY/DATE:  
JDG 09FEB2024

SCALE: **NTS** CAD FILE NAME: CBB SHEET: **1 OF 1**  
CAD SAVE DATE: Tuesday, February 27, 2024 3:54:43 PM

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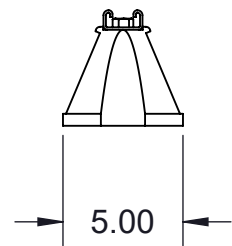
3

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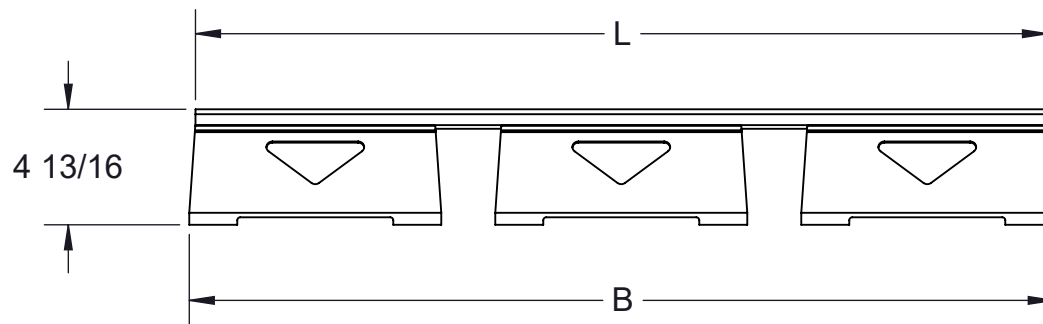
1

PART NO.	L (in)	B (in)
TSRB-B-10-(* )	10.00	10.50
TSRB-B-24-(* )	23.50	24.00
TSRB-B-36-(* )	36.50	36.00
TSRB-B-48-(* )	47.50	48.00

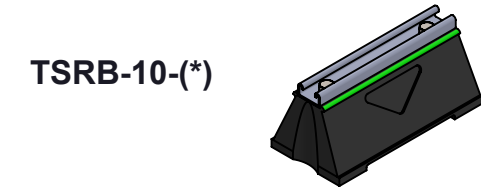
(\* ) INSERT MATERIAL/FINISH:  
 ZN - GALVANIZED  
 HD - HOT DIP



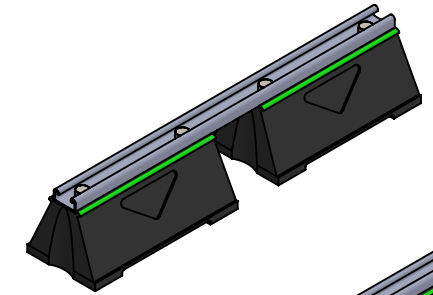
FRONT VIEW



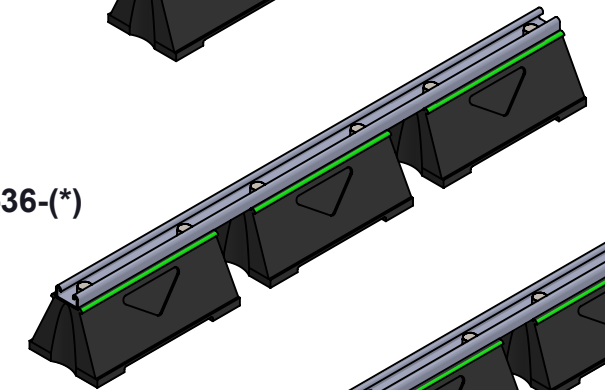
SIDE VIEW



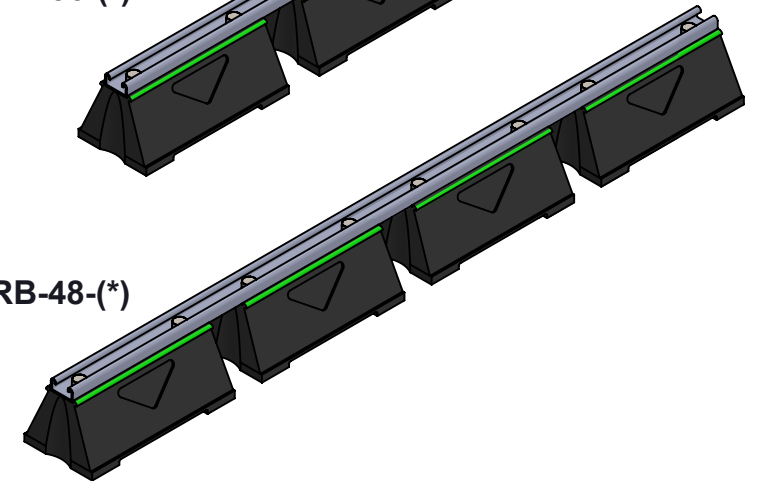
TSRB-10-(\* )



TSRB-24-(\* )




TSRB-36-(\* )



TSRB-48-(\* )

ISOMETRIC VIEW

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TSRB-B-(L)-(* )          BLOCKS ROOFTOP SUPPORT</b>		
	DRAWN BY/DATE: LW 28FEB2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S15996</b>
APPROVED BY/DATE: JDG 29FEB2024	SCALE: <b>NTS</b>	CAD FILE NAME: CBN() CAD SAVE DATE: Wednesday, February 28, 2024 9:46:09 AM	SHEET: <b>1 OF 1</b>

**NOTES:**  
 1) ALL DIMENSIONS SHOWN ARE NOMINAL.  
 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.

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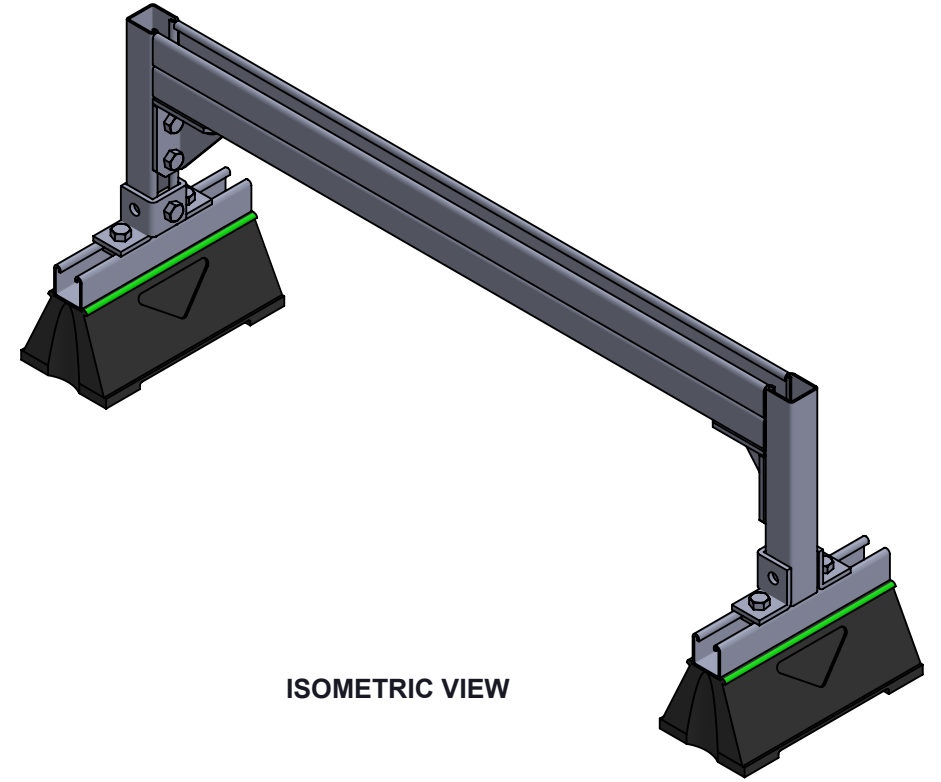
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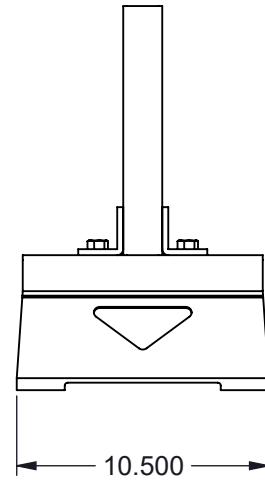
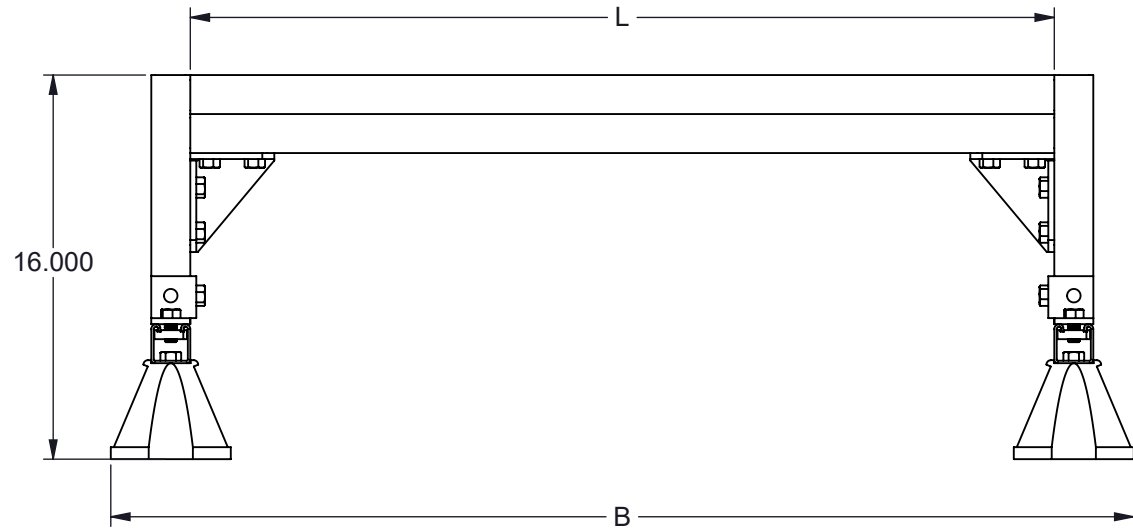
1

