



TOUGHTray

- Submittals -

(Bulk Package)

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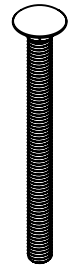
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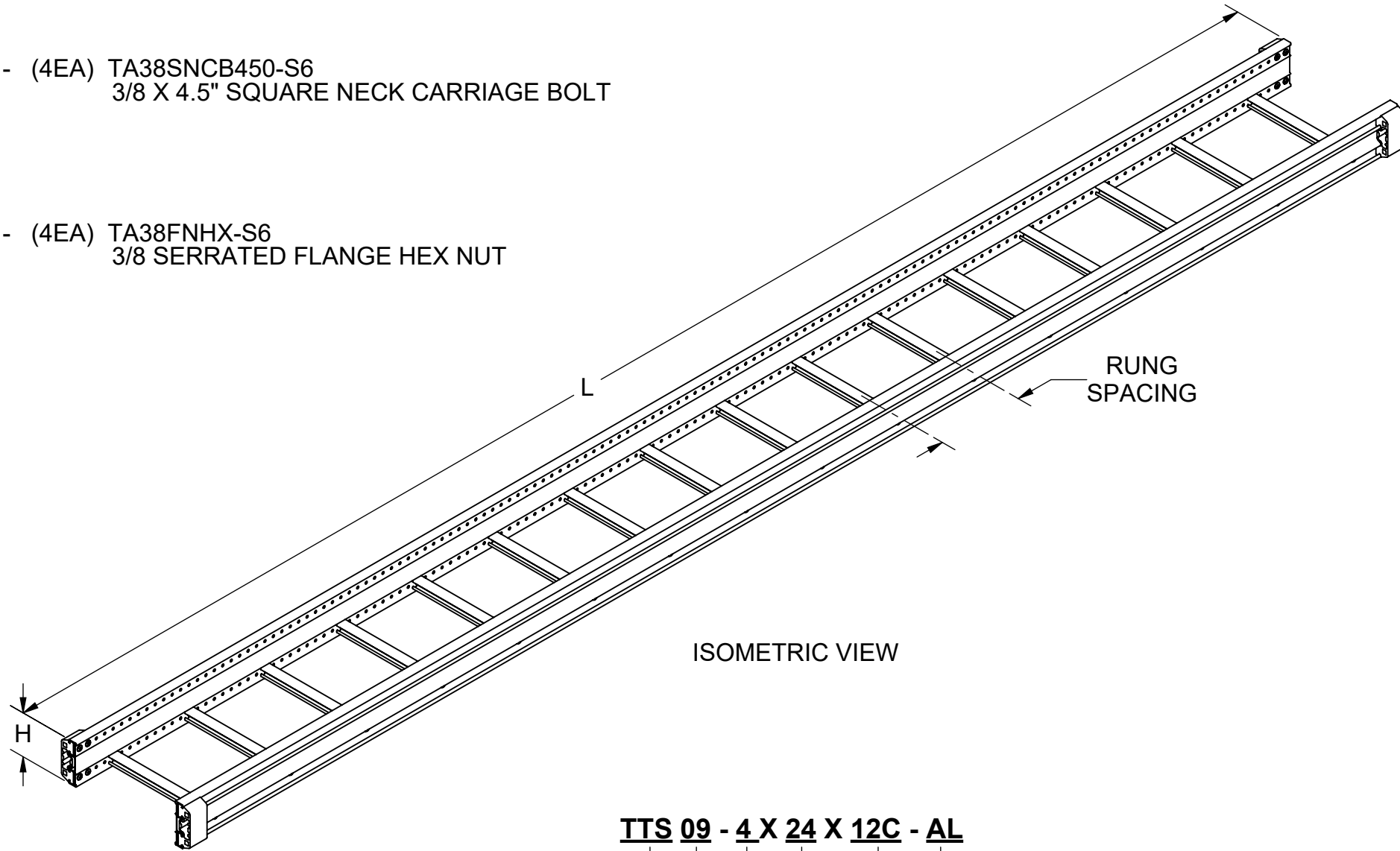
HARDWARE INCLUDED:



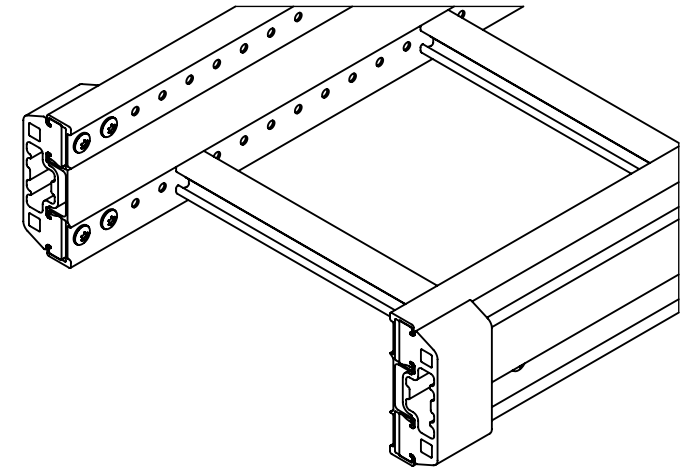
- (4EA) TA38SNCB450-S6
3/8 X 4.5" SQUARE NECK CARRIAGE BOLT



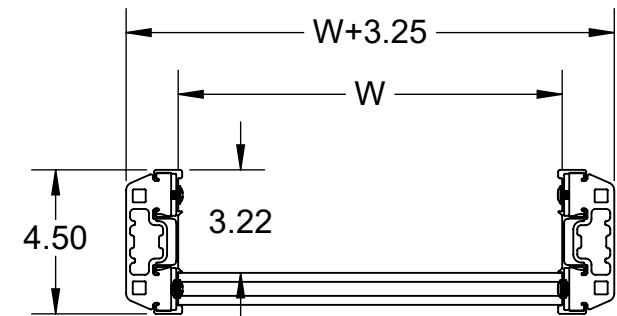
- (4EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT



ISOMETRIC VIEW



ENLARGED VIEW



SECTION VIEW

TTS 09 - 4 X 24 X 12C - AL

SERIES
TTS = TOUGHTray
STRAIGHT SECTION

RUNG
SPACING
06 = 6"
09 = 9"
12 = 12"

NOMINAL
HEIGHT (H)
4 = 4"

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

NOMINAL
LENGTH (L)
12A = 144"
12B = 144"
12C = 144"


MATERIAL
AL = ALUMINUM

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED W/ PRE-INSTALLED LINKS COMPLETE W/ HARDWARE.
- 4) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

 CT INNOVATIONS		TITLE: 4in HEIGHT 12ft LENGTH TTS SERIES STRAIGHT SECTION		
		DRAWN BY/DATE: LW 17AUG2023	SIZE: B	DWG. NO.: CTI-S41999
APPROVED BY/DATE: JDG 28APR2023		SCALE: NTS	CAD FILE NAME: TTS09-(H)(W)(L)-AL_A CAD SAVE DATE: Thursday, November 9, 2023 4:28:41 PM	SHEET: 1 OF 1

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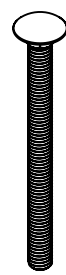
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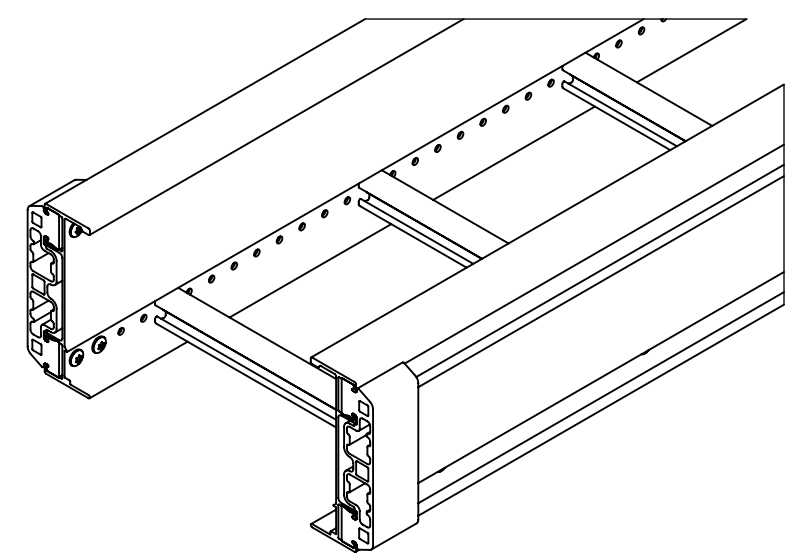
HARDWARE INCLUDED:



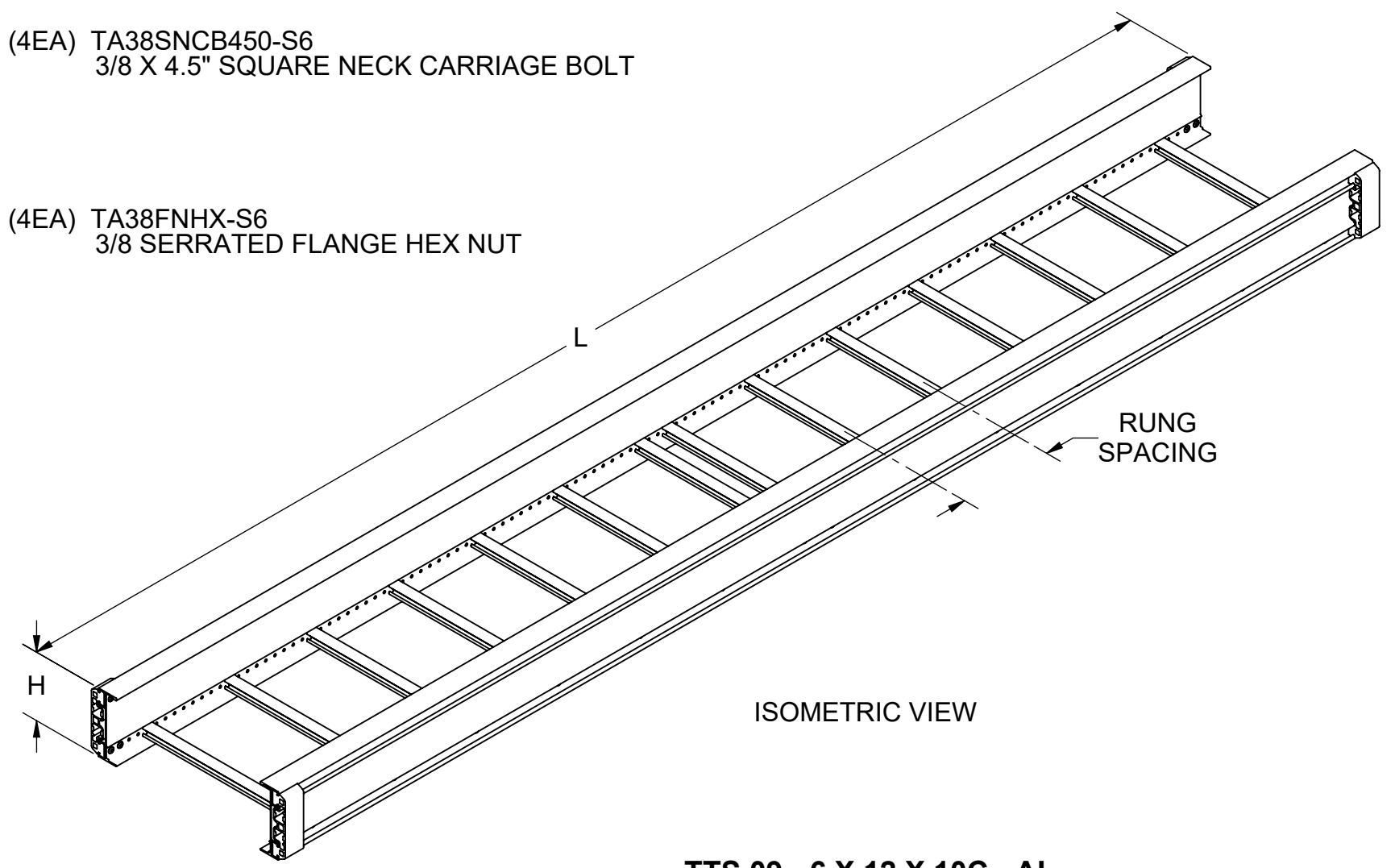
- (4EA) TA38SNCB450-S6
3/8 X 4.5" SQUARE NECK CARRIAGE BOLT



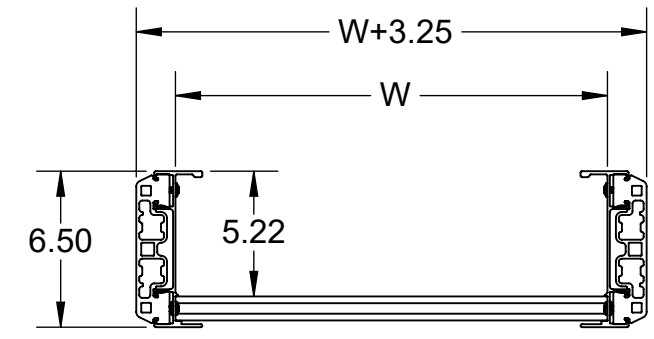
- (4EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT



ENLARGED VIEW



ISOMETRIC VIEW



SECTION VIEW

TTS 09 - 6 X 12 X 10C - AL

SERIES TTS = TOUGHTray STRAIGHT SECTION	RUNG SPACING 06 = 6" 09 = 9" 12 = 12"	NOMINAL HEIGHT (H) 6 = 6"	NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"	NOMINAL LENGTH (L) 10B = 120" 10C = 120" 10C+ = 120"	MATERIAL AL = ALUMINUM
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PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED W/ PRE-INSTALLED LINKS COMPLETE W/ HARDWARE.
- 4) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

<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: 6in HEIGHT 10ft LENGTH TTS SERIES STRAIGHT SECTION	
<small>DRAWN BY/DATE:</small> LW 09NOV2023	<small>SIZE:</small> B	<small>DWG. NO.:</small> CTI-S41991	<small>REV.:</small> B
<small>APPROVED BY/DATE:</small> JDG 17AUG2023	<small>SCALE:</small> NTS	<small>CAD FILE NAME:</small> TTS09-(H)(W)(L)-AL_A <small>CAD SAVE DATE:</small> Thursday, November 9, 2023 5:08:30 PM	<small>SHEET:</small> 1 OF 1

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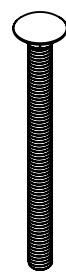
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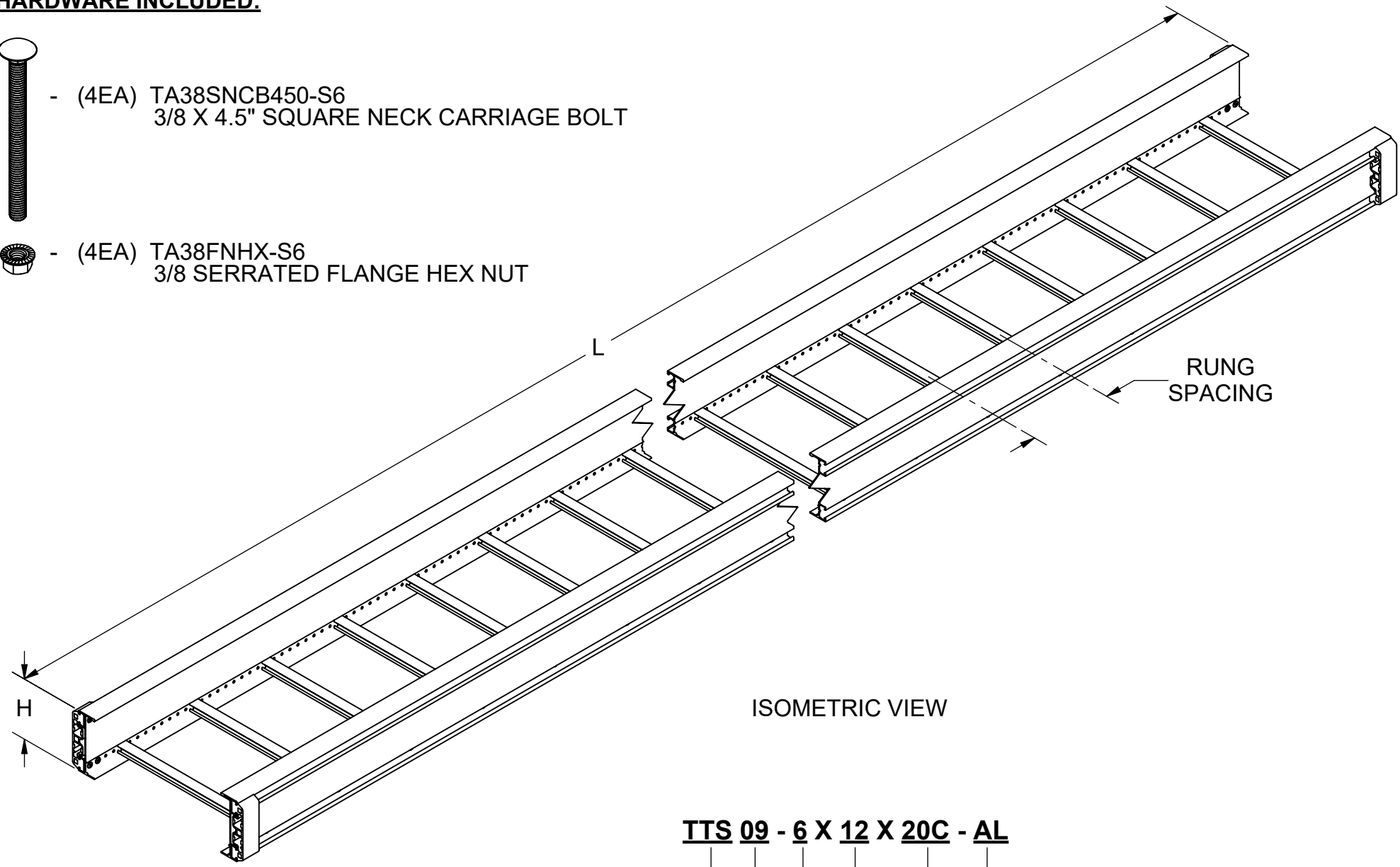
HARDWARE INCLUDED:



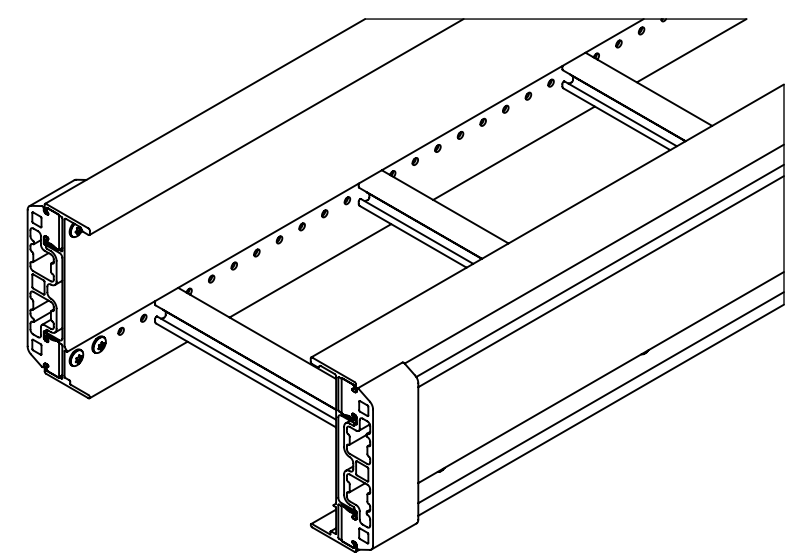
- (4EA) TA38SNCB450-S6
3/8 X 4.5" SQUARE NECK CARRIAGE BOLT



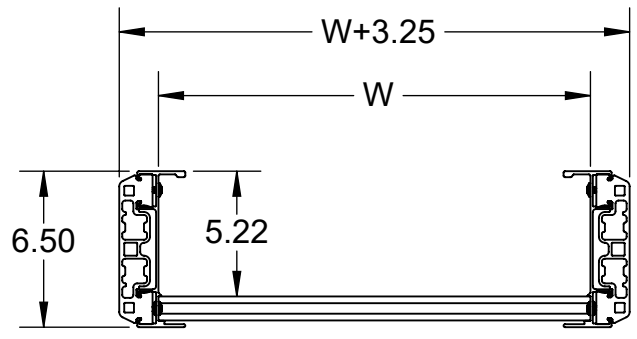
- (4EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT



ISOMETRIC VIEW



ENLARGED VIEW



SECTION VIEW

TTS 09 - 6 X 12 X 20C - AL

SERIES
TTS = TOUGHTray
STRAIGHT SECTION

RUNG
SPACING
06 = 6"
09 = 9"
12 = 12"

NOMINAL
HEIGHT (H)
6 = 6"

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

NOMINAL
LENGTH (L)
20B = 240"
20C = 240"
20C+ = 240"


MATERIAL
AL = ALUMINUM

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED W/ PRE-INSTALLED LINKS COMPLETE W/ HARDWARE.
- 4) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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:	
		6in HEIGHT 20ft LENGTH TTS SERIES STRAIGHT SECTION	
DRAWN BY/DATE: LW 17AUG2023		SIZE: B	DWG. NO.: CTI-S41998
APPROVED BY/DATE: JDG 17AUG2023		SCALE: NTS	REV: B
		CAD FILE NAME: TTS09-(H)(W)(L)-AL_A CAD SAVE DATE: Thursday, November 9, 2023 4:23:30 PM	SHEET: 1 OF 1

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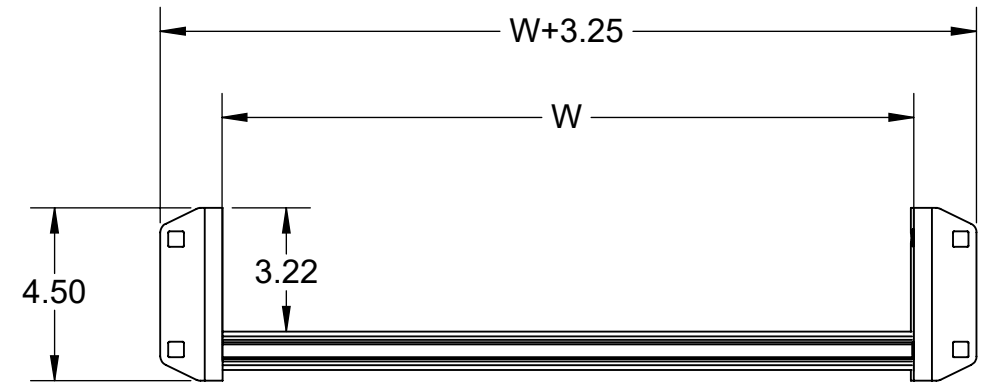
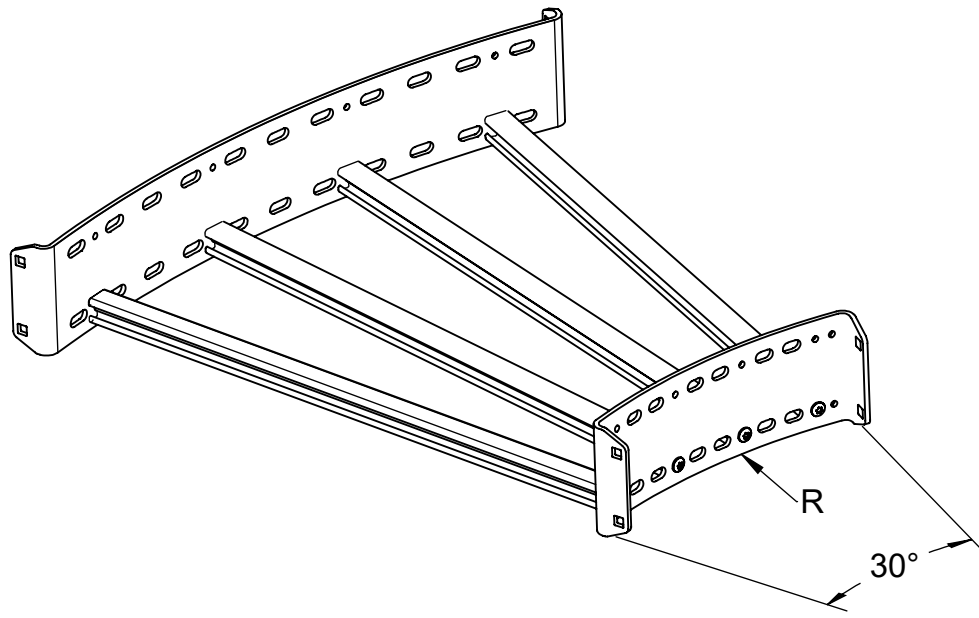
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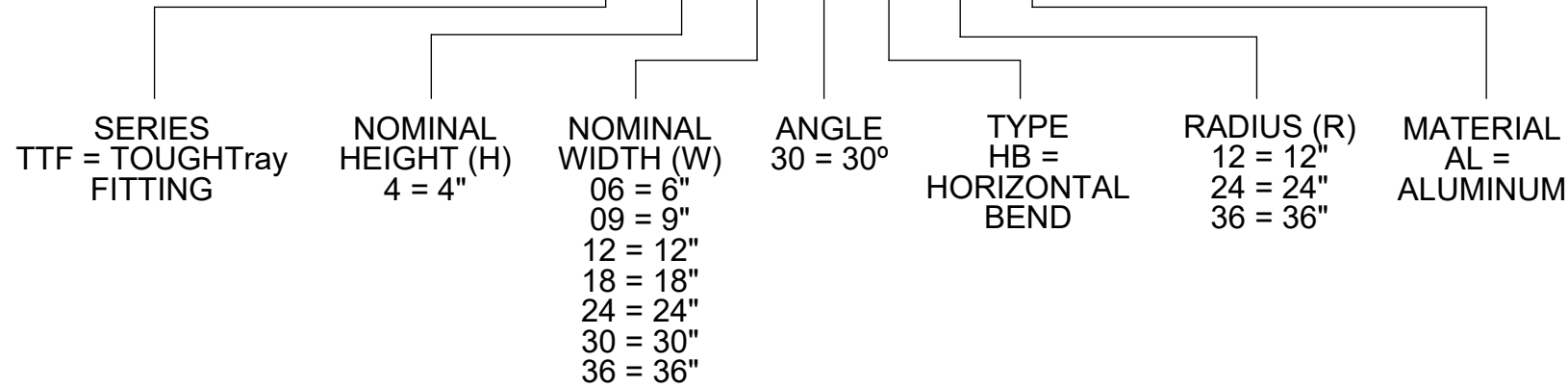
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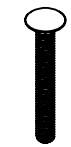



SECTION VIEW

TTF - 4 X 06 - 30 HB 12 - AL




HARDWARE INCLUDED:

-  - (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT
-  - (8EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
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- 3) SUPPLIED W/ PRE-INSTALLED LINKS COMPLETE W/ HARDWARE.
- 4) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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 CT INNOVATIONS		TITLE: 4" HEIGHT TTF SERIES 30° HORIZONTAL BEND	
DRAWN BY/DATE: VA 18AUG2023	SIZE: B	DWG. NO.: CTI-S46996	REV: B
APPROVED BY/DATE: JDG 28APR2023	SCALE: NTS	<small>CAD FILE NAME: 30deg HB 24R CAD SAVE DATE: Tuesday, August 22, 2023 5:37:08 PM</small>	SHEET: 1 OF 1

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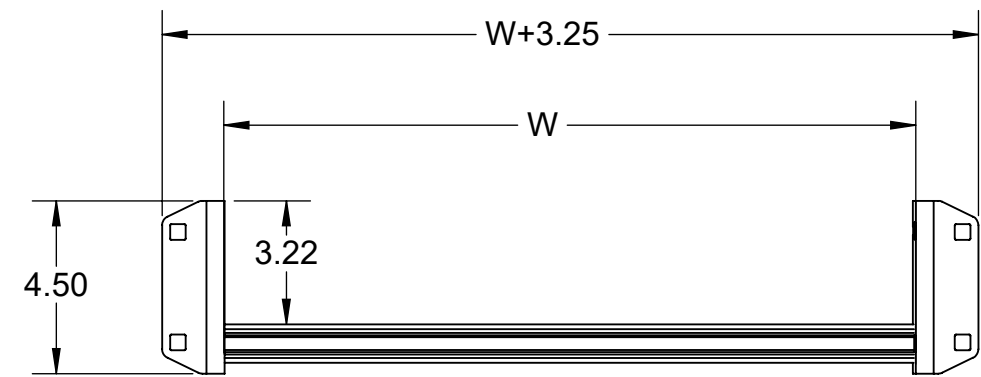
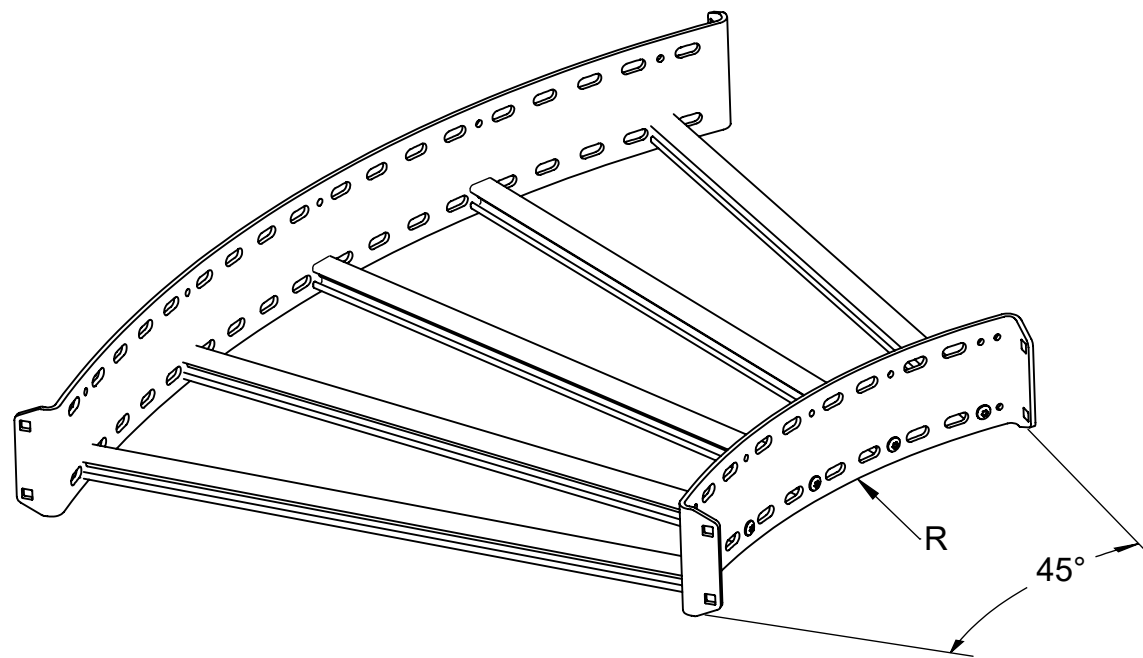
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SECTION VIEW

TTF - 4 X 06 - 45 HB 12 - AL

SERIES TTF = TOUGHTray FITTING	NOMINAL HEIGHT (H) 4 = 4"	NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"	ANGLE 45 = 45°	TYPE HB = HORIZONTAL BEND	RADIUS (R) 12 = 12" 24 = 24" 36 = 36"	MATERIAL AL = ALUMINUM
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HARDWARE INCLUDED:


-  - (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT
-  - (8EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT

PATENT PENDING

NOTES:

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 CT INNOVATIONS		TITLE: 4" HEIGHT TTF SERIES 45° HORIZONTAL BEND	
DRAWN BY/DATE: VA 18AUG2023	SIZE: B	DWG. NO.: CTI-S46997	REV: B
APPROVED BY/DATE: JDG 28APR2023	SCALE: NTS	CAD FILE NAME: 45deg HB 24R CAD SAVE DATE: Tuesday, August 22, 2023 5:36:03 PM	SHEET: 1 OF 1

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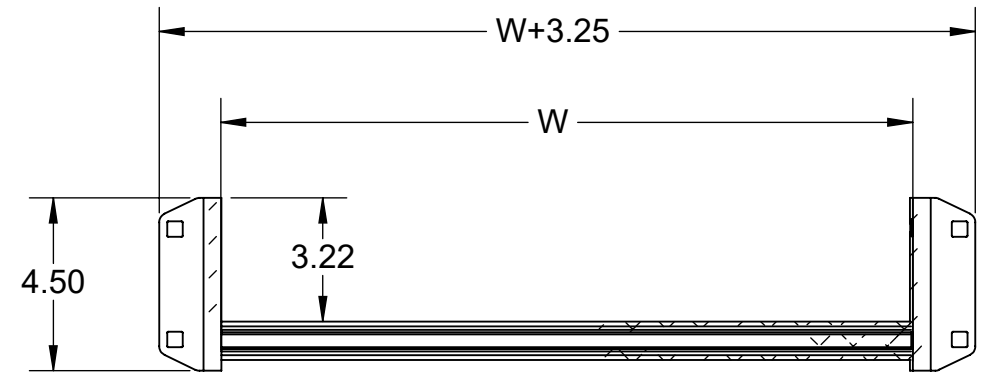
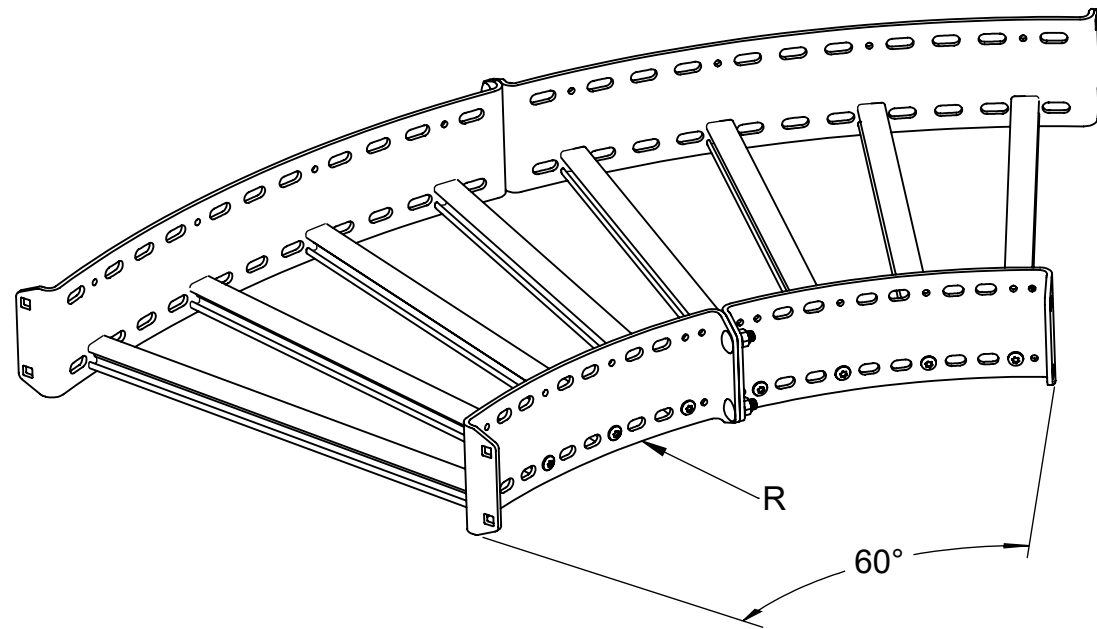
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SECTION VIEW

TTF - 4 X 06 - 60 HB 12 - AL

SERIES TTF = TOUGHTray FITTING	NOMINAL HEIGHT (H) 4 = 4"	NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"	ANGLE 60 = 60°	TYPE HB = HORIZONTAL BEND	RADIUS (R) 12 = 12" 24 = 24" 36 = 36"	MATERIAL AL = ALUMINUM
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HARDWARE INCLUDED:

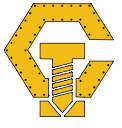
-  - (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT
-  - (8EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
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- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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 CT INNOVATIONS	TITLE: 4" HEIGHT TTF SERIES 60° HORIZONTAL BEND		
	DRAWN BY/DATE: VA 18AUG2023	SIZE: B	DWG. NO.: CTI-S46998
APPROVED BY/DATE: JDG 28APR2023	SCALE: NTS	CAD FILE NAME: 60deg HB 24R CAD SAVE DATE: Tuesday, August 22, 2023 5:34:51 PM	SHEET: 1 OF 1

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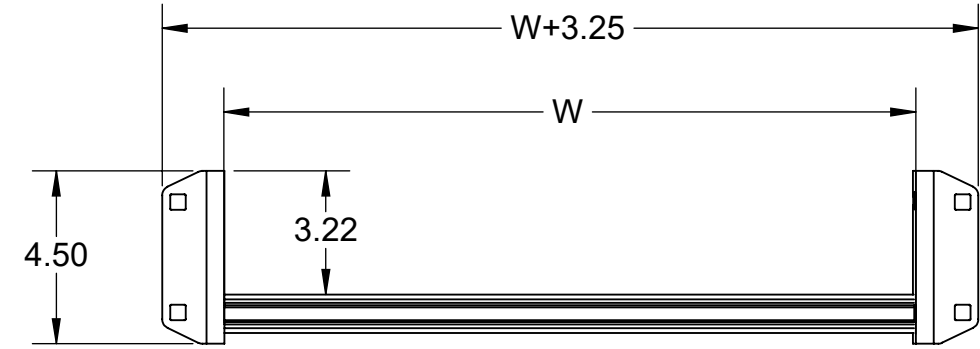
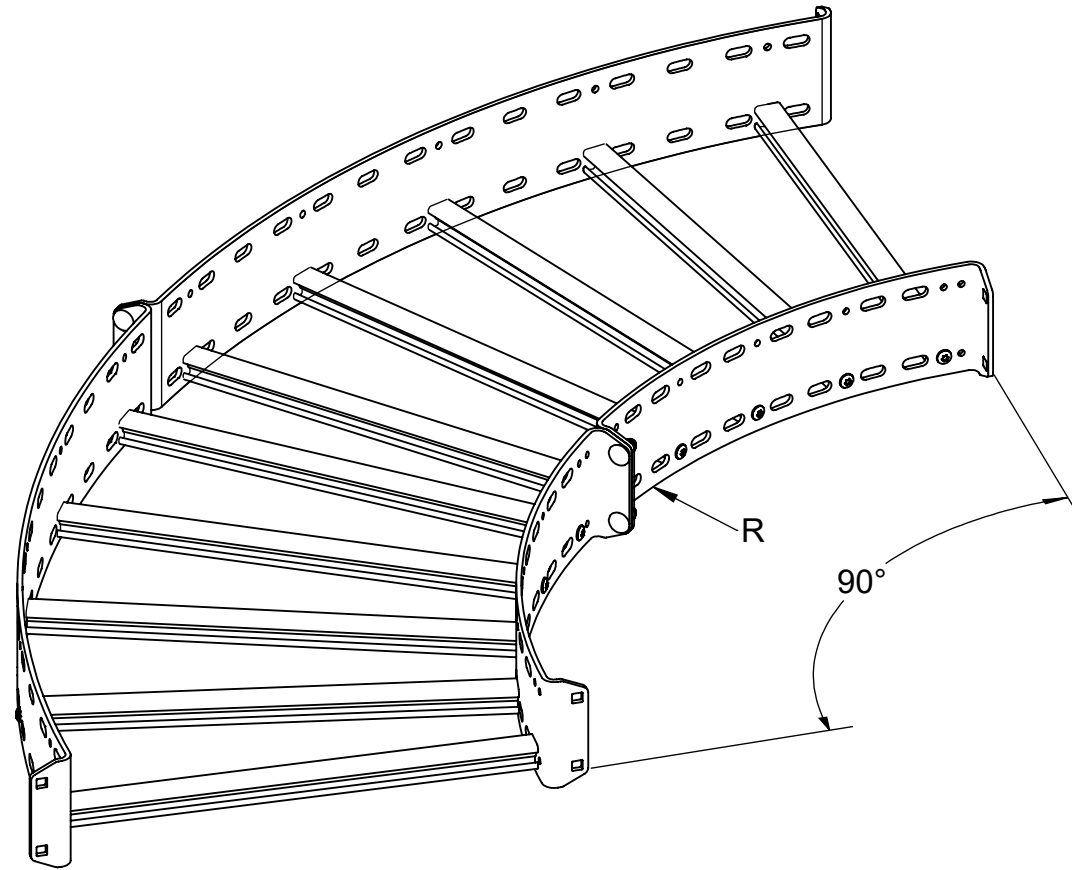
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SECTION VIEW

TTF - 4 X 06 - 90 HB 12 - AL

SERIES TTF = TOUGHTray FITTING	NOMINAL HEIGHT (H) 4 = 4"	NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"	ANGLE 90 = 90°	TYPE HB = HORIZONTAL BEND	RADIUS (R) 12 = 12" 24 = 24" 36 = 36"	MATERIAL AL = ALUMINUM
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HARDWARE INCLUDED:


-  - (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT
-  - (8EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

 CT INNOVATIONS	TITLE: 4" HEIGHT TTF SERIES 90° HORIZONTAL BEND		
	DRAWN BY/DATE: VA 18AUG2023	SIZE: B	DWG. NO.: CTI-S46999
APPROVED BY/DATE: JDG 28APR2023	SCALE: NTS	CAD FILE NAME: 90deg HB 24R CAD SAVE DATE: Tuesday, August 22, 2023 5:43:15 PM	SHEET: 1 OF 1

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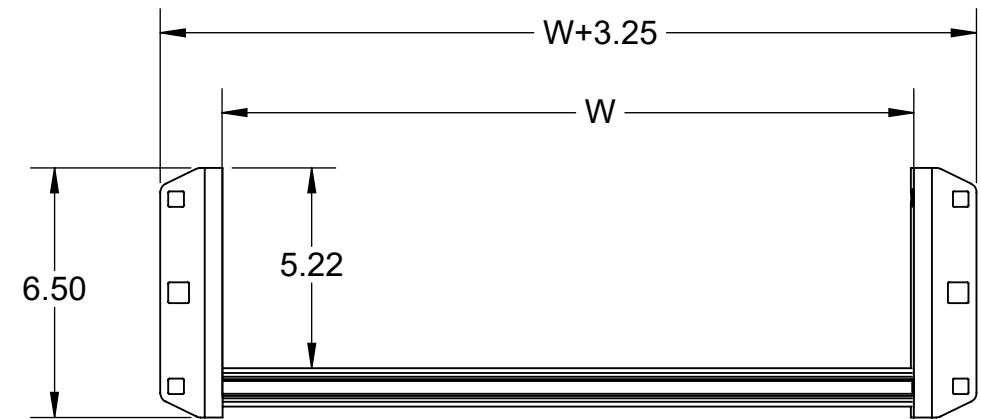
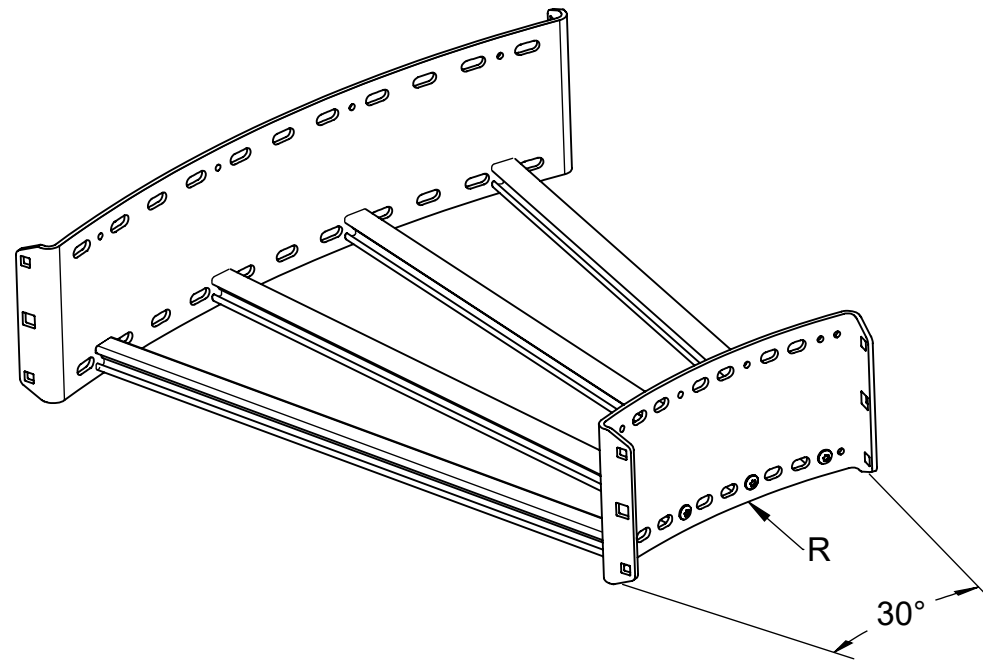
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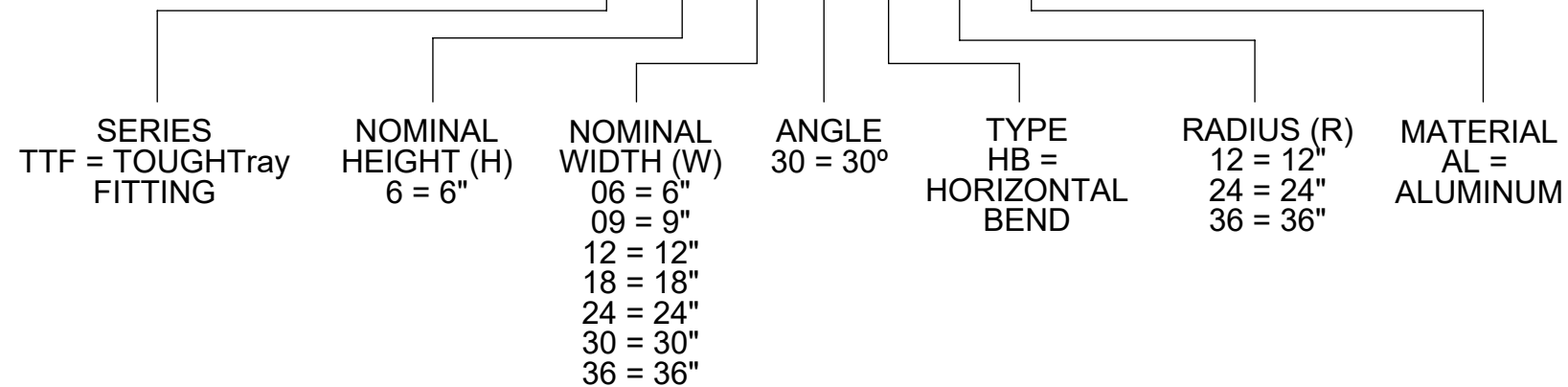
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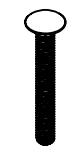



SECTION VIEW

TTF - 6 X 06 - 30 HB 12 - AL




HARDWARE INCLUDED:

-  - (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT
-  - (8EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT

PATENT PENDING

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 CT INNOVATIONS	TITLE: 6" HEIGHT TTF SERIES 30° HORIZONTAL BEND		
	DRAWN BY/DATE: VA 18AUG2023	SIZE: B	DWG. NO.: CTI-S46992
APPROVED BY/DATE: JDG 28APR2023	SCALE: NTS	CAD FILE NAME: 30deg HB 24R CAD SAVE DATE: Tuesday, August 22, 2023 5:41:48 PM	SHEET: 1 OF 1