PART NUMBER	L (in)	B (in)
TSRB-D-24-(* )	24	30.625
TSRB-D-36-(* )	36	42.625

(\* ) INSERT MATERIAL/FINISH:  
 ZN - GALVANIZED  
 HD - HOT DIP




ISOMETRIC VIEW



**NOTES:**

- 1) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TSRB-D-(L)-(* )          2 BLOCKS HD BRIDGE SUPPORT</b>			
	DRAWN BY/DATE: LW 27FEB2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S15997</b>	REV: <b>A</b>
	APPROVED BY/DATE: JDG 29FEB2024	SCALE: <b>NTS</b>	CAD FILE NAME: TSRB-D_A CAD SAVE DATE: Tuesday, February 27, 2024 9:46:11 AM	SHEET: <b>1 OF 1</b>

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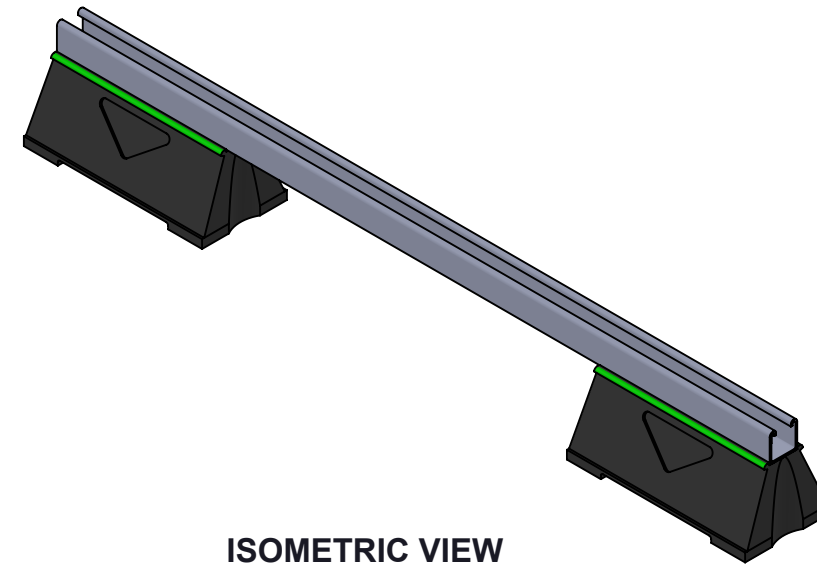
3

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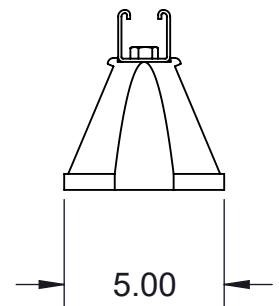
1

PART NUMBER	L (in)
TSRB-C-28-(* )	28
TSRB-C-36-(* )	36
TSRB-C-42-(* )	42
TSRB-C-50-(* )	50
TSRB-C-60-(* )	50

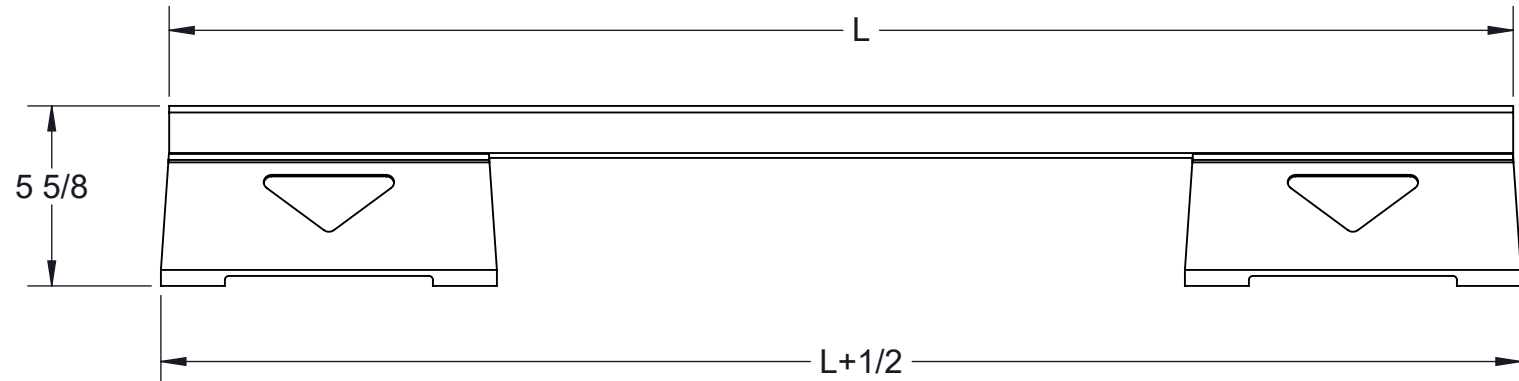
(\*) INSERT MATERIAL/FINISH:  
 ZN - GALVANIZED  
 HD - HOT DIP



ISOMETRIC VIEW




FRONT VIEW



SIDE VIEW

**NOTES:**  
 1) ALL DIMENSIONS SHOWN ARE NOMINAL.  
 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TSRB-C-(L)-(* )          2 BLOCKS BRIDGE SUPPORT</b>			
	DRAWN BY/DATE: LW 27FEB2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S15998</b>	REV: <b>A</b>
	APPROVED BY/DATE: JDG 29FEB2024	SCALE: <b>NTS</b>	CAD FILE NAME: CBN() CAD SAVE DATE: Tuesday, February 27, 2024 9:45:05 AM	SHEET: <b>1 OF 1</b>