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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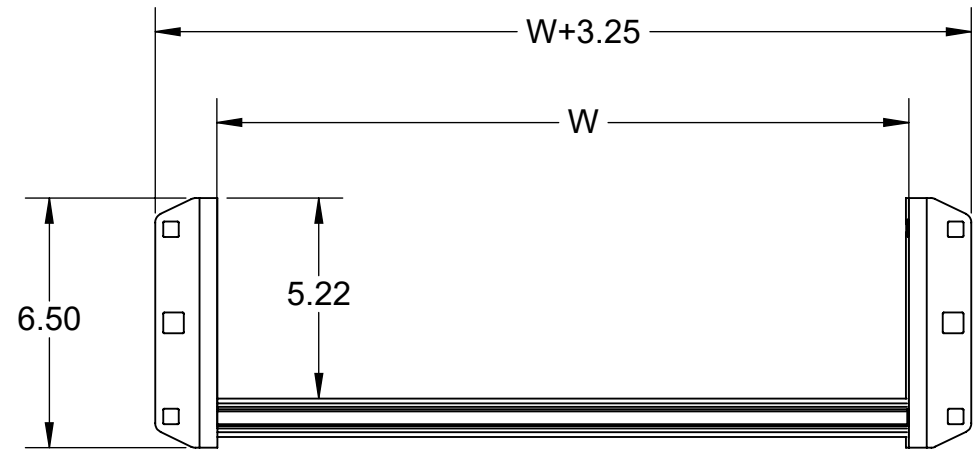
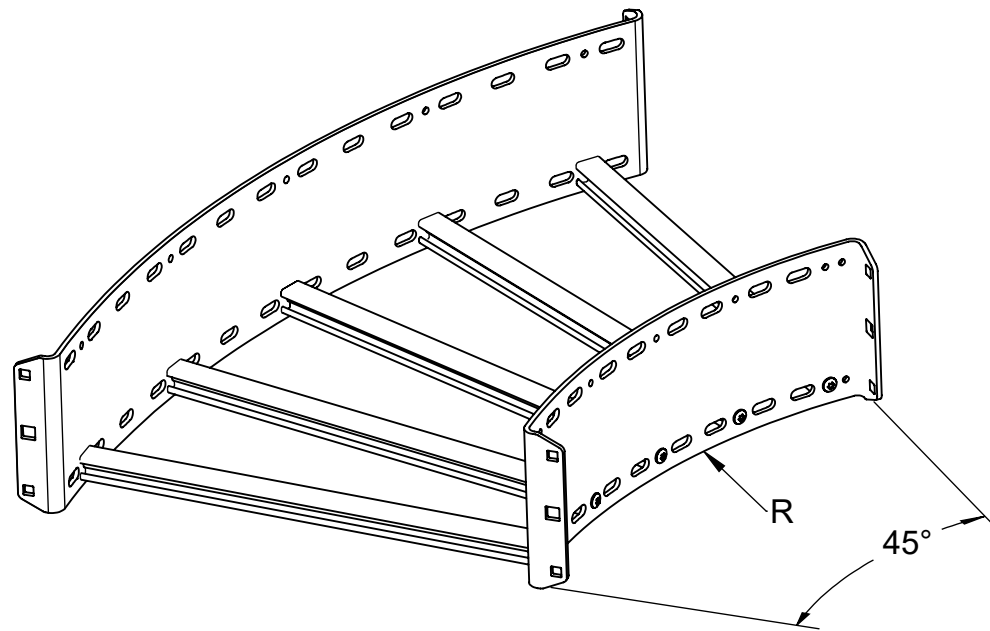
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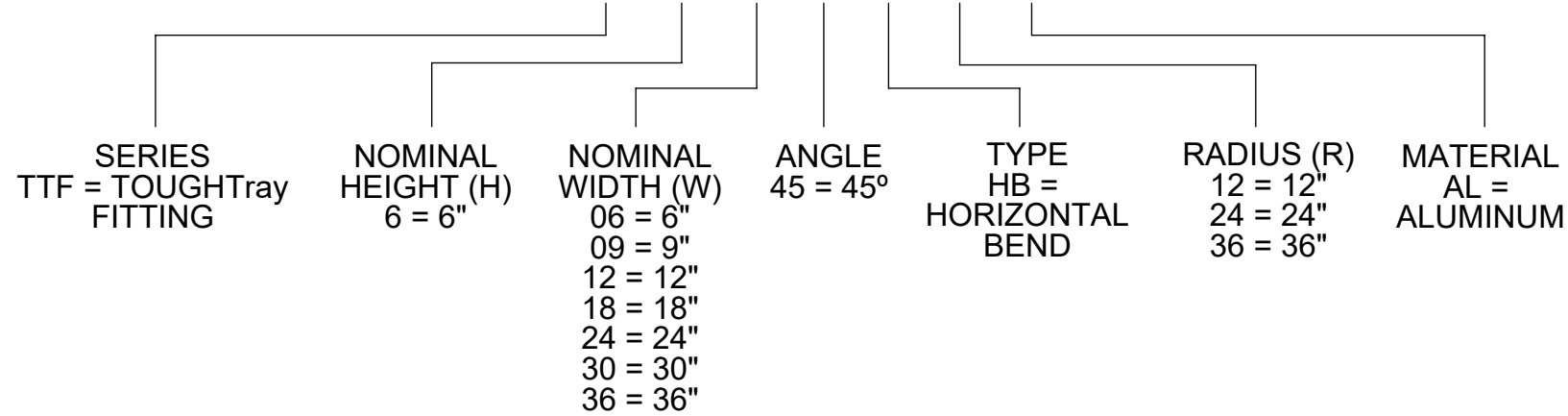
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SECTION VIEW

TTF - 6 X 06 - 45 HB 12 - AL



HARDWARE INCLUDED:

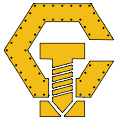
-  - (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT
-  - (8EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

 CT INNOVATIONS	TITLE: 6" HEIGHT TTF SERIES 45° HORIZONTAL BEND		
	DRAWN BY/DATE: VA 18AUG2023	SIZE: B	DWG. NO.: CTI-S46993
APPROVED BY/DATE: JDG 28APR2023	SCALE: NTS	CAD FILE NAME: 45deg HB 24R CAD SAVE DATE: Tuesday, August 22, 2023 5:40:39 PM	SHEET: 1 OF 1

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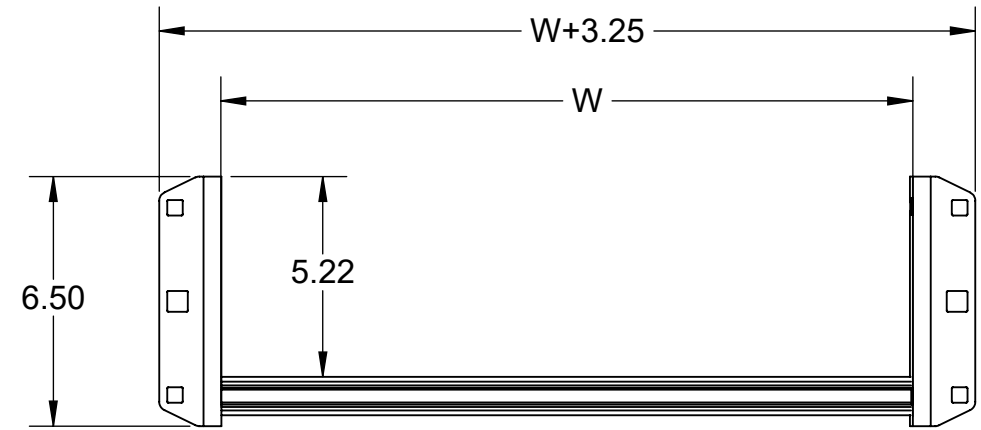
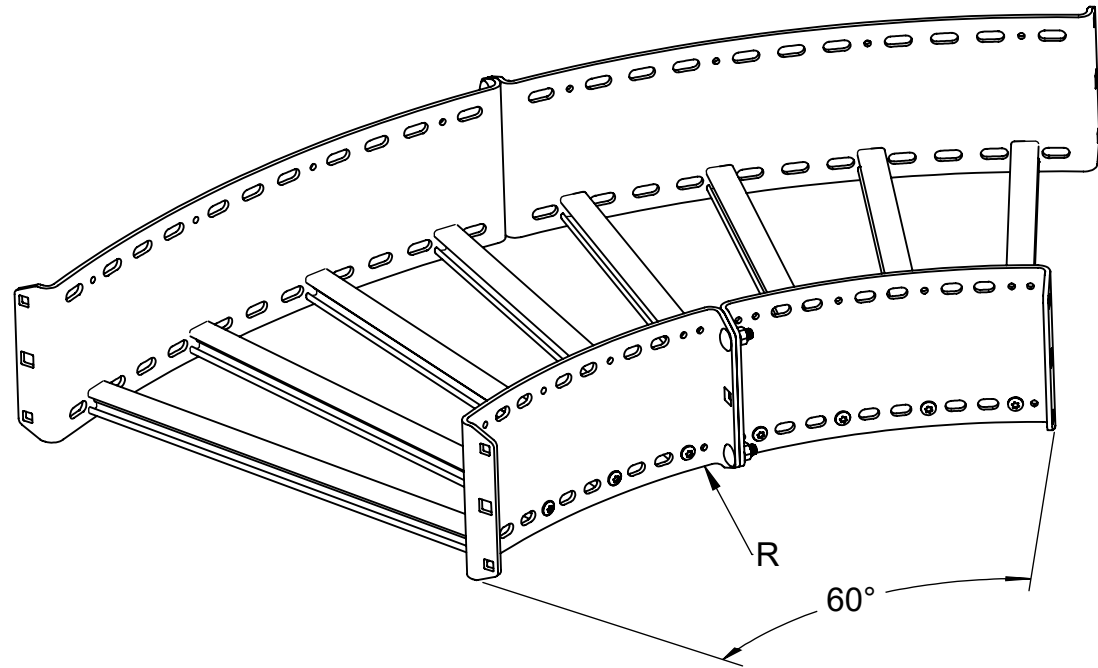
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SECTION VIEW

TTF - 6 X 06 - 60 HB 12 - AL

<p>SERIES TTF = TOUGHTray FITTING</p>	<p>NOMINAL HEIGHT (H) 6 = 6"</p>	<p>NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"</p>	<p>ANGLE 60 = 60°</p>	<p>TYPE HB = HORIZONTAL BEND</p>	<p>RADIUS (R) 12 = 12" 24 = 24" 36 = 36"</p>	<p>MATERIAL AL = ALUMINUM</p>
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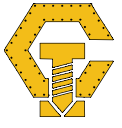
HARDWARE INCLUDED:

-  - (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT
-  - (8EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.			
 CT INNOVATIONS		TITLE: 6" HEIGHT TTF SERIES 60° HORIZONTAL BEND	
DRAWN BY/DATE: VA 18AUG2023	SIZE: B	DWG. NO.: CTI-S46994	REV: B
APPROVED BY/DATE: JDG 28APR2023	SCALE: NTS	CAD FILE NAME: 30deg HB 24R CAD SAVE DATE: Tuesday, August 22, 2023 5:39:50 PM	SHEET: 1 OF 1

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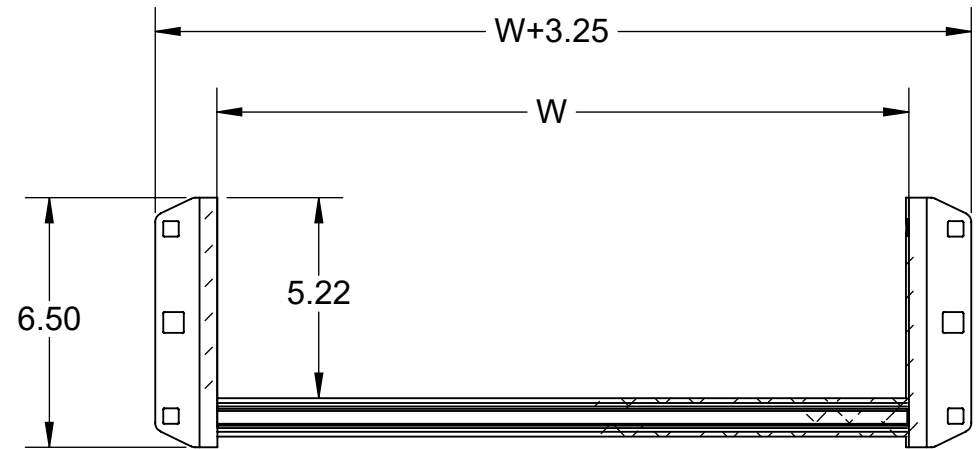
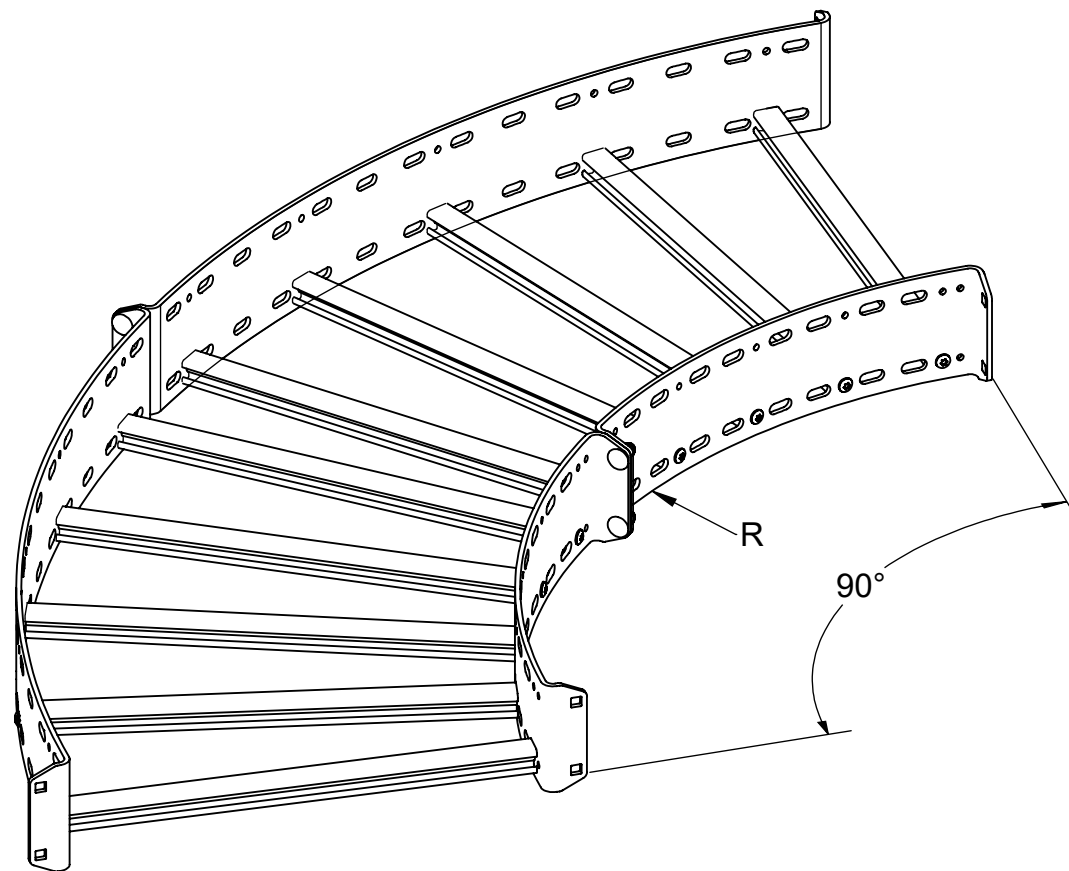
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SECTION VIEW

TTF - 6 X 06 - 90 HB 12 - AL

SERIES TTF = TOUGHTray FITTING	NOMINAL HEIGHT (H) 6 = 6"	NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"	ANGLE 90 = 90°	TYPE HB = HORIZONTAL BEND	RADIUS (R) 12 = 12" 24 = 24" 36 = 36"	MATERIAL AL = ALUMINUM
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HARDWARE INCLUDED:


-  - (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT
-  - (8EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

 CT INNOVATIONS	TITLE: 6" HEIGHT TTF SERIES 90° HORIZONTAL BEND		
	DRAWN BY/DATE: VA 18AUG2023	SIZE: B	DWG. NO.: CTI-S46995
APPROVED BY/DATE: JDG 28APR2023	SCALE: NTS	CAD FILE NAME: 90deg HB 24R CAD SAVE DATE: Tuesday, August 22, 2023 5:38:40 PM	SHEET: 1 OF 1

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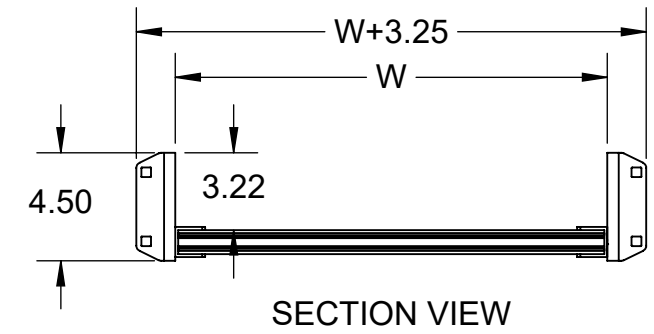
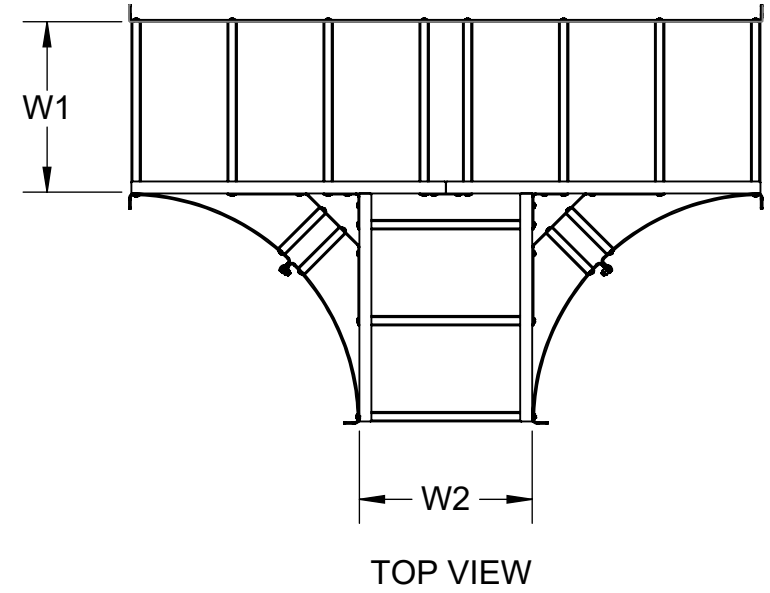
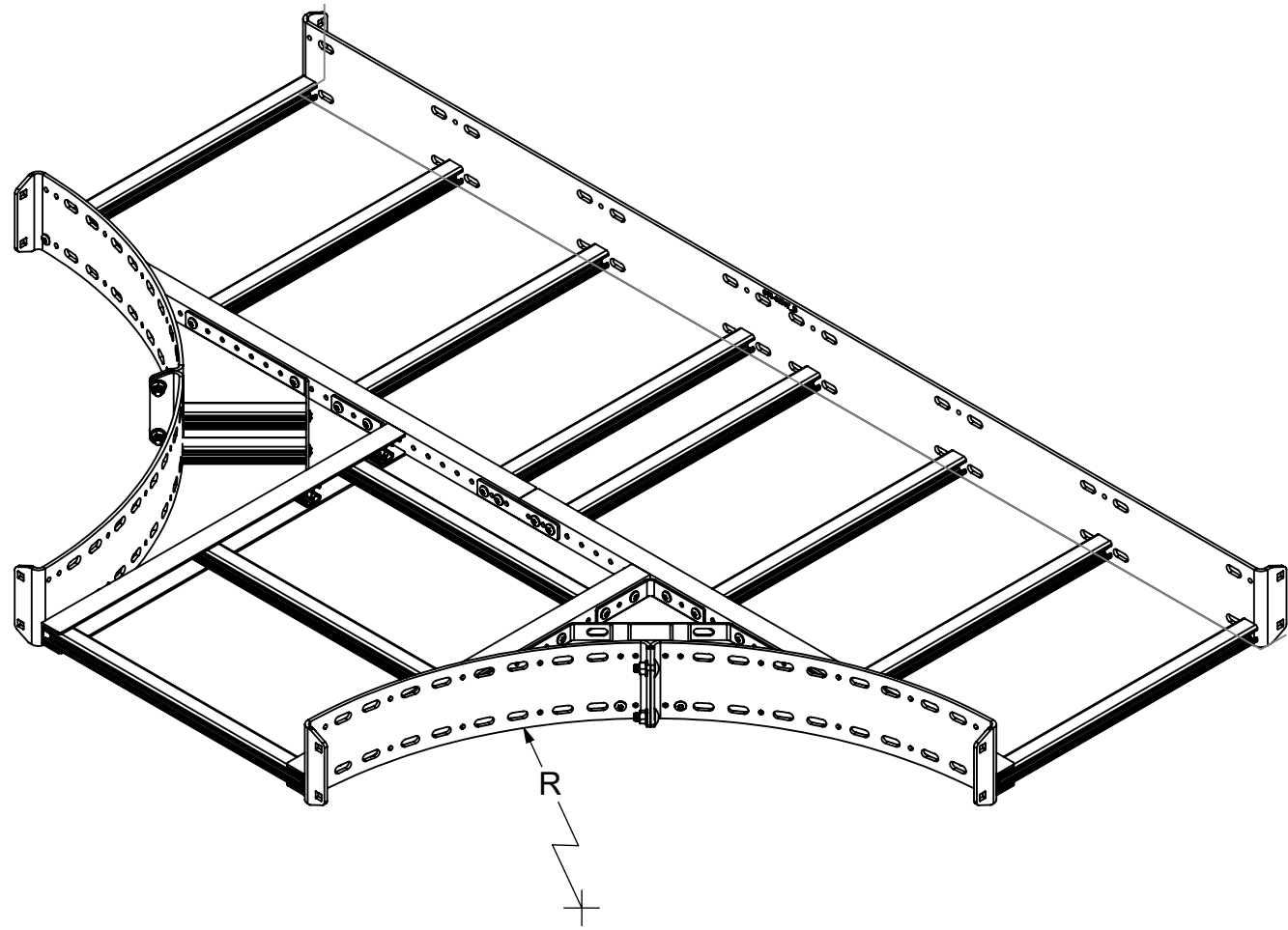
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TTF - 4 X 06 X 06 - HT 12 - AL

SERIES	NOMINAL HEIGHT (H)	NOMINAL WIDTH (W1)	NOMINAL WIDTH (W2)	TYPE	RADIUS (R)	MATERIAL
TTF = TOUGHTray FITTING	4 = 4"	06 = 6"	06 = 6"	HT = HORIZONTAL TEE	12 = 12"	AL = ALUMINUM
		09 = 9"	09 = 9"		24 = 24"	
		12 = 12"	12 = 12"		36 = 36"	
		18 = 18"	18 = 18"			
		24 = 24"	24 = 24"			
		30 = 30"	30 = 30"			
		36 = 36"	36 = 36"			

HARDWARE INCLUDED:


-  - (12EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT
-  - (12EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED W/ PRE-INSTALLED LINKS COMPLETE W/ HARDWARE.
- 4) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

 CT INNOVATIONS	TITLE: 4" HEIGHT TTF SERIES HORIZONTAL TEE		
	DRAWN BY/DATE: LW 05FEB2024	SIZE: B	DWG. NO.: CTI-S47997
APPROVED BY/DATE: JDG 09FEB2024	SCALE: NTS	CAD FILE NAME: HT 24R CAD SAVE DATE: Monday, February 5, 2024 2:18:08 PM	SHEET: 1 OF 1

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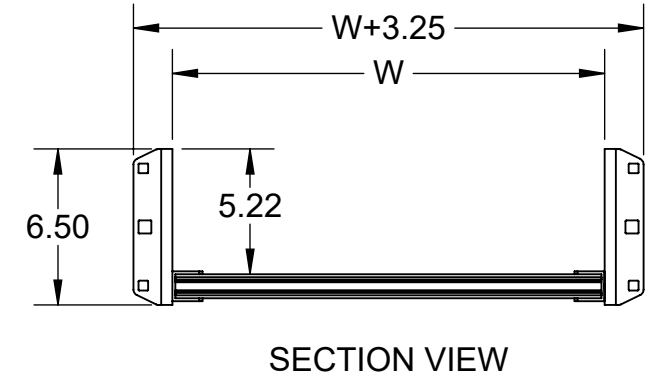
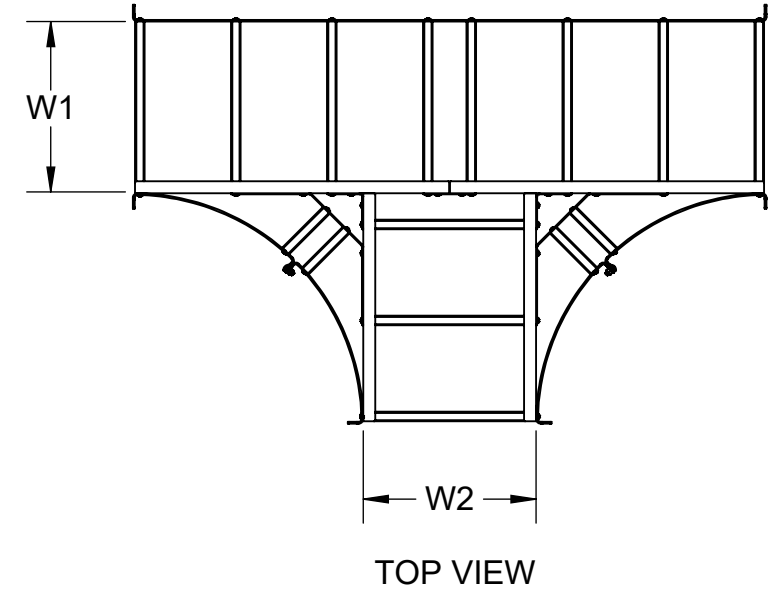
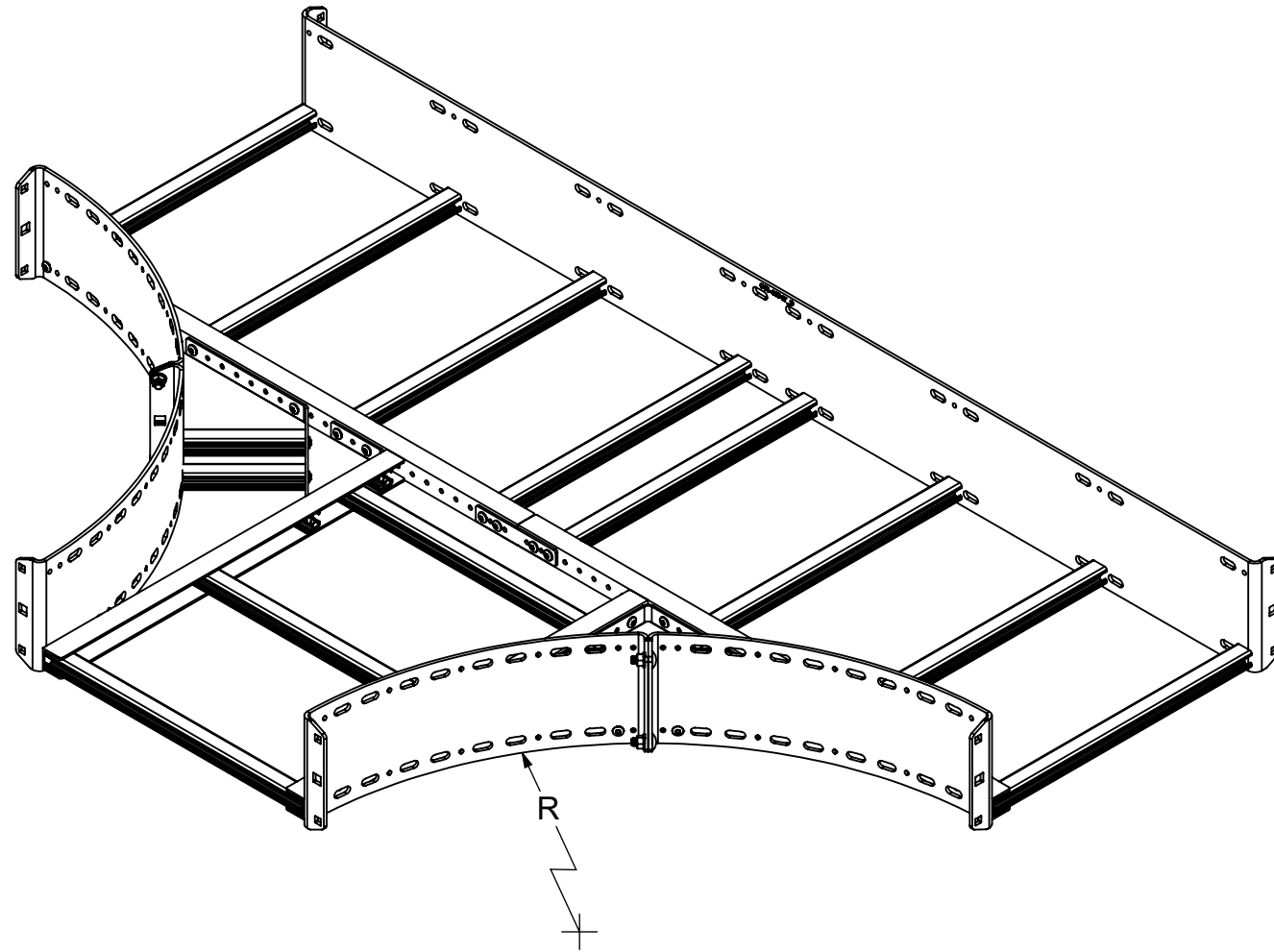
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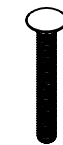

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TTF - 6 X 06 X 06 - HT 12 - AL

SERIES TTF = TOUGHTray FITTING	NOMINAL HEIGHT (H) 6 = 6"	NOMINAL WIDTH (W1) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"	NOMINAL WIDTH (W2) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"	TYPE HT = HORIZONTAL TEE	RADIUS (R) 12 = 12" 24 = 24" 36 = 36"	MATERIAL AL = ALUMINUM
--------------------------------------	---------------------------------	---	---	-----------------------------------	--	------------------------------

HARDWARE INCLUDED:


-  - (12EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT
-  - (12EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

 CT INNOVATIONS	TITLE: 6" HEIGHT TTF SERIES HORIZONTAL TEE			
	DRAWN BY/DATE: VA 05FEB2024	SIZE: B	DWG. NO.: CTI-S47996	REV: D
	APPROVED BY/DATE: JDG 09FEB2024	SCALE: NTS	CAD FILE NAME: 30deg HB 24R CAD SAVE DATE: Monday, February 5, 2024 2:15:47 PM	SHEET: 1 OF 1

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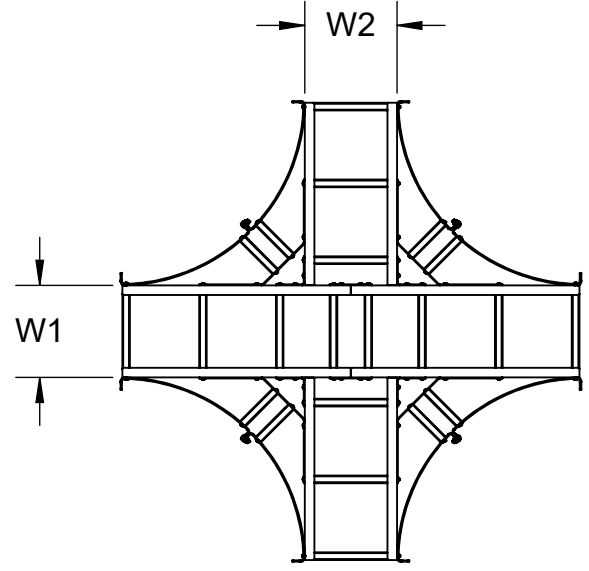
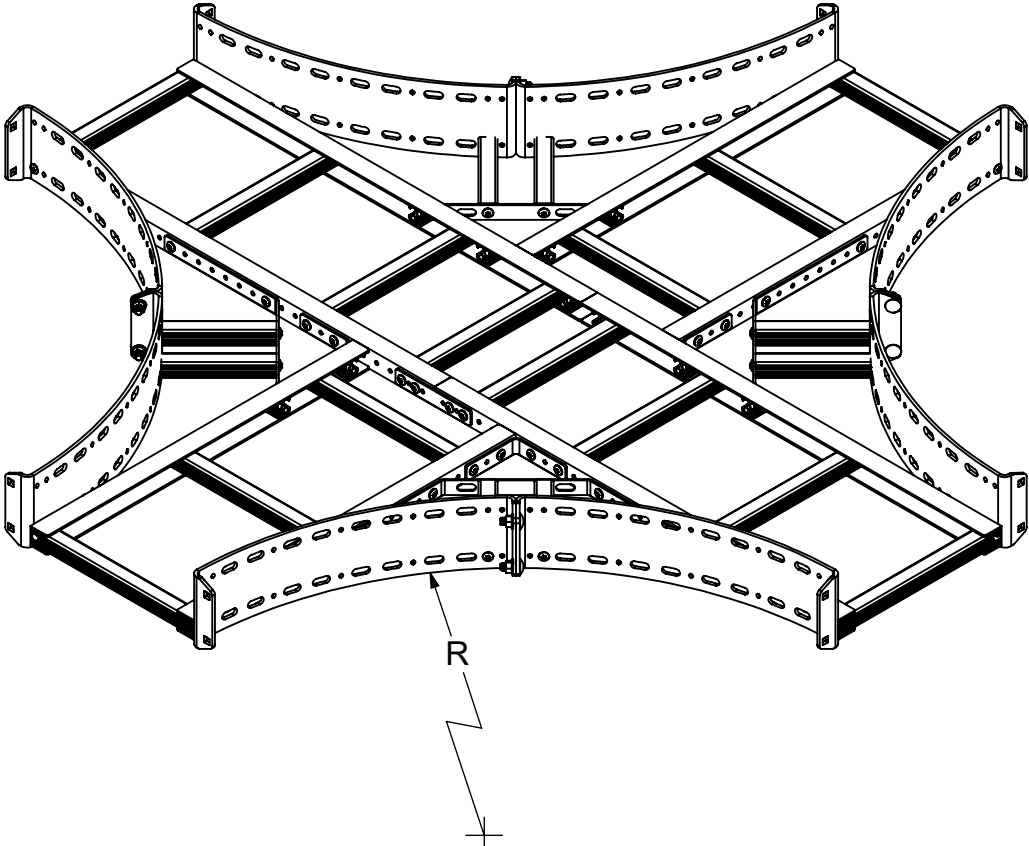
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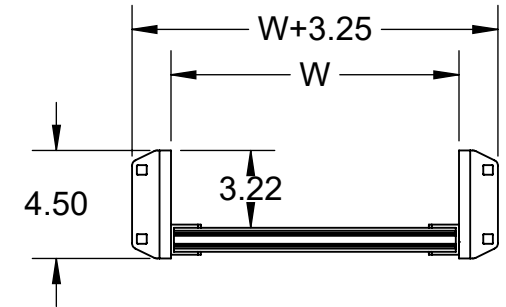
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TOP VIEW

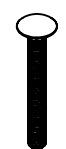



SECTION VIEW

TTF - 4 X 06 X 06 - HX 12 - AL

SERIES TTF = TOUGHTray FITTING	NOMINAL HEIGHT (H)	NOMINAL WIDTH (W1)	NOMINAL WIDTH (W2)	TYPE HX = HORIZONTAL CROSS	RADIUS (R)	MATERIAL AL = ALUMINUM
	4 = 4"	06 = 6"	06 = 6"		12 = 12"	
		09 = 9"	09 = 9"		24 = 24"	
		12 = 12"	12 = 12"		36 = 36"	
		18 = 18"	18 = 18"			
		24 = 24"	24 = 24"			
		30 = 30"	30 = 30"			
	36 = 36"	36 = 36"				


HARDWARE INCLUDED:

-  - (16EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT
-  - (16EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT

PATENT PENDING

- NOTES:**
- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
 - 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
 - 3) SUPPLIED W/ PRE-INSTALLED LINKS COMPLETE W/ HARDWARE.
 - 4) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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" HEIGHT TTF SERIES HORIZONTAL CROSS		
	DRAWN BY/DATE: VA 05FEB2024	SIZE: B	DWG. NO.: CTI-S47999
APPROVED BY/DATE: JDG 09FEB2024	SCALE: NTS	CAD FILE NAME: HX 24R CAD SAVE DATE: Monday, February 5, 2024 2:45:49 PM	SHEET: 1 OF 1

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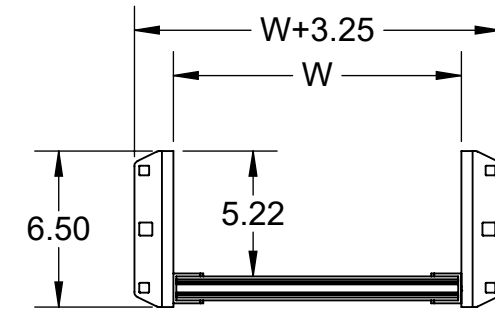
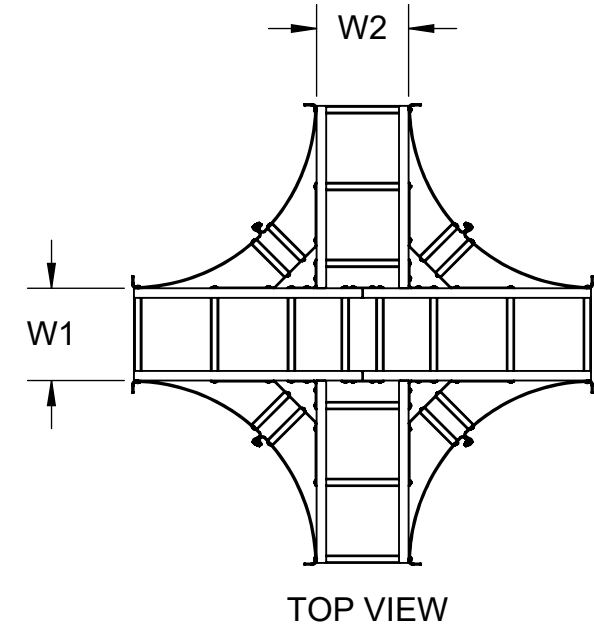
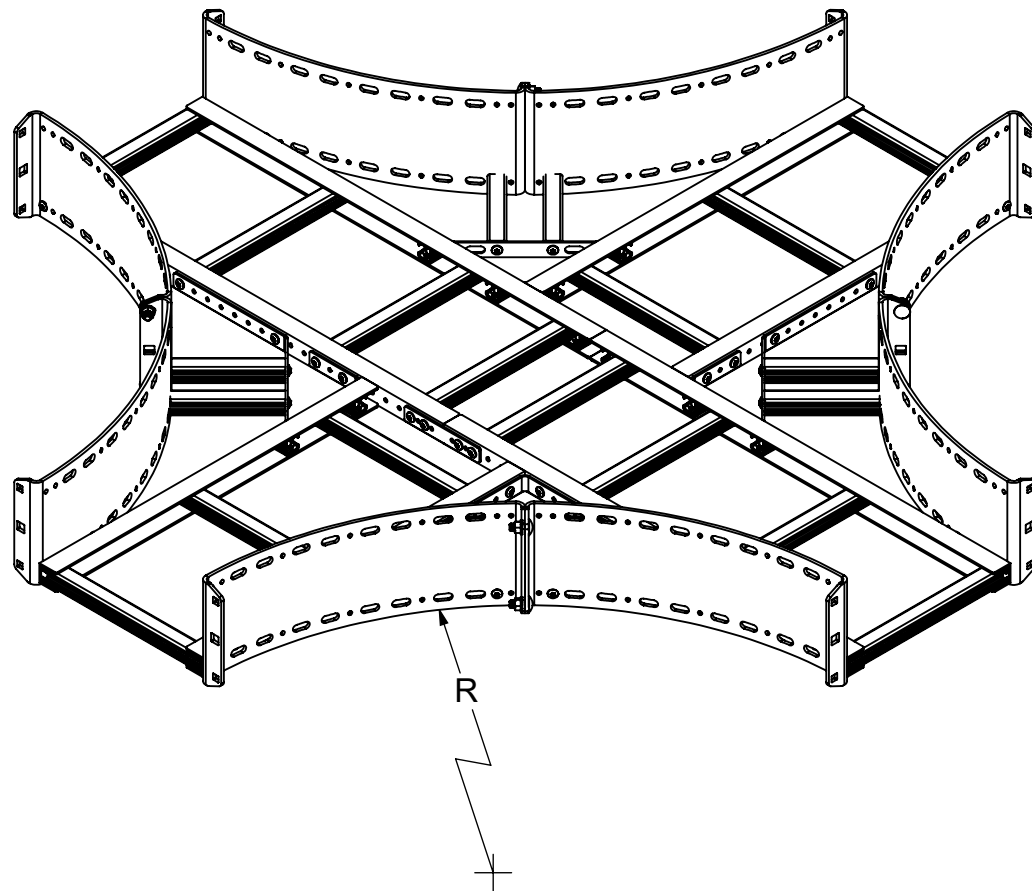
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TTF - 6 X 06 X 06 - HX 12 - AL

SERIES	NOMINAL HEIGHT (H)	NOMINAL WIDTH (W1)	NOMINAL WIDTH (W2)	TYPE	RADIUS (R)	MATERIAL
TTF = TOUGHTray FITTING	6 = 6"	06 = 6"	06 = 6"	HX = HORIZONTAL CROSS	12 = 12"	AL = ALUMINUM
		09 = 9"	09 = 9"		24 = 24"	
		12 = 12"	12 = 12"		36 = 36"	
		18 = 18"	18 = 18"			
		24 = 24"	24 = 24"			
		30 = 30"	30 = 30"			
		36 = 36"	36 = 36"			

HARDWARE INCLUDED:

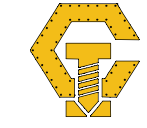
-  - (16EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT
-  - (16EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

 CT INNOVATIONS	TITLE: 6" HEIGHT TTF SERIES HORIZONTAL CROSS		
	DRAWN BY/DATE: VA 05FEB2024	SIZE: B	DWG. NO.: CTI-S47998
APPROVED BY/DATE: JDG 09FEB2024	SCALE: NTS	CAD FILE NAME: 30deg HB 24R CAD SAVE DATE: Monday, February 5, 2024 2:39:04 PM	SHEET: 1 OF 1

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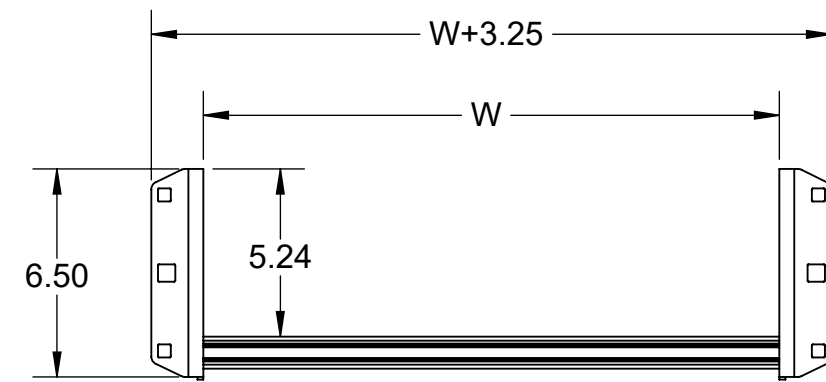
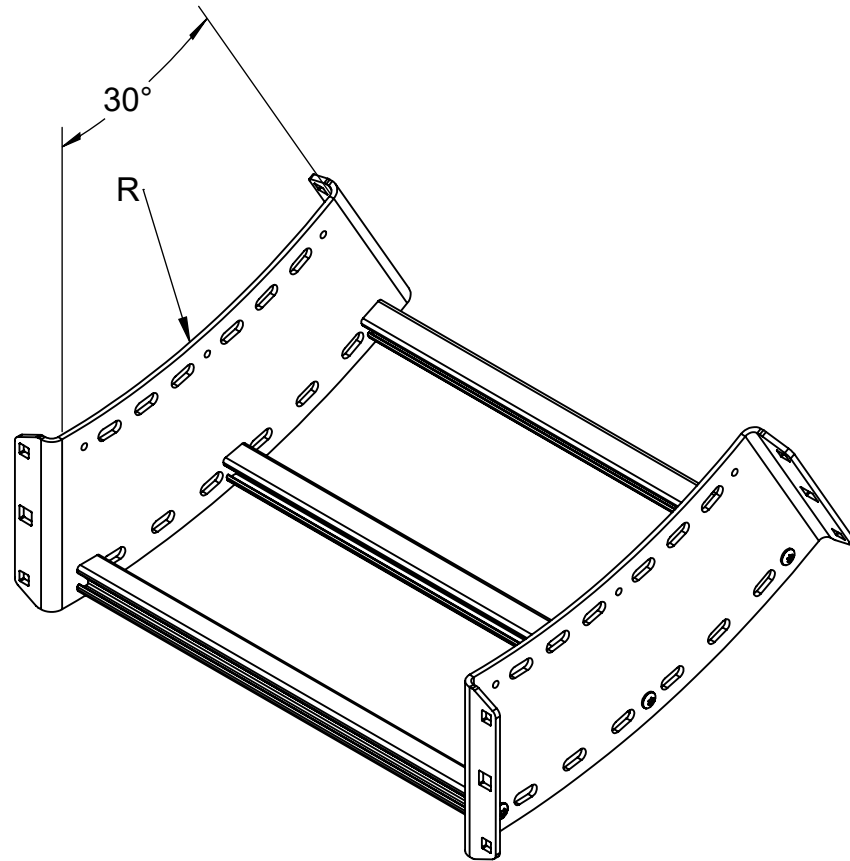
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SECTION VIEW

TTF - 6 X 06 - 30 VI 12 - AL

SERIES
TTF = TOUGHTray
FITTING

NOMINAL
HEIGHT (H)
6 = 6"

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

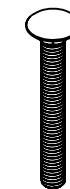
ANGLE
30 = 30°

TYPE
VI =
VERTICAL
INSIDE
BEND

RADIUS (R)
12 = 12"
24 = 24"
36 = 36"

MATERIAL
AL =
ALUMINUM

HARDWARE INCLUDED:



- (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT



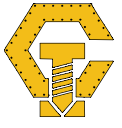
- (8EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

 CT INNOVATIONS	TITLE: 6" HEIGHT TTF SERIES 30° VERTICAL INSIDE BEND		
	DRAWN BY/DATE: LW 18AUG2023	SIZE: B	DWG. NO.: CTI-S45984
APPROVED BY/DATE: JDG 18AUG2023	SCALE: NTS	CAD FILE NAME: 30deg VI CAD SAVE DATE: Tuesday, August 22, 2023 3:32:04 PM	SHEET: 1 OF 1

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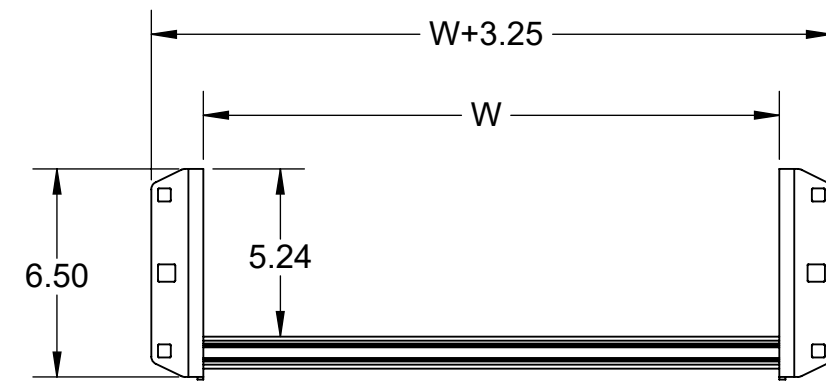
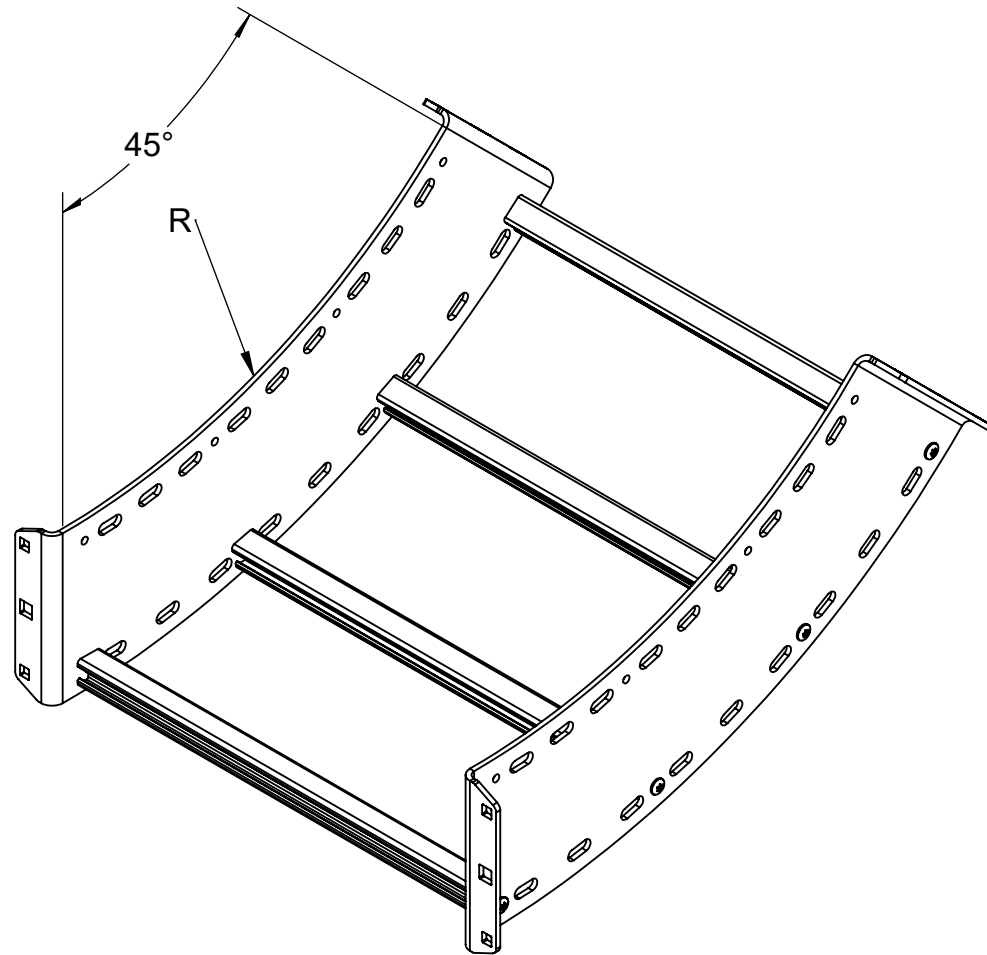
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SECTION VIEW

TTF - 6 X 06 - 45 VI 12 - AL

SERIES
TTF = TOUGHTray
FITTING

NOMINAL
HEIGHT (H)
6 = 6"

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

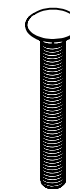
ANGLE
45 = 45°

TYPE
VI =
VERTICAL
INSIDE
BEND

RADIUS (R)
12 = 12"
24 = 24"
36 = 36"

MATERIAL
AL =
ALUMINUM

HARDWARE INCLUDED:



- (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT




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

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

 CT INNOVATIONS	TITLE: 6" HEIGHT TTF SERIES 45° VERTICAL INSIDE BEND		
	DRAWN BY/DATE: LW 18AUG2023	SIZE: B	DWG. NO.: CTI-S45985
APPROVED BY/DATE: JDG 18AUG2023	SCALE: NTS	CAD FILE NAME: 45deg VI CAD SAVE DATE: Tuesday, August 22, 2023 3:58:19 PM	SHEET: 1 OF 1

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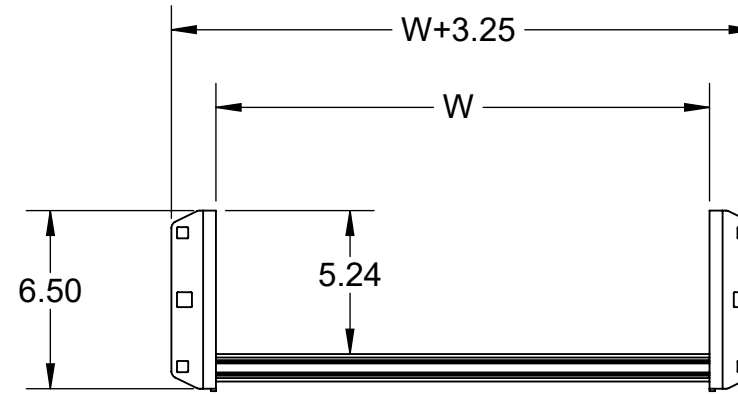
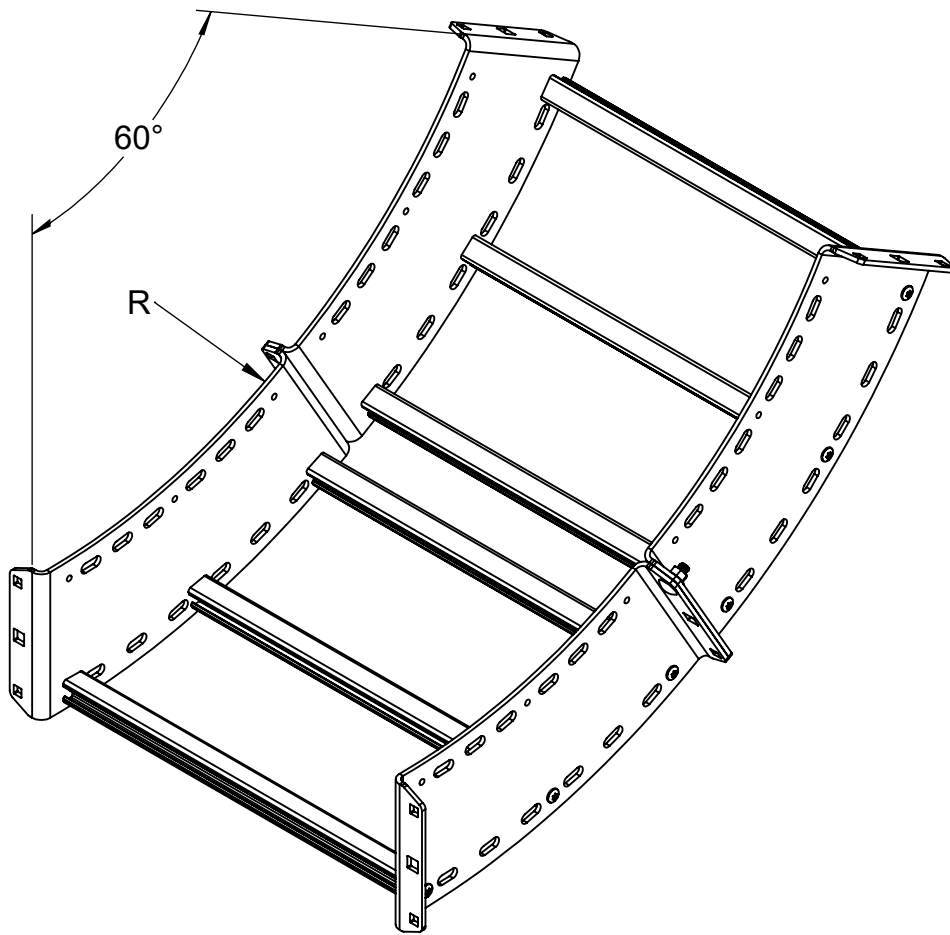
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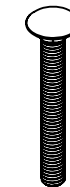
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SECTION VIEW

HARDWARE INCLUDED:



- (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT



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

TTF - 6 X 06 - 60 VI 12 - AL

SERIES
TTF = TOUGHTray
FITTING

NOMINAL
HEIGHT (H)
6 = 6"

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

ANGLE
60 = 60°

TYPE
VI =
VERTICAL
INSIDE
BEND

RADIUS (R)
12 = 12"
24 = 24"
36 = 36"

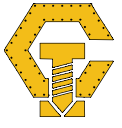
MATERIAL
AL =
ALUMINUM

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

 CT INNOVATIONS	TITLE: 6" HEIGHT TTF SERIES 60° VERTICAL INSIDE BEND		
	DRAWN BY/DATE: LW 22AUG2023	SIZE: B	DWG. NO.: CTI-S45986
APPROVED BY/DATE: JDG 22AUG2023	SCALE: NTS	CAD FILE NAME: 60deg VI CAD SAVE DATE: Tuesday, August 22, 2023 3:59:33 PM	SHEET: 1 OF 1

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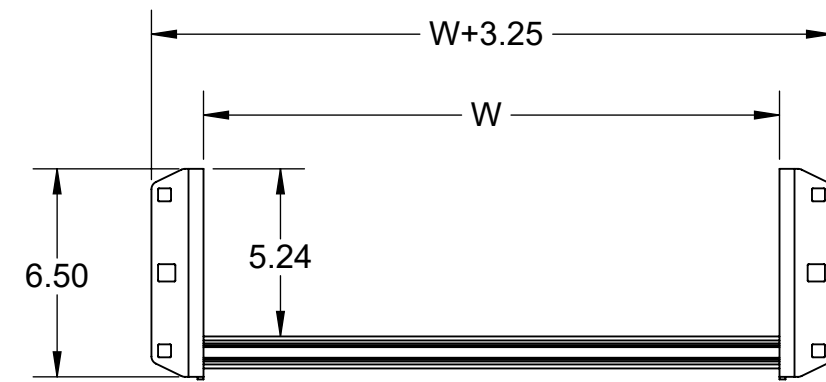
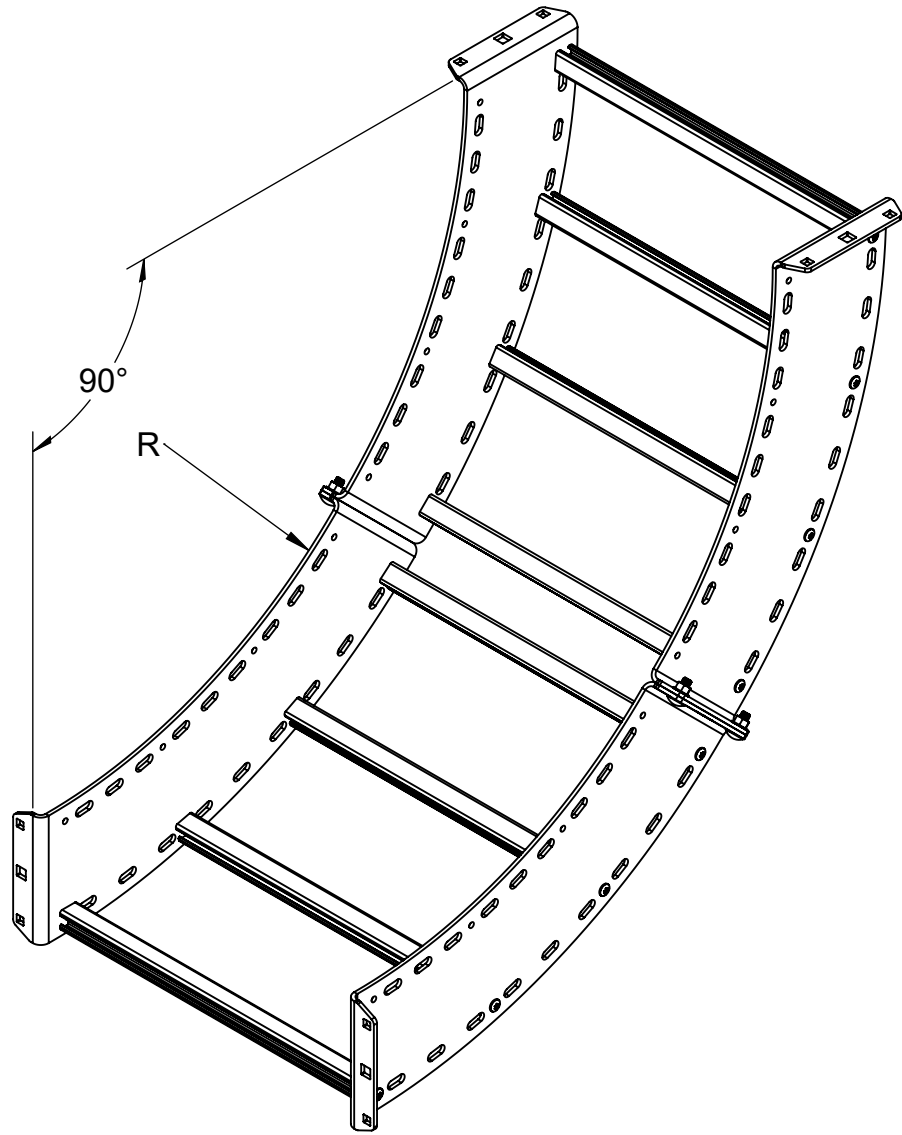
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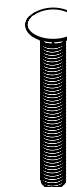



SECTION VIEW

TTF - 6 X 06 - 90 VI 12 - AL


<p>SERIES TTF = TOUGHTray FITTING</p>	<p>NOMINAL HEIGHT (H) 6 = 6"</p>	<p>NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"</p>	<p>ANGLE 90 = 90°</p>	<p>TYPE VI = VERTICAL INSIDE BEND</p>	<p>RADIUS (R) 12 = 12" 24 = 24" 36 = 36"</p>	<p>MATERIAL AL = ALUMINUM</p>
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HARDWARE INCLUDED:

-  - (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT
-  - (8EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT

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.

 CT INNOVATIONS	TITLE: <p style="text-align: center;">6" HEIGHT TTF SERIES 90° VERTICAL INSIDE BEND</p>		
	DRAWN BY/DATE: LW 18AUG2023	SIZE: <p style="text-align: center;">B</p>	DWG. NO.: <p style="text-align: center;">CTI-S45987</p>
APPROVED BY/DATE: JDG 18AUG2023	SCALE: <p style="text-align: center;">NTS</p>	CAD FILE NAME: 90deg VI CAD SAVE DATE: Tuesday, August 22, 2023 3:35:35 PM	SHEET: <p style="text-align: center;">1 OF 1</p>

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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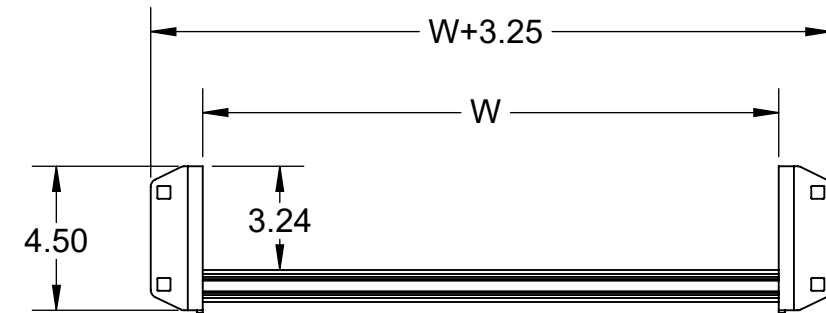
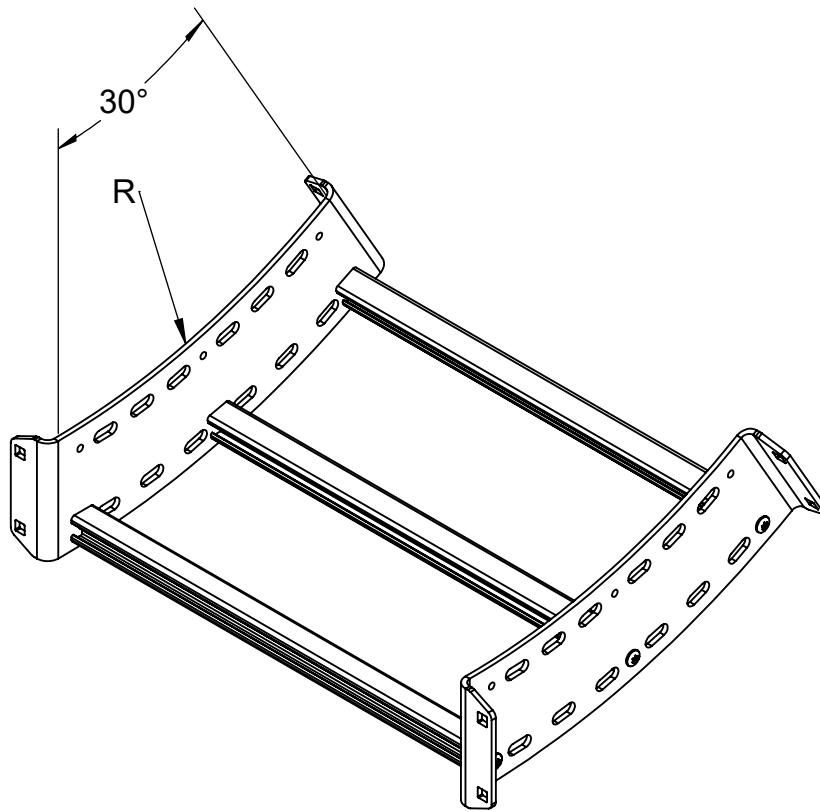
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1



SECTION VIEW

TTF - 4 X 06 - 30 VI 12 - AL

SERIES
TTF = TOUGHTray
FITTING

NOMINAL
HEIGHT (H)
4 = 4"

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

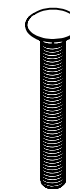
ANGLE
30 = 30°

TYPE
VI =
VERTICAL
INSIDE
BEND

RADIUS (R)
12 = 12"
24 = 24"
36 = 36"

MATERIAL
AL =
ALUMINUM

HARDWARE INCLUDED:



- (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT




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

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

 CT INNOVATIONS	TITLE: 4" HEIGHT TTF SERIES 30° VERTICAL INSIDE BEND		
	DRAWN BY/DATE: VA 22AUG2023	SIZE: B	DWG. NO.: CTI-S45992
APPROVED BY/DATE: JDG 18AUG2023	SCALE: NTS	CAD FILE NAME: 30deg VI CAD SAVE DATE: Tuesday, August 22, 2023 3:02:01 PM	SHEET: 1 OF 1

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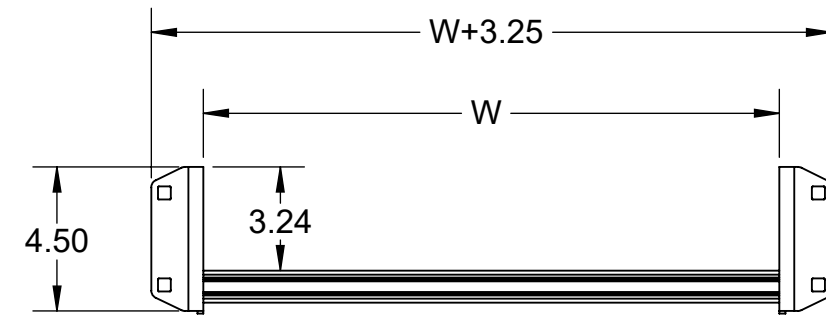
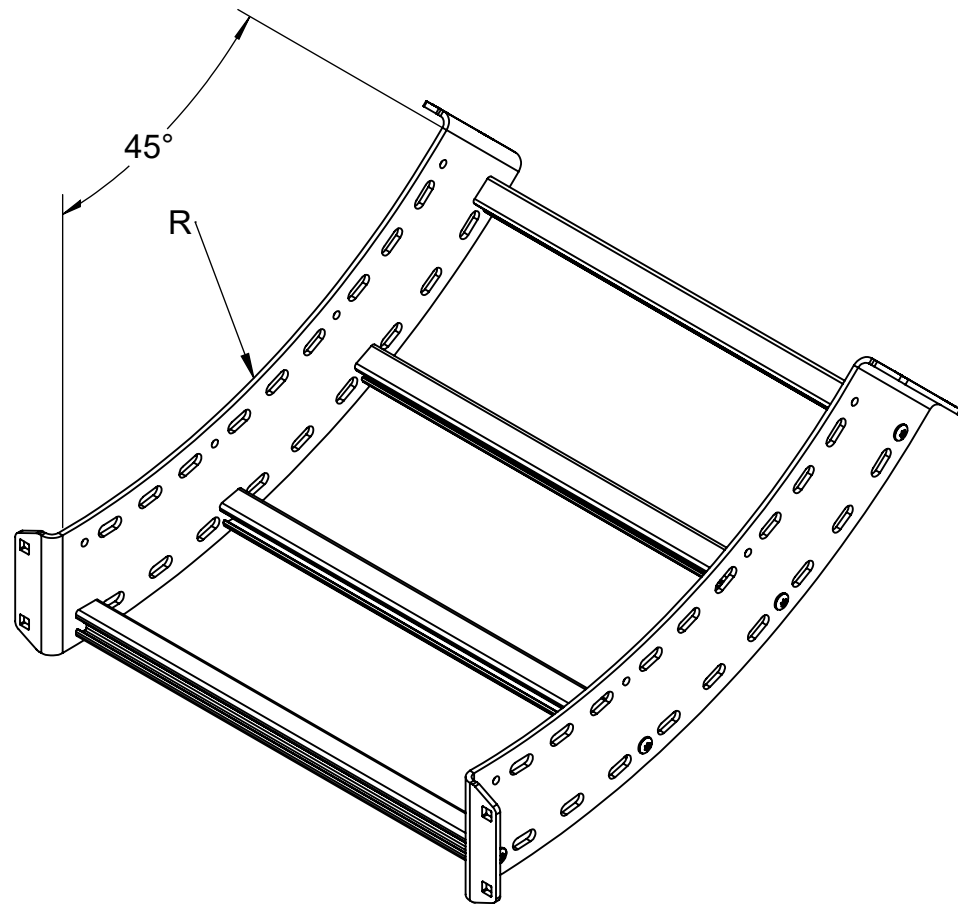
5

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SECTION VIEW

TTF - 4 X 06 - 45 VI 12 - AL

SERIES
TTF = TOUGHTray
FITTING

NOMINAL
HEIGHT (H)
4 = 4"

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

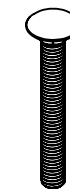
ANGLE
45 = 45°

TYPE
VI =
VERTICAL
INSIDE
BEND

RADIUS (R)
12 = 12"
24 = 24"
36 = 36"

MATERIAL
AL =
ALUMINUM

HARDWARE INCLUDED:



- (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT



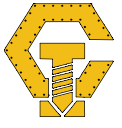
- (8EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

 CT INNOVATIONS	TITLE: 4" HEIGHT TTF SERIES 45° VERTICAL INSIDE BEND		
	DRAWN BY/DATE: LW 18AUG2023	SIZE: B	DWG. NO.: CTI-S45993
APPROVED BY/DATE: JDG 18AUG2023	SCALE: NTS	CAD FILE NAME: 45deg VI CAD SAVE DATE: Tuesday, August 22, 2023 4:07:53 PM	SHEET: 1 OF 1

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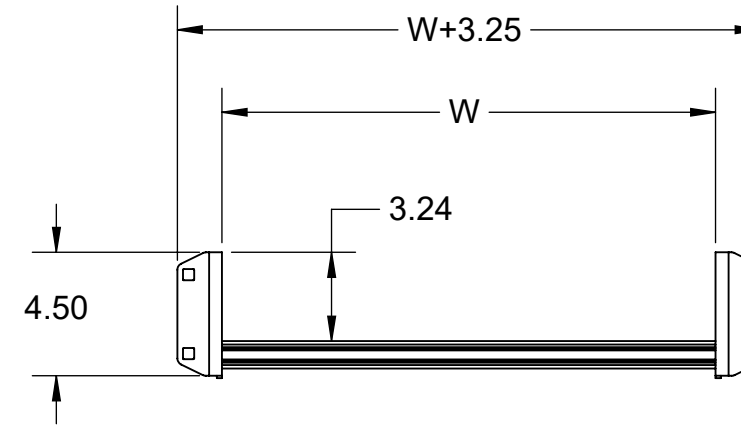
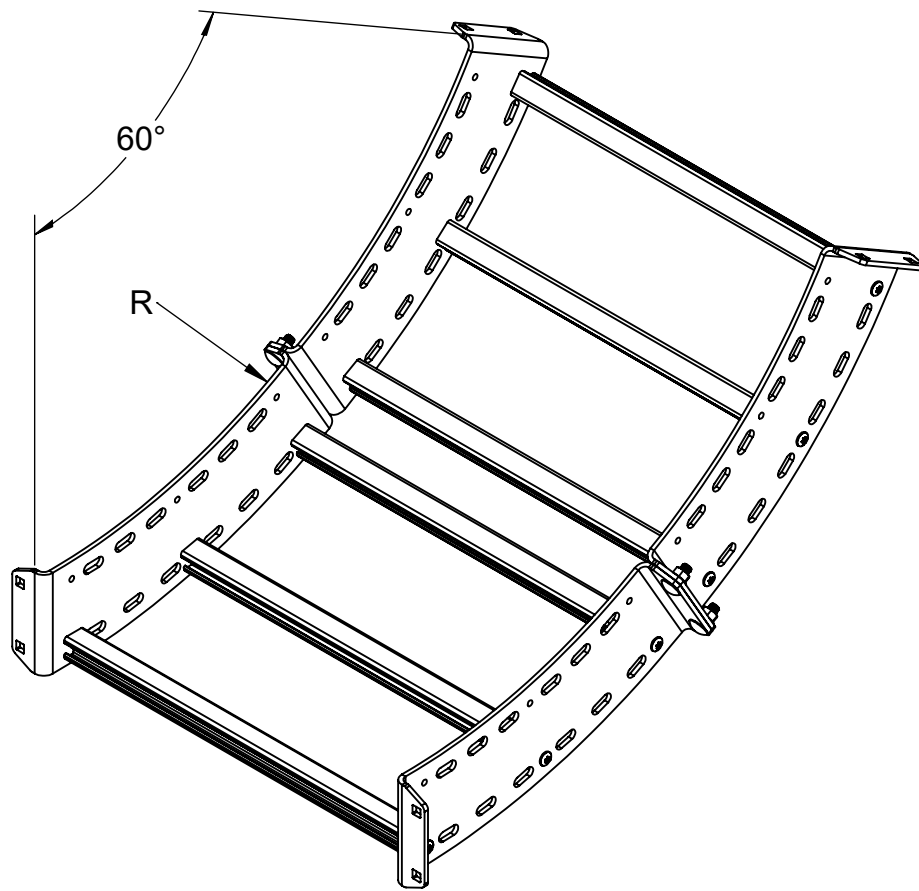
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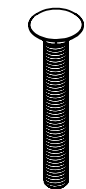
2

1



SECTION VIEW

HARDWARE INCLUDED:



- (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT



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

TTF - 4 X 06 - 60 VI 12 - AL


SERIES TTF = TOUGHTray FITTING	NOMINAL HEIGHT (H) 4 = 4"	NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"	ANGLE 60 = 60°	TYPE VI = VERTICAL INSIDE BEND	RADIUS (R) 12 = 12" 24 = 24" 36 = 36"	MATERIAL AL = ALUMINUM
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PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

 CT INNOVATIONS	TITLE: 4" HEIGHT TTF SERIES 60° VERTICAL INSIDE BEND		
	DRAWN BY/DATE: LW 22AUG2023	SIZE: B	DWG. NO.: CTI-S45994
APPROVED BY/DATE: JDG 22AUG2023	SCALE: NTS	CAD FILE NAME: 60deg VI CAD SAVE DATE: Tuesday, August 22, 2023 4:09:44 PM	SHEET: 1 OF 1

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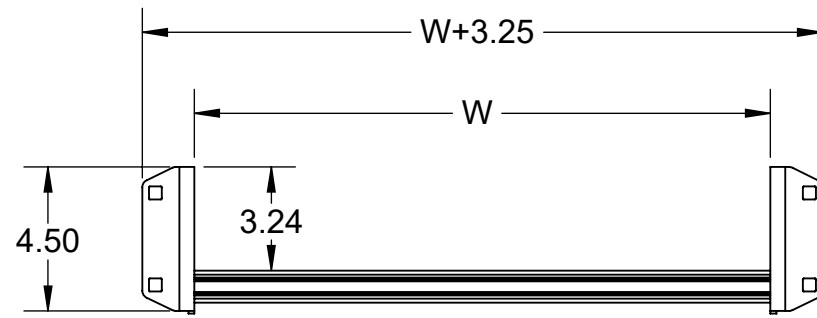
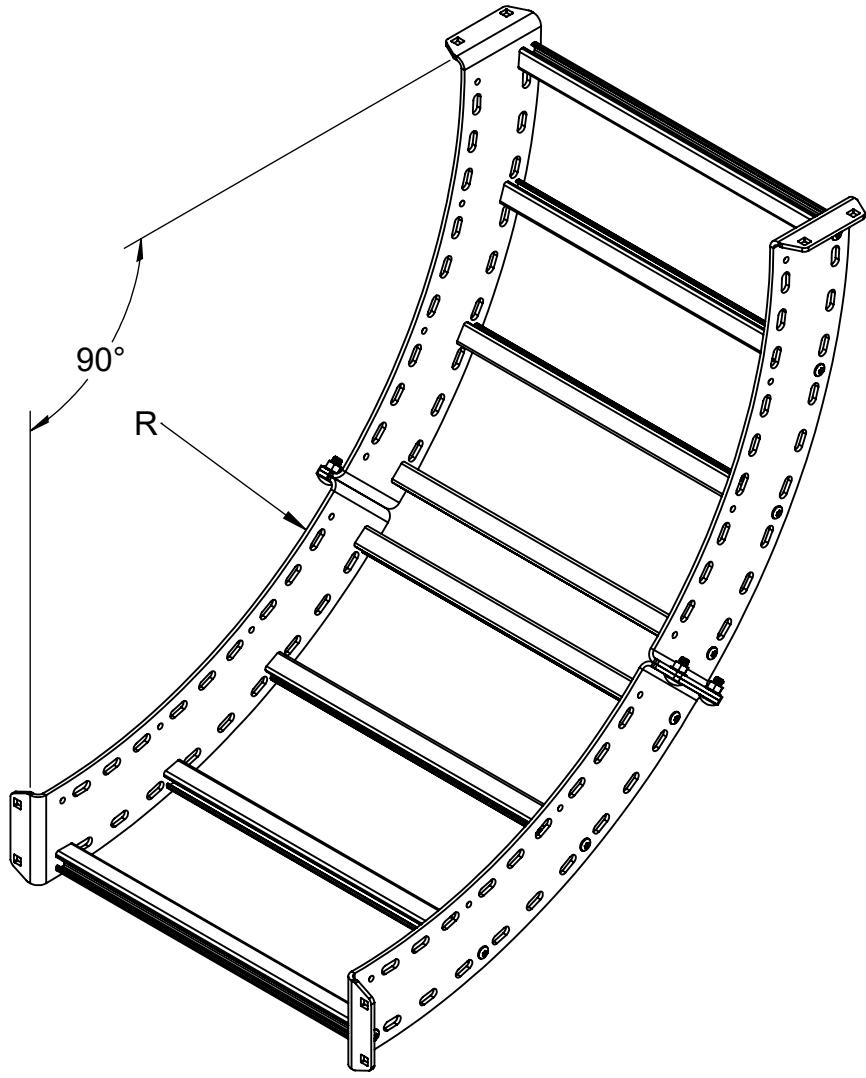
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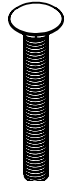



SECTION VIEW

TTF - 4 X 06 - 90 VI 12 - AL


SERIES TTF = TOUGHTray FITTING	NOMINAL HEIGHT (H) 4 = 4"	NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"	ANGLE 90 = 90°	TYPE VI = VERTICAL INSIDE BEND	RADIUS (R) 12 = 12" 24 = 24" 36 = 36"	MATERIAL AL = ALUMINUM
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HARDWARE INCLUDED:

-  - (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT
-  - (8EA) TA38FNHX-S6
3/8 SERRATED FLANGE HEX NUT

PATENT PENDING

NOTES:
 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.			
 CT INNOVATIONS		TITLE: 4" HEIGHT TTF SERIES 90° VERTICAL INSIDE BEND	
DRAWN BY/DATE: LW 18AUG2023	SIZE: B	DWG. NO.: CTI-S45995	REV: B
APPROVED BY/DATE: JDG 18AUG2023	SCALE: NTS	CAD FILE NAME: 90deg VI CAD SAVE DATE: Tuesday, August 22, 2023 3:42:52 PM	SHEET: 1 OF 1

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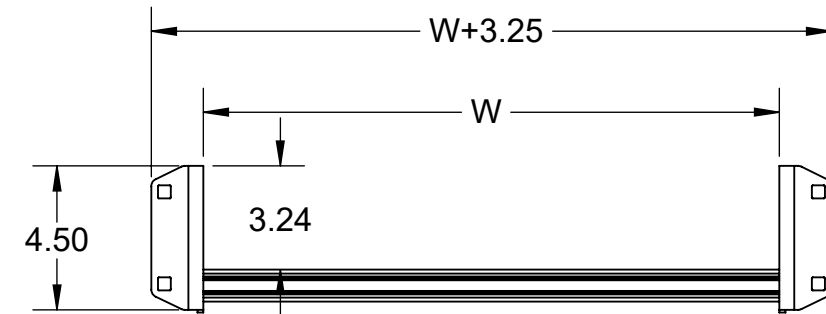
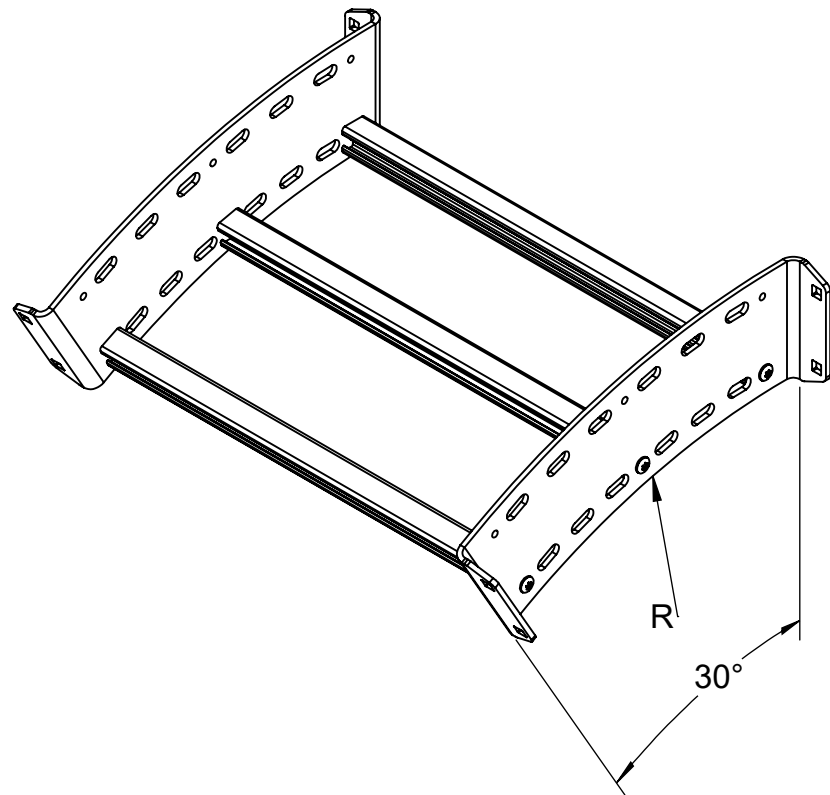
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SECTION VIEW

TTF - 4 X 06 - 30 VO 12 - AL

SERIES
TTF = TOUGHTray
FITTING

NOMINAL
HEIGHT (H)
4 = 4"

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

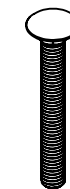
ANGLE
30 = 30°

TYPE
VO =
VERTICAL
OUTSIDE
BEND

RADIUS (R)
12 = 12"
24 = 24"
36 = 36"

MATERIAL
AL =
ALUMINUM

HARDWARE INCLUDED:



- (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT




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

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

 CT INNOVATIONS	TITLE: 4" HEIGHT TTF SERIES 30° VERTICAL OUTSIDE BEND		
	DRAWN BY/DATE: VA 22AUG2023	SIZE: B	DWG. NO.: CTI-S45996
APPROVED BY/DATE: JDG 22AUG2023	SCALE: NTS	CAD FILE NAME: 30deg VO CAD SAVE DATE: Tuesday, August 22, 2023 3:55:09 PM	SHEET: 1 OF 1

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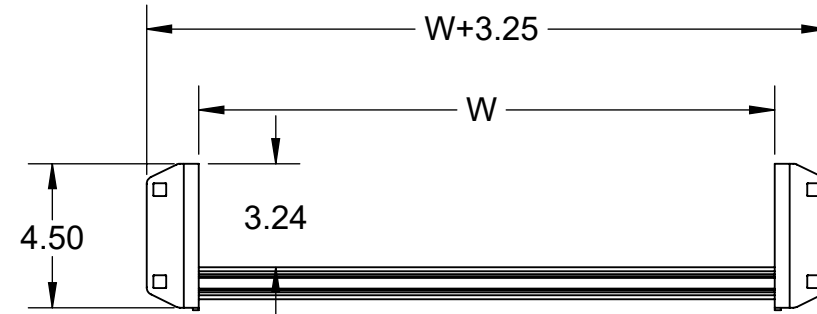
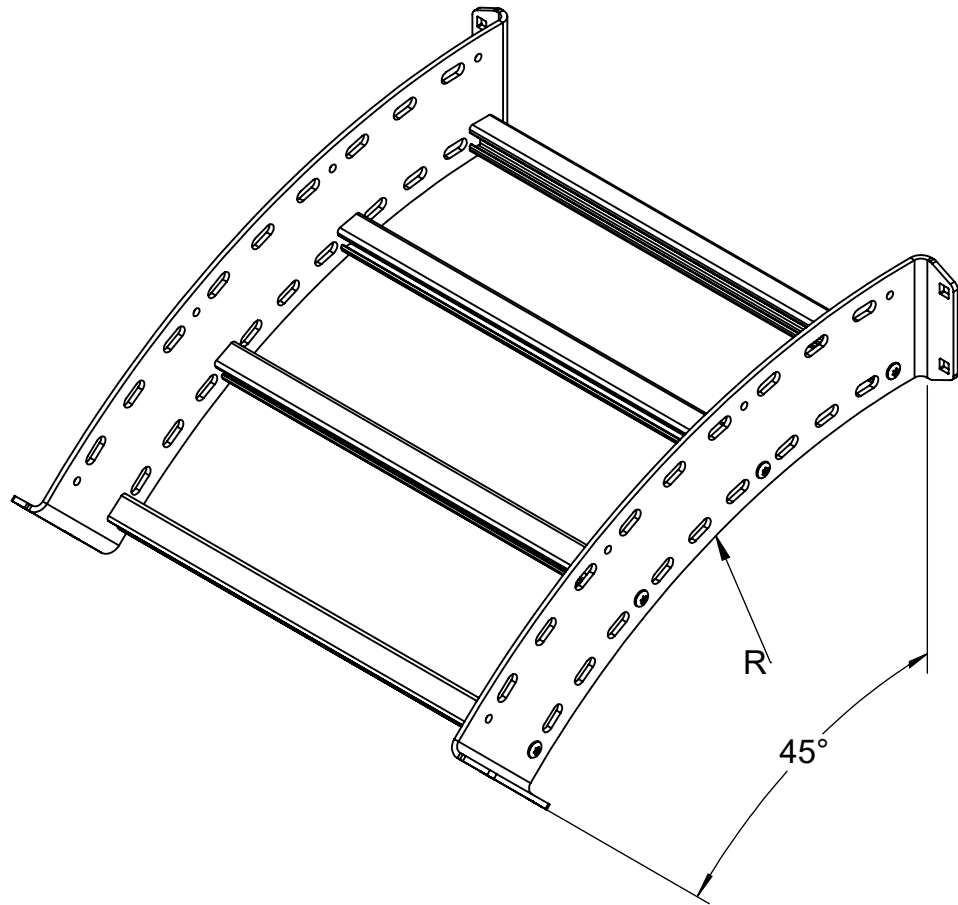
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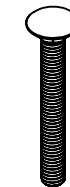


SECTION VIEW

TTF - 4 X 06 - 45 VO 12 - AL

SERIES TTF = TOUGHTray FITTING	NOMINAL HEIGHT (H) 4 = 4"	NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"	ANGLE 45 = 45°	TYPE VO = VERTICAL OUTSIDE BEND	RADIUS (R) 12 = 12" 24 = 24" 36 = 36"	MATERIAL AL = ALUMINUM
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HARDWARE INCLUDED:



- (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT




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

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.			
 CT INNOVATIONS		TITLE: 4" HEIGHT TTF SERIES 45° VERTICAL OUTSIDE BEND	
DRAWN BY/DATE: LW 18AUG2023	SIZE: B	DWG. NO.: CTI-S45997_B	REV: B
APPROVED BY/DATE: JDG 18AUG2023	SCALE: NTS	CAD FILE NAME: 45deg VO CAD SAVE DATE: Tuesday, August 22, 2023 4:14:07 PM	SHEET: 1 OF 1

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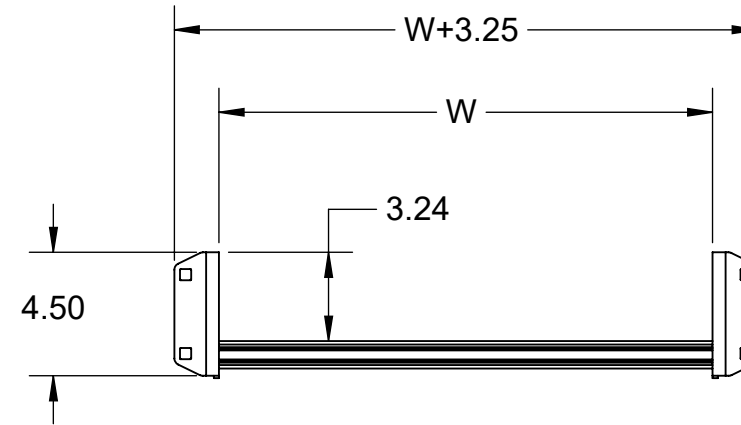
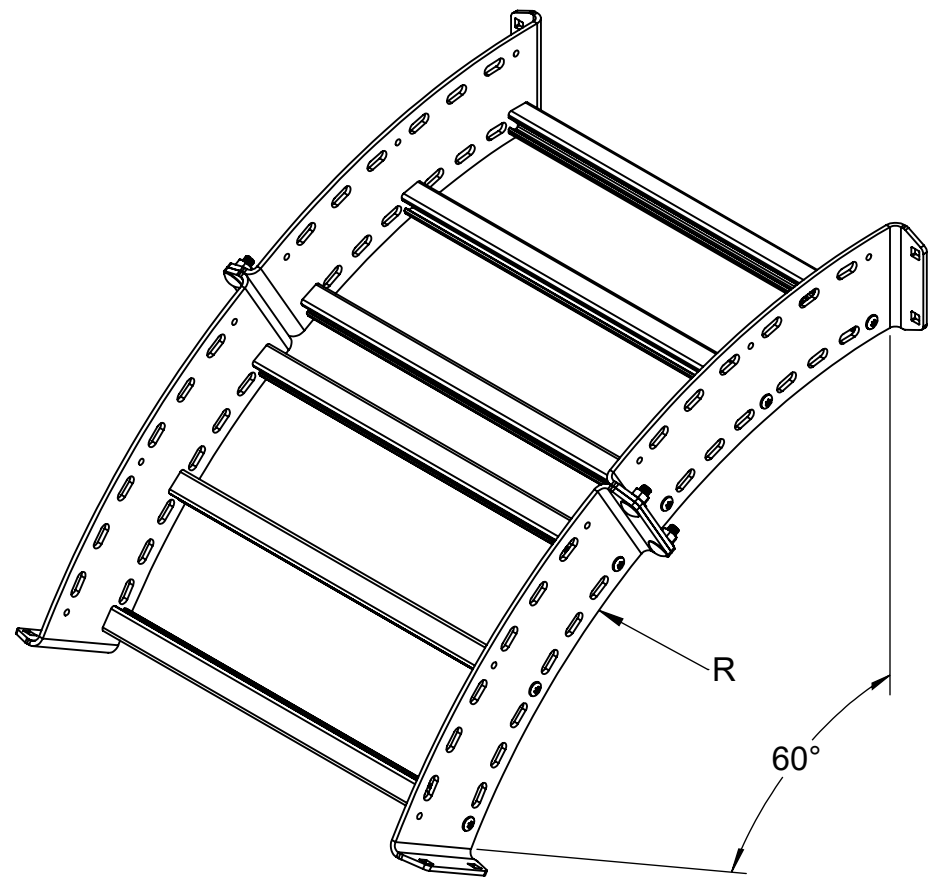
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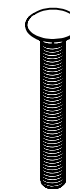
2

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SECTION VIEW

HARDWARE INCLUDED:



- (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT



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

TTF - 4 X 06 - 60 VO 12 - AL

SERIES
TTF = TOUGHTray
FITTING

NOMINAL
HEIGHT (H)
4 = 4"

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

ANGLE
60 = 60°

TYPE
VO =
VERTICAL
OUTSIDE
BEND

RADIUS (R)
12 = 12"
24 = 24"
36 = 36"


MATERIAL
AL =
ALUMINUM

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

 CT INNOVATIONS	TITLE: 4" HEIGHT TTF SERIES 60° VERTICAL OUTSIDE BEND		
	DRAWN BY/DATE: LW 22AUG2023	SIZE: B	DWG. NO.: CTI-S45998
APPROVED BY/DATE: JDG 22AUG2023	SCALE: NTS	CAD FILE NAME: 60deg VO CAD SAVE DATE: Tuesday, August 22, 2023 1:47:27 PM	SHEET: 1 OF 1

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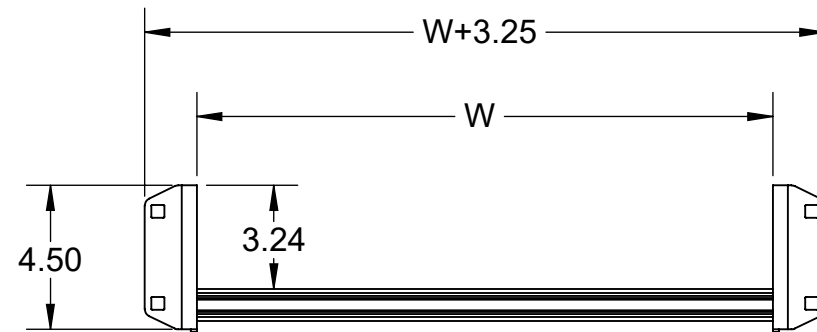
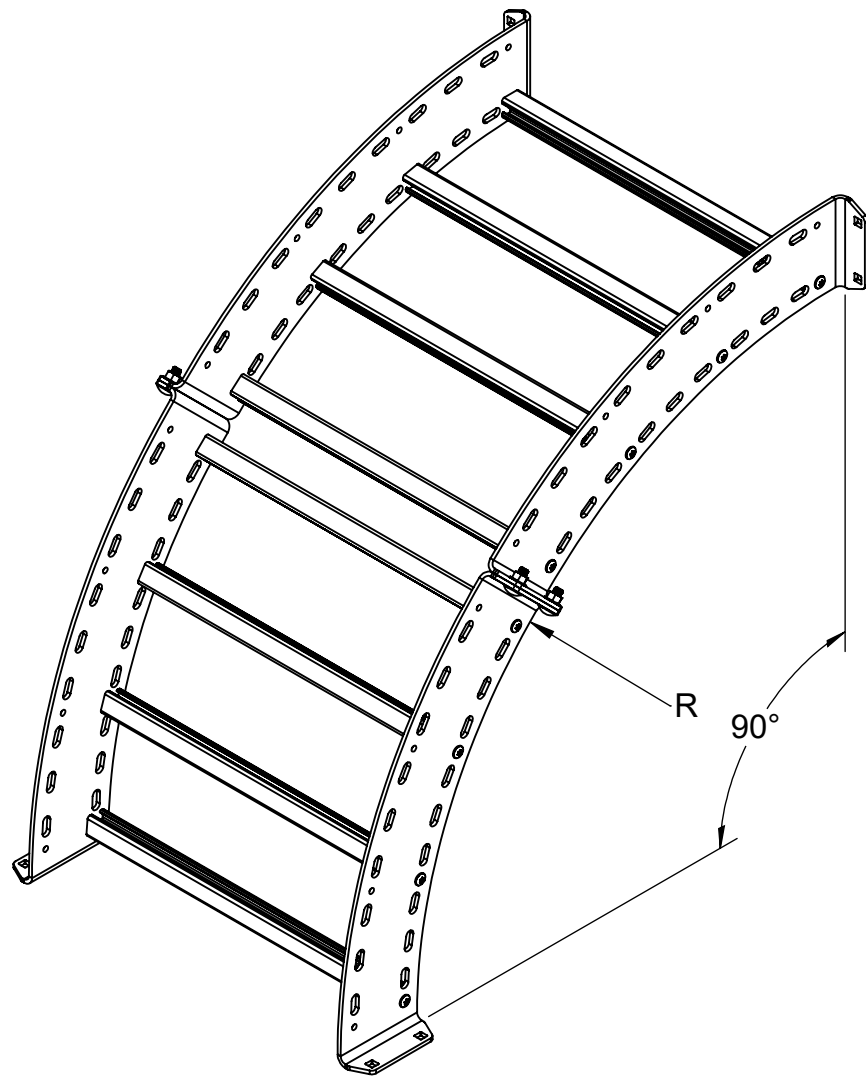
C

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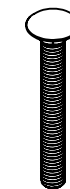
A

A



SECTION VIEW

HARDWARE INCLUDED:



- (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT



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

TTF - 4 X 06 - 90 VO 12 - AL

<p>SERIES TTF = TOUGHTray FITTING</p>	<p>NOMINAL HEIGHT (H) 4 = 4"</p>	<p>NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"</p>	<p>ANGLE 90 = 90°</p>	<p>TYPE VO = VERTICAL OUTSIDE BEND</p>	<p>RADIUS (R) 12 = 12" 24 = 24" 36 = 36"</p>	<p>MATERIAL AL = ALUMINUM</p>
--	---	--	----------------------------------	---	---	--

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

	<p>TITLE: 4" HEIGHT TTF SERIES 90° VERTICAL OUTSIDE BEND</p>		
	<p>DRAWN BY/DATE: VA 22AUG2023</p>	<p>SIZE: B</p>	<p>DWG. NO.: CTI-S45999</p>
<p>APPROVED BY/DATE: JDG 22AUG2023</p>	<p>SCALE: NTS</p>	<p><small>CAD FILE NAME: 90deg VO CAD SAVE DATE: Tuesday, August 22, 2023 4:15:32 PM</small></p>	<p>SHEET: 1 OF 1</p>