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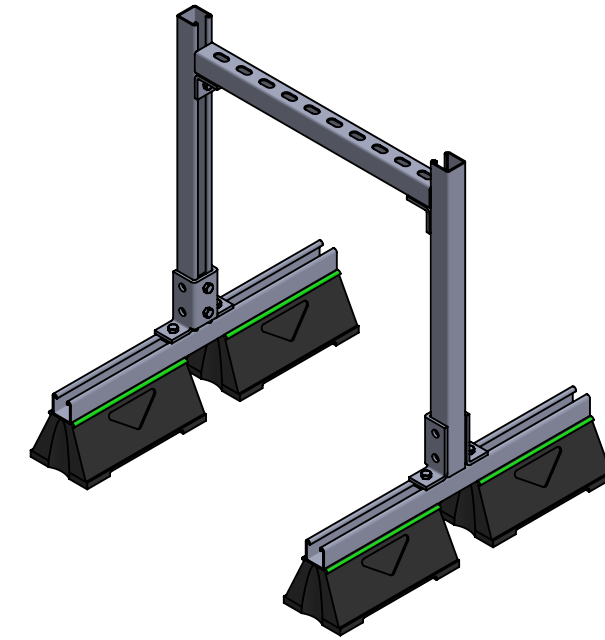
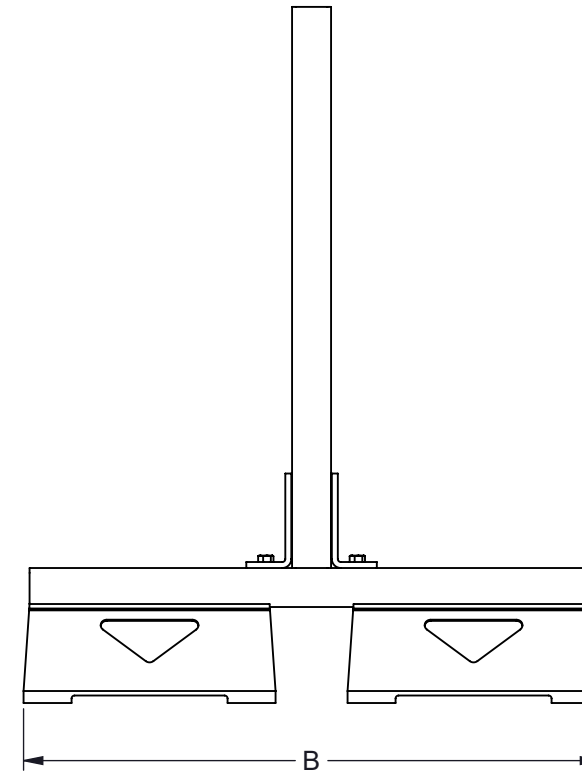
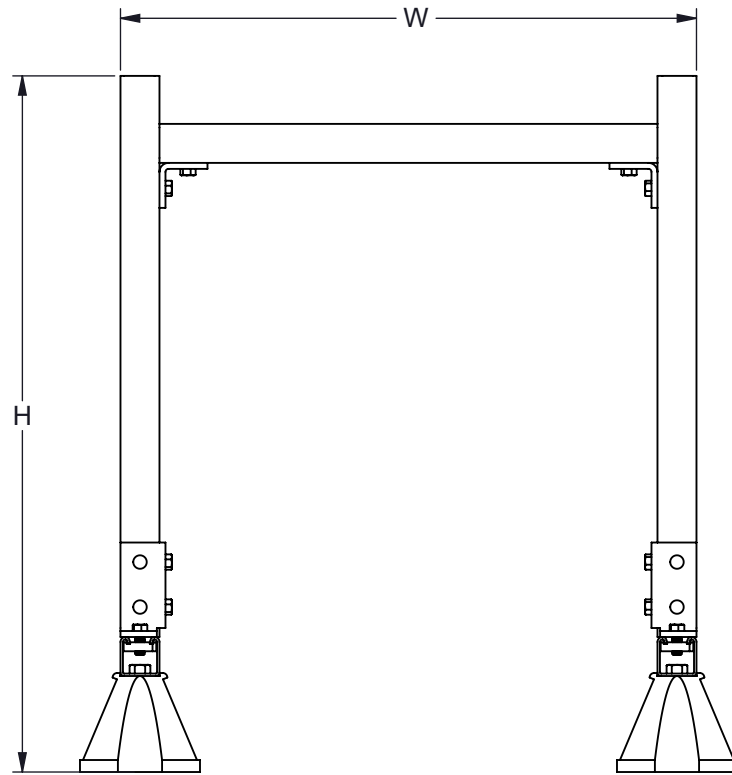
3

2

1

PART NUMBER	H (in)	W (in)	B (in)
TSRB-E-23X18X24-(*)	23	18	24
TSRB-E-23X24X24-(*)	23	24	24
TSRB-E-23X36X24-(*)	23	36	24
TSRB-E-23X48X24-(*)	23	48	24
TSRB-E-29X18X24-(*)	29	18	24
TSRB-E-29X24X24-(*)	29	24	24
TSRB-E-29X36X24-(*)	29	36	24
TSRB-E-29X48X24-(*)	29	48	24
TSRB-E-41X18X24-(*)	41	18	24
TSRB-E-41X24X24-(*)	41	24	24
TSRB-E-41X36X24-(*)	41	36	24
TSRB-E-41X48X24-(*)	41	48	24
TSRB-E-53X18X36-(*)	53	18	36
TSRB-E-53X24X36-(*)	53	24	36
TSRB-E-53X36X36-(*)	53	36	36
TSRB-E-53X48X36-(*)	53	48	36

(\*) INSERT MATERIAL/FINISH:  
 ZN - GALVANIZED  
 HD - HOT DIP




ISOMETRIC VIEW

**NOTES:**

- 1) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>		TITLE:		
		<b>TSRB-E-(H)X(W)X(B)-(*)</b> <b>2 BLOCKS H SUPPORT</b>		
DRAWN BY/DATE:		SIZE:	DWG. NO.:	REV:
LW 29FEB2024		<b>B</b>	<b>CTI-S15999</b>	<b>A</b>
APPROVED BY/DATE:		SCALE:	CAD FILE NAME: TCBN()-DSFW	SHEET:
JDG 29FEB2024		<b>NTS</b>	CAD SAVE DATE: Tuesday, February 27, 2024 9:53:16 AM	<b>1 OF 1</b>

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F

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E

E

D

D

C

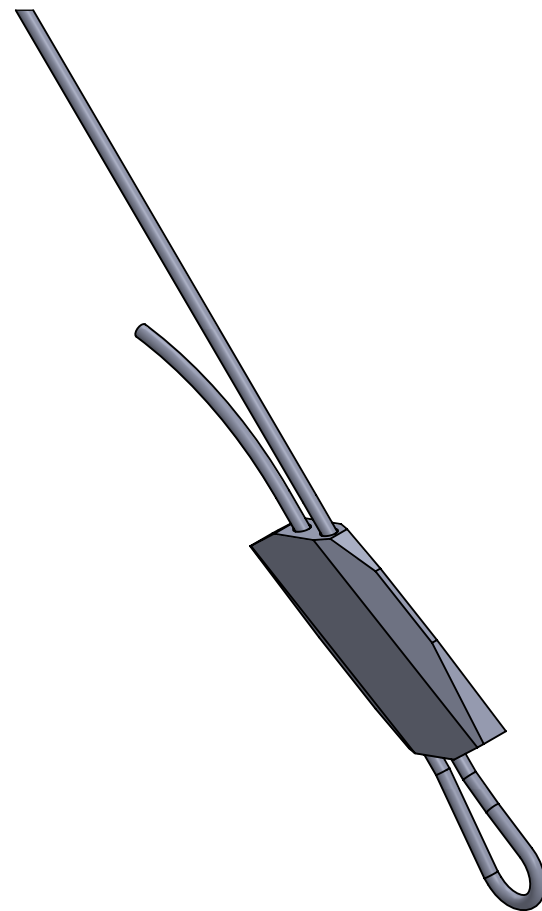
C

B

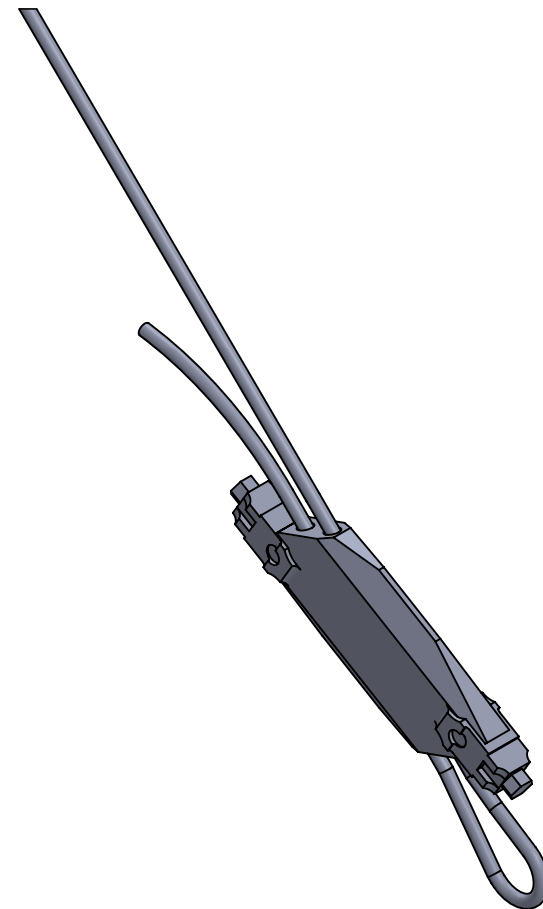
B

A

A



ISOMETRIC VIEW  
TTA-CABLEKIT-4-(L)



ISOMETRIC VIEW  
TTA-CABLEKIT-5-(L)


**TTA - CABLEKIT - 4 - 10**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
CABLEKIT =  
CABLE KIT

SAFE WORKING LENGTH (L)  
LOAD  
4 = 495 LBS  
5 = 715 LBS  
05 = 5FT  
10 = 10FT  
15 = 15FT  
20 = 20FT

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>		TITLE: <b>TOUGHTRAY ACCESSORIES CABLE KITS</b>		
		DRAWN BY/DATE: DL 26APR2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48966</b>
APPROVED BY/DATE:		SCALE: <b>NTS</b>	CAD FILE NAME: TTA-CABLEKIT_A CAD SAVE DATE: Friday, April 26, 2024 5:25:28 PM	SHEET: <b>1 OF 1</b>

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5

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1



ISOMETRIC VIEW

**TTA - SCABLEKIT - 10 - 15**


SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
SCABLEKIT =  
SEISMIC CABLE KIT

SAFE  
WORKING  
LOAD  
10 = 400 LBS  
12 = 945 LBS  
19 = 2265 LBS  
25 = 3570 LBS

LENGTH  
10 = 10FT  
15 = 15FT  
20 = 20FT

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>		TITLE: <b>TOUGHTRAY ACCESSORIES SEISMIC CABLE KITS</b>		
		DRAWN BY/DATE: DL 26APR2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48967</b>
APPROVED BY/DATE:		SCALE: <b>NTS</b>	CAD FILE NAME: TTA-SCABLEKIT_A CAD SAVE DATE: Friday, April 26, 2024 6:08:50 PM	SHEET: <b>1 OF 1</b>