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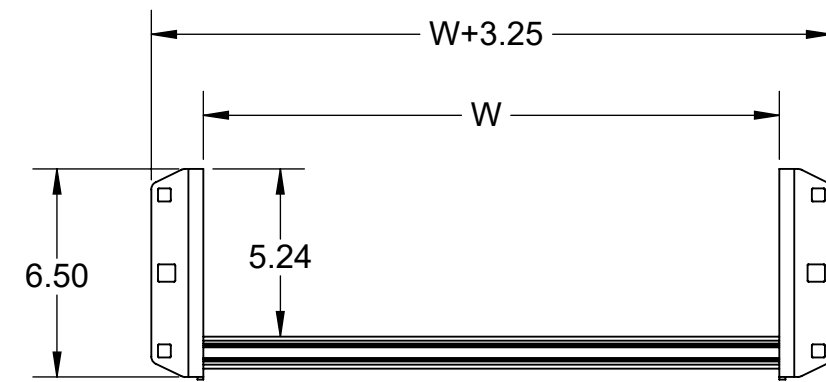
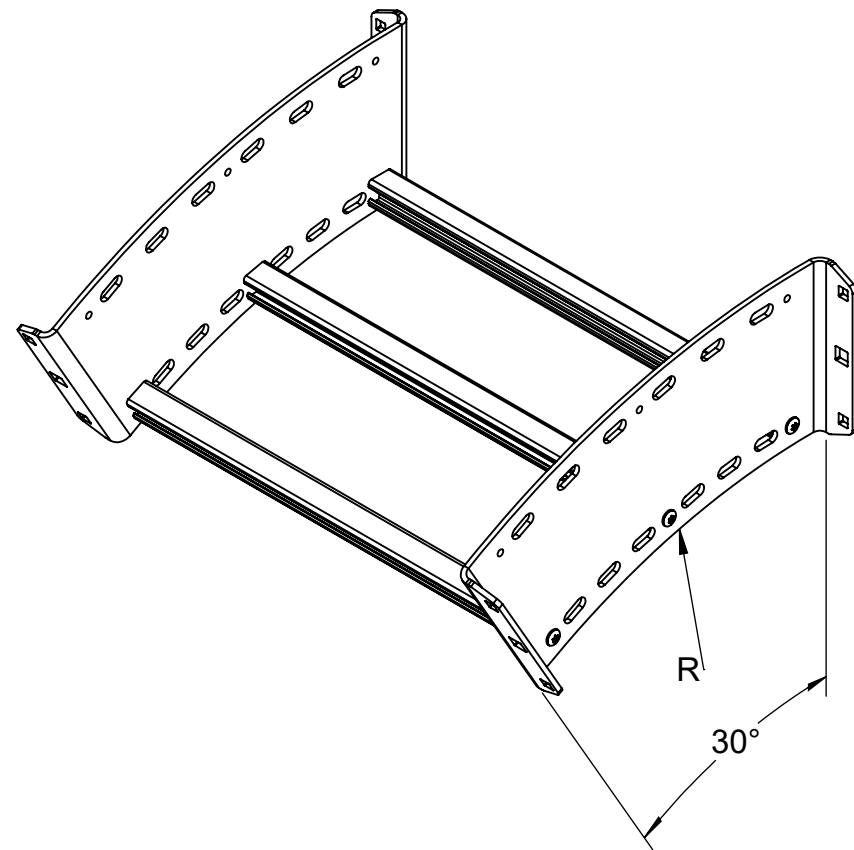
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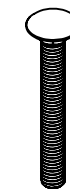


SECTION VIEW

TTF - 6 X 06 - 30 VO 12 - AL

SERIES TTF = TOUGHTray FITTING	NOMINAL HEIGHT (H) 6 = 6"	NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"	ANGLE 30 = 30°	TYPE VO = VERTICAL OUTSIDE BEND	RADIUS (R) 12 = 12" 24 = 24" 36 = 36"	MATERIAL AL = ALUMINUM
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HARDWARE INCLUDED:



- (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT




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

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

 CT INNOVATIONS	TITLE: 6" HEIGHT TTF SERIES 30° VERTICAL OUTSIDE BEND		
	DRAWN BY/DATE: LW 18AUG2023	SIZE: B	DWG. NO.: CTI-S45988
APPROVED BY/DATE: JDG 18AUG2023	SCALE: NTS	CAD FILE NAME: 30deg VO CAD SAVE DATE: Tuesday, August 22, 2023 3:36:31 PM	SHEET: 1 OF 1

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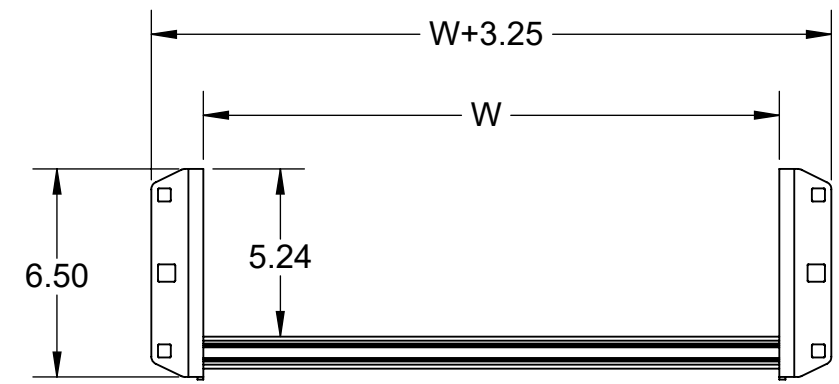
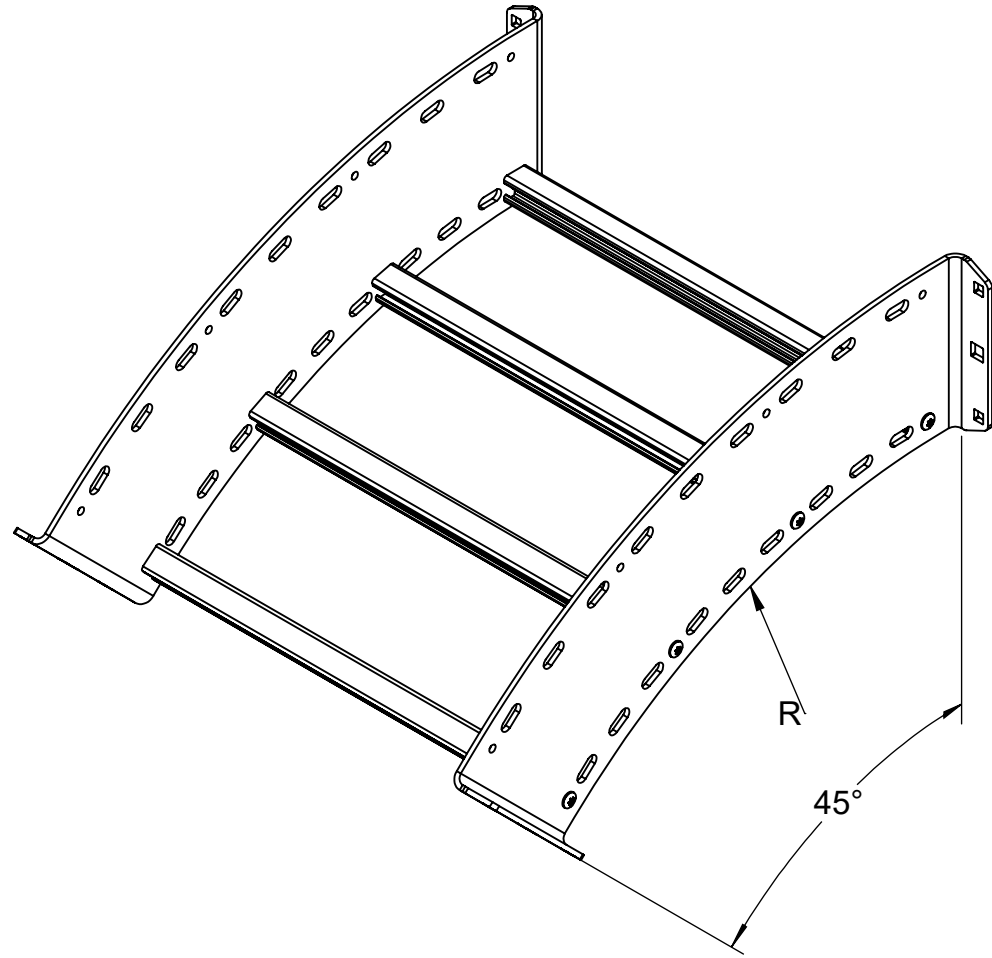
5

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1



SECTION VIEW

TTF - 6 X 06 - 45 VO 12 - AL

SERIES
TTF = TOUGHTray
FITTING

NOMINAL
HEIGHT (H)
6 = 6"

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

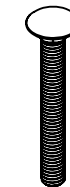
ANGLE
45 = 45°

TYPE
VO =
VERTICAL
OUTSIDE
BEND

RADIUS (R)
12 = 12"
24 = 24"
36 = 36"

MATERIAL
AL =
ALUMINUM

HARDWARE INCLUDED:



- (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT




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

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

 CT INNOVATIONS	TITLE: 6" HEIGHT TTF SERIES 45° VERTICAL OUTSIDE BEND		
	DRAWN BY/DATE: LW 18AUG2023	SIZE: B	DWG. NO.: CTI-S45989
APPROVED BY/DATE: JDG 18AUG2023	SCALE: NTS	CAD FILE NAME: 45deg VO CAD SAVE DATE: Tuesday, August 22, 2023 3:37:08 PM	SHEET: 1 OF 1

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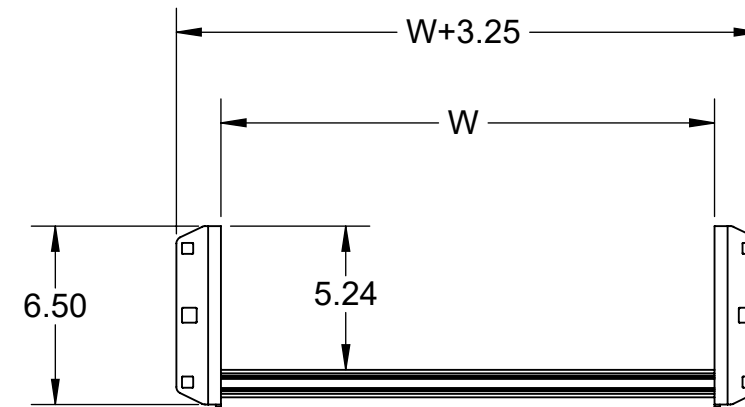
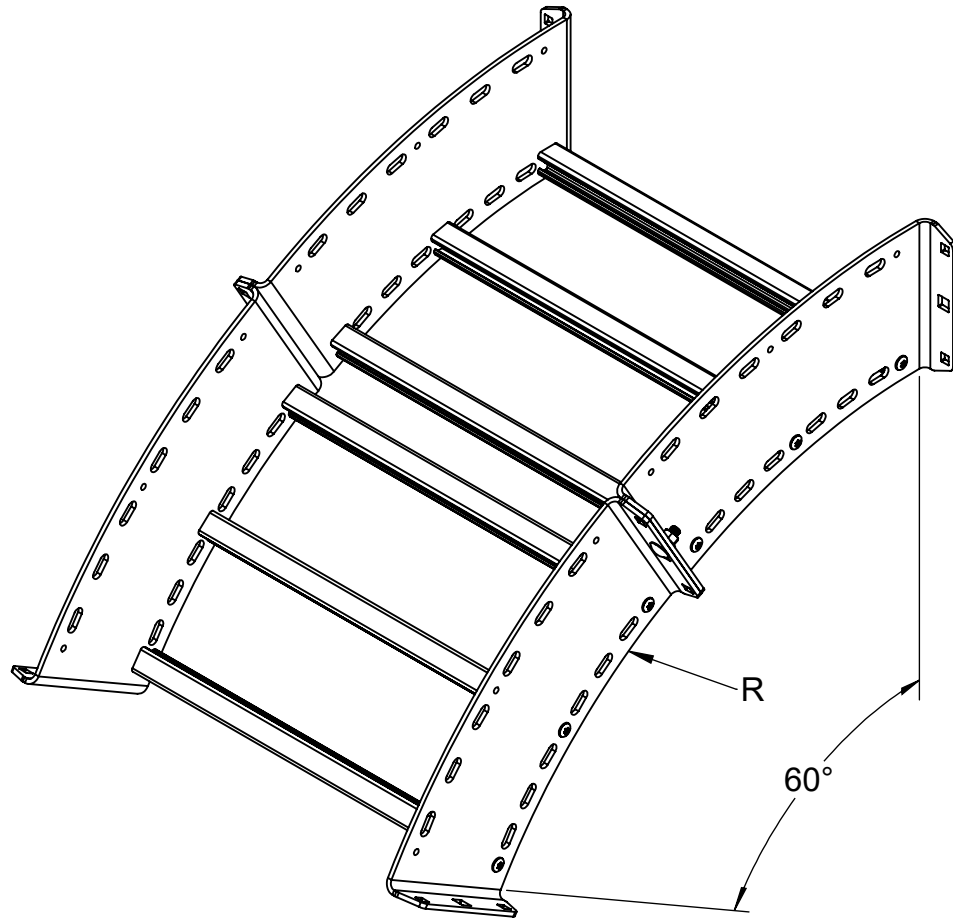
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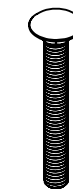
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SECTION VIEW

HARDWARE INCLUDED:



- (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT



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

TTF - 6 X 06 - 60 VO 12 - AL


SERIES TTF = TOUGHTray FITTING	NOMINAL HEIGHT (H) 6 = 6"	NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"	ANGLE 60 = 60°	TYPE VO = VERTICAL OUTSIDE BEND	RADIUS (R) 12 = 12" 24 = 24" 36 = 36"	MATERIAL AL = ALUMINUM
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PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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.

 CT INNOVATIONS	TITLE: 6" HEIGHT TTF SERIES 60° VERTICAL OUTSIDE BEND		
	DRAWN BY/DATE: LW 22AUG2023	SIZE: B	DWG. NO.: CTI-S45990
APPROVED BY/DATE: JDG 22AUG2023	SCALE: NTS	CAD FILE NAME: 60deg VO CAD SAVE DATE: Tuesday, August 22, 2023 3:38:08 PM	SHEET: 1 OF 1

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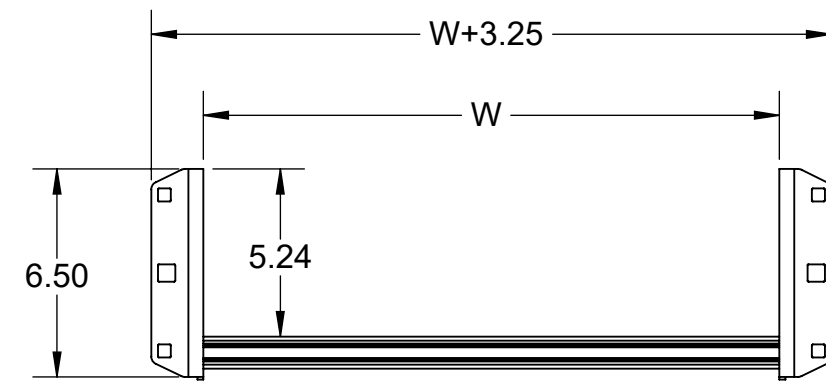
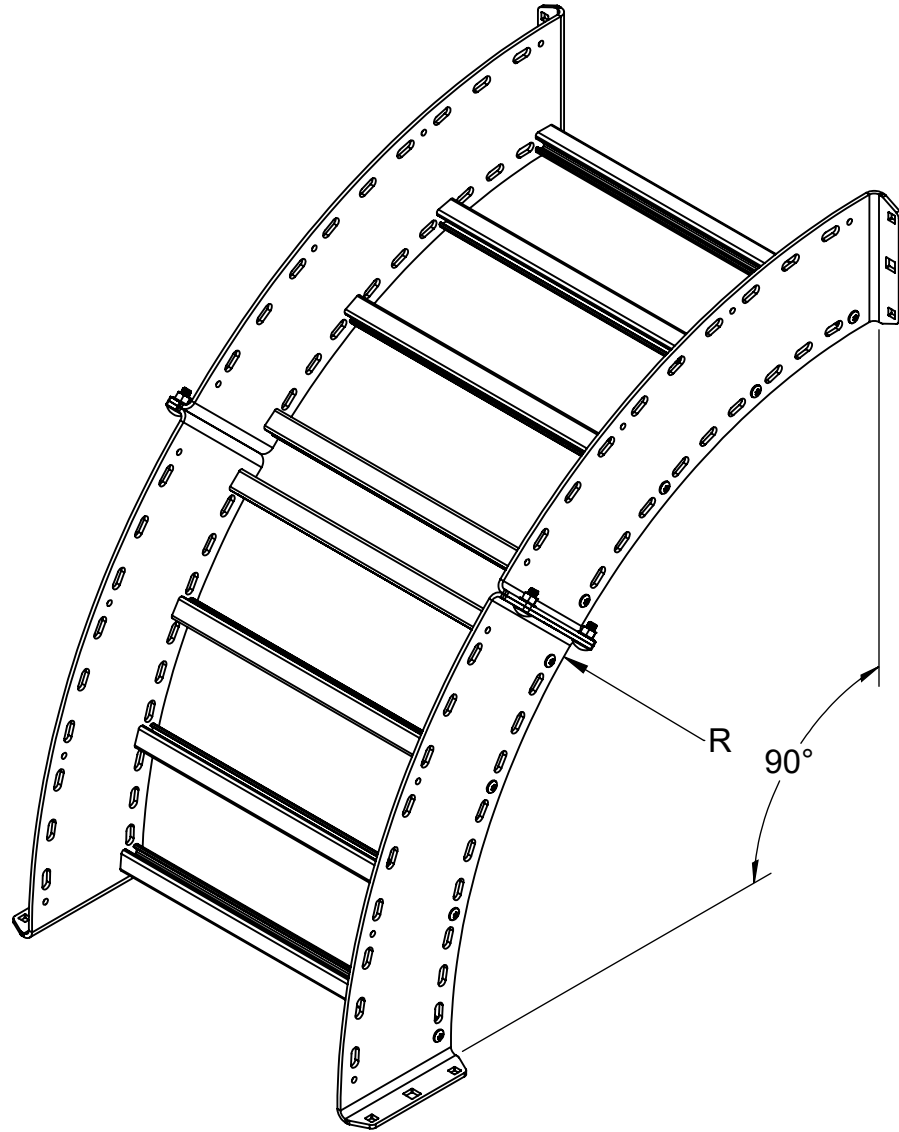
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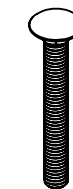


SECTION VIEW

TTF - 6 X 06 - 90 VO 12 - AL

<p>SERIES TTF = TOUGHTray FITTING</p>	<p>NOMINAL HEIGHT (H) 6 = 6"</p>	<p>NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"</p>	<p>ANGLE 90 = 90°</p>	<p>TYPE VO = VERTICAL OUTSIDE BEND</p>	<p>RADIUS (R) 12 = 12" 24 = 24" 36 = 36"</p>	<p>MATERIAL AL = ALUMINUM</p>
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HARDWARE INCLUDED:



- (8EA) TA38SNCB300-S6
3/8 X 3.0" SQUARE NECK CARRIAGE BOLT



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

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) CONTACT CT INNOVATIONS FOR OTHER SIZE OPTIONS.

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: 6" HEIGHT TTF SERIES 90° VERTICAL OUTSIDE BEND		
	DRAWN BY/DATE: LW 18AUG2023	SIZE: B	DWG. NO.: CTI-S45991
APPROVED BY/DATE: JDG 18AUG2023	SCALE: NTS	CAD FILE NAME: 90deg VO CAD SAVE DATE: Tuesday, August 22, 2023 3:38:56 PM	SHEET: 1 OF 1

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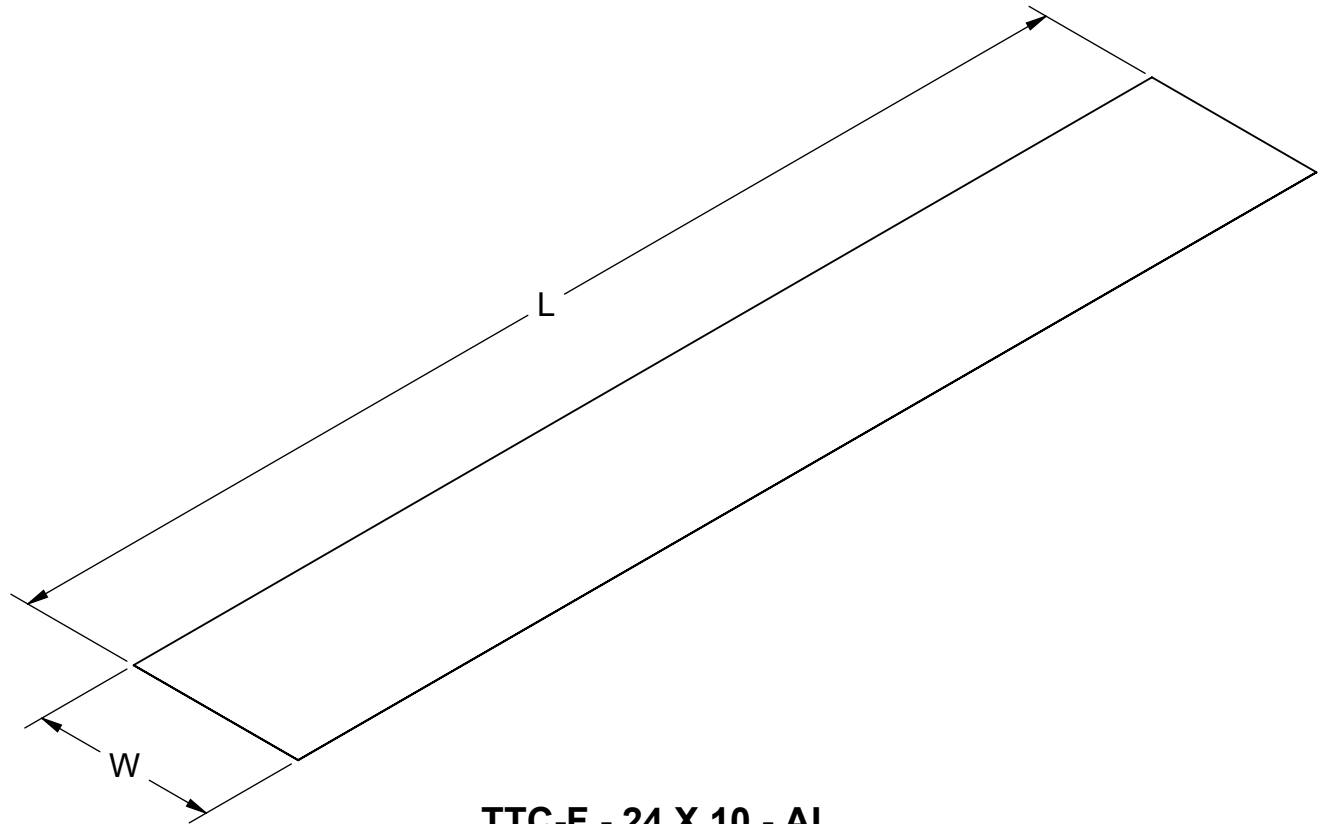
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TABLE 1 - NUMBER OF FIXING SCREWS		
TYPE OF APPLICATIONS	COVER LENGTH (FT)	SCREW QUANTITY (EA)
STANDARD	10	6
HIGH WIND LOAD	10	22



TTC-F - 24 X 10 - AL

SERIES
TTC-F = TOUGHTray
STRAIGHT SECTION
FLAT COVER

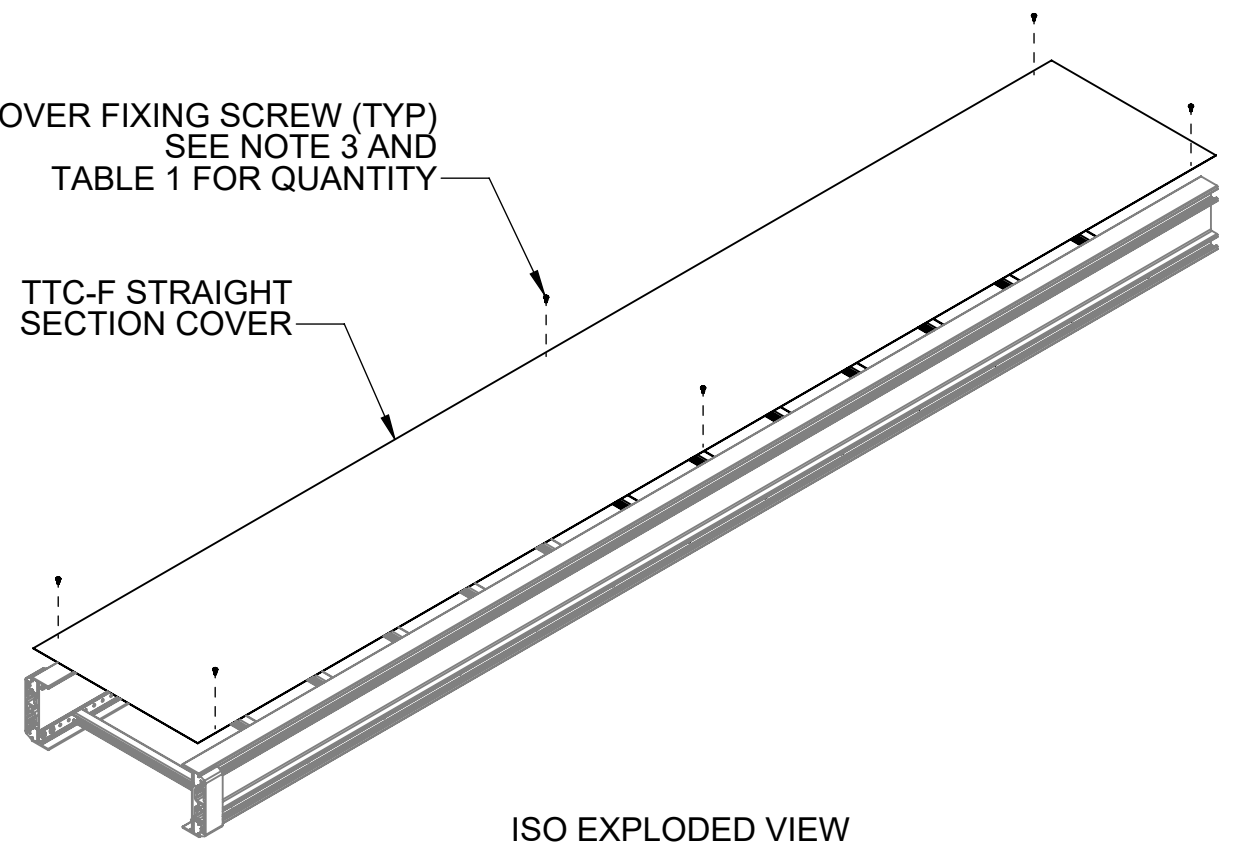
NOMINAL
WIDTH (W)
06 = 6"
09 = 9"
12 = 12"
18 = 18"
24 = 24"
30 = 30"
36 = 36"

NOMINAL
LENGTH (L)
10 = 10 FT

MATERIAL
AL = ALUMINUM

COVER FIXING SCREW (TYP)
SEE NOTE 3 AND
TABLE 1 FOR QUANTITY

TTC-F STRAIGHT
SECTION COVER



ISO EXPLODED VIEW

PATENT PENDING

NOTE(S):

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED WITH 6 PCS TORX HEAD SELF DRILLING SCREW. FOR HIGH WIND LOAD APPLICATION, ADDITIONAL 16 PCS FIXING SCREW TO BE ORDERED SEPARATELY.
 - a. STANDARD APPLICATION/LOW WIND LOAD - PROVIDE FIXING SCREWS AT EACH END AND AT THE CENTER HOLES OF THE COVER.
 - b. HIGH WIND LOAD APPLICATION - PROVIDE FIXING SCREW SPACED EVERY 12 INCHES

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: TTC-F-(W)X10-AL TTC-F SERIES STRAIGHT SECTION FLAT COVER		
	DRAWN BY/DATE: LW 20DEC2023	SIZE: B	DWG. NO.: CTI-S49999
APPROVED BY/DATE: JDG 25OCT2023	SCALE: NTS	CAD FILE NAME: TTC-F-(W)X(L)-AL CAD SAVE DATE: Wednesday, December 20, 2023 12:22:56 PM	SHEET: 1 OF 1

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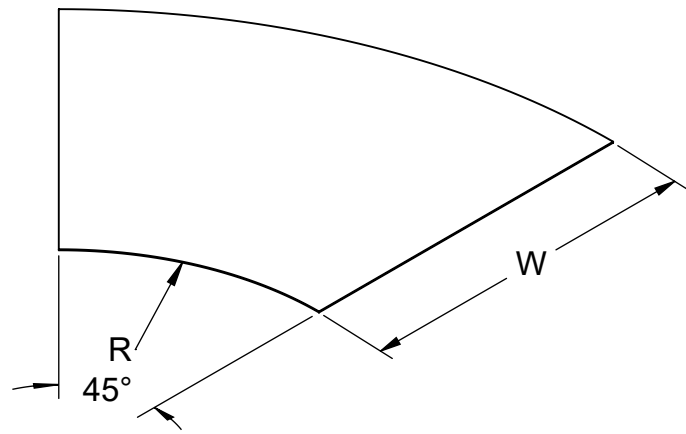
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TTC - F - 12 - 30 HB 24 - AL

<p>SERIES TTC-F = TOUGHTray FLAT COVER</p>	<p>NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"</p>	<p>ANGLE 30 = 30°</p>	<p>TYPE HB = HORIZONTAL BEND</p>	<p>RADIUS (R) 12 = 12" 24 = 24" 36 = 36"</p>	<p>MATERIAL AL = ALUMINUM</p>
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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.

 CT INNOVATIONS	<p>TITLE: TTC-F-(W)-30HB(R) TTC-F SERIES HORIZONTAL BEND FLAT COVER</p>			
	<p>DRAWN BY/DATE: LW 20DEC2023</p>	<p>SIZE: B</p>	<p>DWG. NO.: CTI-S49994</p>	<p>REV: C</p>
	<p>APPROVED BY/DATE: JDG 24OCT2023</p>	<p>SCALE: NTS</p>	<p>CAD FILE NAME: TTC-(W)-(A)HB(R) CAD SAVE DATE: Wednesday, December 20, 2023 2:28:59 PM</p>	<p>SHEET: 1 OF 1</p>

NOTE(S):
 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
 3) SUPPLIED WITH COVER CLAMPS.

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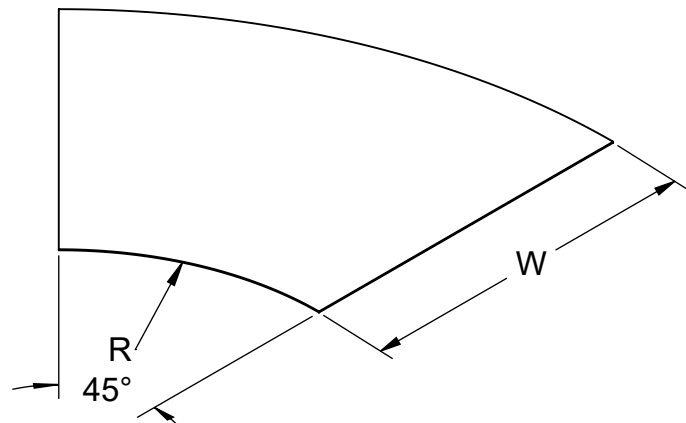
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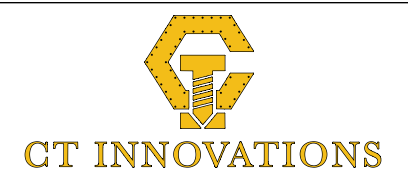


TTC - F - 12 - 45 HB 24 - AL

<p>SERIES TTC-F = TOUGHTray FLAT COVER</p>	<p>NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"</p>	<p>ANGLE 45 = 45°</p>	<p>TYPE HB = HORIZONTAL BEND</p>	<p>RADIUS (R) 12 = 12" 24 = 24" 36 = 36"</p>	<p>MATERIAL AL = ALUMINUM</p>
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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:
TTC-F-(W)-45HB(R)
TTC-F SERIES HORIZONTAL BEND FLAT COVER

NOTE(S):
1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
2) ALL DIMENSIONS SHOWN ARE NOMINAL.
3) SUPPLIED WITH COVER CLAMPS.

<p>DRAWN BY/DATE: LW 20DEC2023</p>	<p>SIZE: B</p>	<p>DWG. NO.: CTI-S49995</p>	<p>REV: C</p>
<p>APPROVED BY/DATE: JDG 24OCT2023</p>	<p>SCALE: NTS</p>	<p><small>CAD FILE NAME: TTC-(W)-(A)HB(R)</small> <small>CAD SAVE DATE: Wednesday, December 20, 2023 2:59:42 PM</small></p>	<p>SHEET: 1 OF 1</p>

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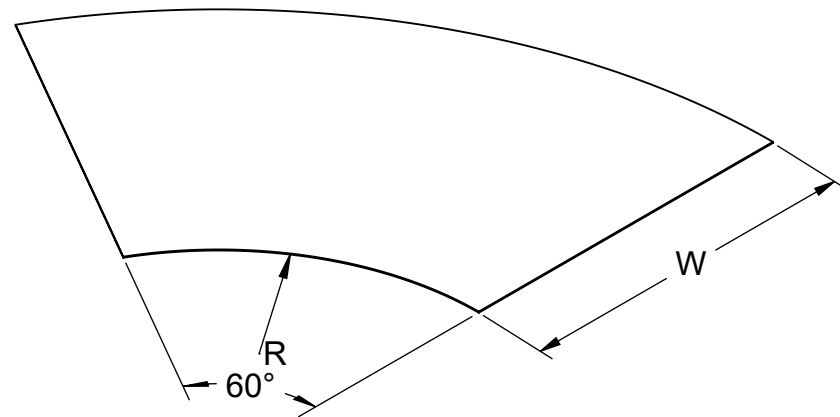
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TTC - F - 12 - 60 HB 24 - AL

SERIES
TTC-F = TOUGHTray
FLAT COVER

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

ANGLE
60 = 60°

TYPE
HB =
HORIZONTAL
BEND

RADIUS (R)
12 = 12"
24 = 24"
36 = 36"


MATERIAL
AL = ALUMINUM

PATENT PENDING

NOTE(S):

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED WITH COVER CLAMPS.
- 4) SUPPLIED IN 2 PCS (2 x 30°):
 - a. 24", 30", 36" WIDTH, 24" and 36" RADIUS

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.

 CT INNOVATIONS	TITLE: TTC-F-(W)-60HB(R) TTC-F SERIES HORIZONTAL BEND FLAT COVER		
	DRAWN BY/DATE: LW 20DEC2023	SIZE: B	DWG. NO.: CTI-S49996
APPROVED BY/DATE: JDG 24OCT2023	SCALE: NTS	CAD FILE NAME: TTC-(W)-(A)HB(R) CAD SAVE DATE: Wednesday, December 20, 2023 2:48:38 PM	SHEET: 1 OF 1

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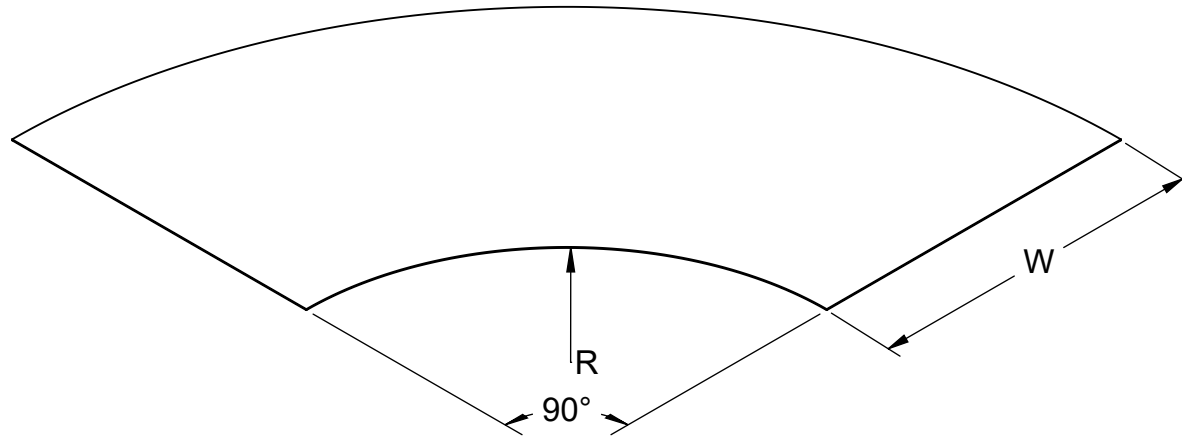
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TTC - F - 12 - 90 HB 24 - AL


<p>SERIES TTC-F = TOUGHTray FLAT COVER</p>	<p>NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"</p>	<p>ANGLE 90 = 90°</p>	<p>TYPE HB = HORIZONTAL BEND</p>	<p>RADIUS (R) 12 = 12" 24 = 24" 36 = 36"</p>	<p>MATERIAL AL = ALUMINUM</p>
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PATENT PENDING

NOTE(S):

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED WITH COVER CLAMPS.
- 4) SUPPLIED IN 2 PCS (2 x 45°):
 - a. 18", 24", 30", 36" WIDTH, 24" RADIUS
 - b. 6", 9", 12", 18", 24", 30", 36" WIDTH, 36" RADIUS

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.

 CT INNOVATIONS	<p>TITLE: TTC-F-(W)-90HB(R) TTC-F SERIES HORIZONTAL BEND FLAT COVER</p>		
<p>DRAWN BY/DATE: LW 20DEC2023</p>	<p>SIZE: B</p>	<p>DWG. NO.: CTI-S49997</p>	<p>REV: C</p>
<p>APPROVED BY/DATE: JDG 24OCT2023</p>	<p>SCALE: NTS</p>	<p>CAD FILE NAME: TTC-(W)-(A)HB(R) CAD SAVE DATE: Wednesday, December 20, 2023 2:58:56 PM</p>	<p>SHEET: 1 OF 1</p>

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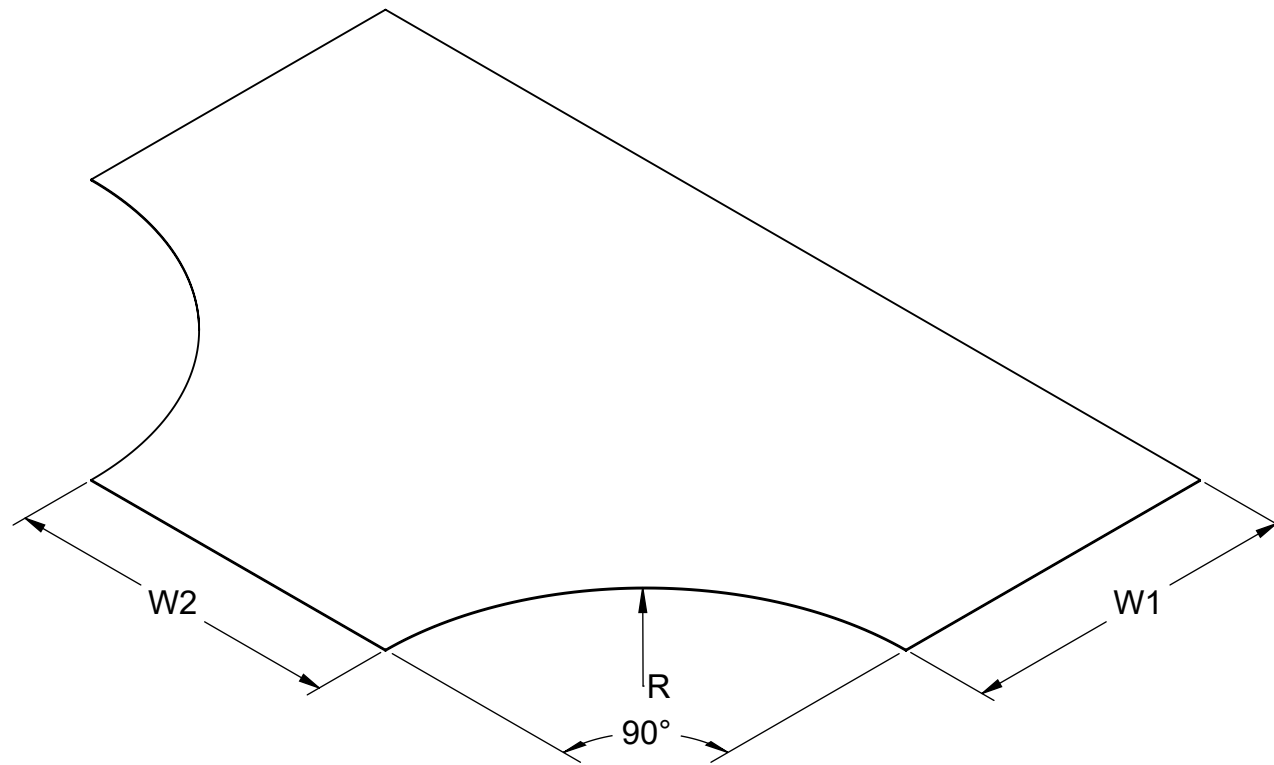
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TTC - F - 12 X 12 - HT 24 - AL

SERIES TTC-F = TOUGHTray FLAT COVER	NOMINAL WIDTH 1 (W1) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"	NOMINAL WIDTH 2 (W2) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"	TYPE HT = HORIZONTAL TEE	RADIUS (R) 12 = 12" 24 = 24" 36 = 36"	MATERIAL AL = ALUMINUM
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PATENT PENDING

NOTE(S):

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED WITH COVER CLAMPS.
- 4) SUPPLIED IN 2 PCS:
 - a. 30", 36" WIDTH, 12" RADIUS
 - b. 18", 24", 30", 36" WIDTH, 24" RADIUS
 - c. 6", 9", 12", 18", 24", 30", 36" WIDTH, 36" RADIUS

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.				
 CT INNOVATIONS	TITLE: TTC-F-(W1)X(W2)-HT(R) TTC-F SERIES HORIZONTAL TEE FLAT COVER			
	DRAWN BY/DATE: LW 20DEC2023	SIZE: B	DWG. NO.: CTI-S49984	REV: C
	APPROVED BY/DATE: JDG 31OCT2023	SCALE: NTS	CAD FILE NAME: TTC-(W)-90HT(R) CAD SAVE DATE: Wednesday, December 20, 2023 11:32:10 AM	SHEET: 1 OF 1

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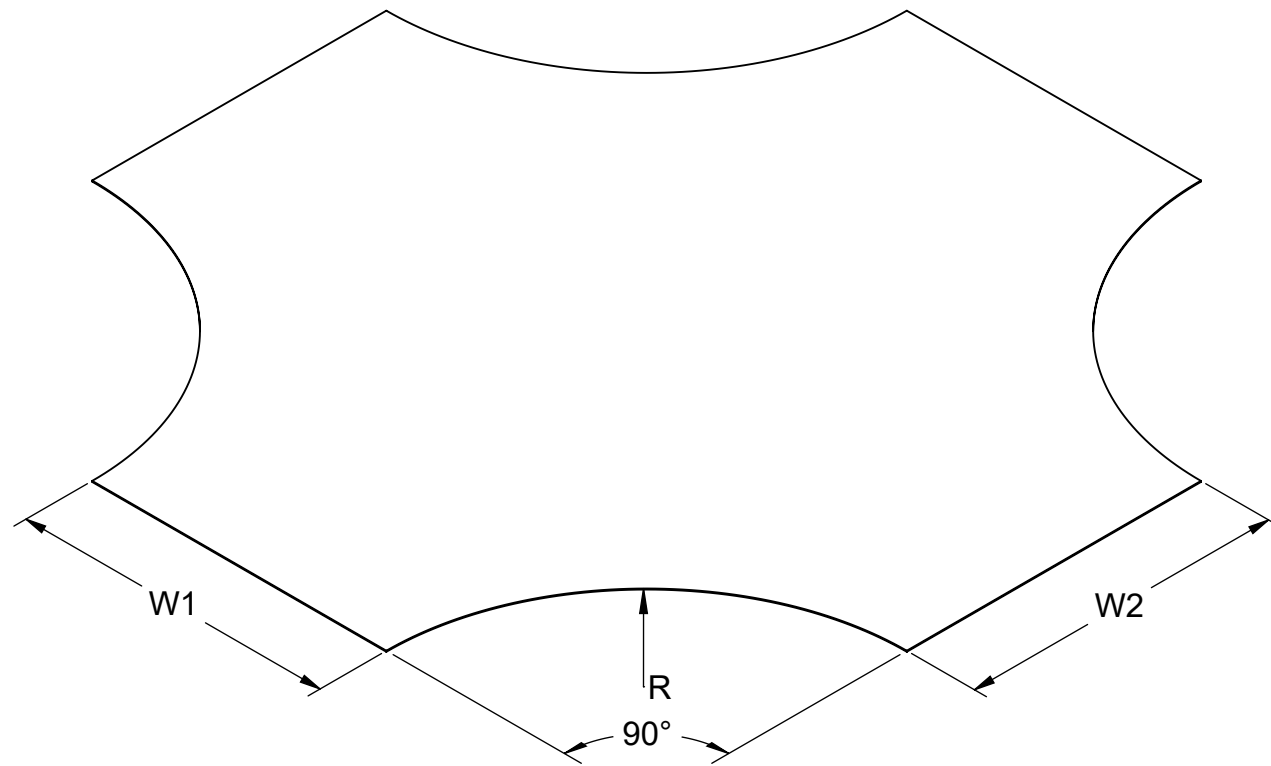
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TTC - F - 12 X 12 - HX 24 - AL

SERIES TTC-F = TOUGHTray FLAT COVER	NOMINAL WIDTH 1 (W1) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"	NOMINAL WIDTH 2 (W2) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"	TYPE HX = HORIZONTAL CROSS	RADIUS (R) 12 = 12" 24 = 24" 36 = 36"	MATERIAL AL = ALUMINUM
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PATENT PENDING

NOTE(S):

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED WITH COVER CLAMPS.
- 4) SUPPLIED IN 3 PCS:
 - a. 18", 24", 30", 36" WIDTH, 12" RADIUS
 - b. 6", 9", 12", 18", 24", 30", 36" WIDTH, 24" AND 36" RADIUS

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.			
 CT INNOVATIONS	TITLE: TTC-F-(W1)X(W2)-HX(R) TTC-F SERIES HORIZONTAL CROSS FLAT COVER		
	DRAWN BY/DATE: LW 20DEC2023	SIZE: B	DWG. NO.: CTI-S49985
APPROVED BY/DATE: JDG 31OCT2023	SCALE: NTS	CAD FILE NAME: TTC-(W)-90HX(R) CAD SAVE DATE: Wednesday, December 20, 2023 11:35:15 AM	SHEET: 1 OF 1

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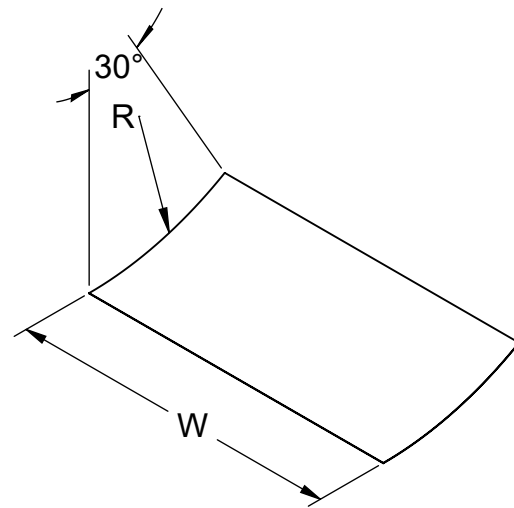
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TTC - F - 12 - 30 VI 24 - AL

<p>SERIES TTC-F = TOUGHTray FLAT COVER</p>	<p>NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"</p>	<p>ANGLE 30 = 30°</p>	<p>TYPE VI = VERTICAL INSIDE BEND</p>	<p>RADIUS (R) 12 = 12" 24 = 24" 36 = 36"</p>	<p>MATERIAL AL = ALUMINUM</p>
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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.

 CT INNOVATIONS		TTC-F-(W)-30VI(R) TTC-F SERIES VERTICAL INSIDE BEND FLAT COVER		
DRAWN BY/DATE: LW 20DEC2023	SIZE: B	DWG. NO.: CTI-S49986	REV: C	
APPROVED BY/DATE: JDG 24OCT2023	SCALE: NTS	CAD FILE NAME: TTC-(W)-(A)VI(R) CAD SAVE DATE: Wednesday, December 20, 2023 12:18:26 PM	SHEET: 1 OF 1	

NOTE(S):

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED WITH COVER CLAMPS.

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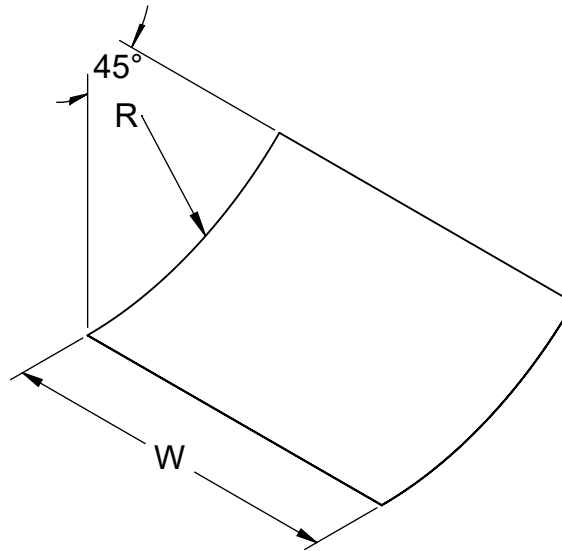
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TTC - F - 12 - 45 VI 24 - AL

SERIES
TTC-F = TOUGHTray
FLAT COVER

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

ANGLE
45 = 45°


TYPE
VI =
VERTICAL
INSIDE
BEND

RADIUS (R)
12 = 12"
24 = 24"
36 = 36"

MATERIAL
AL = ALUMINUM

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.

 CT INNOVATIONS	TITLE: TTC-F-(W)-45VI(R) TTC-F SERIES VERTICAL INSIDE BEND FLAT COVER			
	DRAWN BY/DATE: LW 20DEC2023	SIZE: B	DWG. NO.: CTI-S49987	REV: C
	APPROVED BY/DATE: JDG 24OCT2023	SCALE: NTS	CAD FILE NAME: TTC-(W)-(A)VI(R) CAD SAVE DATE: Wednesday, December 20, 2023 12:19:20 PM	SHEET: 1 OF 1

NOTE(S):

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED WITH COVER CLAMPS.