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F

E

D

C

B

A

F

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C

B

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6

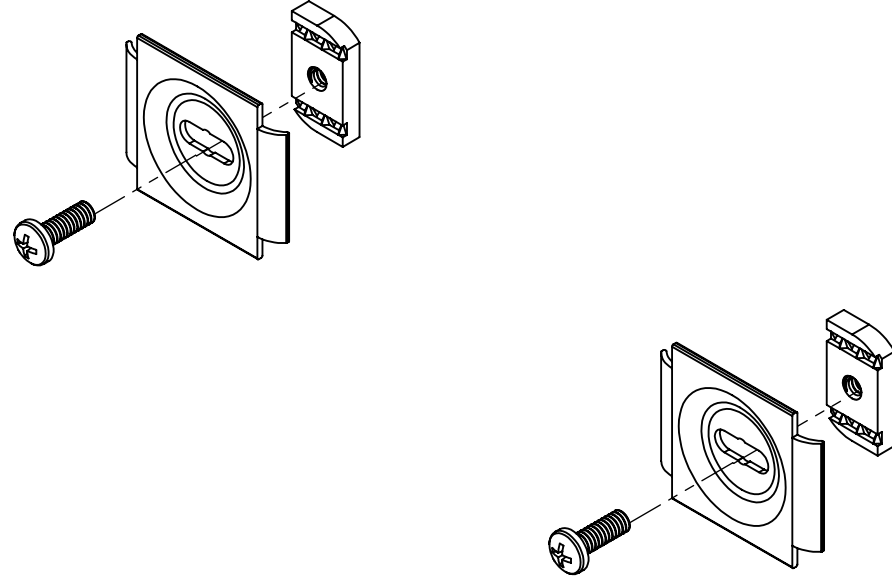
5

4

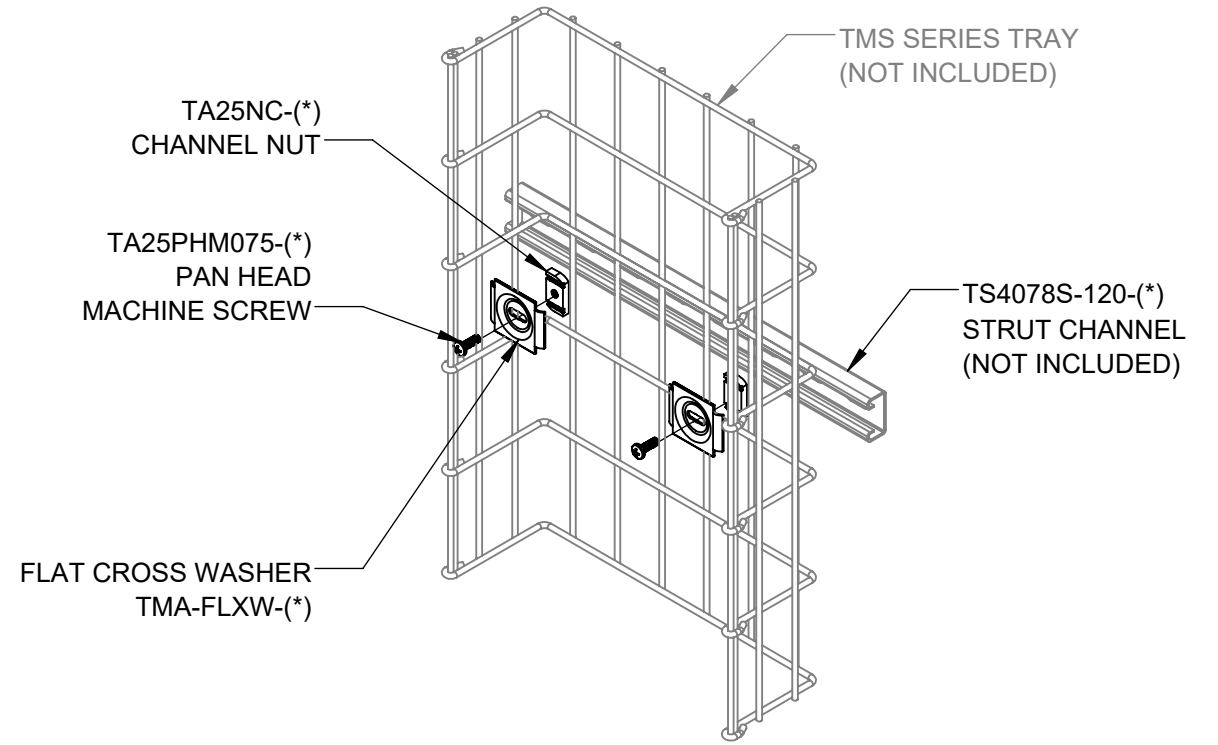
3

2

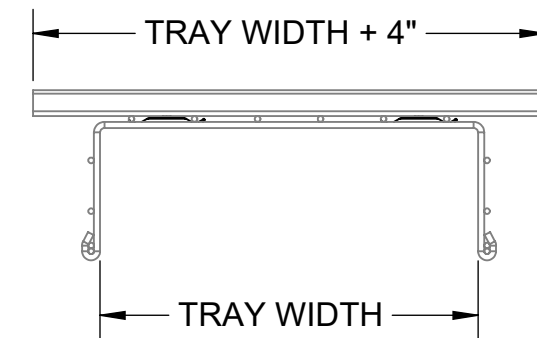
1



ISOMETRIC VIEW



ISO ASSEMBLY VIEW



TOP VIEW

**TMA - WLKIT - EG**

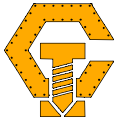
SERIES  
TMA = TOUGHMESH ACCESSORIES

TYPE  
WLKIT = WALL KIT

(\*) MATERIAL/ FINISH  
EG = ELECTROPLATED ZINC  
PT = PAINTED  
HD = HOT-DIPPED GALVANIZED  
S4 = STAINLESS STEEL 304  
S6 = STAINLESS STEEL 316

**NOTE(S):**  
 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.  
 2) ALL DIMENSIONS SHOWN ARE NOMINAL.  
 3) USED TO SECURE BASKET TRAY TO THE SUPPORT.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TOUGHMESH WALL KIT TMA-WLKIT-(* )</b>		
	DRAWN BY/DATE: DL 22FEB2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S37039</b>
APPROVED BY/DATE: JDG 23FEB2024	SCALE: <b>NTS</b>	CAD FILE NAME: CTI-S37039_B CAD SAVE DATE: Thursday, February 22, 2024 3:38:53 PM	SHEET: <b>1 OF 1</b>

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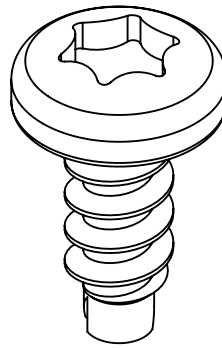
5

4

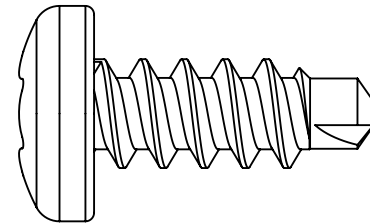
3

2

1



ISO VIEW



SIDE VIEW

**TTA - CVRSCRW - S6**


SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
CVRSCRW =  
TORX HEAD  
SELF-DRILLING  
SCREW

MATERIAL  
S6 =  
STAINLESS  
STEEL 316

**PATENT PENDING**

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TORX HEAD SELF-DRILLING SCREW</b>			
	DRAWN BY/DATE: LW 25MAR2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48988</b>	REV: <b>B</b>
	APPROVED BY/DATE: JDG 19OCT2023	SCALE: <b>NTS</b>	CAD FILE NAME: Straight Cover Screw Assy CAD SAVE DATE: Tuesday, March 26, 2024 8:50:03 AM	SHEET: <b>1 OF 1</b>

**NOTES:**

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.

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C

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E

E

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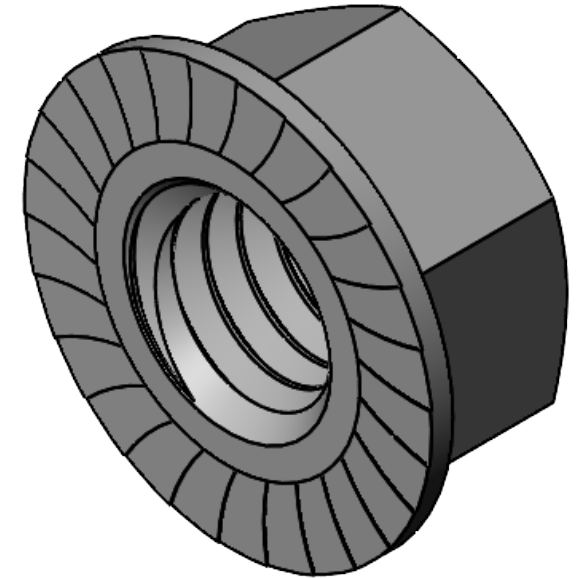
3

2

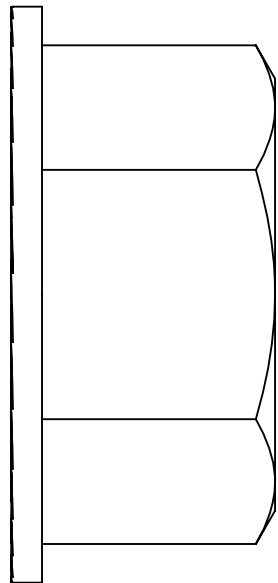
1

PART NO.	DESCRIPTION
TA25FNHX-(* )	1/4-20 SERRATED FLANGE HEX NUT
TA38FNHX-(* )	1/2-13 SERRATED FLANGE HEX NUT

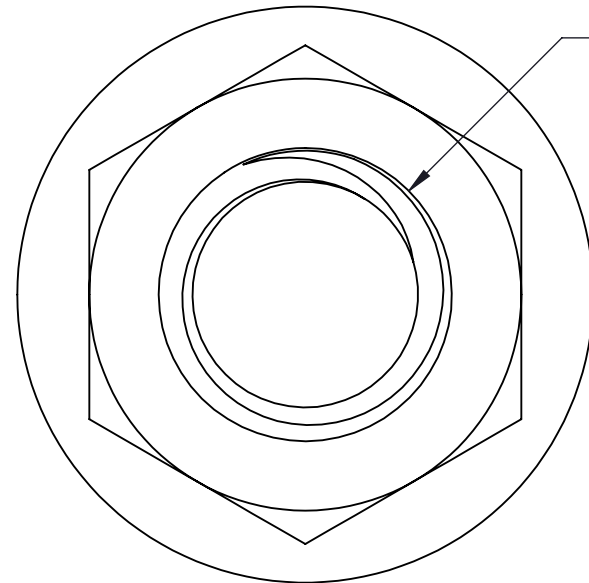
(\* ) INSERT MATERIAL/FINISH:  
 GLV - GALVANIZED STEEL  
 S6 - STAINLESS STEEL 316



ISOMETRIC VIEW




SIDE VIEW



3/8-16 UNC-2B

TOP VIEW

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TAXXFNHX-(* )          SERRATED FLANGE HEX NUT</b>			
	DRAWN BY/DATE: DL 11DEC2023	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48972</b>	REV: <b>A</b>
	APPROVED BY/DATE: JDG 15DEC2023	SCALE: <b>NTS</b>	CAD FILE NAME: TA38FNHX CAD SAVE DATE: Monday, December 11, 2023 11:49:43 PM	SHEET: <b>1 OF 1</b>

NOTES:  
 1) PART MAY VISUALLY DIFFER FROM DRAWING BUT REQUIREMENTS SHOWN ARE MANDATORY

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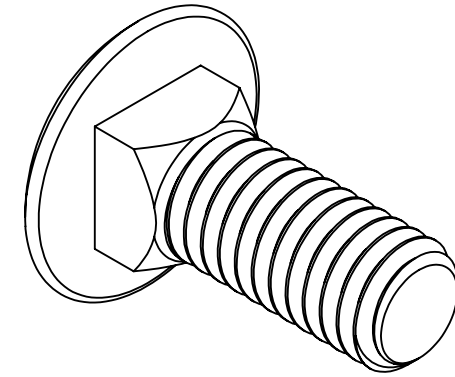
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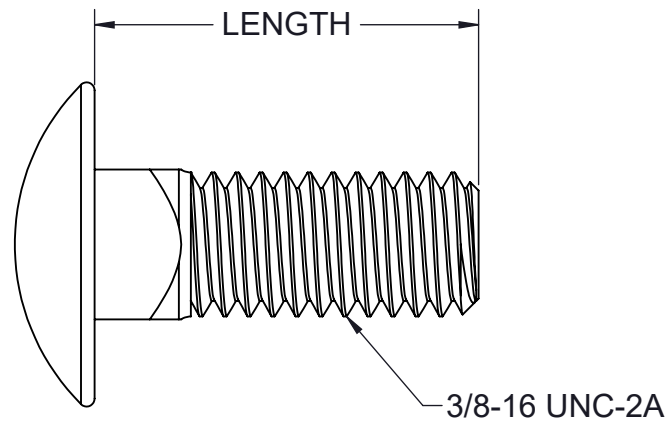
1

PART NO.	LENGTH (in)
TA38SNCB450-(* )	4.50
TA38SNCB300-(* )	3.00
TA38SNCB100-(* )	1.00

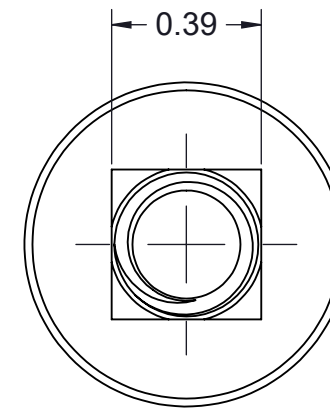
(\* ) INSERT MATERIAL/FINISH:  
 GLV - GALVANIZED STEEL  
 S6 - STAINLESS STEEL 316



ISOMETRIC VIEW



SIDE VIEW




FRONT VIEW

**NOTES:**

- 1) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 3) SOLD IN BAGS OF 20. BOX QTY: 100 (5BAGS OF 20).

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>		TITLE:		
		<b>TA38SNCBXXX-(* )</b> <b>3/8 SQUARE NECK CARRIAGE BOLT</b>		
DRAWN BY/DATE:		SIZE:	DWG. NO.:	REV:
DL 11DEC2023		<b>B</b>	<b>CTI-S48973</b>	<b>A</b>
APPROVED BY/DATE:		SCALE:	CAD FILE NAME: TA38SNCB100	SHEET:
JDG 15DEC2023		<b>NTS</b>	CAD SAVE DATE: Monday, December 11, 2023 11:19:24 PM	<b>1 OF 1</b>

6

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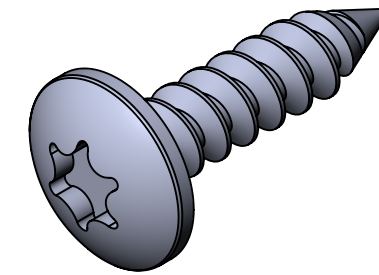
3

2

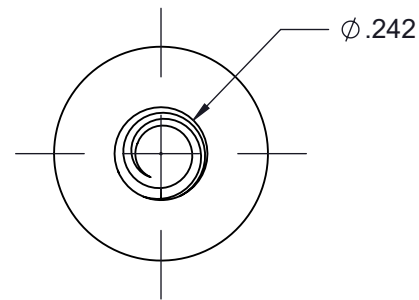
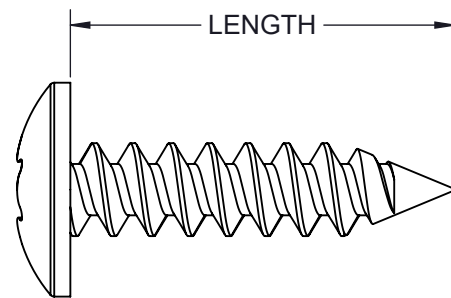
1

PART NO.	LENGTH (in)
TA25THS075-(*)	0.75
TA25THS100-(*)	1.00

(\*) INSERT MATERIAL/FINISH:  
S6 - STAINLESS STEEL 316




ISOMETRIC VIEW



**NOTES:**

- 1) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 3) SOLD IN BAGS OF 50.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>		TITLE:		
		<b>TA25THS(L)-(*)</b> <b>1/4 TORX HEAD SELF-DRILLING SCREW</b>		
DRAWN BY/DATE:		SIZE:	DWG. NO.:	REV:
DL 25JUL2024		<b>B</b>	<b>CTI-S14048</b>	<b>C</b>
APPROVED BY/DATE:		SCALE:	CAD FILE NAME:	SHEET:
JDG 28JUN2024		<b>NTS</b>	TA25THS100	<b>1 OF 1</b>
			CAD SAVE DATE: Friday, June 28, 2024 2:08:11 PM	

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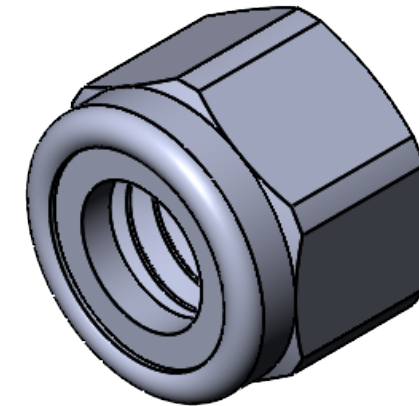
3