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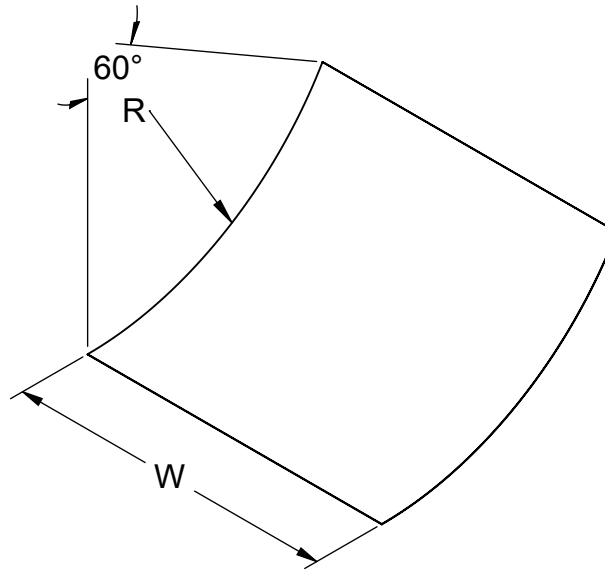
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TTC - F - 12 - 60 VI 24 - AL

<p>SERIES TTC-F = TOUGHTray FLAT COVER</p>	<p>NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"</p>	<p>ANGLE 60 = 60°</p>	<p>TYPE VI = VERTICAL INSIDE BEND</p>	<p>RADIUS (R) 12 = 12" 24 = 24" 36 = 36"</p>	<p>MATERIAL AL = ALUMINUM</p>
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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:
TTC-F-(W)-60VI(R)
TTC-F SERIES VERTICAL INSIDE BEND FLAT COVER

NOTE(S):
1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
2) ALL DIMENSIONS SHOWN ARE NOMINAL.
3) SUPPLIED WITH COVER CLAMPS.

<p>DRAWN BY/DATE: LW 20DEC2023</p>	<p>SIZE: B</p>	<p>DWG. NO.: CTI-S49988</p>	<p>REV: C</p>
<p>APPROVED BY/DATE: JDG 24OCT2023</p>	<p>SCALE: NTS</p>	<p>CAD FILE NAME: TTC-(W)-(A)VI(R) CAD SAVE DATE: Wednesday, December 20, 2023 11:58:54 AM</p>	<p>SHEET: 1 OF 1</p>

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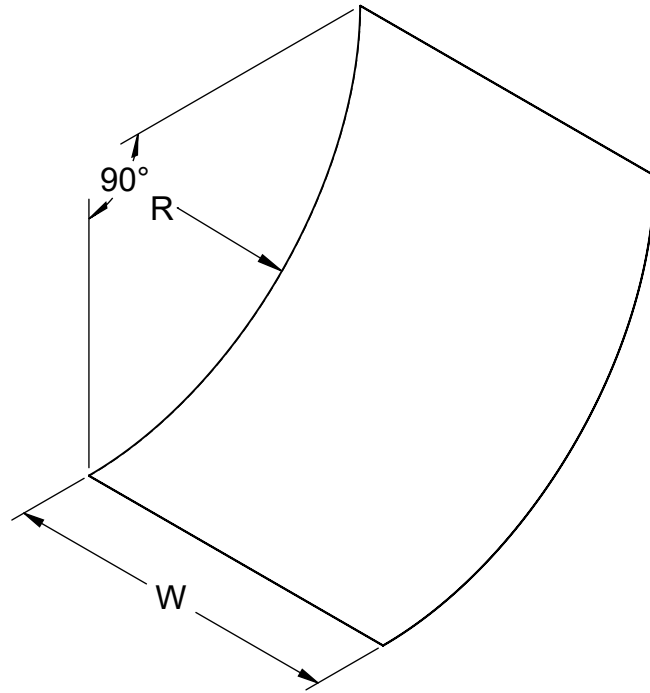
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TTC - F - 12 - 90 VI 24 - AL

<p>SERIES TTC-F = TOUGHTray FLAT COVER</p>	<p>NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"</p>	<p>ANGLE 90 = 90°</p>	<p>TYPE VI = VERTICAL INSIDE BEND</p>	<p>RADIUS (R) 12 = 12" 24 = 24" 36 = 36"</p>	<p>MATERIAL AL = ALUMINUM</p>
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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.

 CT INNOVATIONS	<p>TITLE: TTC-F-(W)-90VI(R) TTC-F SERIES VERTICAL INSIDE BEND FLAT COVER</p>			
	<p>DRAWN BY/DATE: LW 20DEC2023</p>	<p>SIZE: B</p>	<p>DWG. NO.: CTI-S49989</p>	<p>REV: C</p>
	<p>APPROVED BY/DATE: JDG 24OCT2023</p>	<p>SCALE: NTS</p>	<p>CAD FILE NAME: TTC-(W)-(A)VI(R) CAD SAVE DATE: Wednesday, December 20, 2023 11:49:35 AM</p>	<p>SHEET: 1 OF 1</p>

NOTE(S):

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED WITH COVER CLAMPS.

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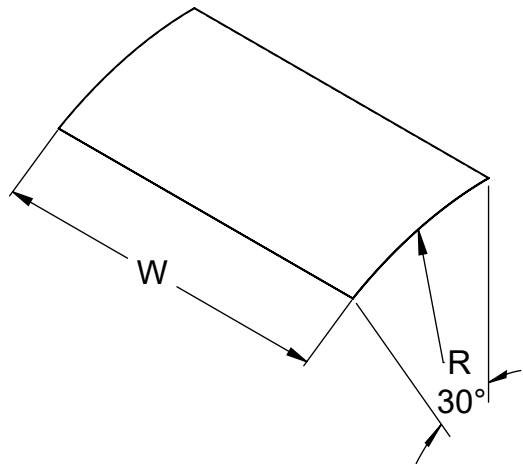
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TTC - F - 12 - 30 VO 24 - AL

<p>SERIES TTC-F = TOUGHTray FLAT COVER</p>	<p>NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"</p>	<p>ANGLE 30 = 30°</p>	<p>TYPE VO = VERTICAL OUTSIDE BEND</p>	<p>RADIUS (R) 12 = 12" 24 = 24" 36 = 36"</p>	<p>MATERIAL AL = ALUMINUM</p>
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PATENT PENDING

NOTE(S):
 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
 3) SUPPLIED WITH COVER CLAMPS.

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.			
 CT INNOVATIONS		TTC-F-(W)-30VO(R) TTC-F SERIES VERTICAL OUTSIDE BEND FLAT COVER	
DRAWN BY/DATE: LW 20DEC2023	SIZE: B	DWG. NO.: CTI-S49990	REV: C
APPROVED BY/DATE: JDG 24OCT2023	SCALE: NTS	CAD FILE NAME: TTC-(W)-(A)V(R) CAD SAVE DATE: Wednesday, December 20, 2023 12:17:34 PM	SHEET: 1 OF 1

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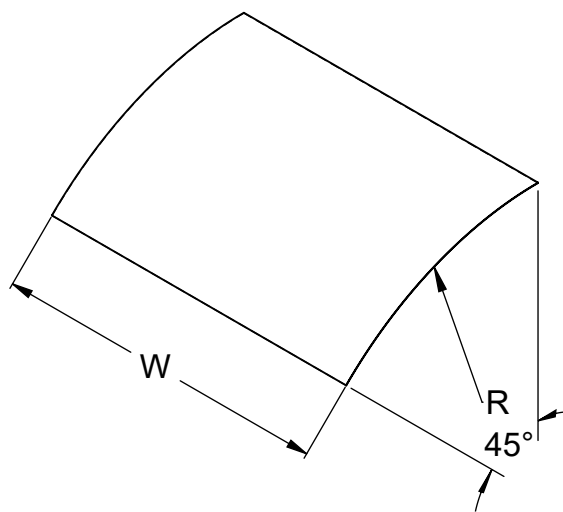
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TTC - F - 12 - 45 VO 24 - AL

SERIES
TTC-F = TOUGHTray
FLAT COVER

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

ANGLE
45 = 45°


TYPE
VO =
VERTICAL
OUTSIDE
BEND

RADIUS (R)
12 = 12"
24 = 24"
36 = 36"

MATERIAL
AL = ALUMINUM

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.

 CT INNOVATIONS	TITLE: TTC-F-(W)-45VO(R) TTC-F SERIES VERTICAL OUTSIDE BEND FLAT COVER		
	DRAWN BY/DATE: LW 20DEC2023	SIZE: B	DWG. NO.: CTI-S49991
APPROVED BY/DATE: JDG 24OCT2023	SCALE: NTS	CAD FILE NAME: TTC-(W)-(A)(V)(R) CAD SAVE DATE: Wednesday, December 20, 2023 2:42:44 PM	SHEET: 1 OF 1

NOTE(S):

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED WITH COVER CLAMPS.

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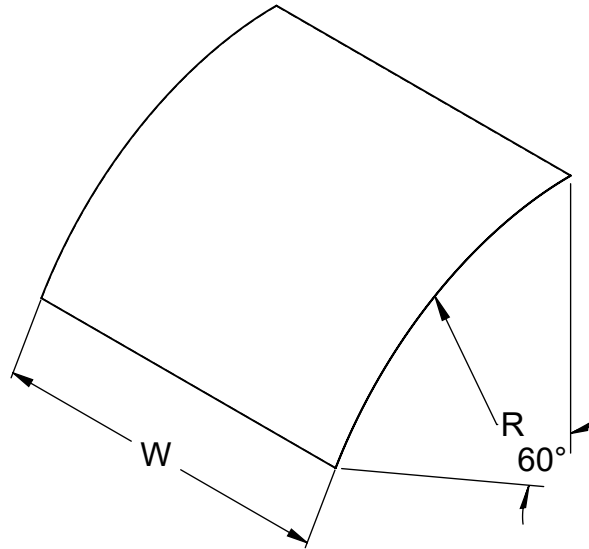
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TTC - F - 12 - 60 VO 24 - AL

<p>SERIES TTC-F = TOUGHTray FLAT COVER</p>	<p>NOMINAL WIDTH (W) 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"</p>	<p>ANGLE 60 = 60°</p>	<p>TYPE VO = VERTICAL OUTSIDE BEND</p>	<p>RADIUS (R) 12 = 12" 24 = 24" 36 = 36"</p>	<p>MATERIAL AL = ALUMINUM</p>
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PATENT PENDING

NOTE(S):

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED WITH COVER CLAMPS.

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.			
 CT INNOVATIONS		TTC-F-(W)-60VO(R) TTC-F SERIES VERTICAL OUTSIDE BEND FLAT COVER	
DRAWN BY/DATE: LW 20DEC2023	SIZE: B	DWG. NO.: CTI-S49992	REV: C
APPROVED BY/DATE: JDG 24OCT2023	SCALE: NTS	CAD FILE NAME: TTC-(W)-(A)(V)(R) CAD SAVE DATE: Wednesday, December 20, 2023 2:38:59 PM	SHEET: 1 OF 1

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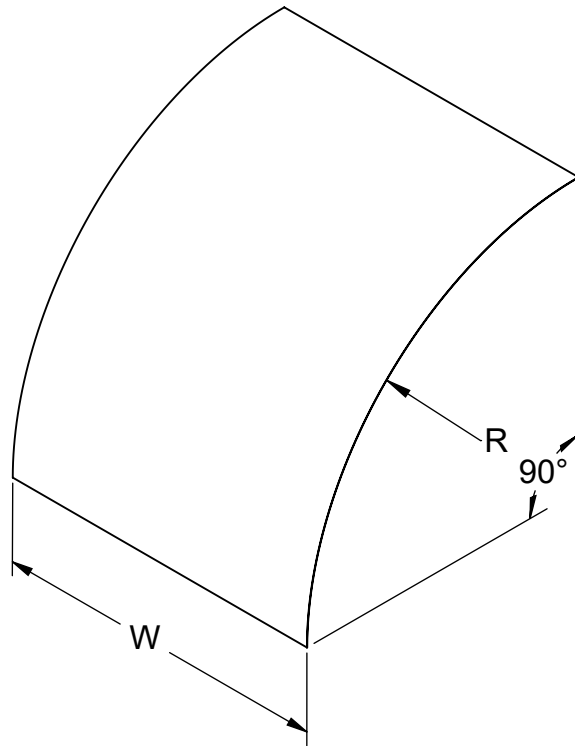
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TTC - F - 12 - 90 VO 24 - AL

SERIES
TTC-F = TOUGHTray
FLAT COVER

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

ANGLE
90 = 90°

TYPE
VO =
VERTICAL
OUTSIDE
BEND

RADIUS (R)
12 = 12"
24 = 24"
36 = 36"


MATERIAL
AL = ALUMINUM

PATENT PENDING

NOTE(S):

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) SUPPLIED WITH COVER CLAMPS.

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.

 CT INNOVATIONS	TITLE: TTC-F-(W)-90VO(R) TTC-F SERIES VERTICAL OUTSIDE BEND FLAT COVER			
	DRAWN BY/DATE: LW 20DEC2023	SIZE: B	DWG. NO.: CTI-S49993	REV: C
	APPROVED BY/DATE: JDG 24OCT2023	SCALE: NTS	CAD FILE NAME: TTC-(W)-(A)V(R) CAD SAVE DATE: Wednesday, December 20, 2023 2:29:56 PM	SHEET: 1 OF 1

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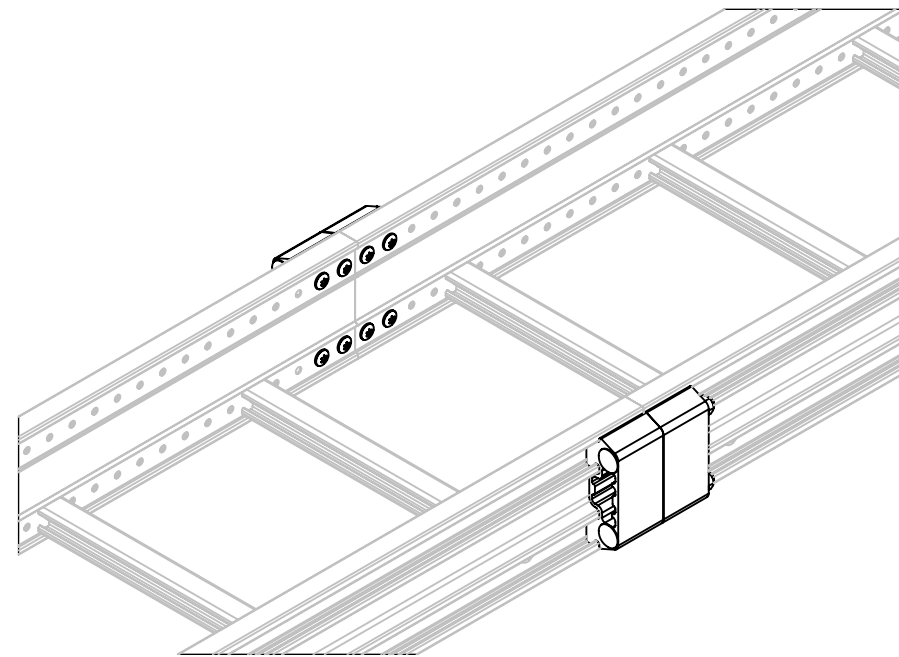
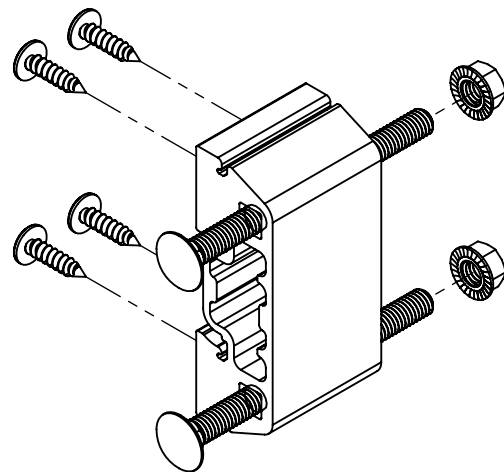
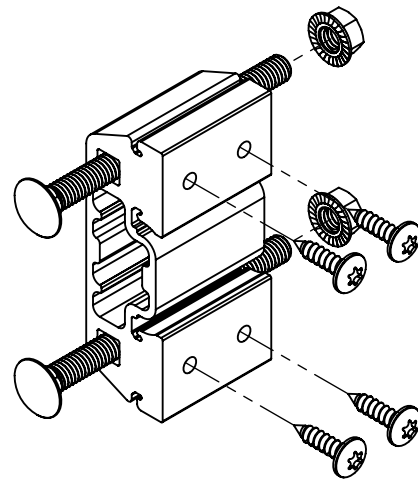
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ISO INSTALLED VIEW



SECTION VIEW

TTA - LINK - 4

SERIES
TTA = TOUGHTray
ACCESSORIES

TYPE
LINK =
LINK CONNECTOR


TRAY NOMINAL
HEIGHT
4 = 4"

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.

 CT INNOVATIONS	TITLE: TTA-LINK-4 TOUGHTRAY ACCESSORY 4" LINK CONNECTOR		
	DRAWN BY/DATE: LW 19AUG2023	SIZE: B	DWG. NO.: CTI-S41995
APPROVED BY/DATE: JDG 19AUG2023	SCALE: NTS	CAD FILE NAME: TT509-(H)(W)(L)-AL_A CAD SAVE DATE: Wednesday, October 25, 2023 9:32:19 AM	SHEET: 1 OF 1

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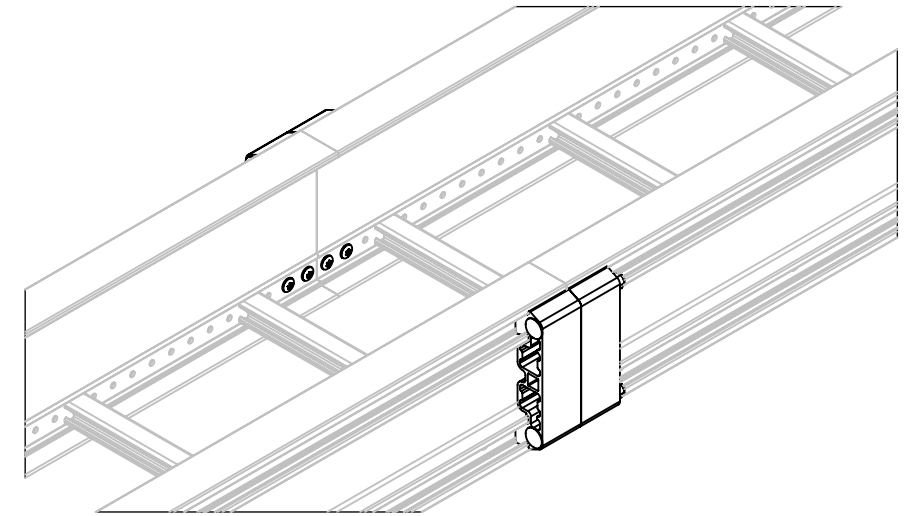
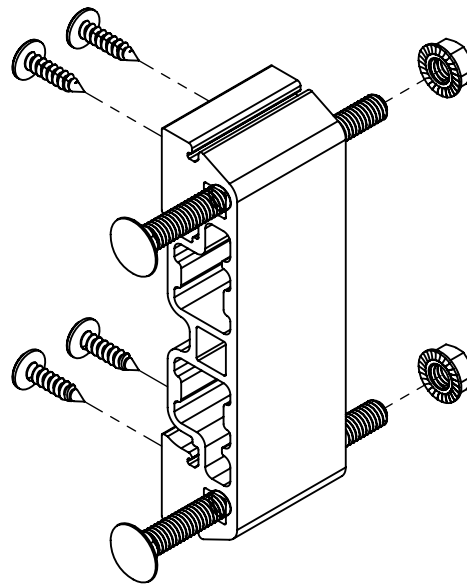
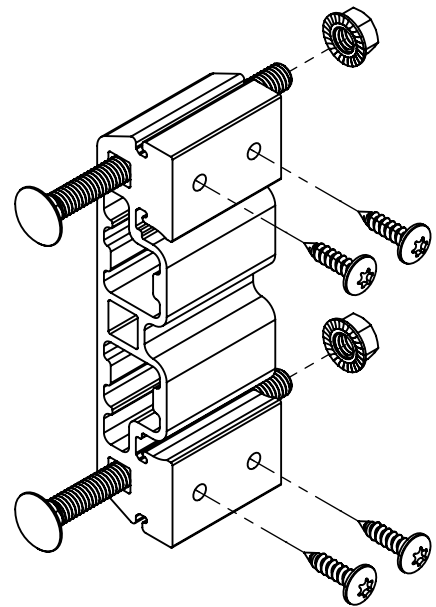
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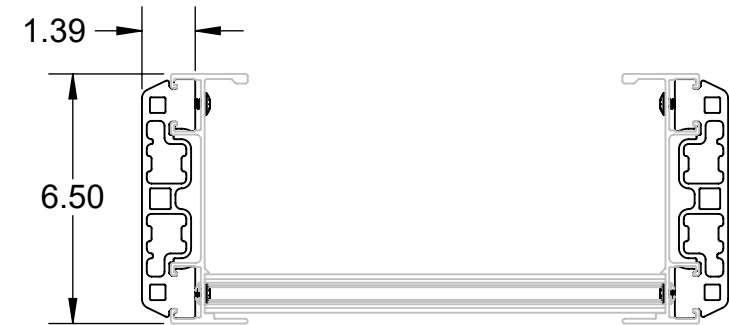
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ISO INSTALLED VIEW



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.

 CT INNOVATIONS	TITLE: TTA-LINK-6 TOUGHTRAY ACCESSORY 6" LINK CONNECTOR		
	DRAWN BY/DATE: LW 19AUG2023	SIZE: B	DWG. NO.: CTI-S41996
APPROVED BY/DATE: JDG 19AUG2023	SCALE: NTS	CAD FILE NAME: TT509-(H)(W)(X)(L)-AL_A CAD SAVE DATE: Wednesday, October 25, 2023 11:15:03 AM	SHEET: 1 OF 1

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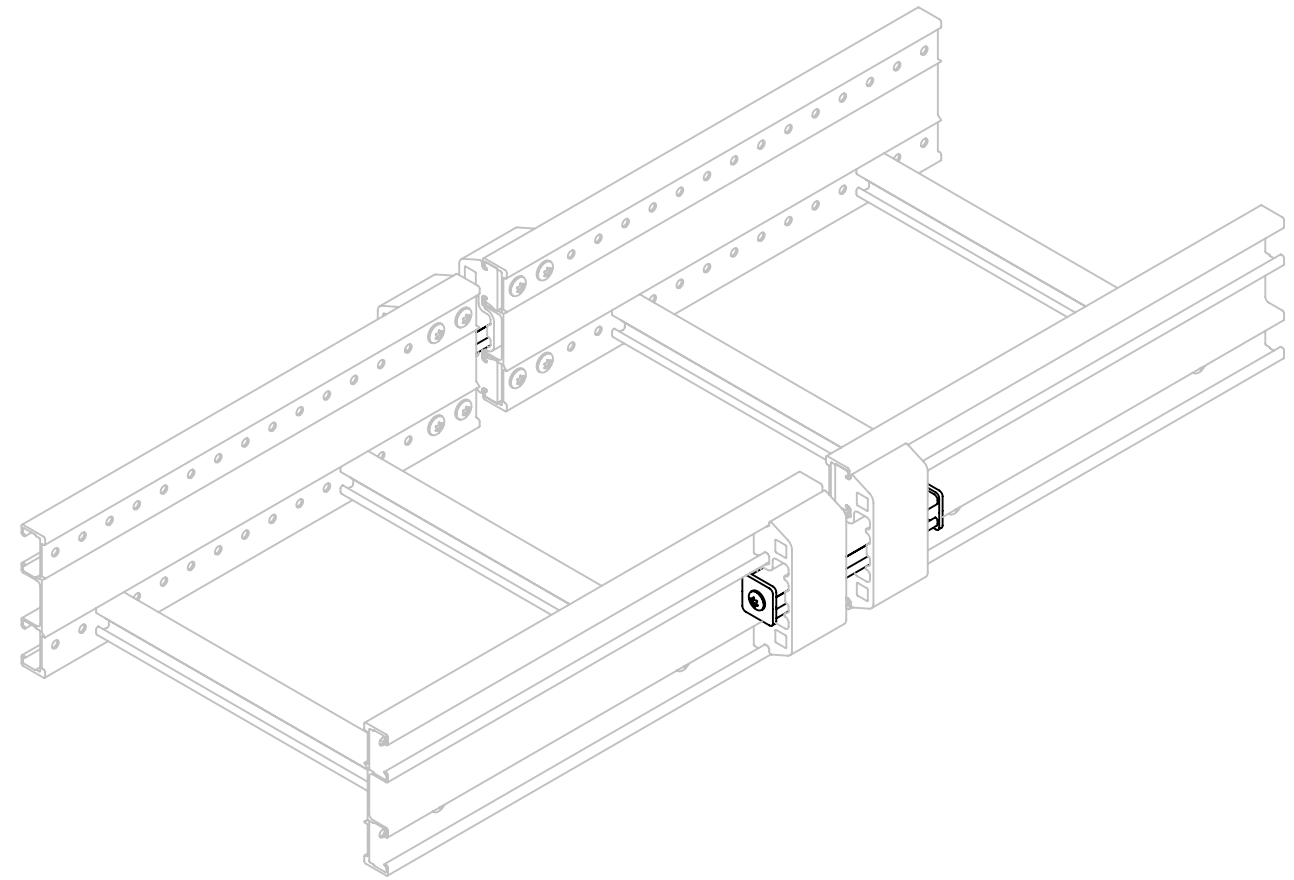
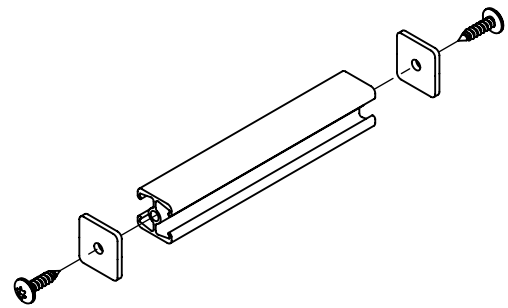
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INSTALLED VIEW

TTA - EXPNKIT - 4

SERIES
TTA = TOUGHTray
ACCESSORIES

TYPE
EXPNKIT =
EXPANSION KIT

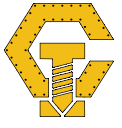
SIDERAIL
HEIGHT
4 = 4"

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.

 CT INNOVATIONS	TITLE: TTA-EXPNKIT-4 TTA EXPANSION KIT		
	DRAWN BY/DATE: LW 02OCT2023	SIZE: B	DWG. NO.: CTI-S48992
APPROVED BY/DATE: JDG 03OCT2023	SCALE: NTS	CAD FILE NAME: Concept_1_EXP-4H CAD SAVE DATE: Monday, October 2, 2023 6:17:59 PM	SHEET: 1 OF 1

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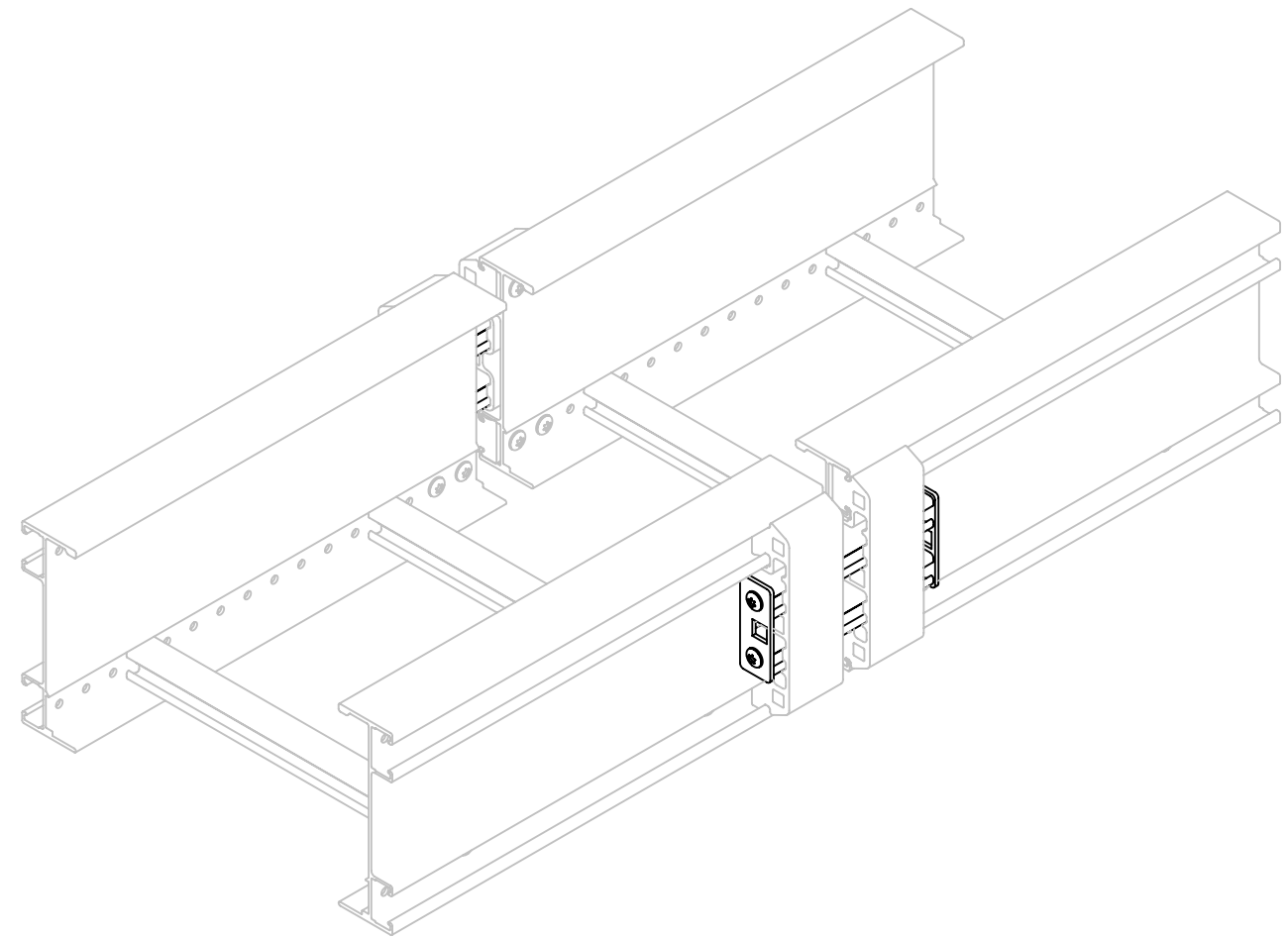
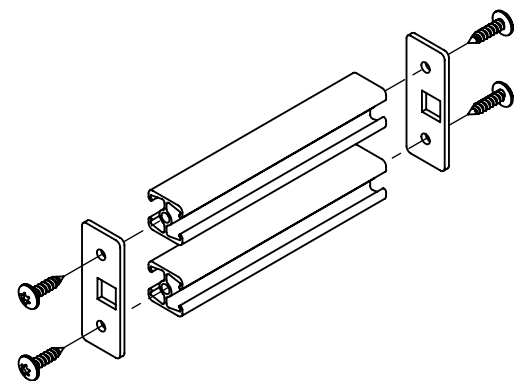
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INSTALLED VIEW

TTA - EXPNKIT - 6

SERIES
TTA = TOUGHTray
ACCESSORIES

TYPE
EXPNKIT =
EXPANSION KIT


SIDERAIL
HEIGHT
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 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.

 CT INNOVATIONS	TITLE: TTA-EXPNKIT-6 TTA EXPANSION KIT		
	DRAWN BY/DATE: LW 02OCT2023	SIZE: B	DWG. NO.: CTI-S48991
APPROVED BY/DATE: JDG 03OCT2023	SCALE: NTS	CAD FILE NAME: Concept_1_EXP-6H CAD SAVE DATE: Monday, October 2, 2023 6:22:30 PM	SHEET: 1 OF 1

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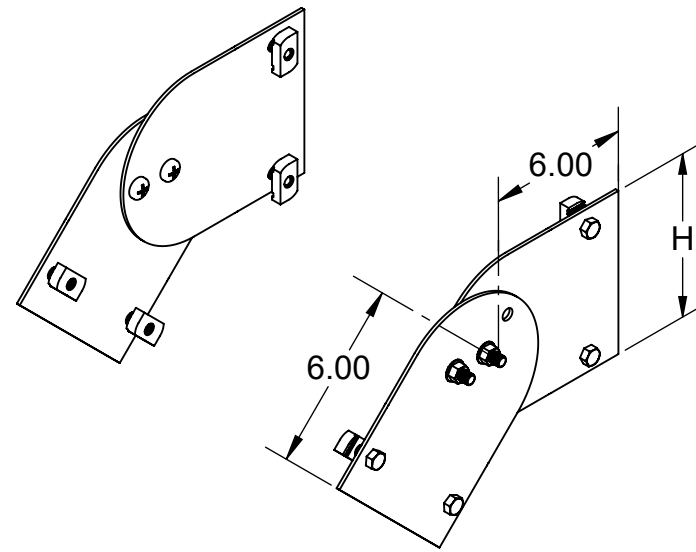
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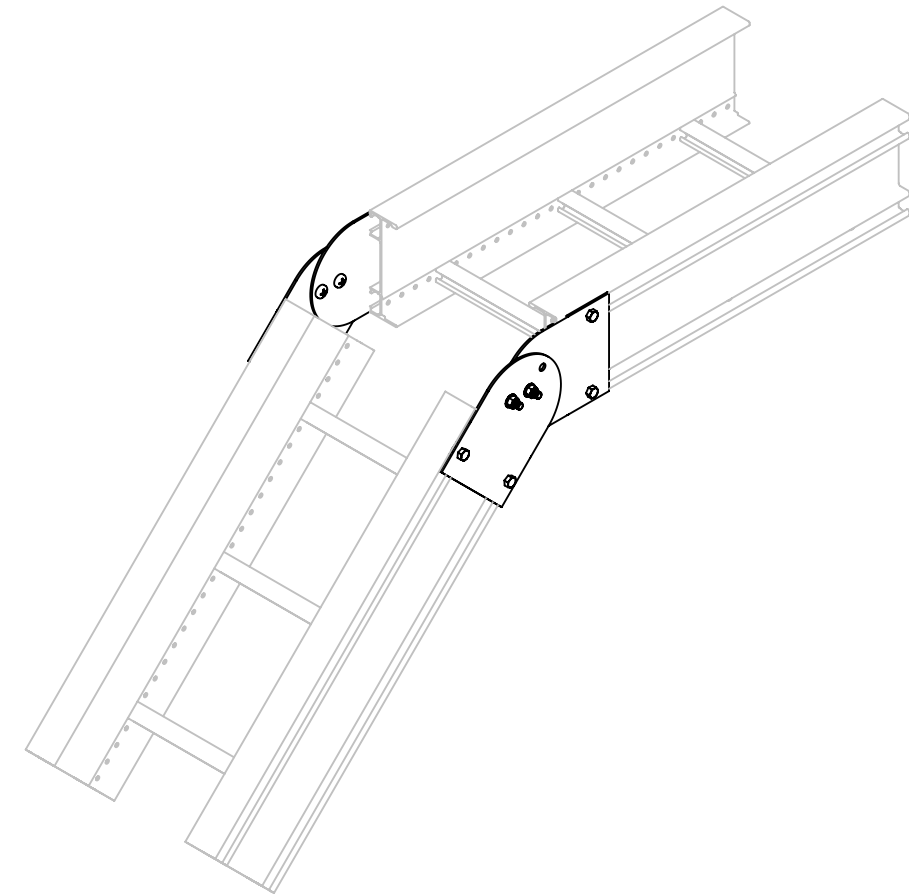


TTA - VADJ - 6

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.

 CT INNOVATIONS	TITLE: TTA-VADJ-(H) TTA SERIES VERTICAL ADJ SPLICE PLATE			
	DRAWN BY/DATE: LW 20NOV2023	SIZE: B	DWG. NO.: CTI-S48998	REV: B
	APPROVED BY/DATE: JDG 28APR2023	SCALE: NTS	CAD FILE NAME: TTA-VADJ_A CAD SAVE DATE: Monday, November 20, 2023 2:08:31 PM	SHEET: 1 OF 1

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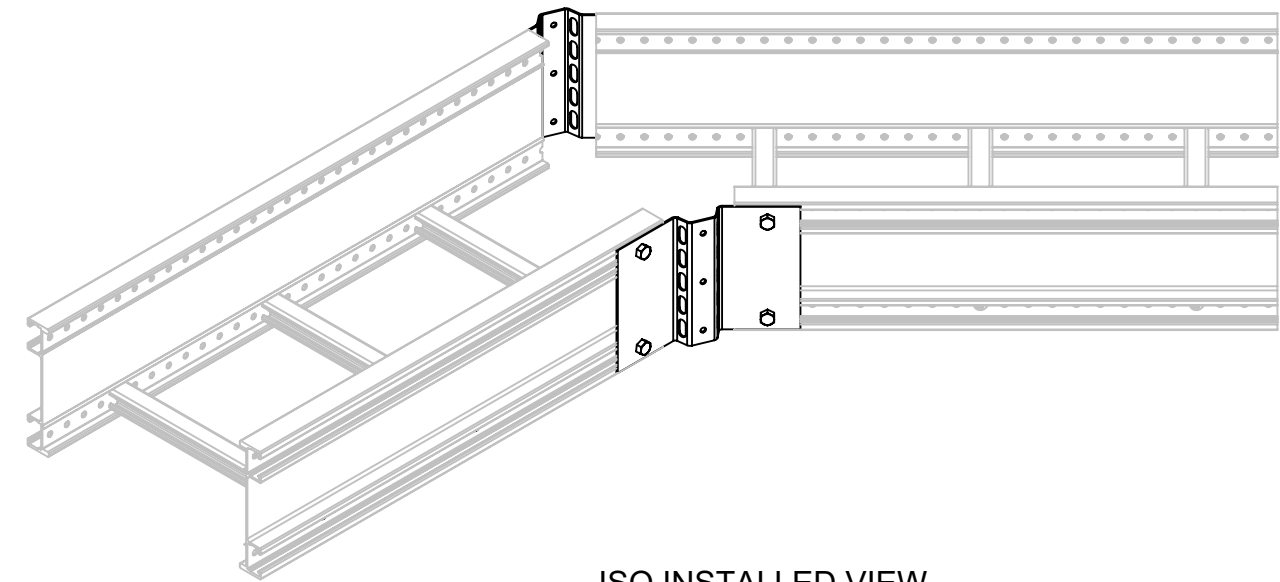
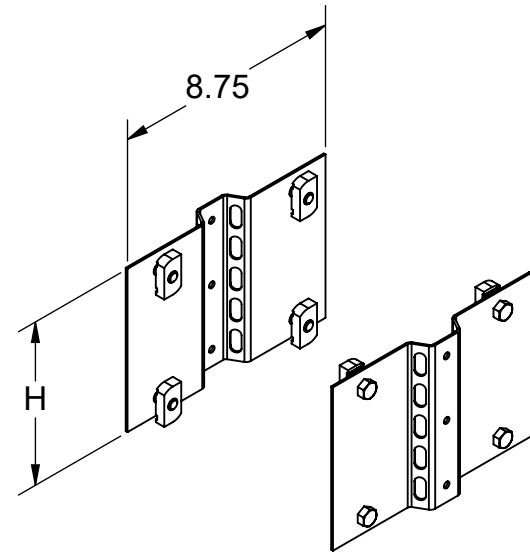
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ISO INSTALLED VIEW

TTA - HADJ - 6


SERIES
TTA = TOUGHTray
ACCESSORIES

TYPE
HADJ =
HORIZONTAL
ADJUSTABLE
SPLICE PLATE

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

PATENT PENDING

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.

 CT INNOVATIONS	TITLE: TTA-HADJ-(H) TTA SERIES HORIZONTAL ADJ SPLICE PLATE			
	DRAWN BY/DATE: LW 28APR2023	SIZE: B	DWG. NO.: CTI-S48997	REV: A
	APPROVED BY/DATE: JDG 28APR2023	SCALE: NTS	CAD FILE NAME: TTA-HADJ-(H)_A_SUB CAD SAVE DATE: Friday, April 28, 2023 3:39:21 PM	SHEET: 1 OF 1

NOTES:

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

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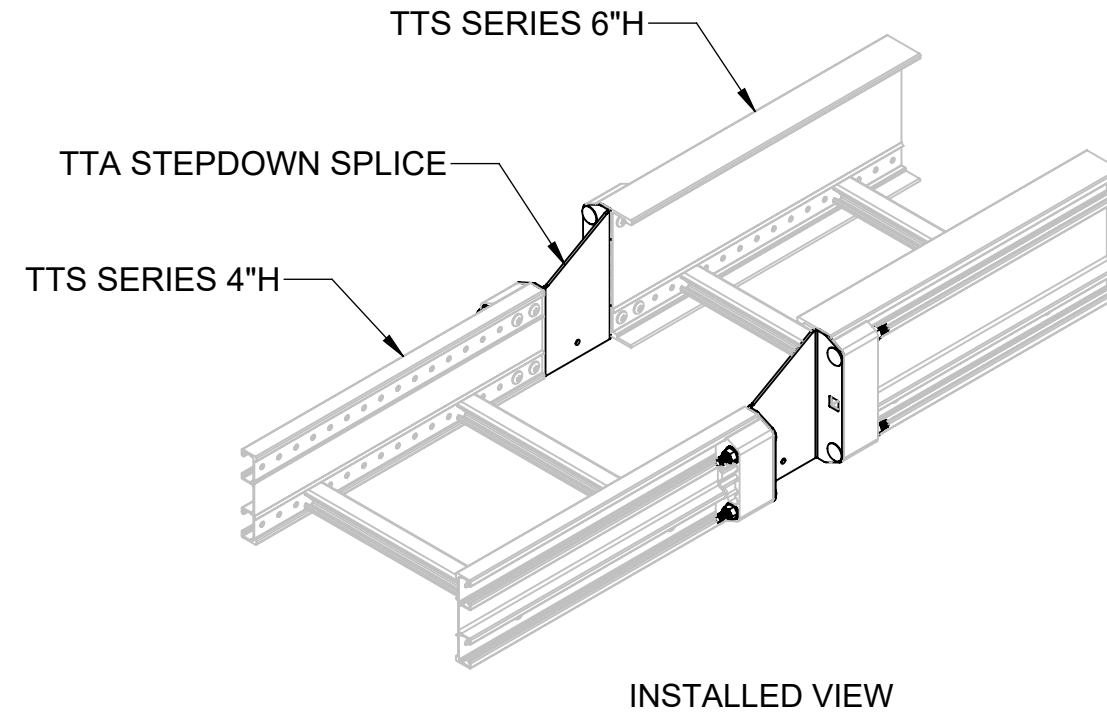
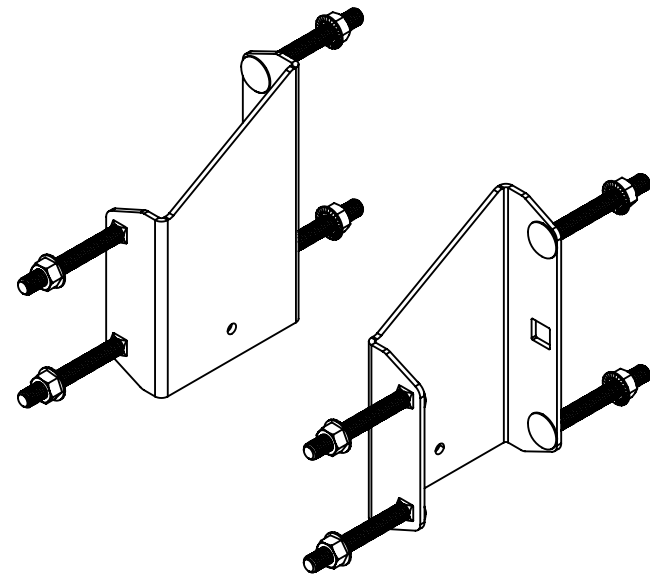
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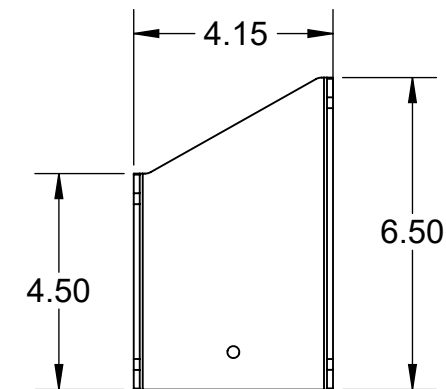
A



TTA - STEPDOWN

SERIES
TTA = TOUGHTray
ACCESSORIES

TYPE
STEPDOWN =
STEPDOWN SPLICE




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.			
 CT INNOVATIONS	TITLE: <p style="text-align: center;">TTA-STEPDOWN STEP DOWN SPLICE, ALUMINUM</p>		
	DRAWN BY/DATE: LW 19OCT2023	SIZE: <p style="text-align: center;">B</p>	DWG. NO.: <p style="text-align: center;">CTI-S48012</p>
APPROVED BY/DATE: JDG 19OCT2023	SCALE: <p style="text-align: center;">NTS</p>	CAD FILE NAME: Concept_1_EXP-6H CAD SAVE DATE: Thursday, October 19, 2023 3:09:49 PM	SHEET: <p style="text-align: center;">1 OF 1</p>

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1

F

F

E

E

D

D

C

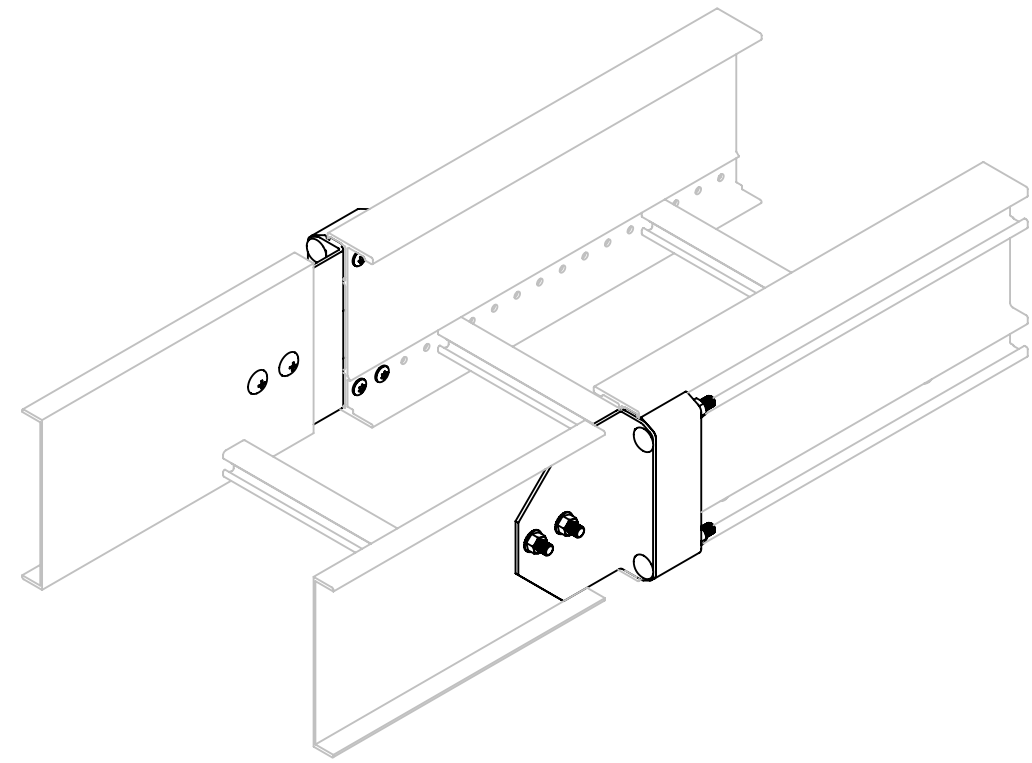
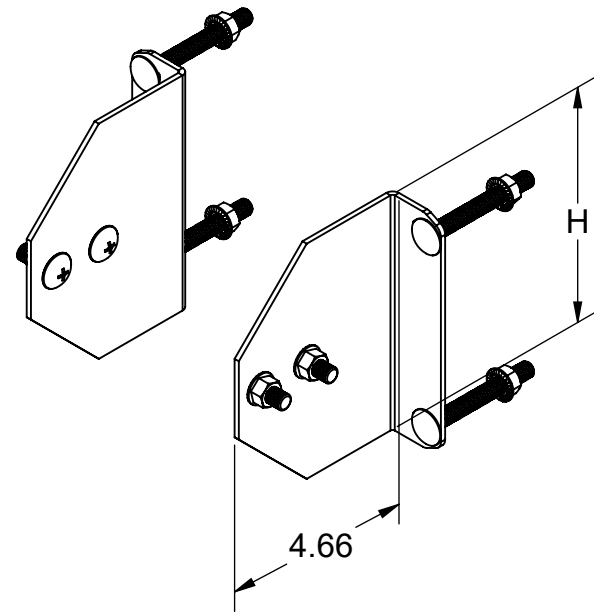
C

B

B

A

A



ISO INSTALLED VIEW

TTA - USPLICE - 4

SERIES
TTA = TOUGHTray
ACCESSORIES

TYPE
USPLICE =
UNIVERSAL
ADAPTER SPLICE


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.
- 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.

 CT INNOVATIONS	TITLE: TTA-USPLICE-(H) TTA SERIES UNIVERSAL ADAPTER SPLICE		
	DRAWN BY/DATE: LW 20NOV2023	SIZE: B	DWG. NO.: CTI-S41993
APPROVED BY/DATE: LW 03OCT2023	SCALE: NTS	CAD FILE NAME: CTI-S41993_A CAD SAVE DATE: Monday, November 20, 2023 9:45:03 AM	SHEET: 1 OF 1

6

5

4

3

2

1

6

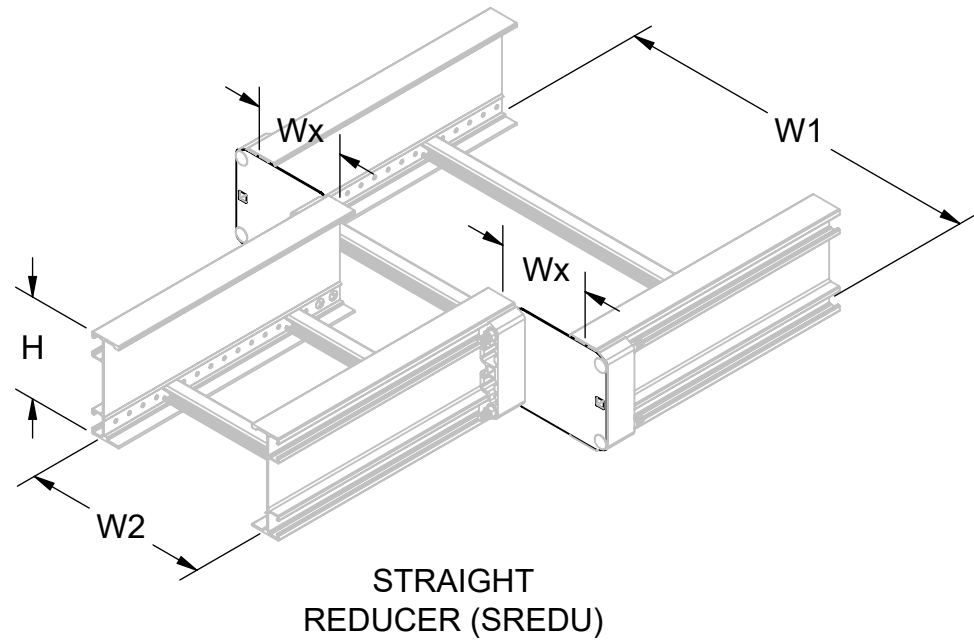
5

4

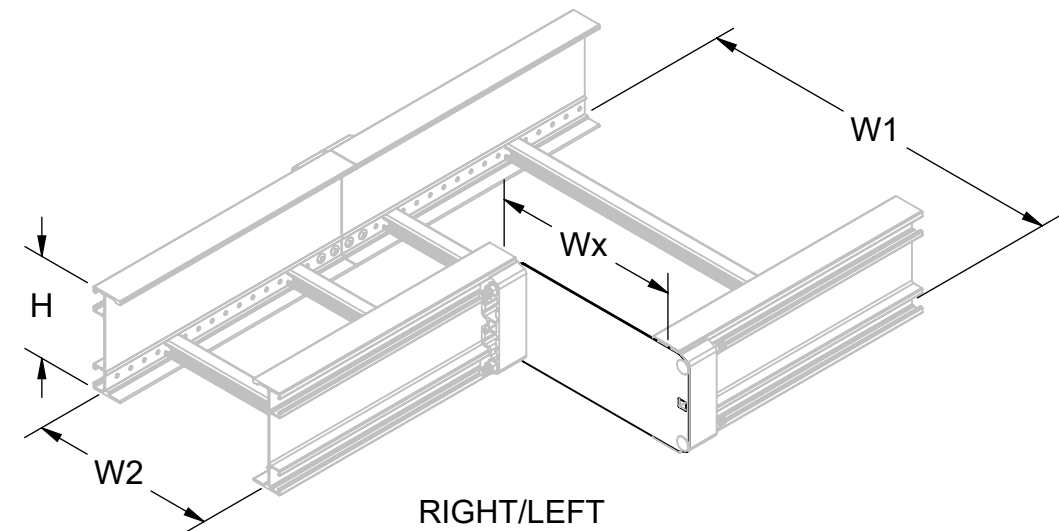
3

2

1



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

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.

 CT INNOVATIONS	TITLE: 4" AND 6" HEIGHT TTA SERIES STRAIGHT & OFFSET REDUCERS		
	DRAWN BY/DATE: LW 18DEC2023	SIZE: B	DWG. NO.: CTI-S48999
APPROVED BY/DATE: JDG 28APR2023	SCALE: NTS	CAD FILE NAME: CTI-548999_A CAD SAVE DATE: Monday, December 18, 2023 6:10:49 PM	SHEET: 1 OF 1

NOTES:

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

6

5

4

3

2

1

6

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4

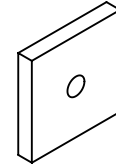
3

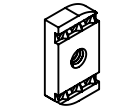
2


1

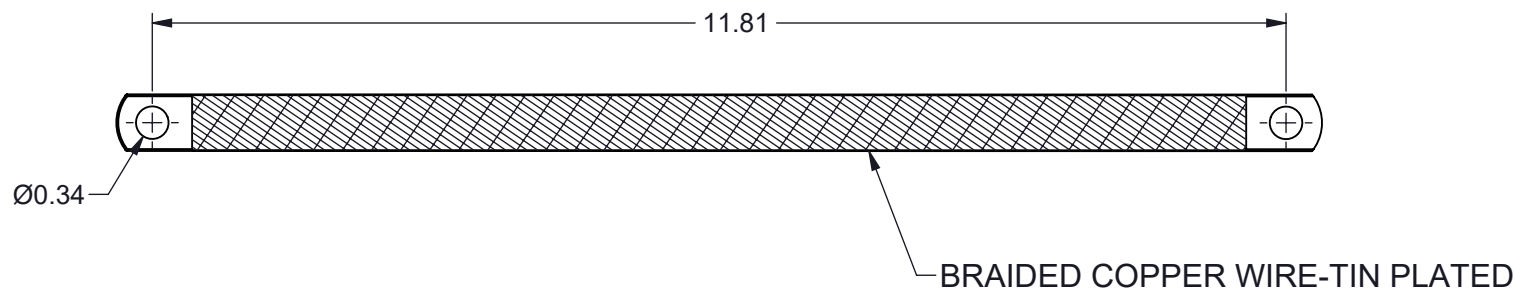
HARDWARE INCLUDED:

 - (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

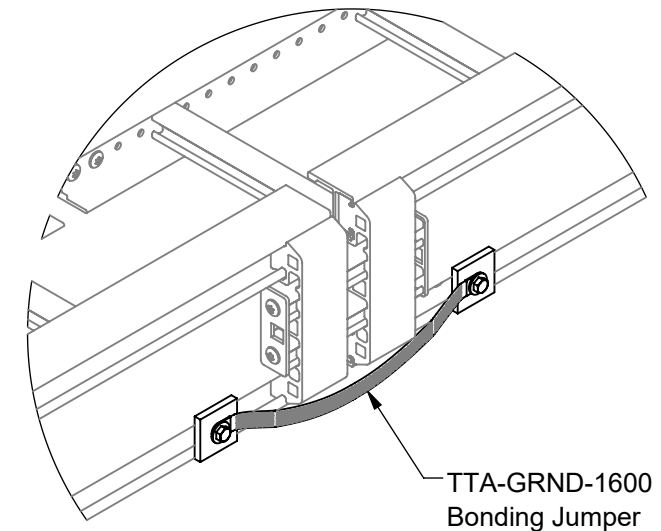


TTA - GRND - 1600

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.

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

6

5

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3

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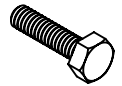
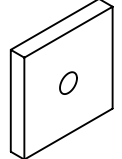



4

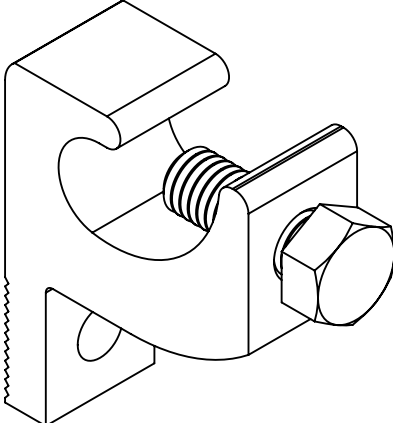
3

2

1

HARDWARE INCLUDED:

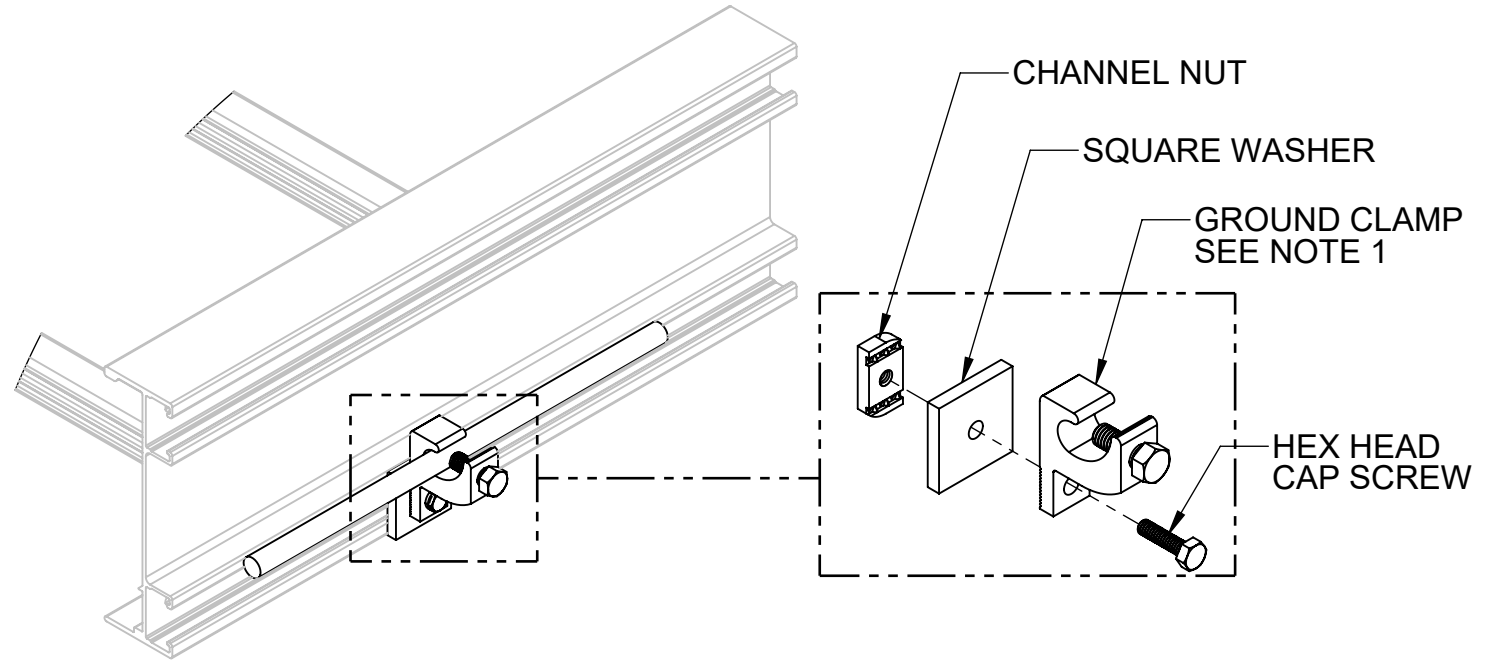
-  - (1EA) TA25HX100-S6
1/4 X 1 HEX HEAD CAP SCREW
-  - (1EA) TF25WSQ-AL
1/4 SQUARE WASHER
-  - (1EA) TA25NC-S6
1/4 CHANNEL NUT
-  - (1EA) TA25W-S6
1/4 FLAT WASHER
-  - (1EA) TA25FNHX-S6
1/4 SERRATED FLANGE HEX NUT



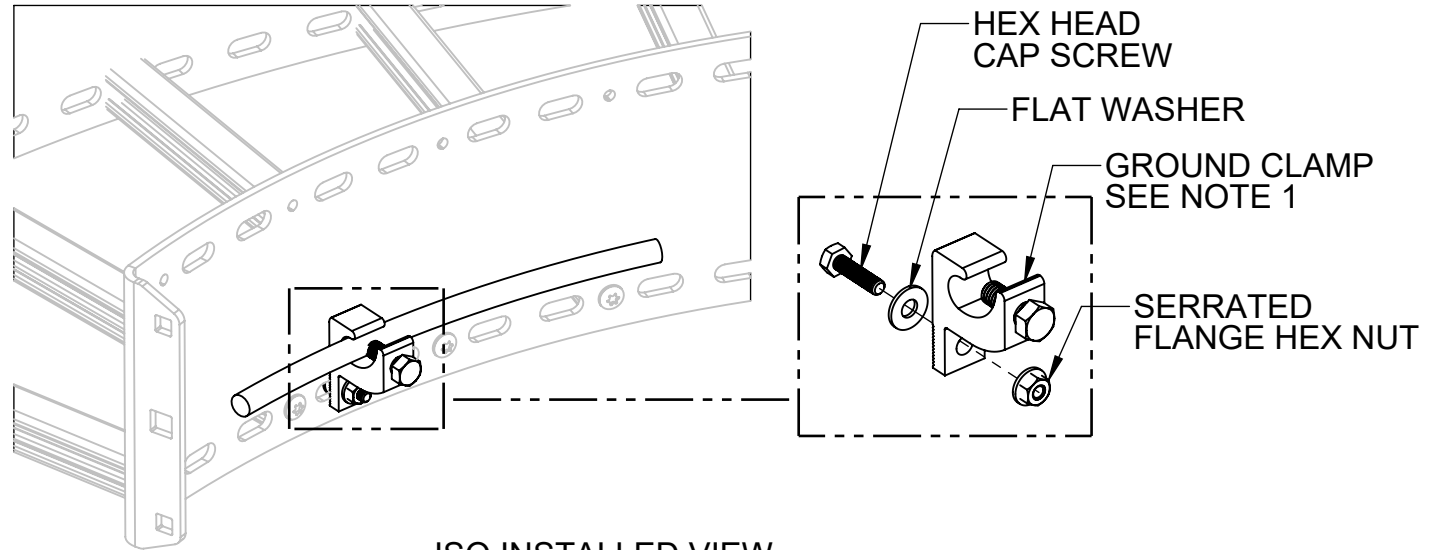
TTA - GRNDCLMP

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.

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

6

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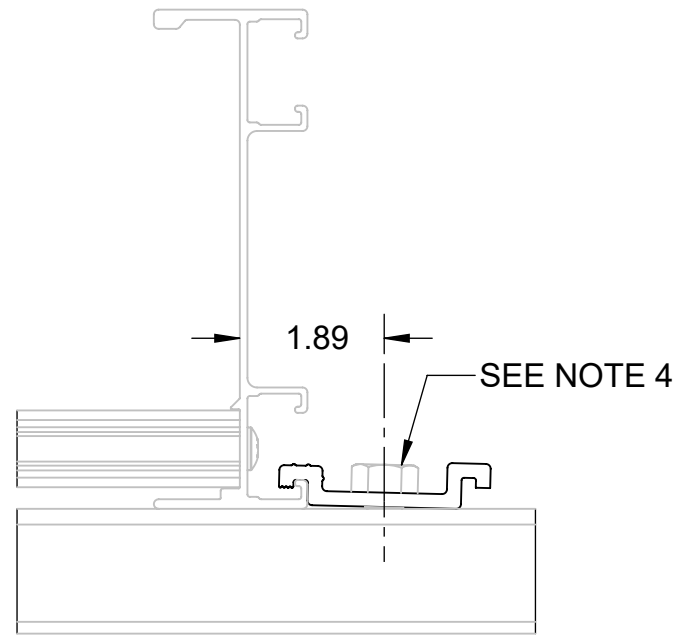
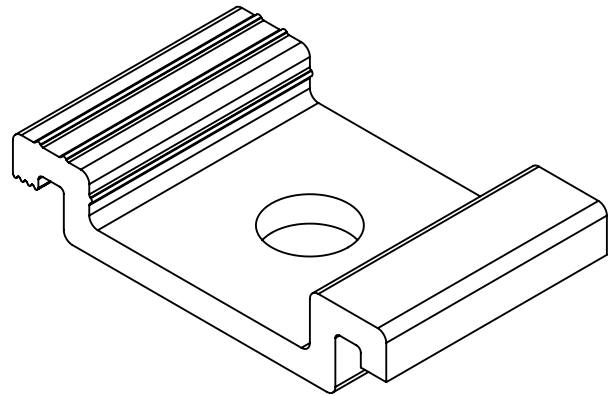
5

4

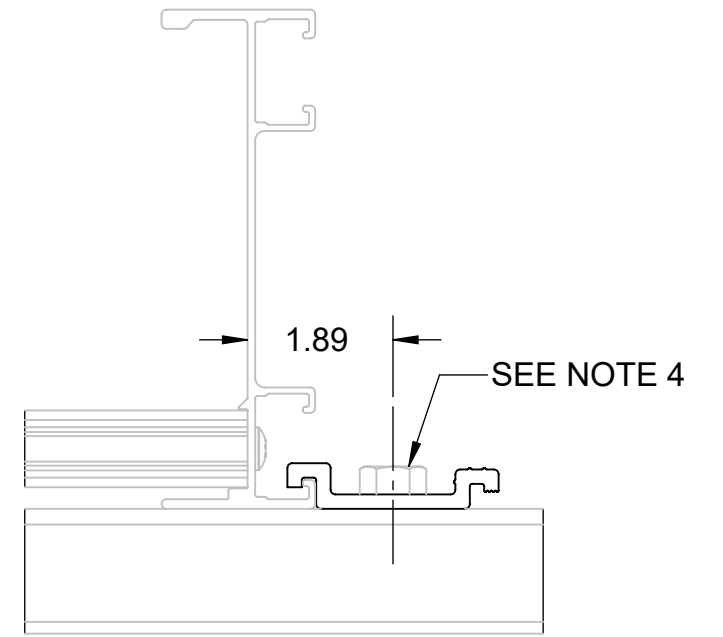
3

2

1



INSTALLED AS CLAMP

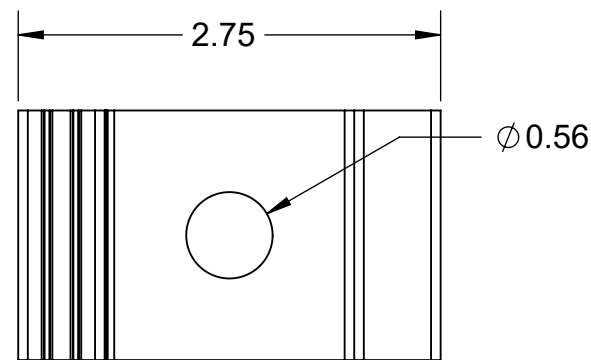


INSTALLED AS GUIDE

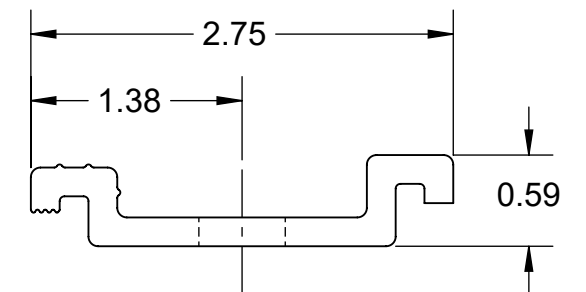
TTA - CLAMPGUIDE - U

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.

 CT INNOVATIONS	TITLE: TTA-CLAMPGUIDE-U CLAMP & GUIDE RESTRAINT		
	DRAWN BY/DATE: LW 04DEC2024	SIZE: B	DWG. NO.: CTI-S41006
APPROVED BY/DATE: JDG 23OCT2023	SCALE: NTS	CAD FILE NAME: CTI-41006_A CAD SAVE DATE: Thursday, January 4, 2024 2:18:50 PM	SHEET: 1 OF 1

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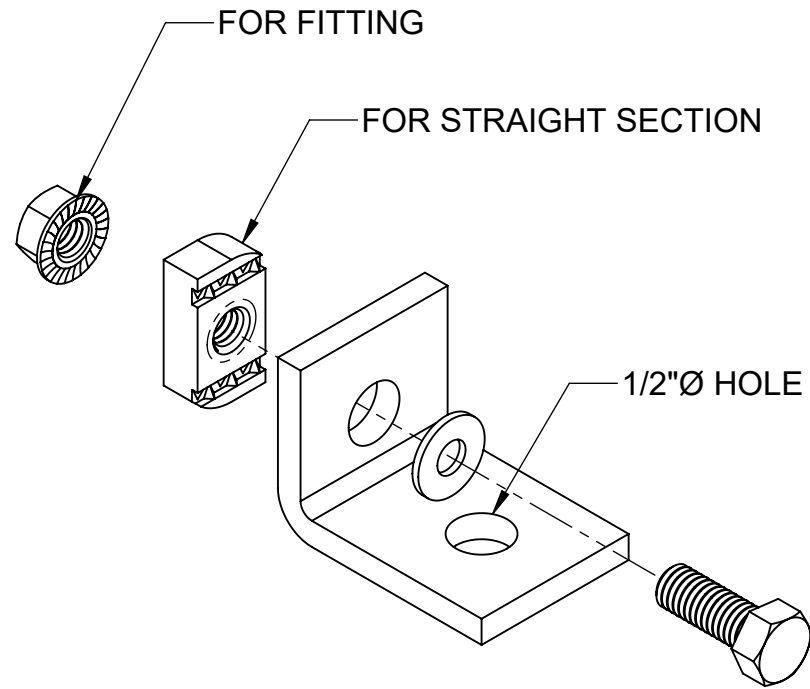
5

4

3

2

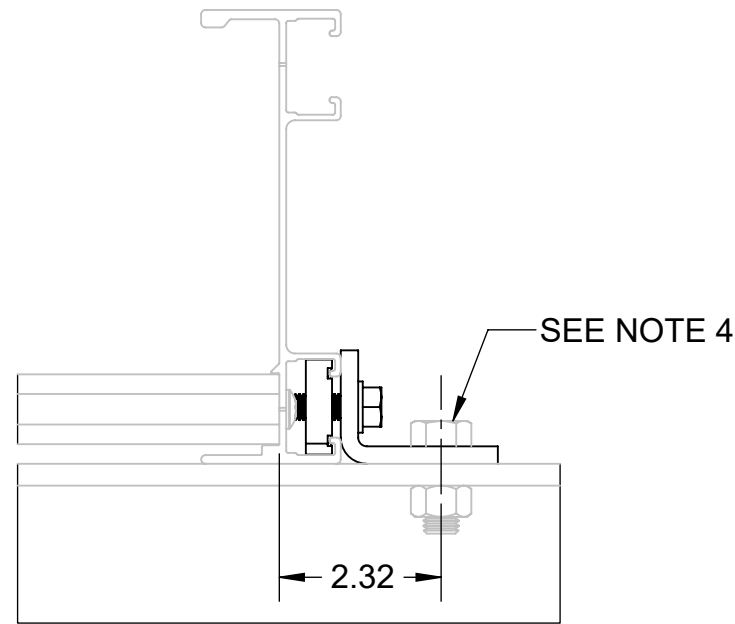
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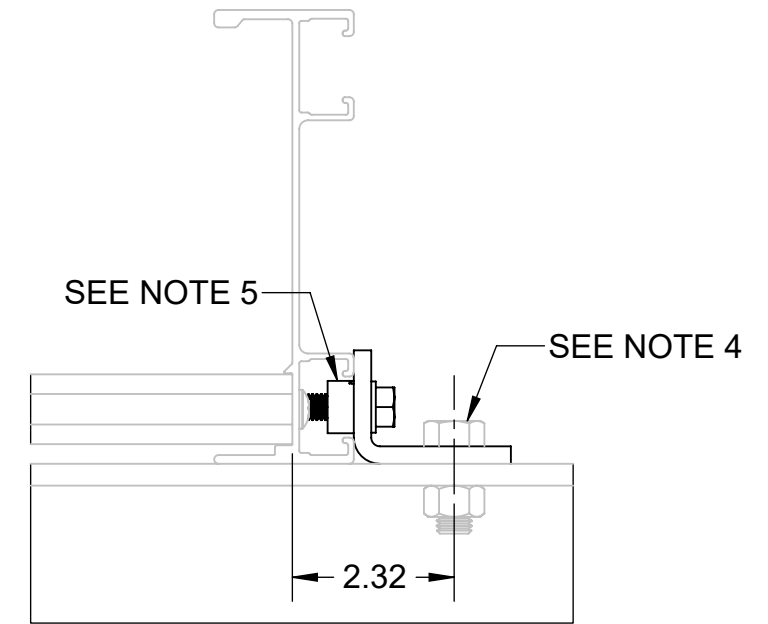
TTA - CLAMPGUIDE - L

SERIES
TTA = TOUGHTray
ACCESSORIES

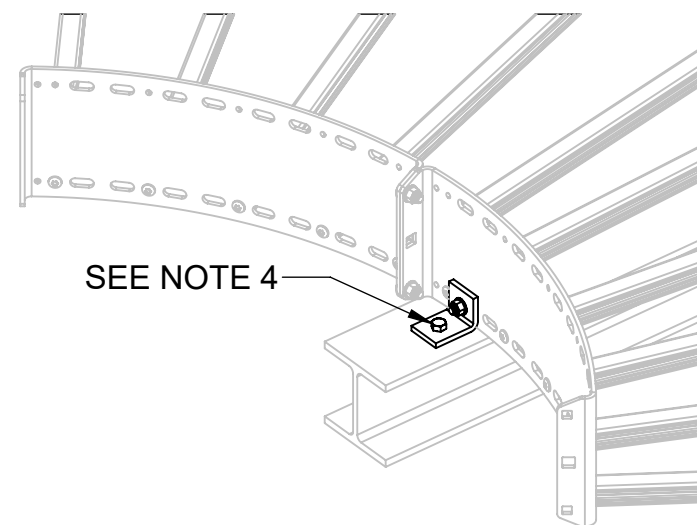
TYPE
CLAMPGUIDE-L =
CLAMP & GUIDE
RESTRAINT



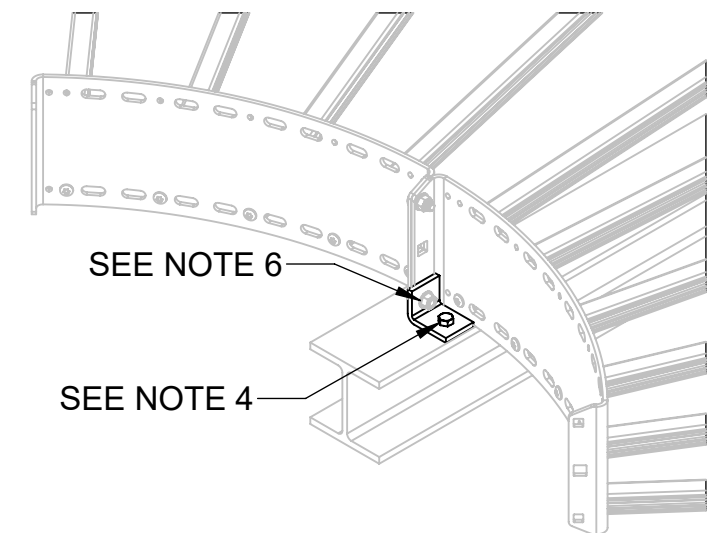
**INSTALLED AS A HOLD DOWN CLAMP
(STRAIGHT SECTION)**



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



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




**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 OR 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

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.			
 CT INNOVATIONS		TTA-CLAMPGUIDE-L TTA CLAMP & GUIDE RESTRAINT	
DRAWN BY/DATE: LW 26OCT2023	SIZE: B	DWG. NO.: CTI-S48994	REV: B
APPROVED BY/DATE: JDG 03OCT2023	SCALE: NTS	CAD FILE NAME: CTI-S48994_A CAD SAVE DATE: Thursday, January 4, 2024 3:12:36 PM	SHEET: 1 OF 1

6

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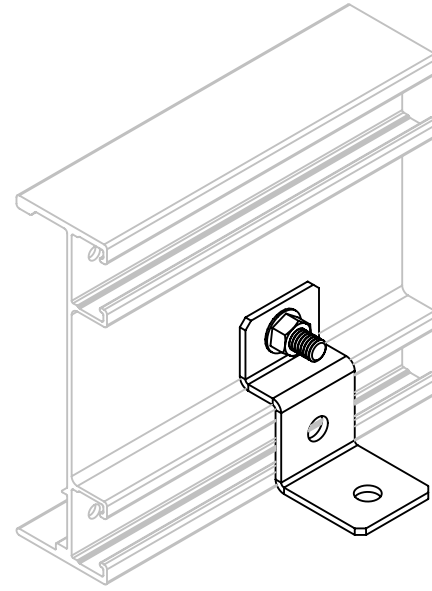
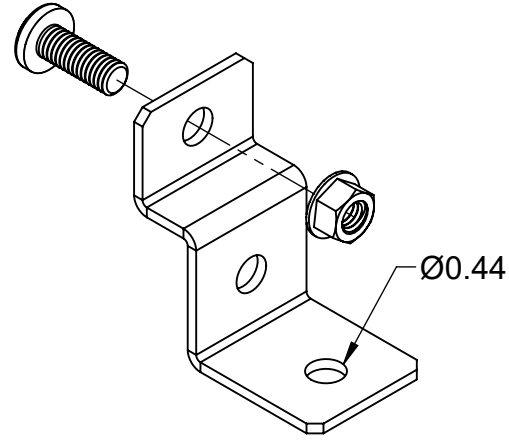
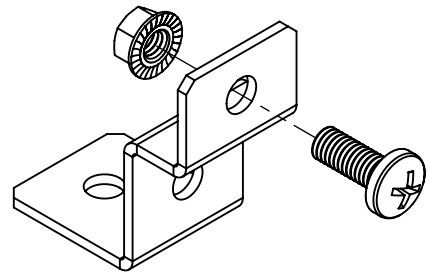
5

4

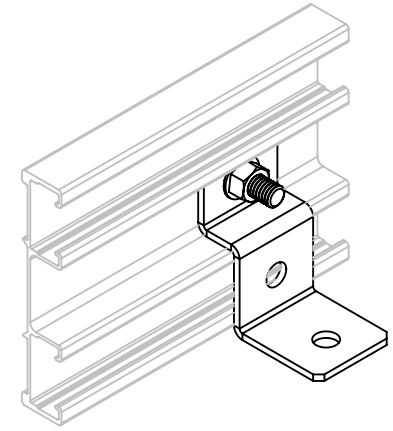
3

2

1



INSTALLED VIEW
(6" SIDERAIL)



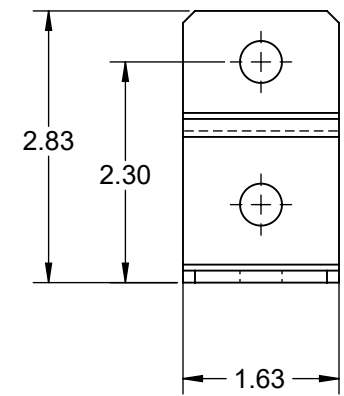
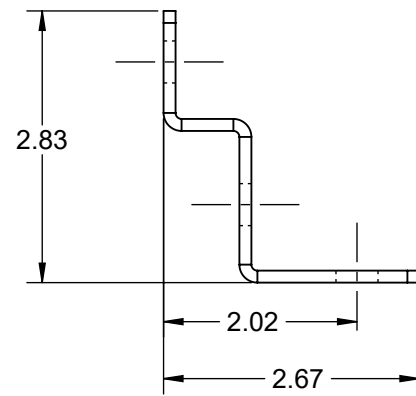
INSTALLED VIEW
(4" SIDERAIL)

TTA - CLAMP - 1HD

SERIES TTA = TOUGHTray ACCESSORIES

CLAMP = BOLT-THRU CLAMP


1HD = HEAVY DUTY



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.

 CT INNOVATIONS	TITLE: TTA-CLAMP-1HD HD BOLT-THRU CLAMP		
	DRAWN BY/DATE: DL 20NOV2023	SIZE: B	DWG. NO.: CTI-S48147
APPROVED BY/DATE: JDG 30OCT2023	SCALE: NTS	CAD FILE NAME: CTI-48147_A CAD SAVE DATE: Tuesday, December 5, 2023 4:08:29 PM	SHEET: 1 OF 1

6

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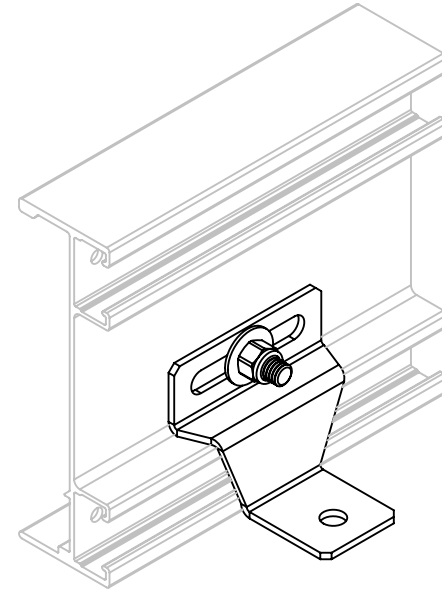
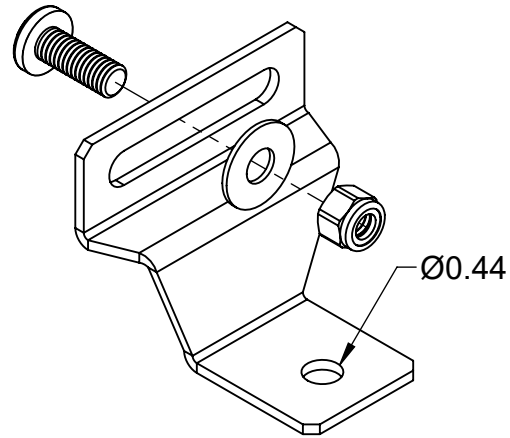
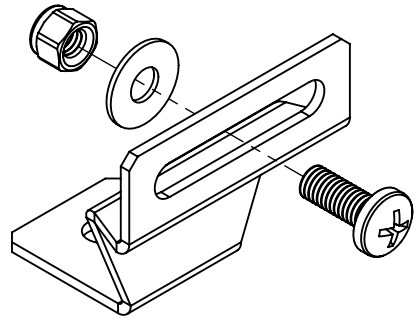
5

4

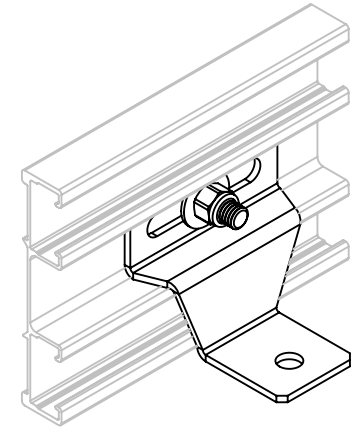
3

2

1



INSTALLED VIEW
(6" SIDERAIL)



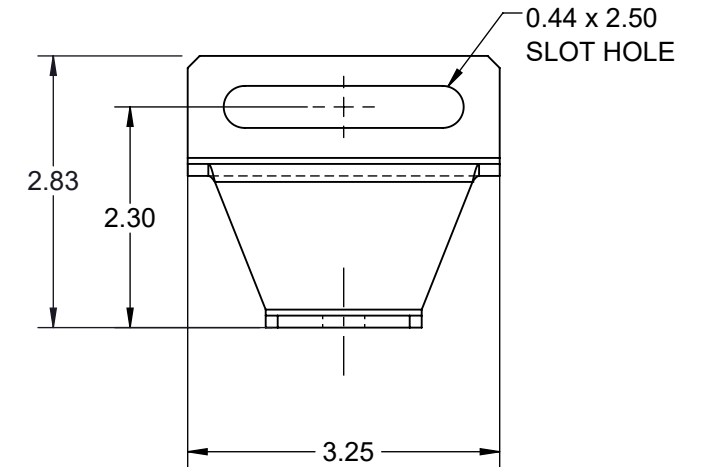
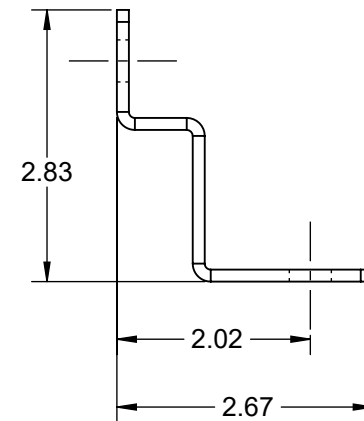
INSTALLED VIEW
(4" SIDERAIL)

TTA - GUIDE - 1HD

SERIES
TTA = TOUGHTray
ACCESSORIES

GUIDE =
BOLT-THRU GUIDE

1HD =
HEAVY DUTY



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-GUIDE-1HD
HD BOLT-THRU GUIDE**

DRAWN BY/DATE:
DL 20NOV2023

SIZE: **B** DWG. NO.: **CTI-S48146** REV: **B**

APPROVED BY/DATE:
JDG 30OCT2023

SCALE: **NTS** CAD FILE NAME: CTI-48146_A SHEET: **1 OF 1**
CAD SAVE DATE: Monday, November 20, 2023 1:49:53 PM

6

5

4

3

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A

A

6

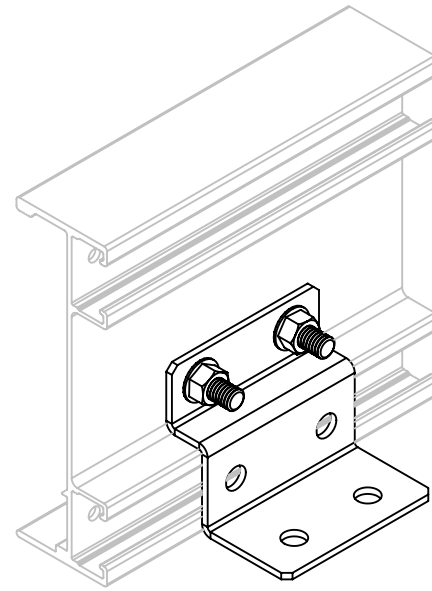
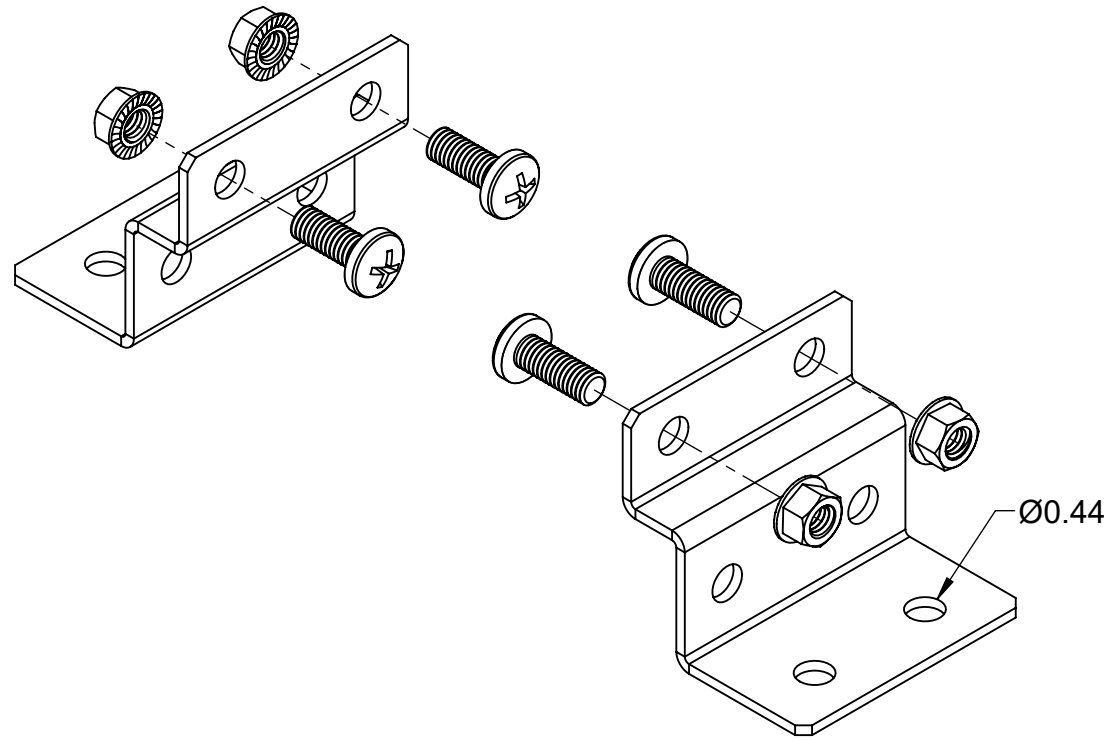
5

4

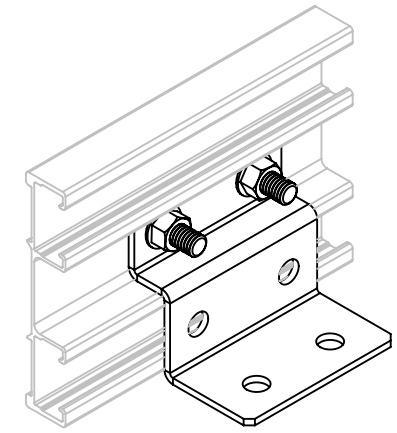
3

2

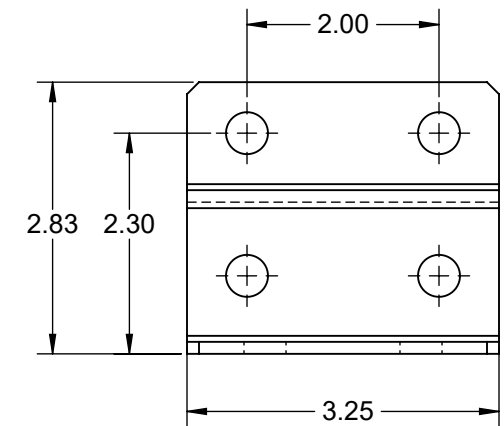
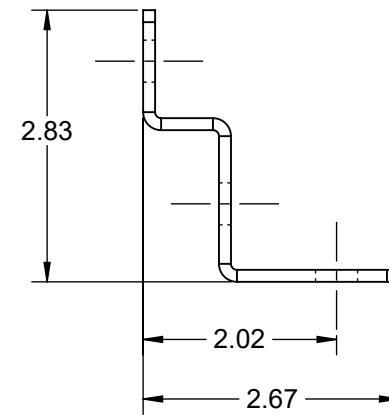
1



INSTALLED VIEW
(6" SIDERAIL)



INSTALLED VIEW
(4" SIDERAIL)



TTA - CLAMP - 2HD

SERIES
TTA = TOUGHTray
ACCESSORIES

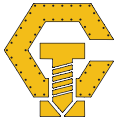
CLAMP =
BOLT-THRU CLAMP

2HD =
EXTRA
HEAVY DUTY

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.

 CT INNOVATIONS		TITLE: TTA-CLAMP-2HD EXTRA HD BOLT-THRU CLAMP		
		DRAWN BY/DATE: DL 20NOV2023	SIZE: B	DWG. NO.: CTI-S48061
APPROVED BY/DATE: JDG 30OCT2023		SCALE: NTS	CAD FILE NAME: CTI-48061_A CAD SAVE DATE: Monday, November 20, 2023 10:00:51 AM	SHEET: 1 OF 1

6

5

4

3

2

1

6

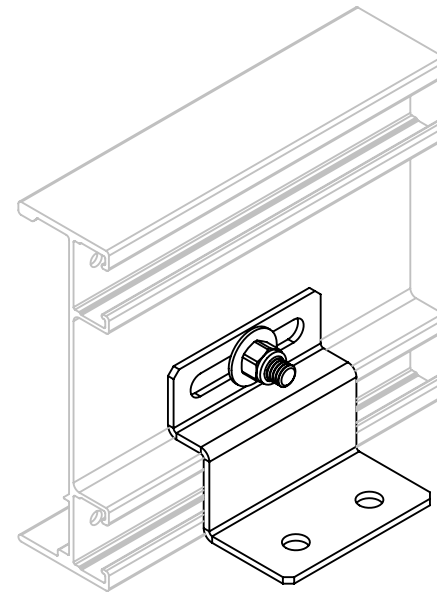
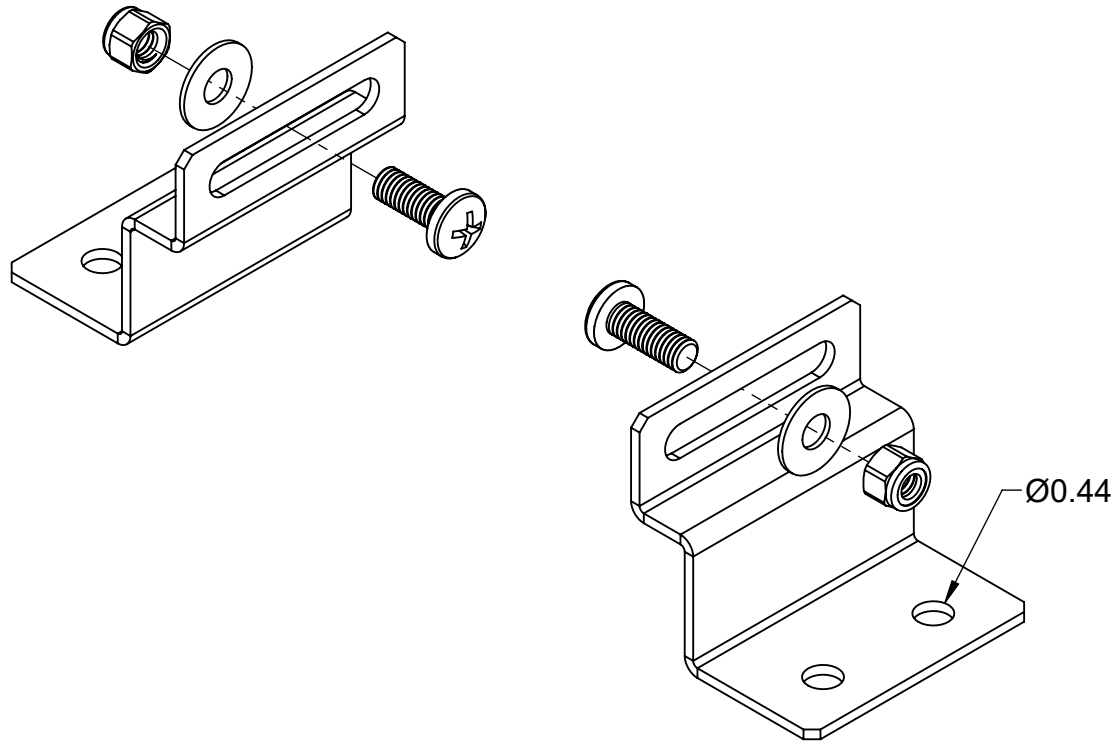
5

4

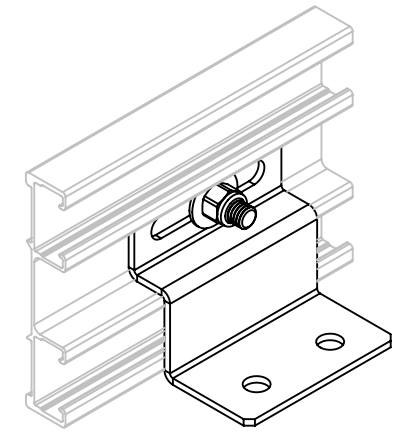
3

2

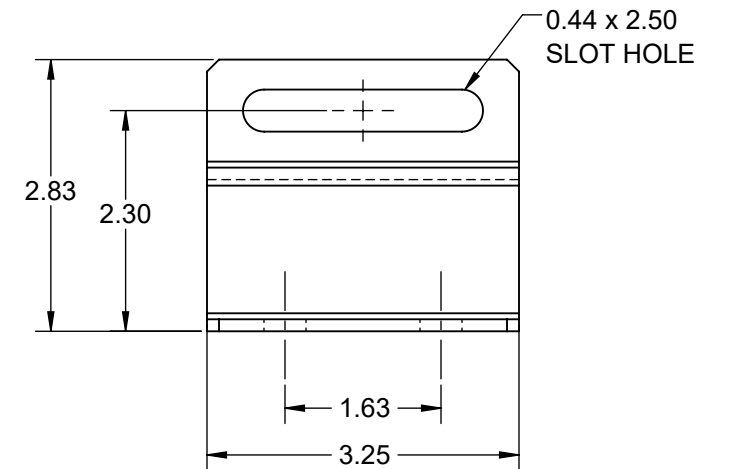
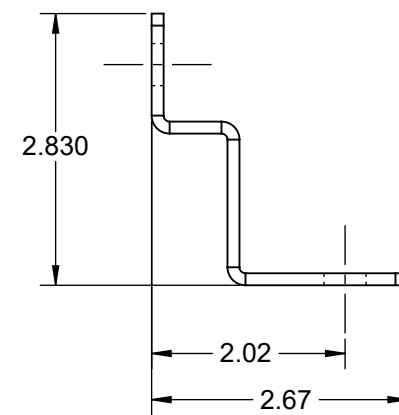
1



INSTALLED VIEW
(6" SIDERAIL)



INSTALLED VIEW
(4" SIDERAIL)



TTA - GUIDE - 2HD

SERIES
TTA = TOUGHTray
ACCESSORIES

GUIDE =
BOLT-THRU GUIDE

2HD =
EXTRA
HEAVY DUTY

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-GUIDE-2HD
EXTRA HD BOLT-THRU GUIDE**

DRAWN BY/DATE:
DL 20NOV2023

SIZE: **B** DWG. NO.: **CTI-S48062** REV: **B**

APPROVED BY/DATE:
JDG 30OCT2023

SCALE: **NTS** SHEET: **1 OF 1**
CAD FILE NAME: CTI-48062_A
CAD SAVE DATE: Monday, November 20, 2023 10:00:03 AM

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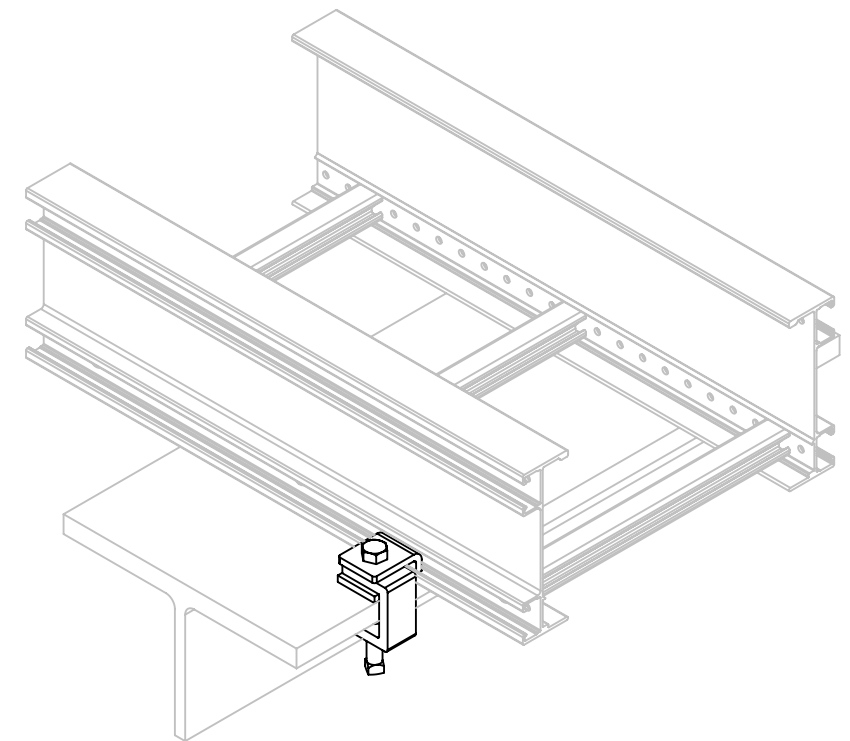
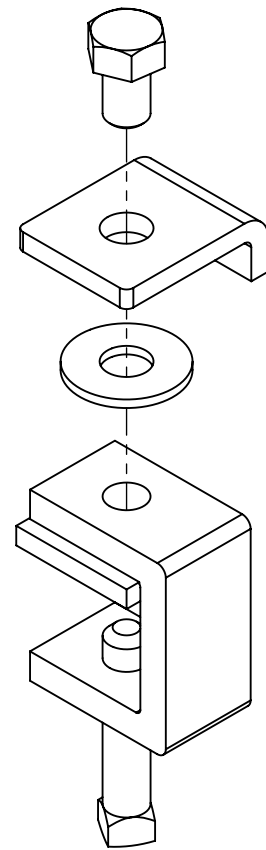
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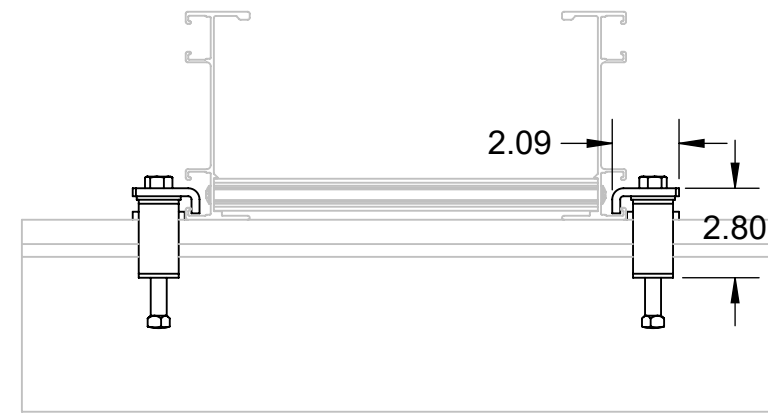
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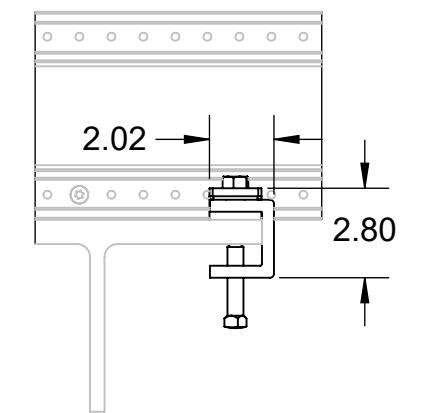
A



INSTALLED ISO VIEW



FRONT VIEW



SIDE VIEW

TTA - GUIDE - NP

SERIES
TTA = TOUGHTray
ACCESSORIES

TYPE
GUIDE =
GUIDE RESTRAINT


NP =
NON
PENETRATING

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.