2

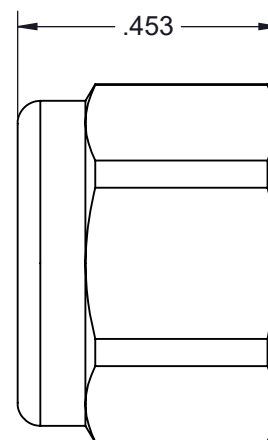
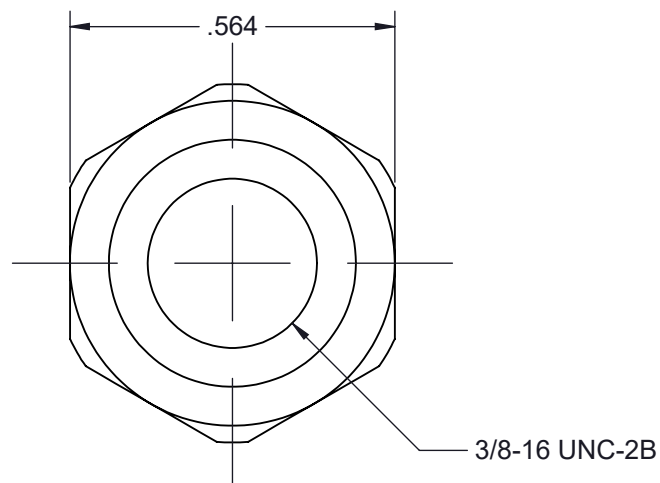
1

PART NO.	DESCRIPTION
TA38NHN-(* )	3/8-16 NYLON HEX NUT

(\* ) INSERT MATERIAL/FINISH:  
 ZN - GALVANIZED STEEL  
 S6 - STAINLESS STEEL 316  
 S4 - STAINLESS STEEL 304



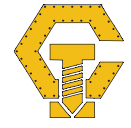
ISOMETRIC VIEW



**NOTES:**

- 1) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 3) SOLD IN BAGS OF 20. BOX QTY: 100 (5 BAGS OF 20).

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <p style="text-align: center;"><b>TA38NHN-(* ) 3/8-16 NYLON HEX NUT</b></p>		
	DRAWN BY/DATE: DL 22FEB2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S14054</b>
APPROVED BY/DATE: JDG 23FEB2024	SCALE: <b>NTS</b>	CAD FILE NAME: TA38NHN_A CAD SAVE DATE: Thursday, February 22, 2024 1:46:27 PM	SHEET: <b>1 OF 1</b>

6

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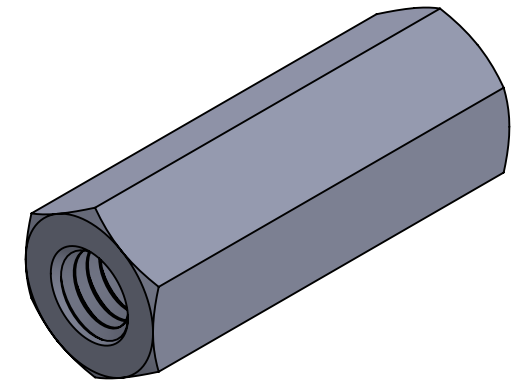
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2

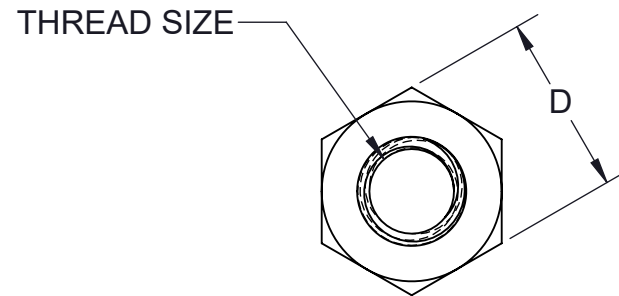
1

PART NO.	THREAD SIZE	D (in)	L (in)
TA25CP-(*)	1/4-20 UNC-2B	0.50	0.88
TA38CP-(*)	3/8-16 UNC-2B	0.63	1.75
TA50CP-(*)	1/2-13 UNC-2B	0.75	1.75

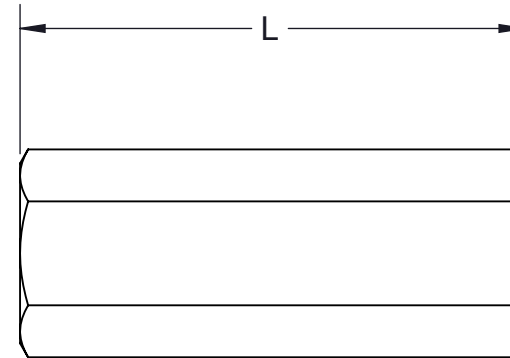
(\*) INSERT MATERIAL/FINISH:  
 ZN - GALVANIZED  
 S6 - STAINLESS STEEL 316  
 S4 - STAINLESS STEEL 304



ISOMETRIC VIEW



SECTION VIEW




SIDE VIEW

**NOTES:**

- 1) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 3) SOLD IN BAGS OF 20. BOX QTY: 100 (5 BAGS OF 20).

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>		TITLE:		
		<b>TA(Ø)CP-(*) COUPLING</b>		
DRAWN BY/DATE: LW 19JUL2024		SIZE: <b>B</b>	DWG. NO.: <b>CTI-S14994</b>	REV: <b>A</b>
APPROVED BY/DATE: JDG 19JUL2024		SCALE: <b>NTS</b>	CAD FILE NAME: TA38CP_A CAD SAVE DATE: Friday, July 19, 2024 6:56:05 PM	SHEET: <b>1 OF 1</b>

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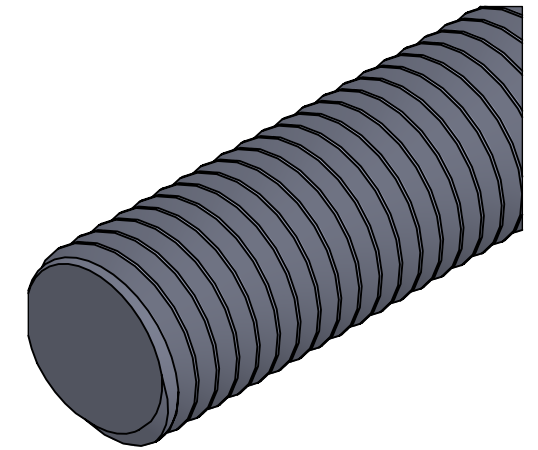
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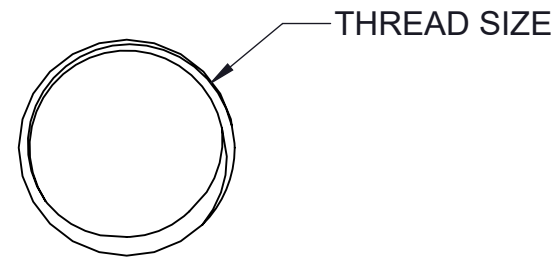
1

PART NO.	THREAD SIZE	LENGTH (ft)
TA25X144-ATR-(* )	1/4-20 UNC-2A	12
TA38X144-ATR-(* )	3/8-16 UNC-2A	12
TA50X144-ATR-(* )	1/2-13 UNC-2A	12

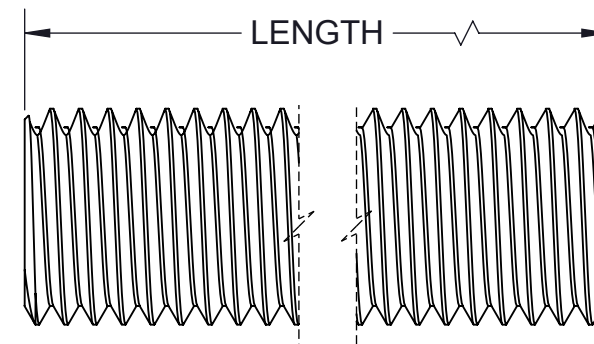
(\* ) INSERT MATERIAL/FINISH:  
 ZN - GALVANIZED  
 S6 - STAINLESS STEEL 316  
 S4 - STAINLESS STEEL 304



ISOMETRIC VIEW




SECTION VIEW



SIDE VIEW

- NOTES:**
- 1) ALL DIMENSIONS SHOWN ARE NOMINAL.
  - 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
  - 3) SOLD PER PIECE.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>		TITLE:		
		<b>TA(Ø)X144-ATR-(* )        ALL THREADED ROD</b>		
DRAWN BY/DATE:		SIZE:	DWG. NO.:	REV:
LW 19JUL2024		<b>B</b>	<b>CTI-S14995</b>	<b>A</b>
APPROVED BY/DATE:		SCALE:	CAD FILE NAME: TA38X120-ATR_A	SHEET:
JDG 19JUL2024		<b>NTS</b>	CAD SAVE DATE: Friday, July 19, 2024 6:23:43 PM	<b>1 OF 1</b>

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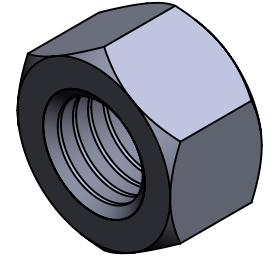
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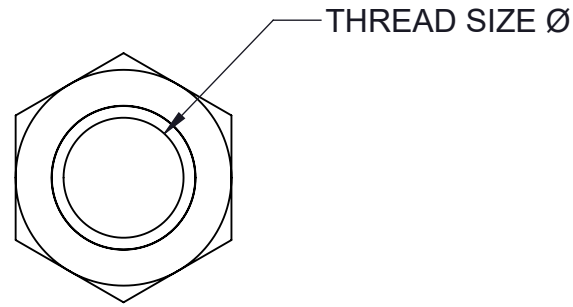
1

PART NO.	THREAD SIZE Ø (in)
TA25HN-(* )	1/4-20
TA38HN-(* )	3/8-16
TA50HN-(* )	1/2-13

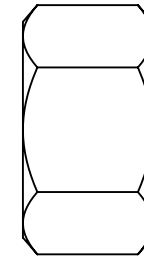
(\* ) INSERT MATERIAL/FINISH:  
 ZN - GALVANIZED  
 S6 - STAINLESS STEEL 316  
 S4 - STAINLESS STEEL 304



ISOMETRIC VIEW



TOP VIEW




SIDE VIEW

**NOTES:**

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PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TA(Ø)HN-(* ) HEX NUT</b>		
	DRAWN BY/DATE: LW 27FEB2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S14996</b>
	APPROVED BY/DATE: JDG 29FEB2024	SCALE: <b>NTS</b>	REV: <b>A</b> SHEET: <b>1 OF 1</b>

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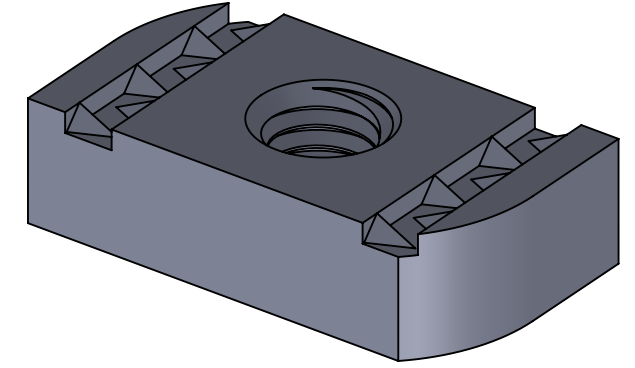
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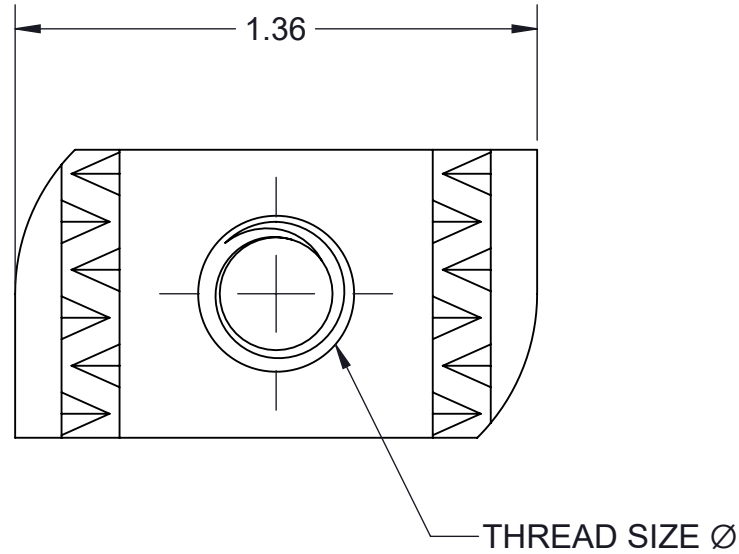
1

PART NO.	THREAD SIZE Ø (in)	T (in)
TA25NCM-(* )	1/4-20	0.15
TA25NC-(* )	1/4-20	0.25
TA38NC-(* )	3/8-16	0.38
TA50NC-(* )	1/2-13	0.38

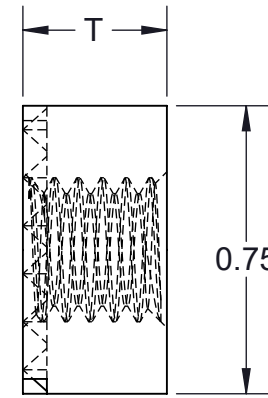
(\*) INSERT MATERIAL/FINISH:  
 ZN - GALVANIZED  
 S6 - STAINLESS STEEL 316  
 S4 - STAINLESS STEEL 304



ISOMETRIC VIEW




TOP VIEW



SIDE VIEW

- NOTES:  
 1) ALL DIMENSIONS SHOWN ARE NOMINAL.  
 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.  
 3) SOLD IN BAGS OF 20. BOX QTY: 100 (5 BAGS OF 20).

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>		TITLE:	
		<b>TA(Ø)NC-(* ) CHANNEL NUT</b>	
DRAWN BY/DATE: LW 27FEB2024		SIZE: <b>B</b>	DWG. NO.: <b>CTI-S14997</b>
APPROVED BY/DATE: JDG 29FEB2024		SCALE: <b>NTS</b>	REV: <b>A</b>
		CAD FILE NAME: TA38NC_A CAD SAVE DATE: Tuesday, February 27, 2024 10:37:00 AM	SHEET: <b>1 OF 1</b>

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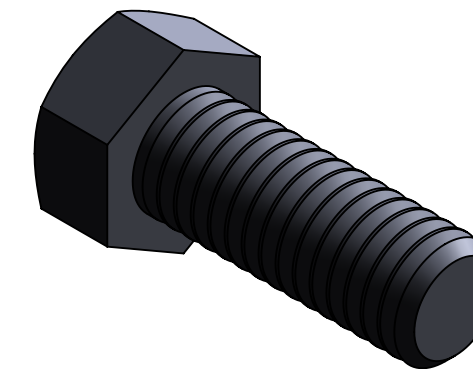
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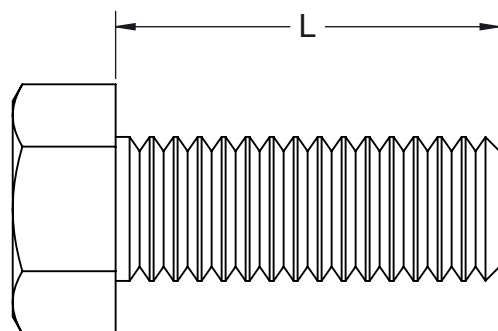
1

PART NO.	L (in)	THREAD SIZE Ø (in)	A (in)
TA25HX050-(* )	0.50	1/4-20	0.44
TA25HX075-(* )	0.75	1/4-20	0.44
TA25HX100-(* )	1.00	1/4-20	0.44
TA38HX100-(* )	1.00	3/8-16	0.56
TA38HX150-(* )	1.50	3/8-16	0.56
TA38HX200-(* )	2.00	3/8-16	0.56
TA38HX275-(* )	2.75	3/8-16	0.56
TA50HX125-(* )	1.25	1/2-13	0.75
TA50HX150-(* )	1.50	1/2-13	0.75
TA50HX200-(* )	2.00	1/2-13	0.75

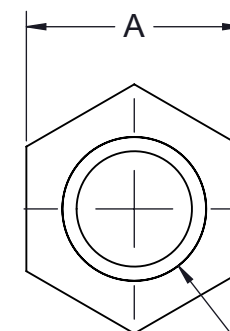


ISOMETRIC VIEW

(\* ) INSERT MATERIAL/FINISH:  
 ZN - GALVANIZED  
 S6 - STAINLESS STEEL 316  
 S4 - STAINLESS STEEL 304



SIDE VIEW




THREAD SIZE Ø

FRONT VIEW

**NOTES:**

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 <b>CT INNOVATIONS</b>		TITLE:		
		<b>TA(Ø)HX(L)-(* ) HEX HEAD CAP SCREW</b>		
DRAWN BY/DATE: LW 27FEB2024		SIZE: <b>B</b>	DWG. NO.: <b>CTI-S14998</b>	REV: <b>B</b>
APPROVED BY/DATE: JDG 29FEB2024		SCALE: <b>NTS</b>	CAD FILE NAME: TA38HX100_A CAD SAVE DATE: Thursday, February 29, 2024 11:15:35 AM	SHEET: <b>1 OF 1</b>