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.

 CT INNOVATIONS	TITLE: TTA-GUIDE-NP TTA GUIDE RESTRAINT, NON PENETRATING			
	DRAWN BY/DATE: LW 30OCT2023	SIZE: B	DWG. NO.: CTI-S48158	REV: A
	APPROVED BY/DATE: JDG 30OCT2023	SCALE: NTS	CAD FILE NAME: TTA-GUIDE-CLAMP-NP_A CAD SAVE DATE: Monday, October 30, 2023 3:12:22 PM	SHEET: 1 OF 1

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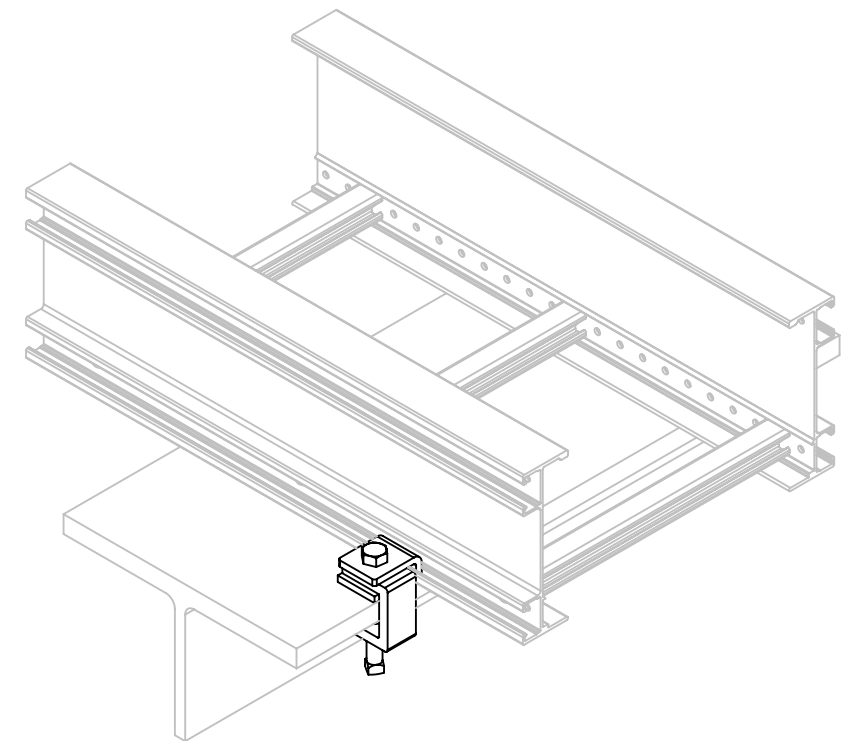
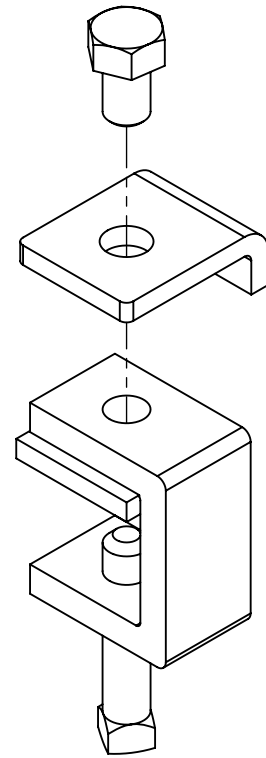
C

B

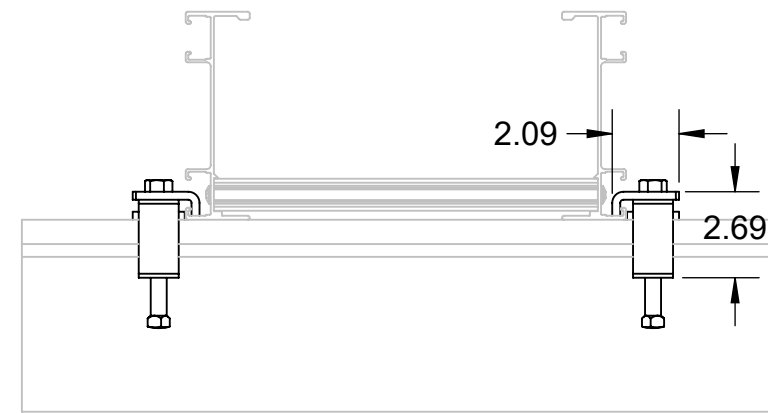
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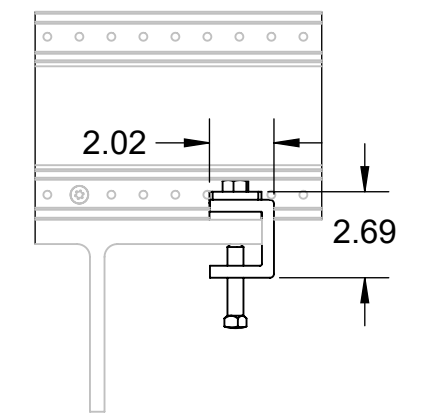
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INSTALLED ISO VIEW



FRONT VIEW



SIDE VIEW

TTA - CLAMP - NP

SERIES
TTA = TOUGHTray
ACCESSORIES

TYPE
CLAMP =
CLAMP RESTRAINT


NP =
NON
PENETRATING

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.

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.

 CT INNOVATIONS	TITLE: TTA-CLAMP-NP TTA CLAMP RESTRAINT, NON PENETRATING			
	DRAWN BY/DATE: LW 30OCT2023	SIZE: B	DWG. NO.: CTI-S48159	REV: A
	APPROVED BY/DATE: JDG 30OCT2023	SCALE: NTS	CAD FILE NAME: TTA-GUIDE-CLAMP-NP_A CAD SAVE DATE: Monday, October 30, 2023 3:13:05 PM	SHEET: 1 OF 1

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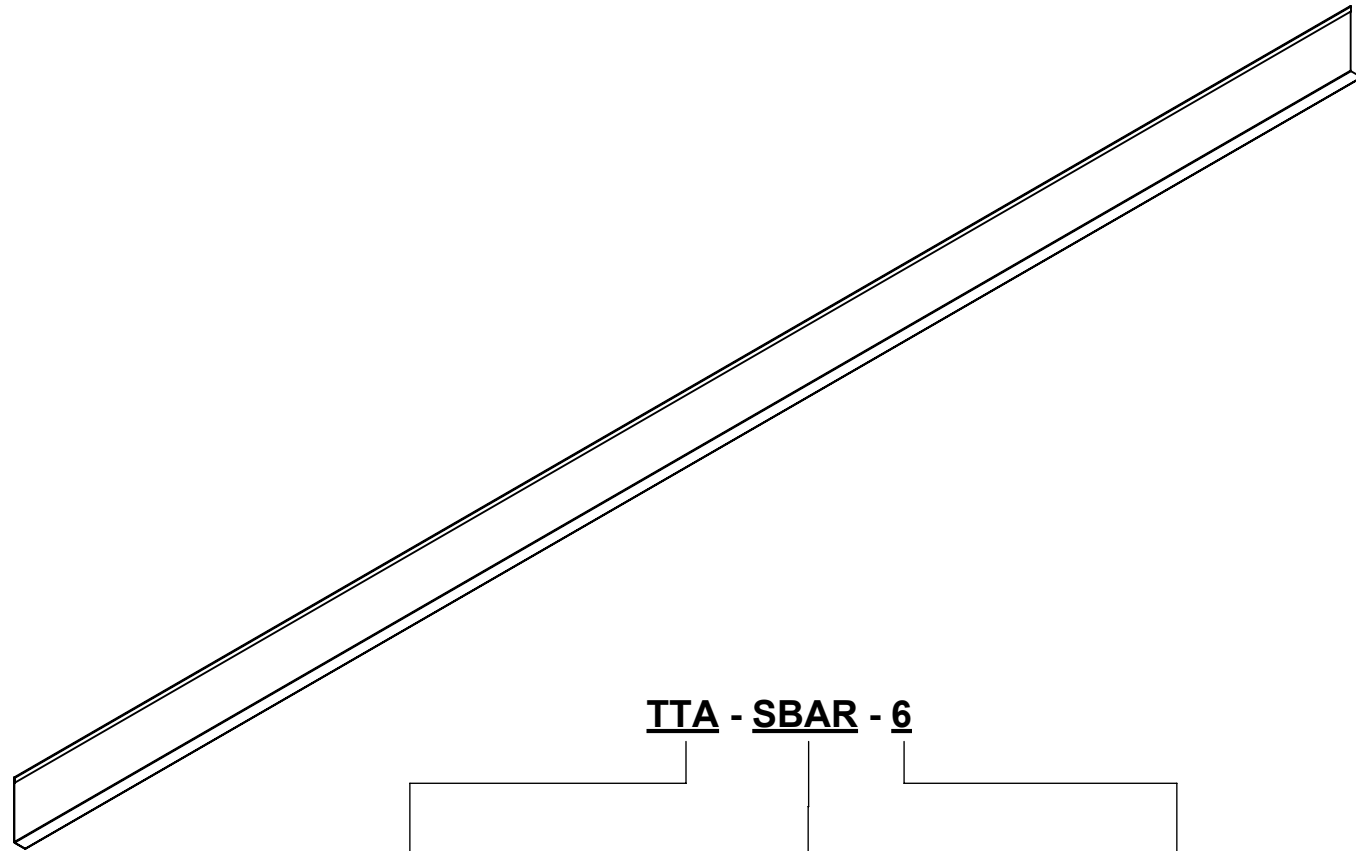
C

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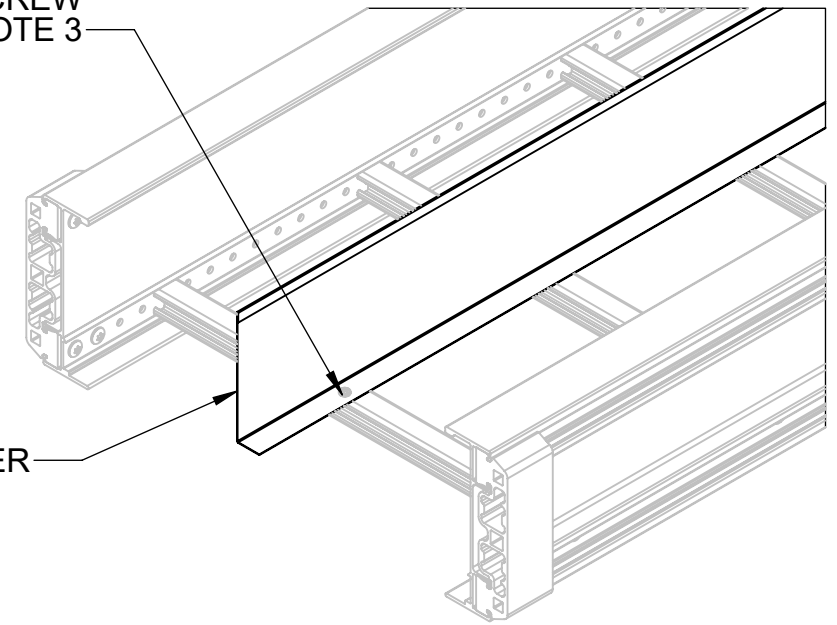
TTA - SBAR - 6

SERIES
TTA = TOUGHTray
ACCESSORIES

TYPE
SBAR =
STRAIGHT
BARRIER

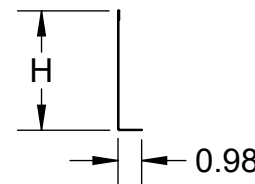
SIDERAIL
HEIGHT(H)
4 = 4"
6 = 6"

1/4 SELF DRILLING SCREW
SEE NOTE 3

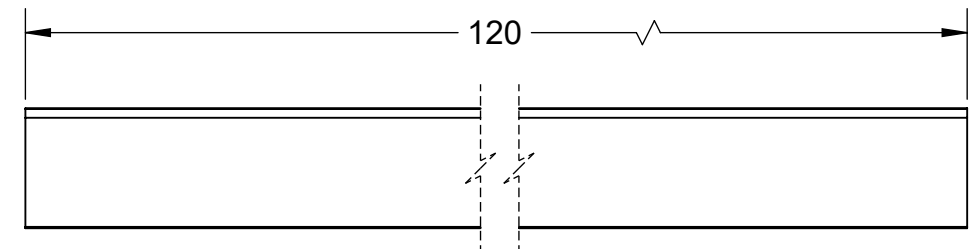


BARRIER

INSTALLED VIEW



SECTION VIEW



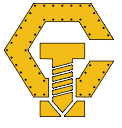
SIDE VIEW

PATENT PENDING

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) INCLUDES 3PCS 1/4 SELF-DRILLING SCREW.

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.

 CT INNOVATIONS		TITLE:		
		TTA-SBAR-(H) TTA STRAIGHT BARRIER		
DRAWN BY/DATE: LW 27FEB2024		SIZE: B	DWG. NO.: CTI-S48989	REV: B
APPROVED BY/DATE: JDG 29FEB2024		SCALE: NTS	CAD FILE NAME: TTA-SBAR-(H)_A CAD SAVE DATE: Tuesday, February 27, 2024 9:25:06 PM	SHEET: 1 OF 1

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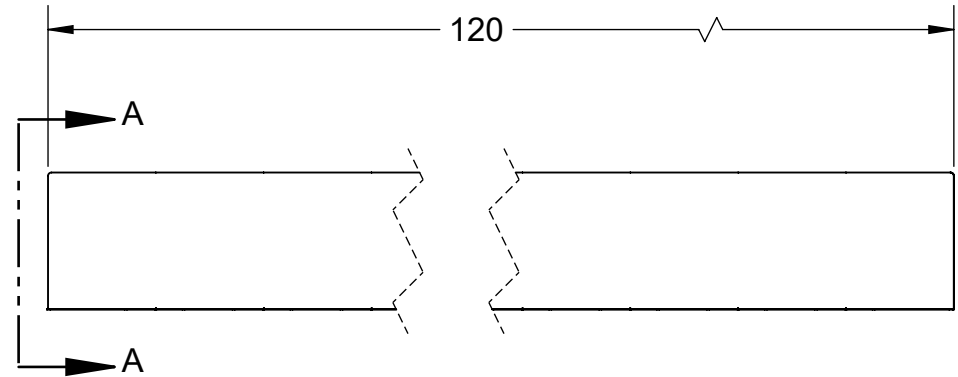
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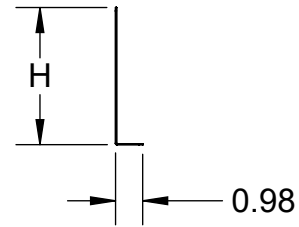
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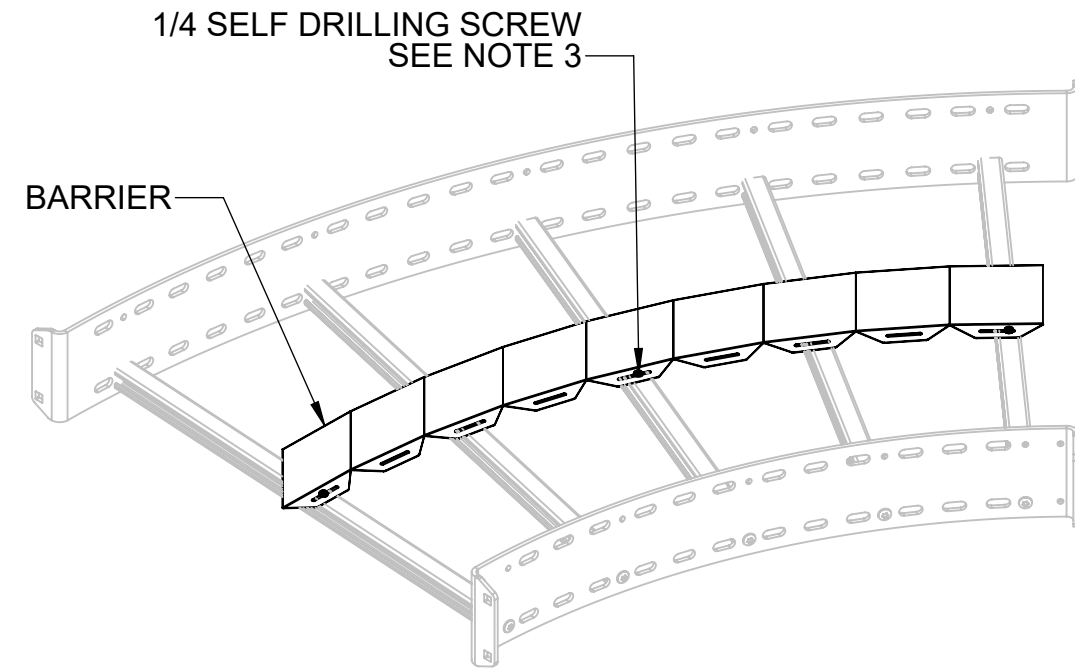
A



SIDE VIEW



SECTION A-A



INSTALLED VIEW

TTA - HBAR - 4

SERIES
TTF = TOUGHTray
ACCESSORIES

TYPE
VOBAR =
VERTICAL
OUTSIDE
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) INCLUDES 3PCS 1/4 SELF-DRILLING SCREW.

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
TTA SERIES HORIZONTAL BEND BARRIER**

DRAWN BY/DATE:
LW 01DEC2023

SIZE: **B** DWG. NO.: **CTI-S48983** REV: **A**

APPROVED BY/DATE:
JDG 04DEC2023

SCALE: **NTS** CAD FILE NAME: TTA-HBAR_A
CAD SAVE DATE: Friday, December 1, 2023 7:33:10 PM SHEET: **1 OF 1**

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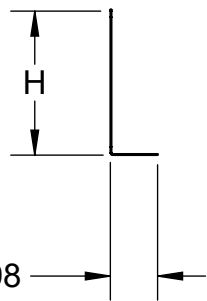
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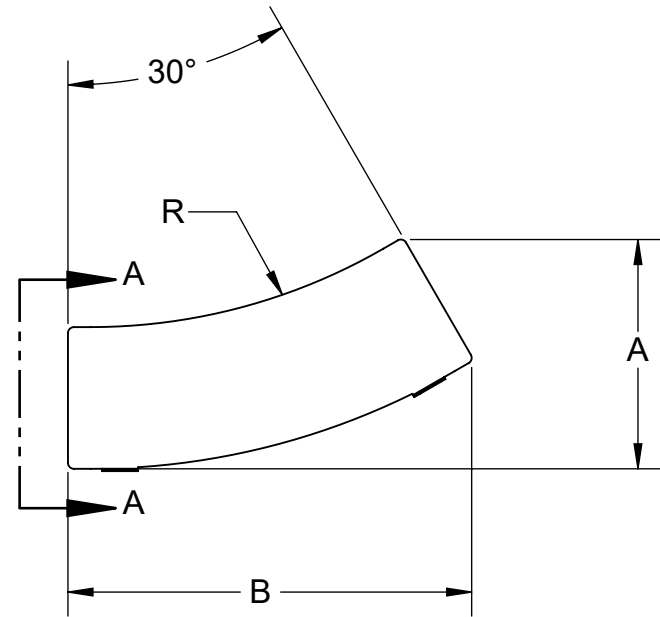
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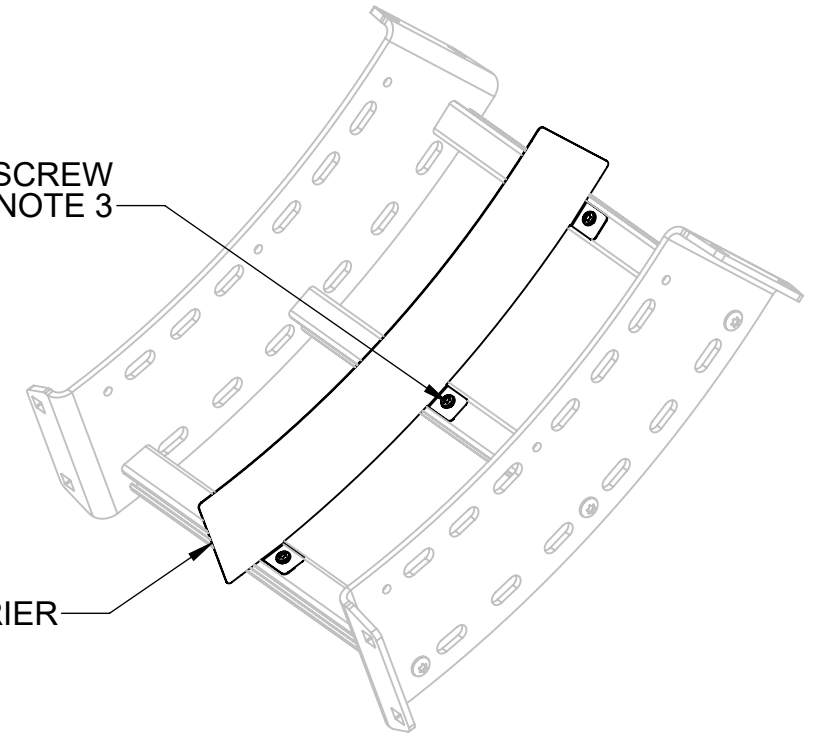
SECTION A-A



SIDE VIEW

1/4 SELF DRILLING SCREW
SEE NOTE 3

BARRIER



INSTALLED VIEW

TTA - 30 VIBAR - 4 - 12

SERIES
TTA = TOUGHTray
ACCESSORIES

ANGLE
30 = 30°


TYPE
VIBAR =
VERTICAL
INSIDE
BARRIER

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

RADIUS (R)
12 = 12"
24 = 24"
36 = 36"

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

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.

 CT INNOVATIONS	TITLE: 4" AND 6" HEIGHT (30° ANGLE) TTA SERIES VERITCAL INSIDE BARRIER			
	DRAWN BY/DATE: LW 01DEC2023	SIZE: B	DWG. NO.: CTI-S48986	REV: A
	APPROVED BY/DATE: JDG 04DEC2023	SCALE: NTS	CAD FILE NAME: TTA-30VIBAR_A CAD SAVE DATE: Friday, December 1, 2023 6:47:23 PM	SHEET: 1 OF 1

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) INCLUDES 3PCS 1/4 SELF-DRILLING SCREW.

PATENT PENDING

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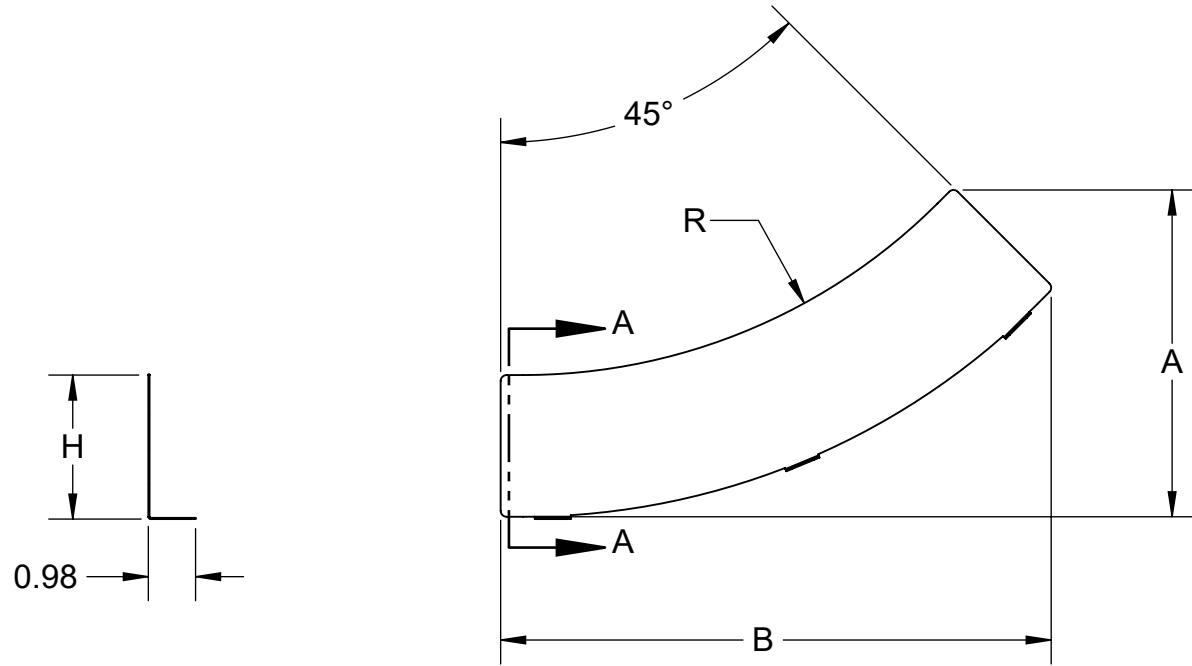
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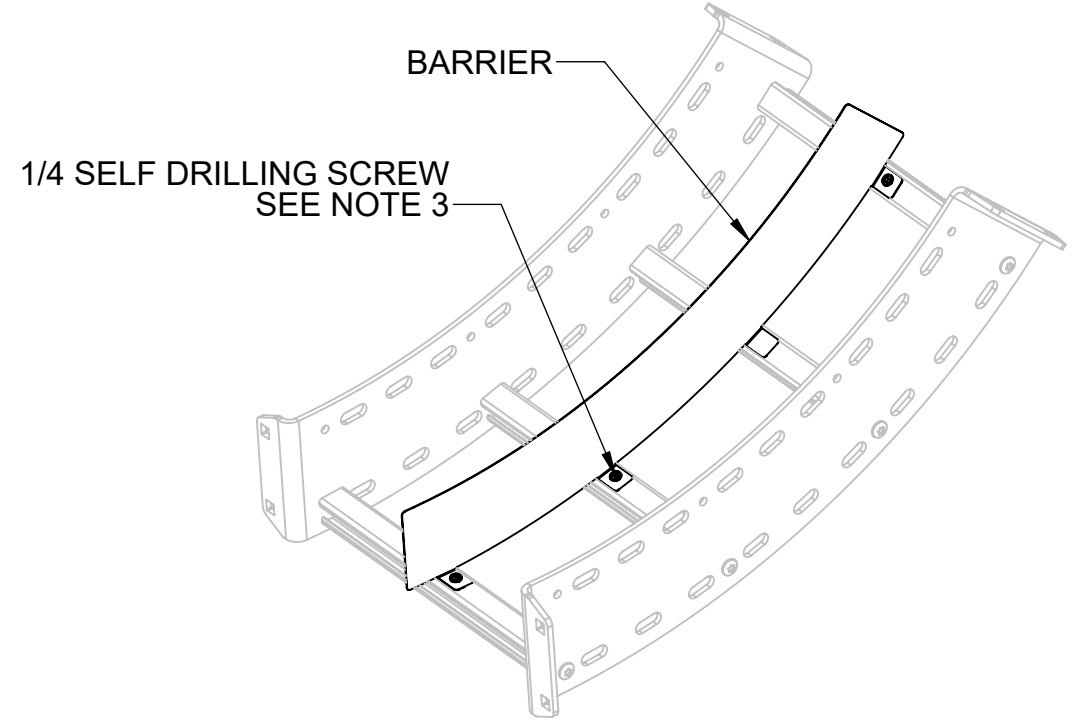
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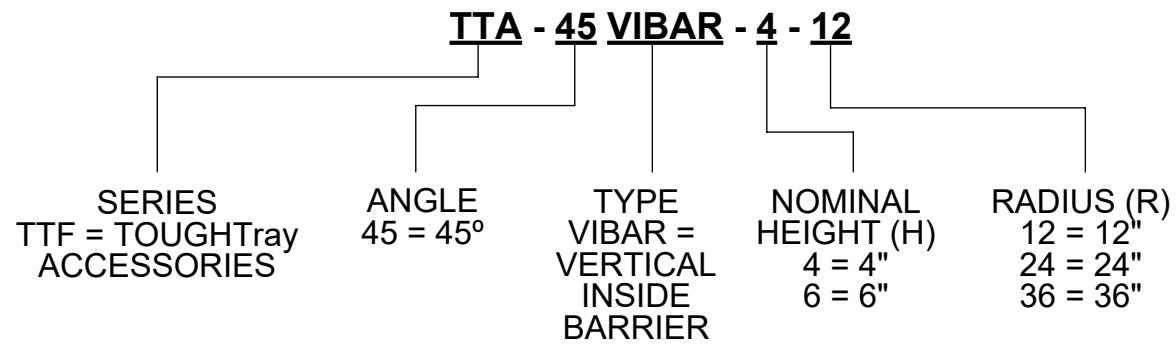


SECTION A-A

SIDE VIEW



INSTALLED VIEW




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

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) INCLUDES 3PCS 1/4 SELF-DRILLING SCREW.

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.

 CT INNOVATIONS	TITLE: 4" AND 6" HEIGHT (45° ANGLE) TTA SERIES VERTICAL INSIDE BARRIER			
	DRAWN BY/DATE: LW 01DEC2023	SIZE: B	DWG. NO.: CTI-S48987	REV: A
	APPROVED BY/DATE: JDG 04DEC2023	SCALE: NTS	CAD FILE NAME: TTA-45VIBAR_A CAD SAVE DATE: Friday, December 1, 2023 6:34:55 PM	SHEET: 1 OF 1

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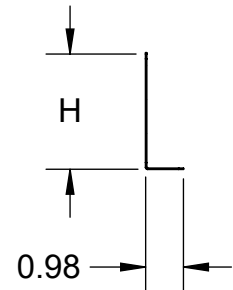
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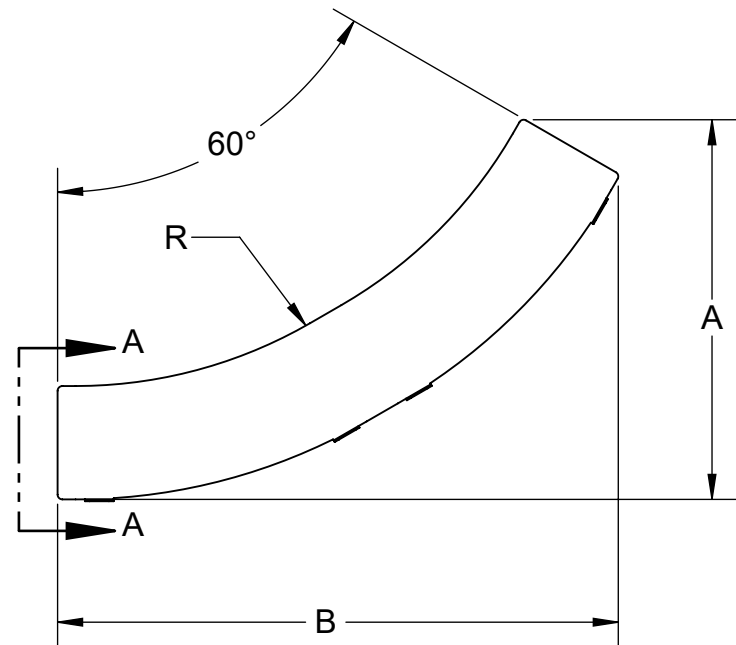
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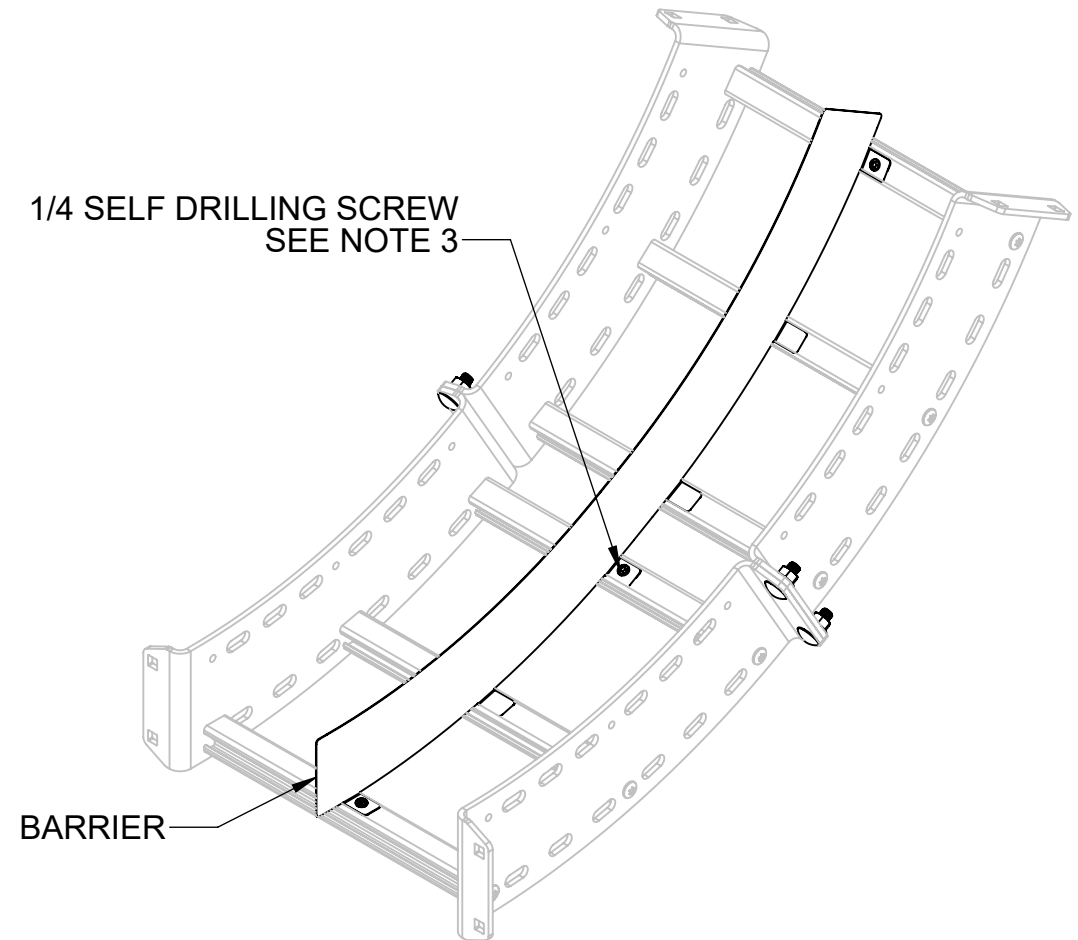
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SECTION A-A



SIDE VIEW



INSTALLED VIEW

TTA - 60 VIBAR - 4 - 12

SERIES
TTA = TOUGHTray
ACCESSORIES

ANGLE
60 = 60°

TYPE
VIBAR =
VERTICAL
INSIDE
BARRIER

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

RADIUS (R)
12 = 12"
24 = 24"
36 = 36"


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) INCLUDES 3PCS 1/4 SELF-DRILLING SCREW.

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.

 CT INNOVATIONS	TITLE: 4" AND 6" HEIGHT (60° ANGLE) TTA SERIES VERTICAL INSIDE BARRIER		
	DRAWN BY/DATE: LW 01DEC2023	SIZE: B	DWG. NO.: CTI-S48979
APPROVED BY/DATE: JDG 04DEC2023	SCALE: NTS	CAD FILE NAME: TTA-60VIBAR_A CAD SAVE DATE: Friday, December 1, 2023 9:19:50 PM	SHEET: 1 OF 1

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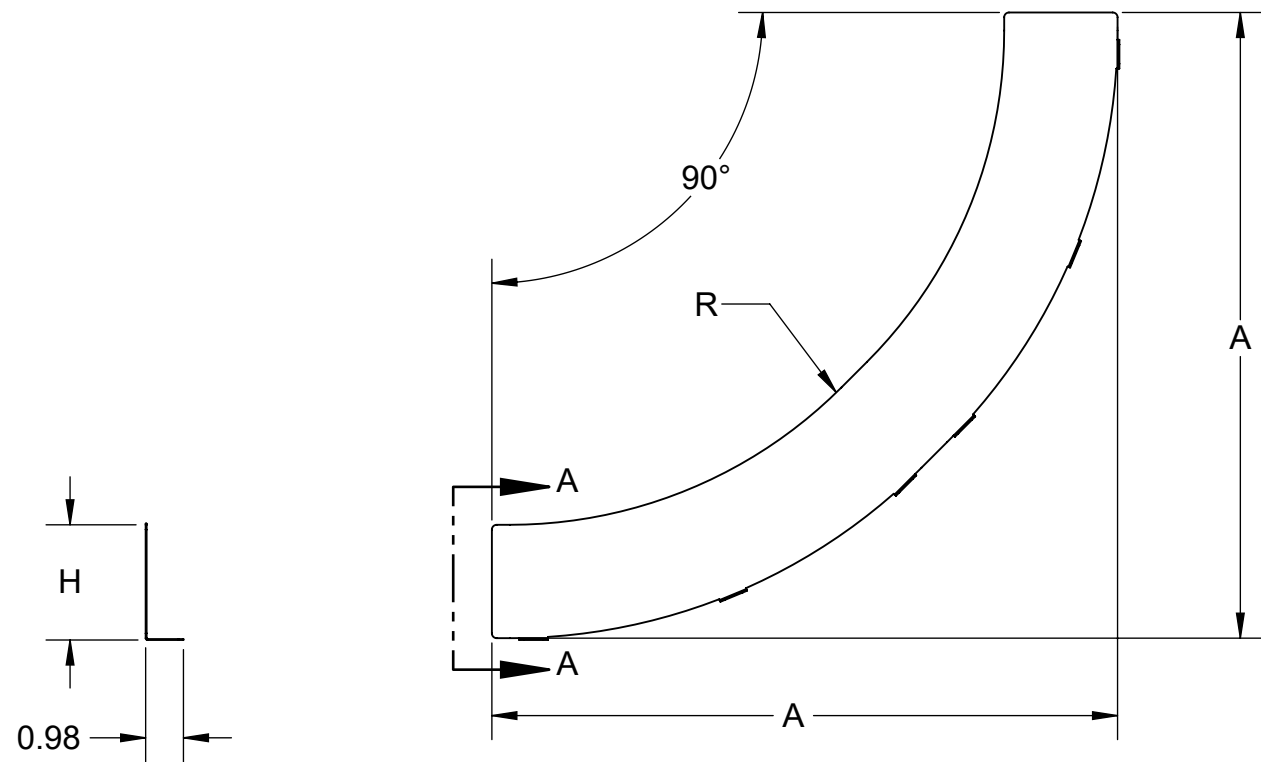
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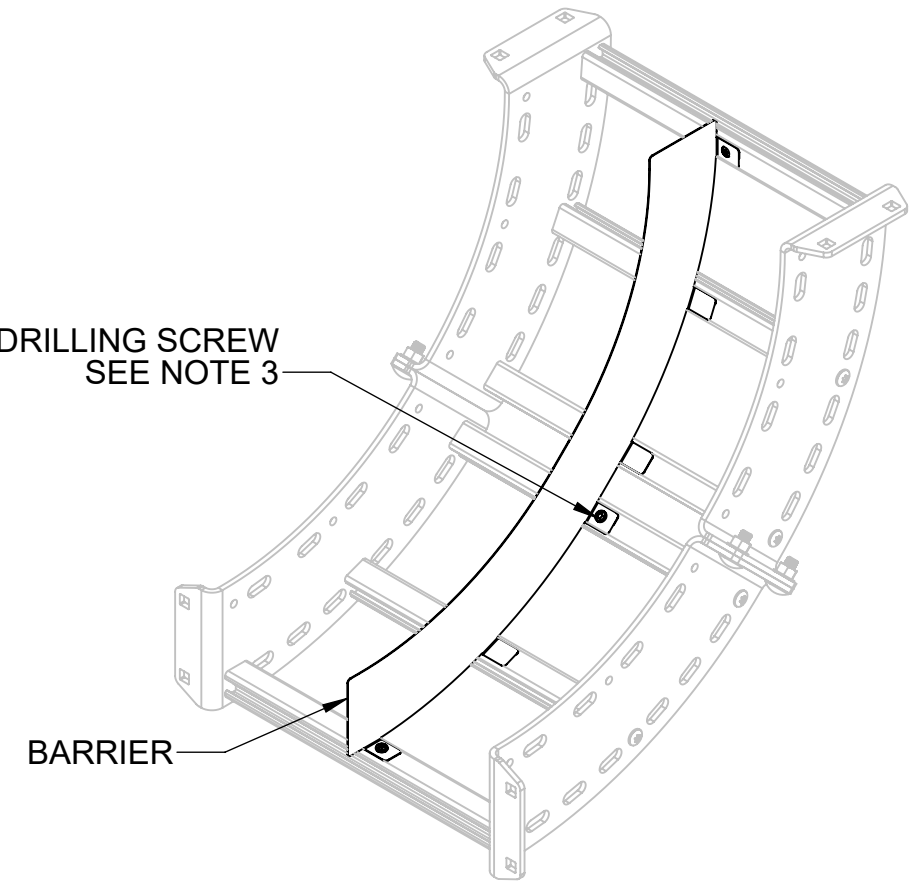
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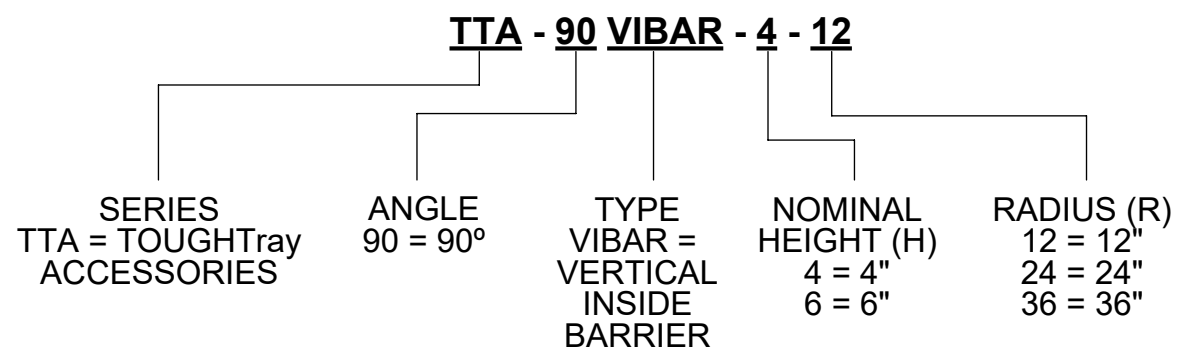
SECTION A-A

SIDE VIEW

1/4 SELF DRILLING SCREW
SEE NOTE 3



INSTALLED VIEW



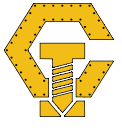
PART NUMBER	A
TTA-90VIBAR-4-12	16.29
TTA-90VIBAR-4-24	28.27
TTA-90VIBAR-4-36	40.27
TTA-90VIBAR-6-12	18.27
TTA-90VIBAR-6-24	30.27
TTA-90VIBAR-6-36	42.27

NOTES:

- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) INCLUDES 3PCS 1/4 SELF-DRILLING SCREW.

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.