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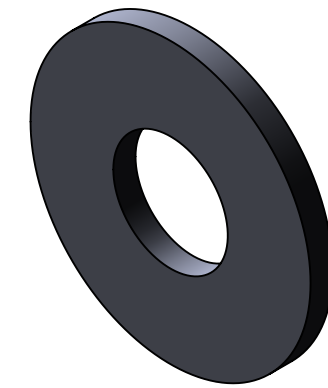
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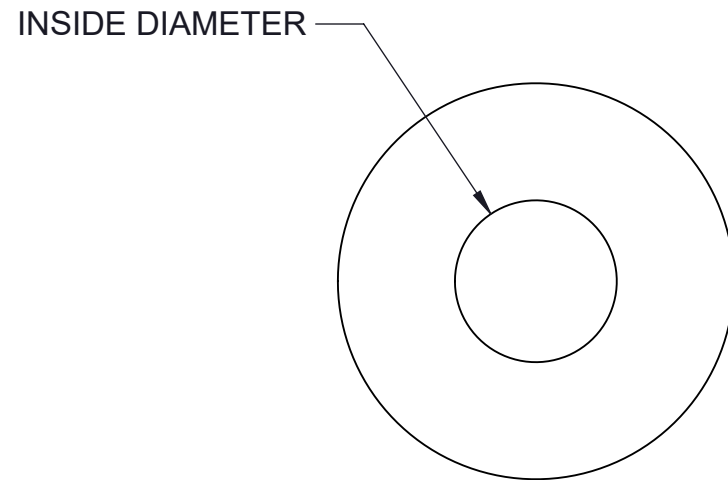
1

PART NO.	INSIDE DIAMETER
TA25W-(* )	0.31
TA38W-(* )	0.44
TA50W-(* )	0.56

(\* ) INSERT MATERIAL/FINISH:  
 ZN - GALVANIZED  
 S6 - STAINLESS STEEL 316  
 S4 - STAINLESS STEEL 304



ISOMETRIC VIEW



TOP VIEW




SECTION VIEW

**NOTES:**

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 <b>CT INNOVATIONS</b>	TITLE: <b>TA(X)W-(* )          FLAT WASHER</b>		
	DRAWN BY/DATE: LW 27FEB2024	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S14999</b>
APPROVED BY/DATE: JDG 29FEB2024	SCALE: <b>NTS</b>	CAD FILE NAME: TA50W_A CAD SAVE DATE: Tuesday, February 27, 2024 10:09:35 AM	SHEET: <b>1 OF 1</b>

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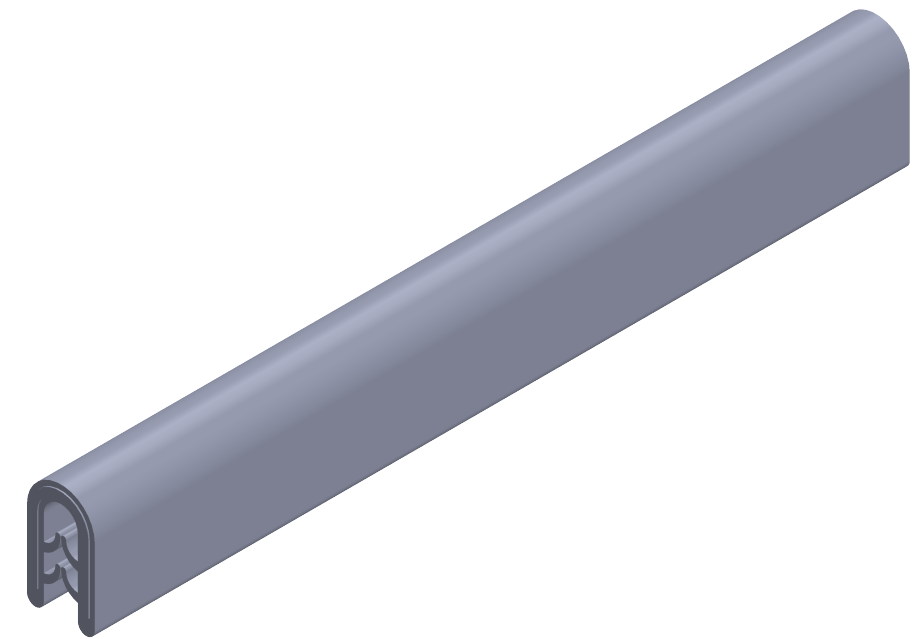
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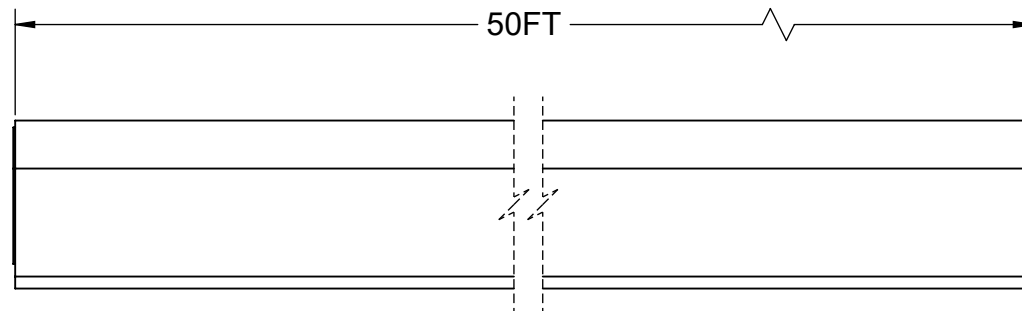
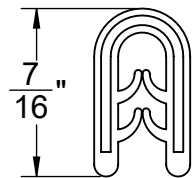
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ISOMETRIC VIEW



**NOTES:**

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- 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>		<b>TITLE:</b> <b>TTA-EDGE TOUGHTRAY ACCESSORY EDGE PROTECTION KIT</b>	
<b>DRAWN BY/DATE:</b> DL 19JUL2024	<b>SIZE:</b> <b>B</b>	<b>DWG. NO.:</b> <b>CTI-S48281</b>	<b>REV:</b> <b>A</b>
<b>APPROVED BY/DATE:</b> JDG 19JUL2024	<b>SCALE:</b> <b>NTS</b>	<small>CAD FILE NAME: TTA-BSPLICE_A</small> <small>CAD SAVE DATE: Friday, July 19, 2024 6:46:12 PM</small>	<b>SHEET:</b> <b>1 OF 1</b>

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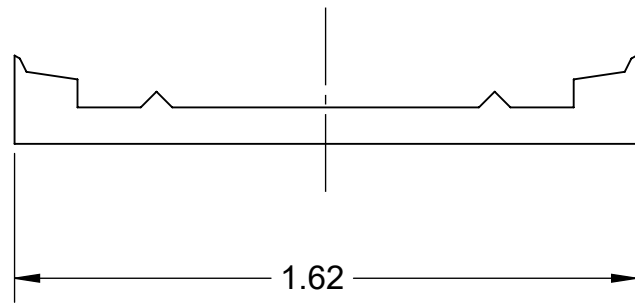
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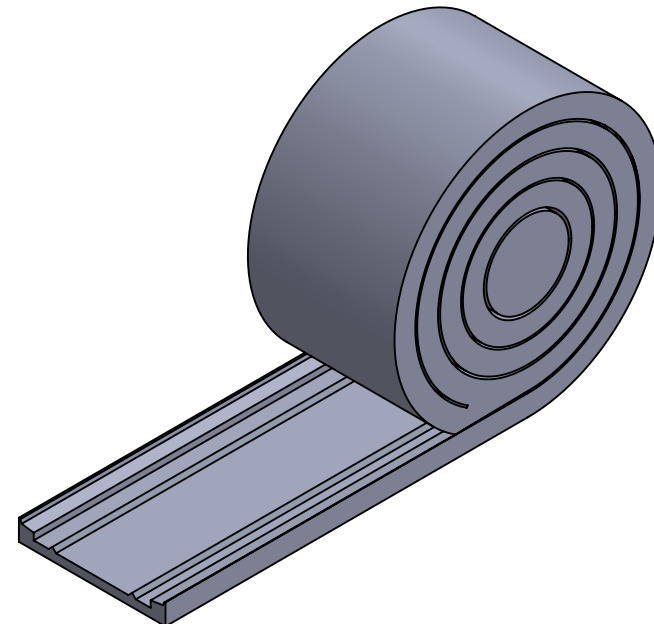
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SECTION VIEW



ISOMETRIC VIEW


**TTA - ISOLATOR**

SERIES  
TTA = TOUGHTray  
ACCESSORIES

TYPE  
ISOLATOR =  
NEOPRENE ROLL  
ISOLATOR

**PATENT PENDING**

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

 <b>CT INNOVATIONS</b>	TITLE: <b>TTA-ISOLATOR TTA NEOPRENE ROLL</b>			
	DRAWN BY/DATE: VA 14NOV2023	SIZE: <b>B</b>	DWG. NO.: <b>CTI-S48148</b>	REV: <b>A</b>
	APPROVED BY/DATE: JDG 15NOV2023	SCALE: <b>NTS</b>	CAD FILE NAME: TTA-ISOLATOR_A CAD SAVE DATE: Tuesday, November 14, 2023 6:07:23 PM	SHEET: <b>1 OF 1</b>

- NOTES:**
- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
  - 2) ALL DIMENSIONS SHOWN ARE NOMINAL.

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