 CT INNOVATIONS		TITLE: 4" AND 6" HEIGHT (90° ANGLE) TTA SERIES VERITCAL INSIDE BARRIER	
DRAWN BY/DATE: LW 28DEC2023	SIZE: B	DWG. NO.: CTI-S48981	REV: A
APPROVED BY/DATE: JDG 04DEC2023	SCALE: NTS	CAD FILE NAME: TTA-90VIBAR_A CAD SAVE DATE: Thursday, December 21, 2023 12:32:47 PM	SHEET: 1 OF 1

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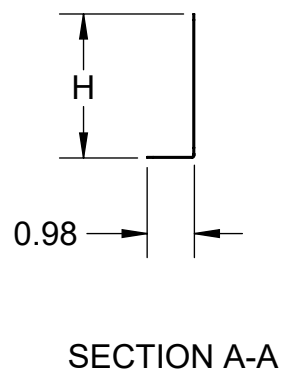
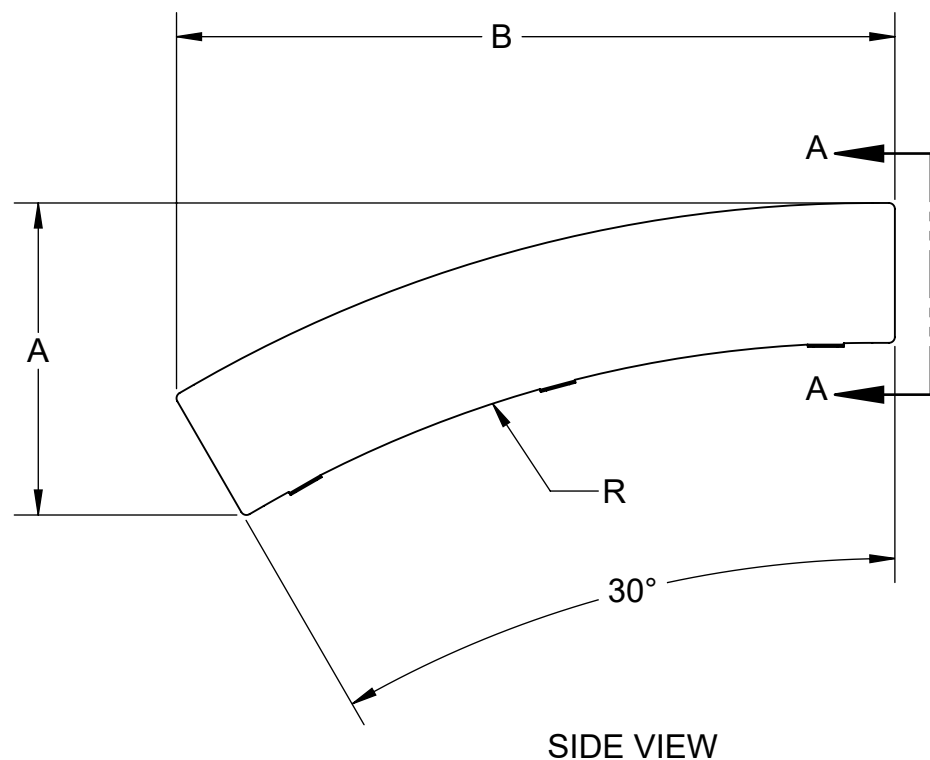
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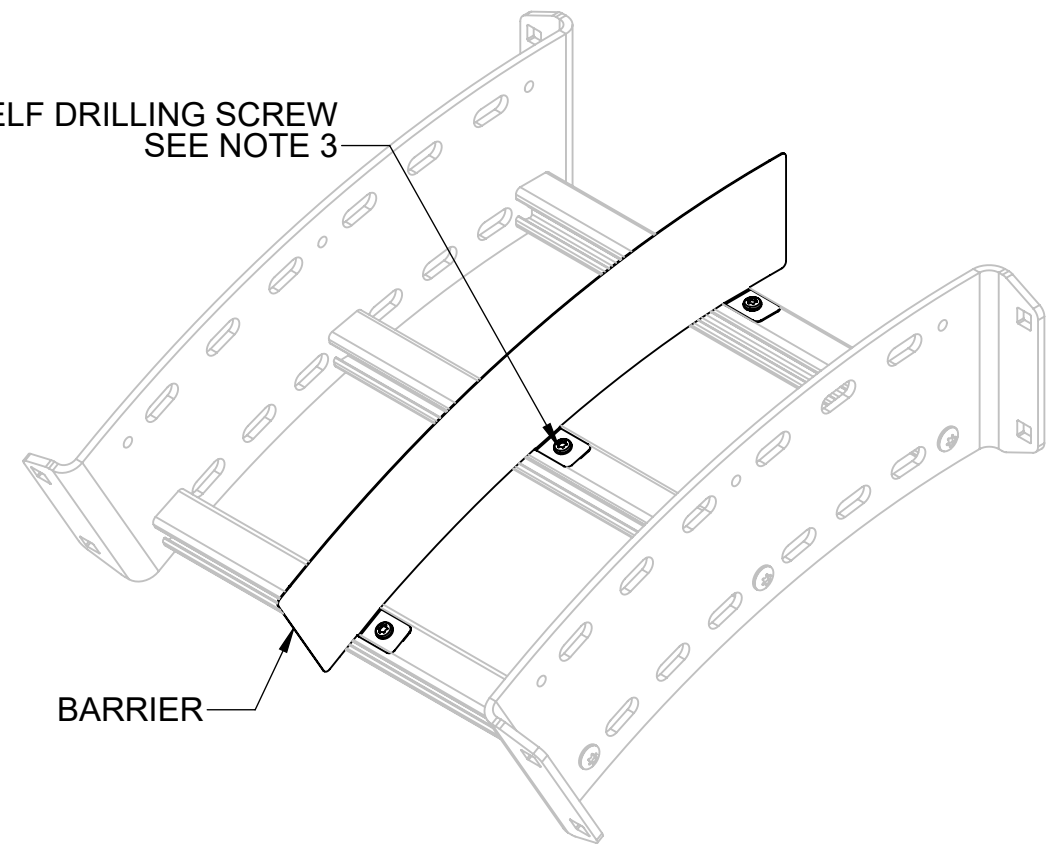
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1/4 SELF DRILLING SCREW
SEE NOTE 3



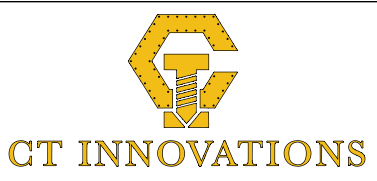
TTA - 30 VOBAR - 4 - 12

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"
--	-------------------	---	---	--

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

NOTES:
 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
 3) INCLUDES 3PCS 1/4 SELF-DRILLING SCREW.

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>			
 CT INNOVATIONS		TITLE: 4" AND 6" HEIGHT (30° ANGLE) TTA SERIES VERITCAL OUTSIDE BARRIER	
DRAWN BY/DATE: LW 01DEC2023	SIZE: B	DWG. NO.: CTI-S48984	REV: A
APPROVED BY/DATE: JDG 04DEC2023	SCALE: NTS	<small>CAD FILE NAME: TTA-30VOBAR_A</small> <small>CAD SAVE DATE: Thursday, December 21, 2023 12:29:25 PM</small>	SHEET: 1 OF 1

6

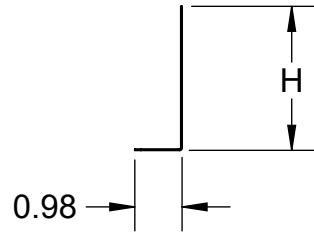
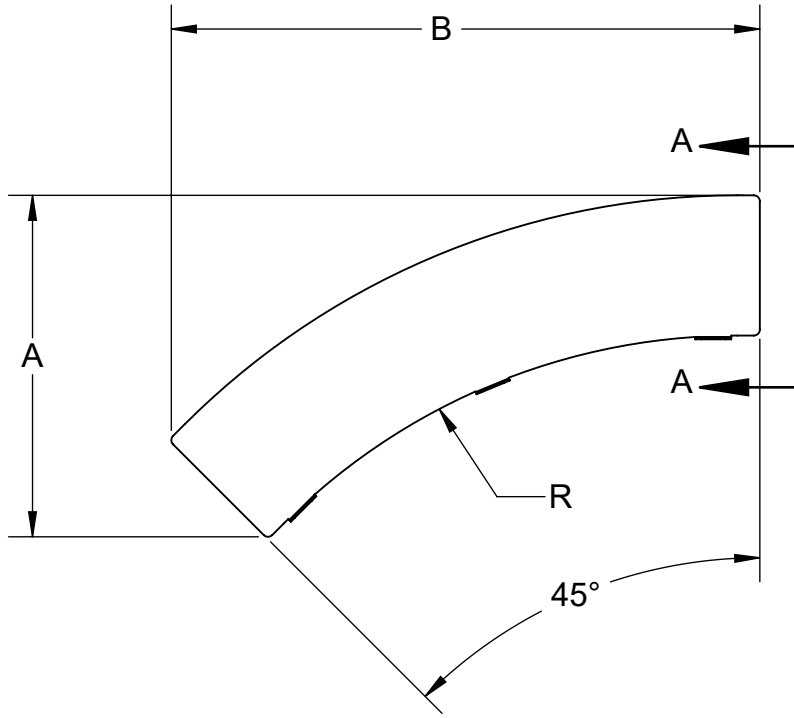
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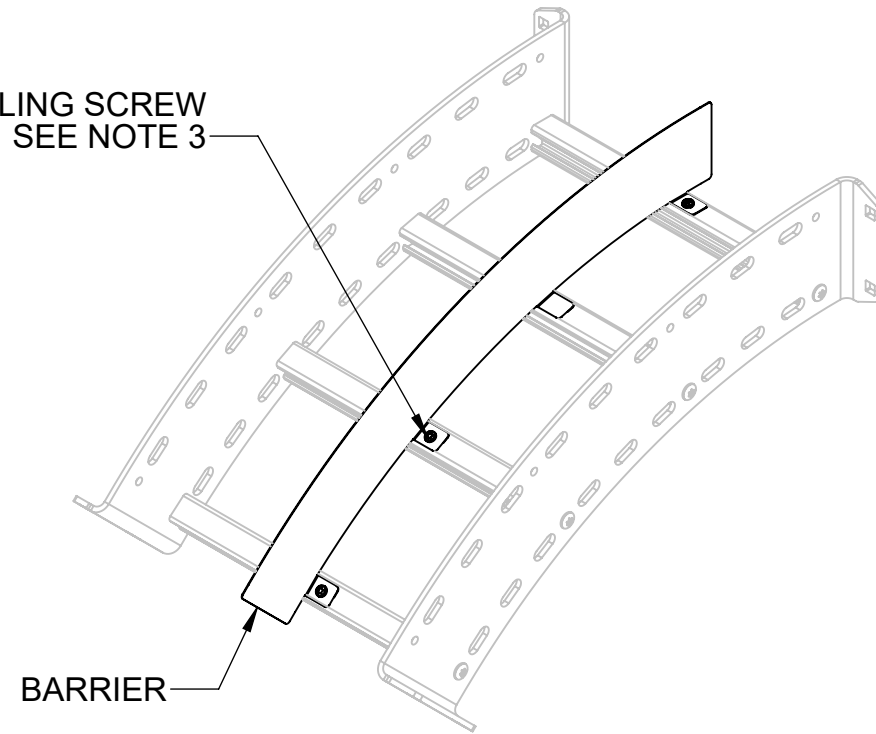
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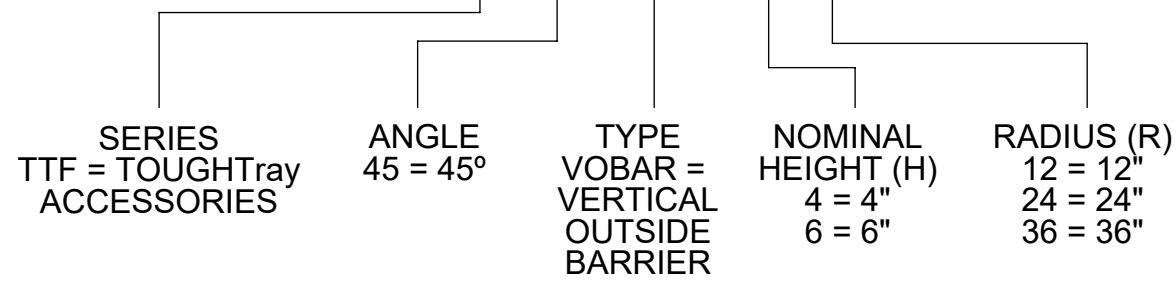


1/4 SELF DRILLING SCREW
SEE NOTE 3



INSTALLED VIEW

TTA - 45 VOBAR - 4 - 12



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

- NOTES:**
- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
 - 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
 - 3) INCLUDES 3PCS 1/4 SELF-DRILLING SCREW.

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 (45° ANGLE) TTA SERIES VERITCAL OUTSIDE BARRIER		
	DRAWN BY/DATE: LW 01DEC2023	SIZE: B	DWG. NO.: CTI-S48985
APPROVED BY/DATE: JDG 04DEC2023	SCALE: NTS	CAD FILE NAME: TTA-45VOBAR_A CAD SAVE DATE: Friday, December 1, 2023 7:16:30 PM	SHEET: 1 OF 1

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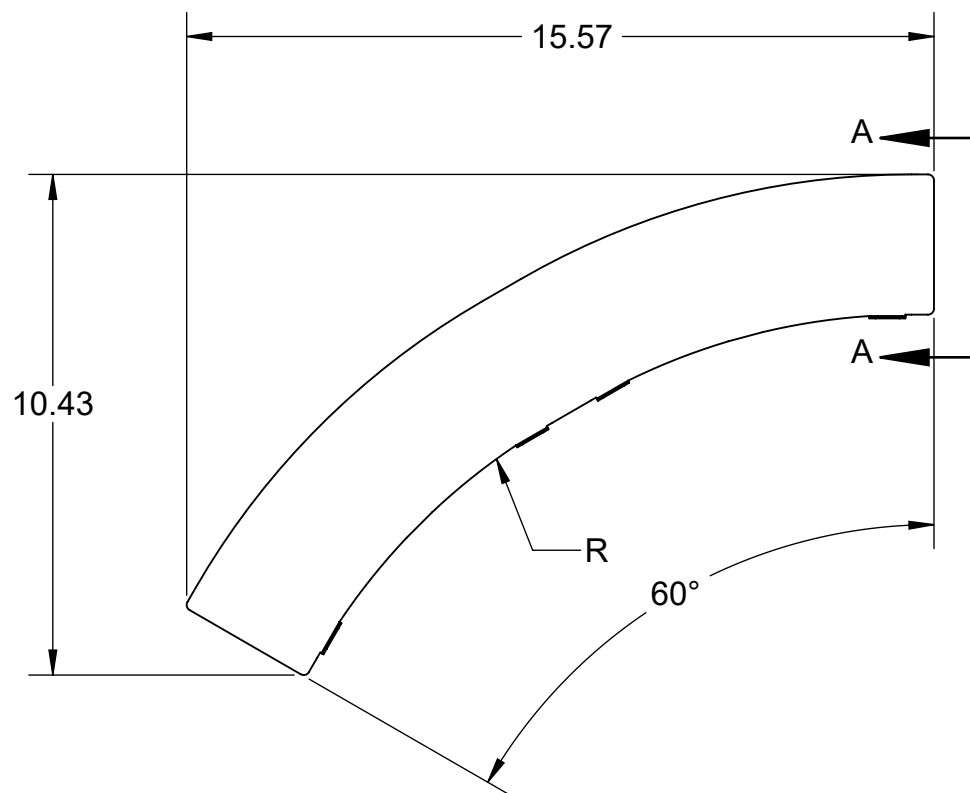
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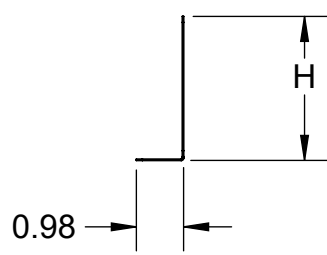
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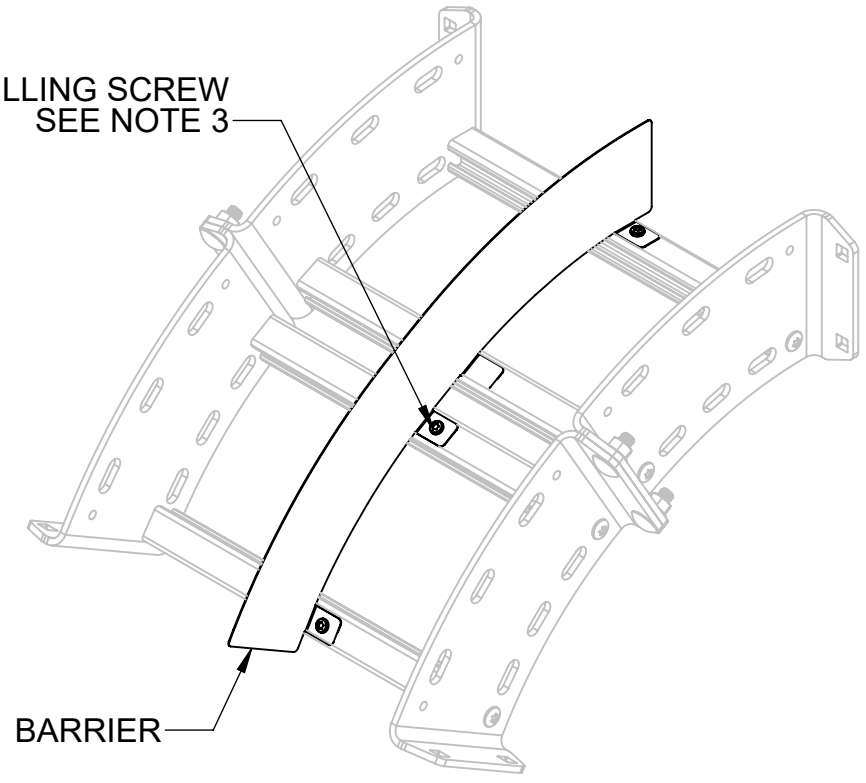


SIDE VIEW



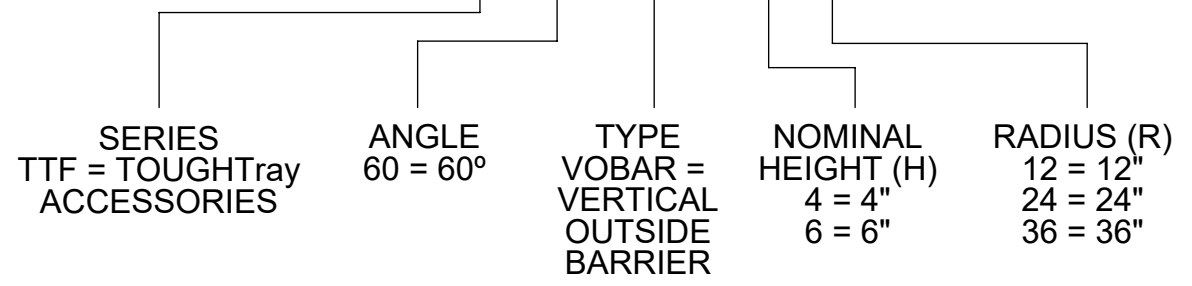
SECTION A-A

1/4 SELF DRILLING SCREW
SEE NOTE 3



INSTALLED VIEW

TTA - 60 VOBAR - 4 - 12




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

- NOTES:**
- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
 - 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
 - 3) INCLUDES 3PCS 1/4 SELF-DRILLING SCREW.

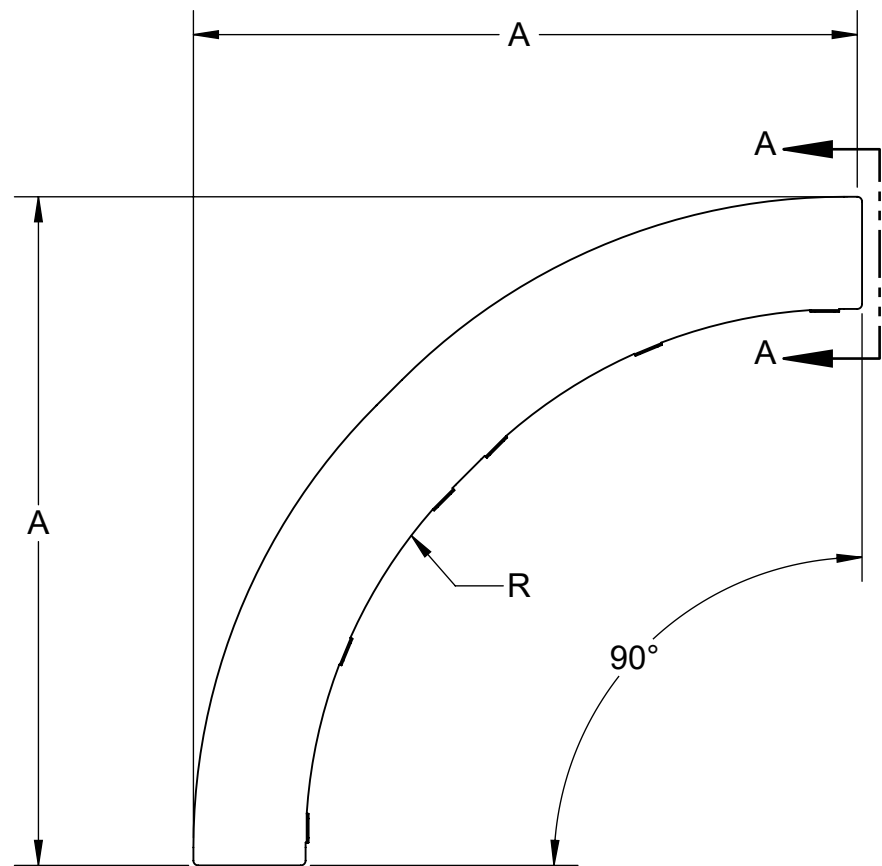
PATENT PENDING

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.

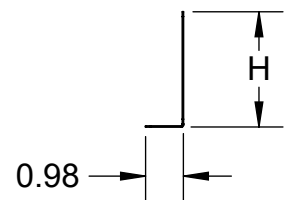


TITLE:
4" AND 6" HEIGHT (60° ANGLE)
TTA SERIES VERITICAL OUTSIDE BARRIER

DRAWN BY/DATE: LW 01DEC2023	SIZE: B	DWG. NO.: CTI-S48980	REV: A
APPROVED BY/DATE: JDG 04DEC2023	SCALE: NTS	CAD FILE NAME: 60VBAR CAD SAVE DATE: Thursday, December 21, 2023 12:33:19 PM	SHEET: 1 OF 1

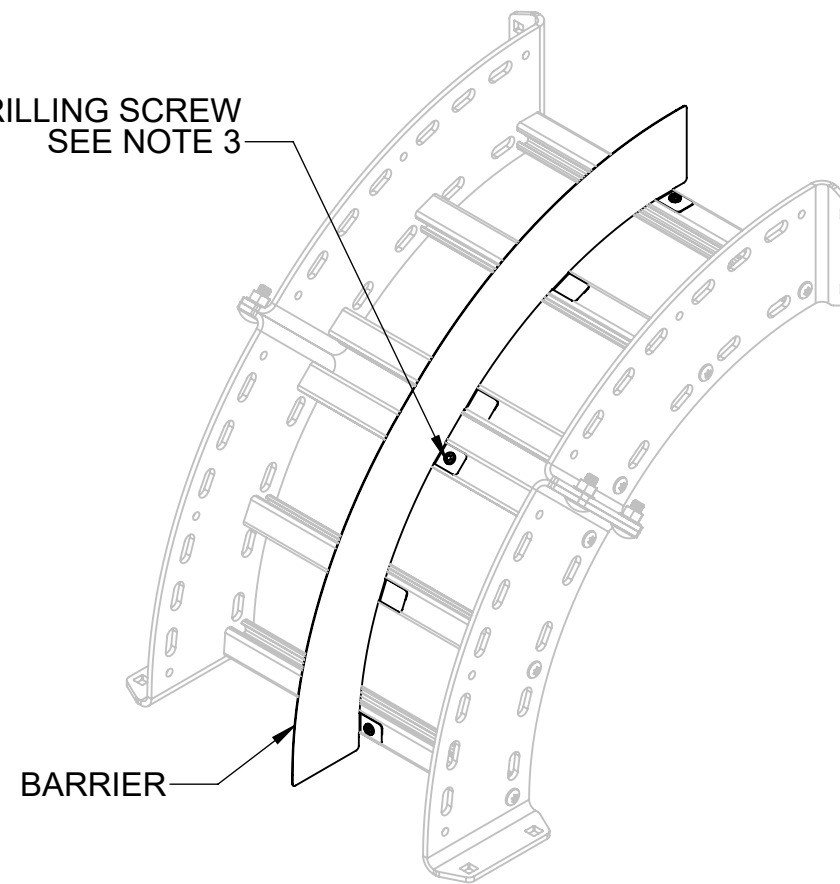


SIDE VIEW



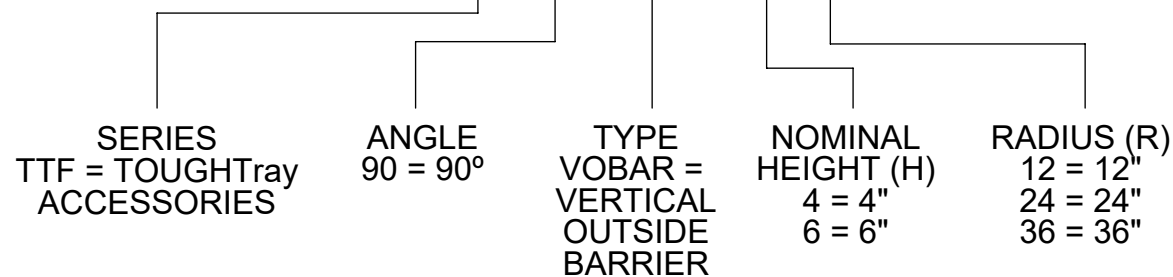
SECTION A-A

1/4 SELF DRILLING SCREW
SEE NOTE 3



INSTALLED VIEW

TTA - 90 VOBAR - 4 - 12



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

NOTES:

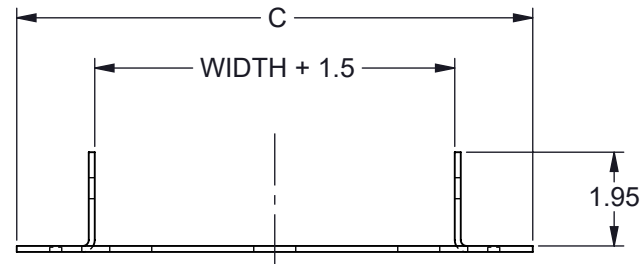
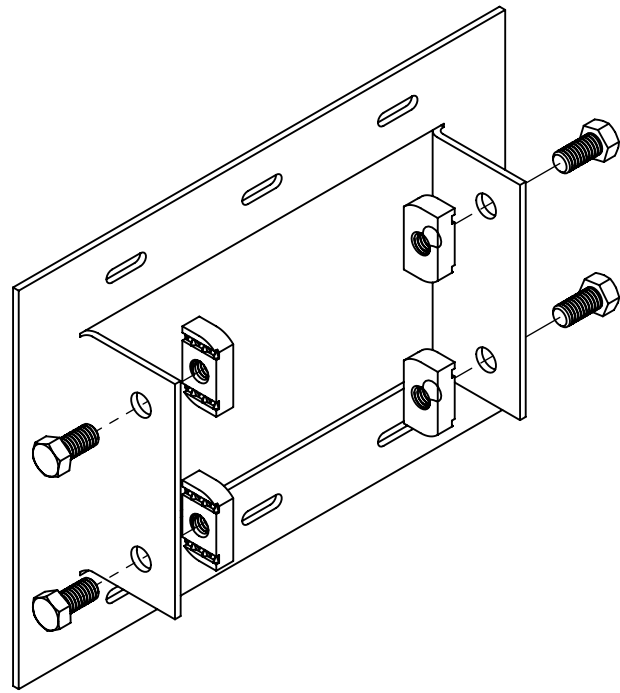
- 1) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
- 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
- 3) INCLUDES 3PCS 1/4 SELF-DRILLING SCREW.

PATENT PENDING

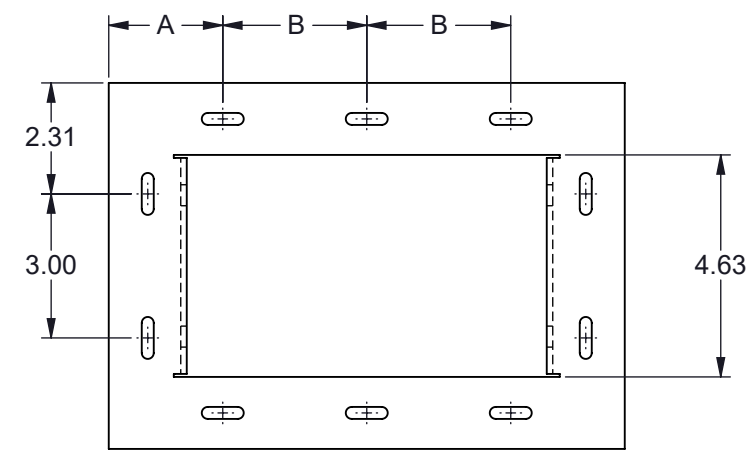
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

	TITLE: 4" AND 6" HEIGHT (90° ANGLE) TTA SERIES VERITICAL OUTSIDE BARRIER		
	DRAWN BY/DATE: LW 01DEC2023	SIZE: B	DWG. NO.: CTI-S48982
APPROVED BY/DATE: JDG 04DEC2023	SCALE: NTS	CAD FILE NAME: 90VBAR CAD SAVE DATE: Thursday, December 21, 2023 12:31:48 PM	SHEET: 1 OF 1

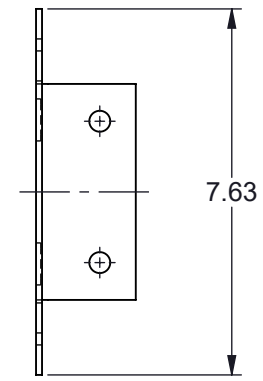
PART NUMBER	A	B	C
TTA-FTBC-4-06	2.38	3	10.75
TTA-FTBC-4-09	2.88	4	13.75
TTA-FTBC-4-12	3.38	5	16.75
TTA-FTBC-4-18	3.38	8	22.75
TTA-FTBC-4-24	3.38	11	28.75
TTA-FTBC-4-30	3.38	14	34.75
TTA-FTBC-4-36	3.38	17	40.75



TOP VIEW



FRONT VIEW



SIDE VIEW

TTA - FTBC - 4 - 12

SERIES
TTA = TOUGHTray
ACCESSORIES

FTBC =
FRAME TYPE BOX
CONNECTOR

TRAY NOMINAL
HEIGHT
4 = 4"

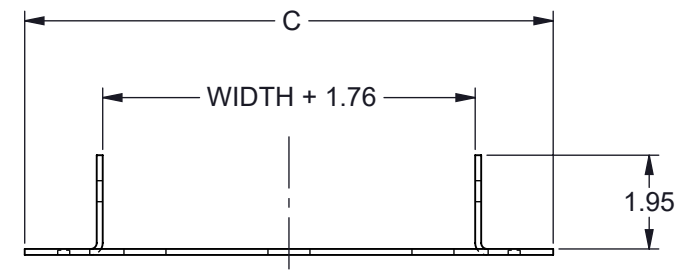
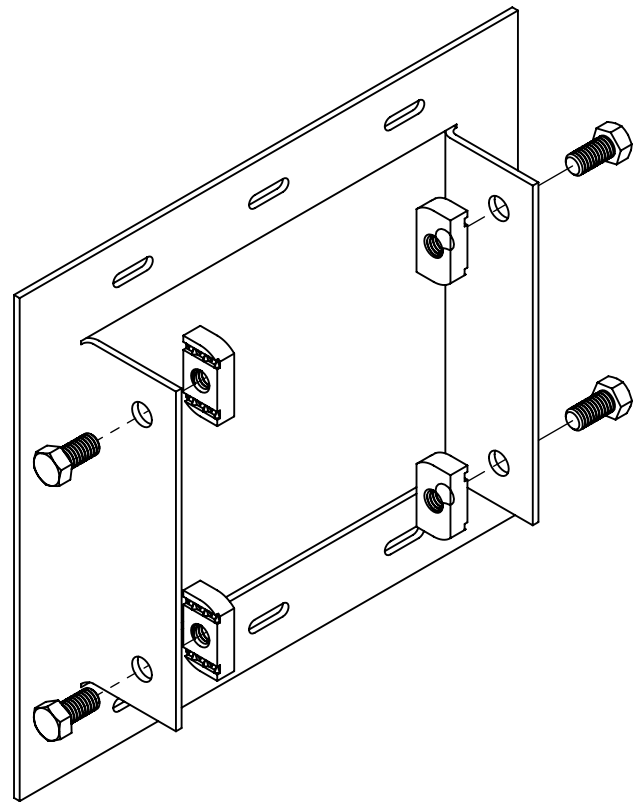
TRAY NOMINAL
WIDTH
06 = 6"
09 = 9"
12 = 12"
18 = 18"
24 = 24"
30 = 30"
36 = 36"

NOTES:
1) DIMENSION SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
2) MATERIAL THICKNESS IS 0.125 INCHES.
3) ALL DIMENSIONS SHOWN ARE NOMINAL.
4) SUPPLIED PER PIECE COMPLETE W/ HARDWARE.

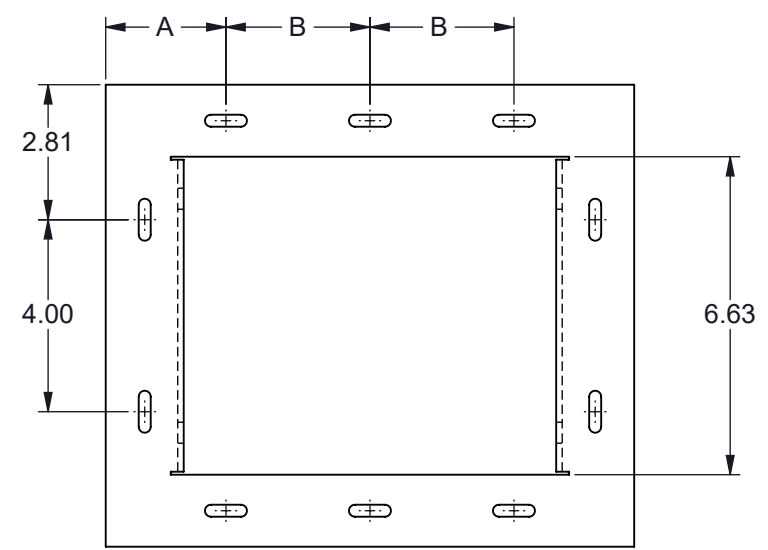
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CT INNOVATIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CT INNOVATIONS IS PROHIBITED.

		TITLE: TTA-FTBC-4-(W) TOUGHTray ACCESSORY FRAME TYPE BOX CONNECTOR	
		SIZE: B	DWG. NO.: CTI-S48978
DRAWN BY/DATE: LW 01DEC2023		SCALE: NTS	REV: A
APPROVED BY/DATE: JDG 04DEC2023		CAD FILE NAME: TTA-FTBC_A CAD SAVE DATE: Friday, December 1, 2023 9:20:11 PM	SHEET: 1 OF 1

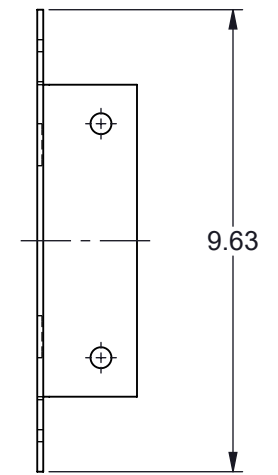
PART NUMBER	A	B	C
TTA-FTBC-6-06	2.51	3	11.01
TTA-FTBC-6-09	3.01	4	14.01
TTA-FTBC-6-12	3.51	5	17.01
TTA-FTBC-6-18	3.51	8	23.01
TTA-FTBC-6-24	3.51	11	29.01
TTA-FTBC-6-30	3.51	14	35.01
TTA-FTBC-6-36	3.51	17	41.01



TOP VIEW



FRONT VIEW



SIDE VIEW

TTA - FTBC - 6 - 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) MATERIAL THICKNESS IS 0.125 INCHES.
 - 3) ALL DIMENSIONS SHOWN ARE NOMINAL.
 - 4) SUPPLIED PER PIECE 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: TTA-FTBC-6-(W) TOUGHTray ACCESSORY FRAME TYPE BOX CONNECTOR			
	DRAWN BY/DATE: LW 01DEC2023	SIZE: B	DWG. NO.: CTI-S48977	REV: A
	APPROVED BY/DATE: JDG 04DEC2023	SCALE: NTS	CAD FILE NAME: TTA-FTBC_A CAD SAVE DATE: Friday, December 1, 2023 9:19:23 PM	SHEET: 1 OF 1

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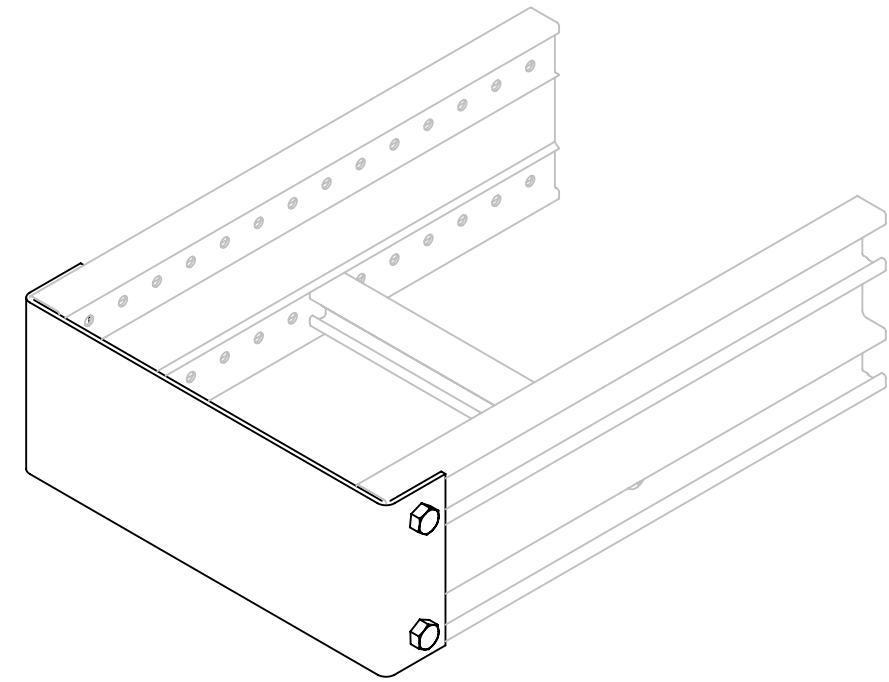
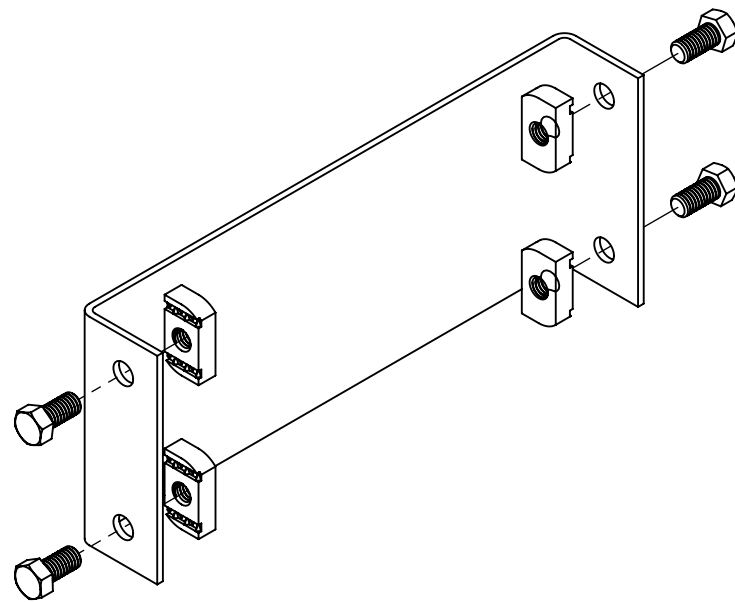
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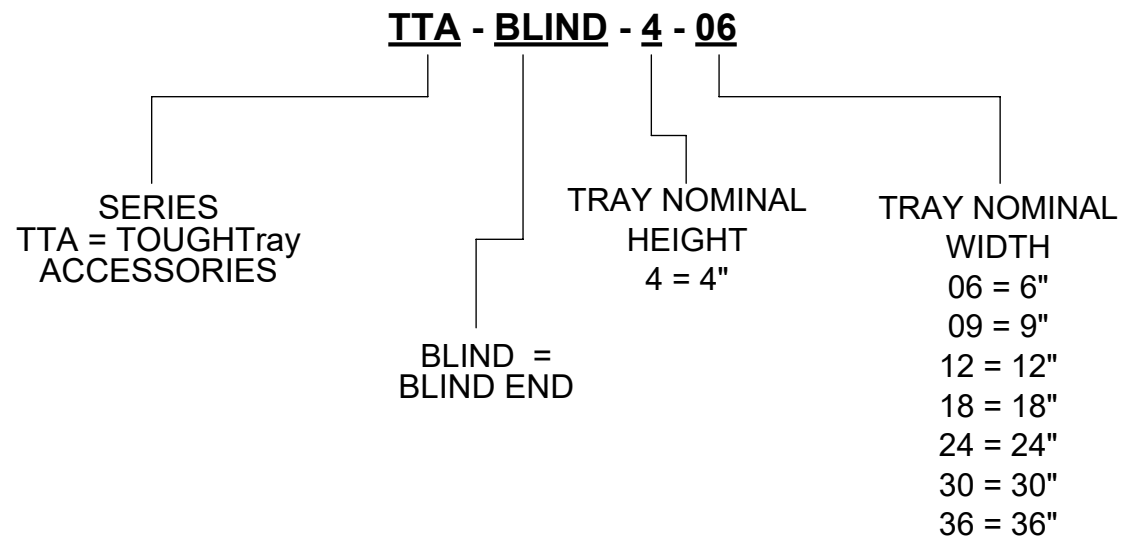
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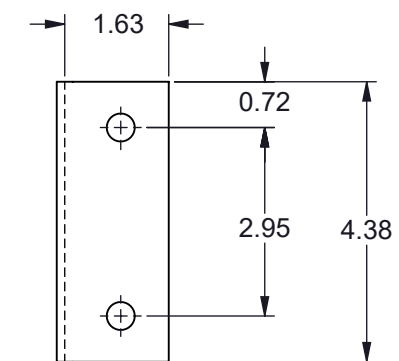
A



INSTALLED VIEW




FRONT VIEW



SIDE VIEW

- NOTES:
- 1) DIMENSION SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
 - 2) MATERIAL THICKNESS IS 0.125 INCHES.
 - 3) ALL DIMENSIONS SHOWN ARE NOMINAL.
 - 4) SUPPLIED PER PIECE 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: TTA-BLIND-4-(W) TOUGHTray ACCESSORY BLIND END		
	DRAWN BY/DATE: LW 01DEC2023	SIZE: B	DWG. NO.: CTI-S48976
APPROVED BY/DATE: JDG 04DEC2023	SCALE: NTS	CAD FILE NAME: TTA-BLIND-H_A CAD SAVE DATE: Friday, December 1, 2023 9:23:43 PM	SHEET: 1 OF 1

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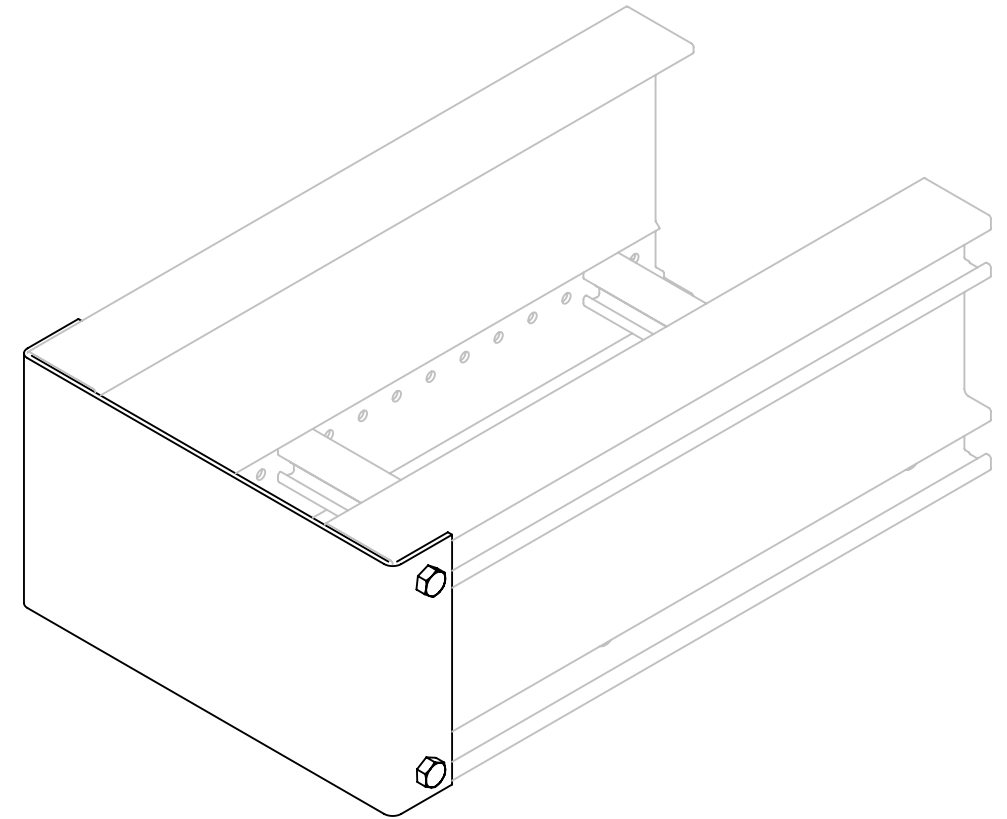
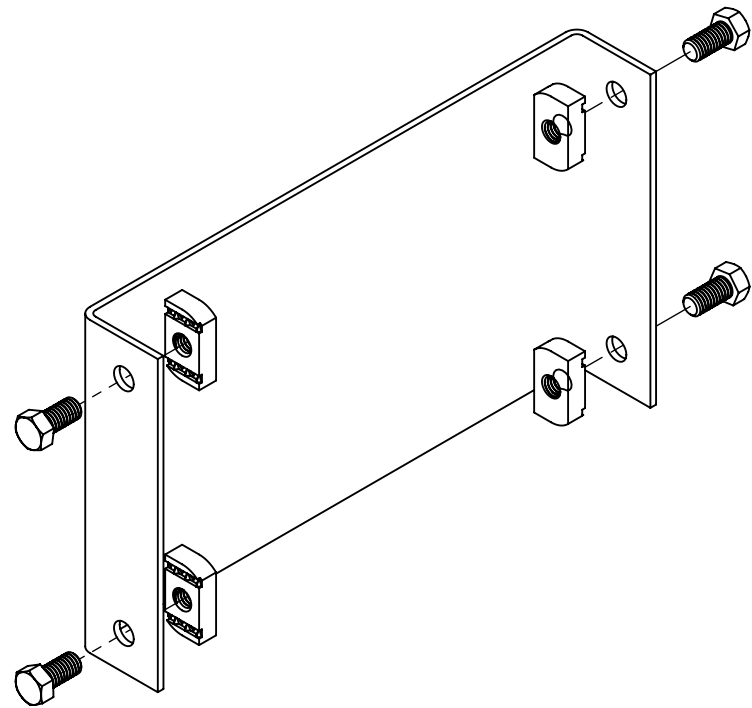
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INSTALLED VIEW

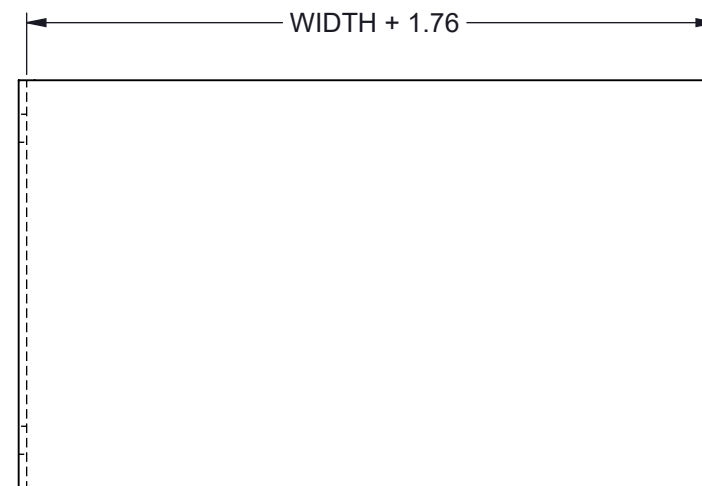
TTA - BLIND - 6 - 12

SERIES
TTA = TOUGHTray
ACCESSORIES

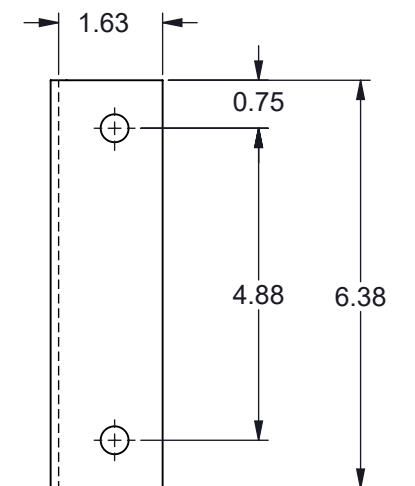
BLIND =
BLIND END

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) MATERIAL THICKNESS IS 0.125 INCHES.
 - 3) ALL DIMENSIONS SHOWN ARE NOMINAL.
 - 4) SUPPLIED PER PIECE 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:	
		TTA-BLIND-6-(W) TOUGHTray ACCESSORY BLIND END	
DRAWN BY/DATE: LW 01DEC2023		SIZE: B	DWG. NO.: CTI-S48975
APPROVED BY/DATE: JDG 04DEC023		SCALE: NTS	REV: A
		CAD FILE NAME: TTA-BLIND-H_A CAD SAVE DATE: Friday, December 1, 2023 9:27:17 PM	SHEET: 1 OF 1

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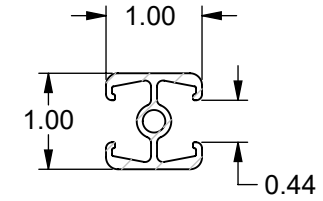
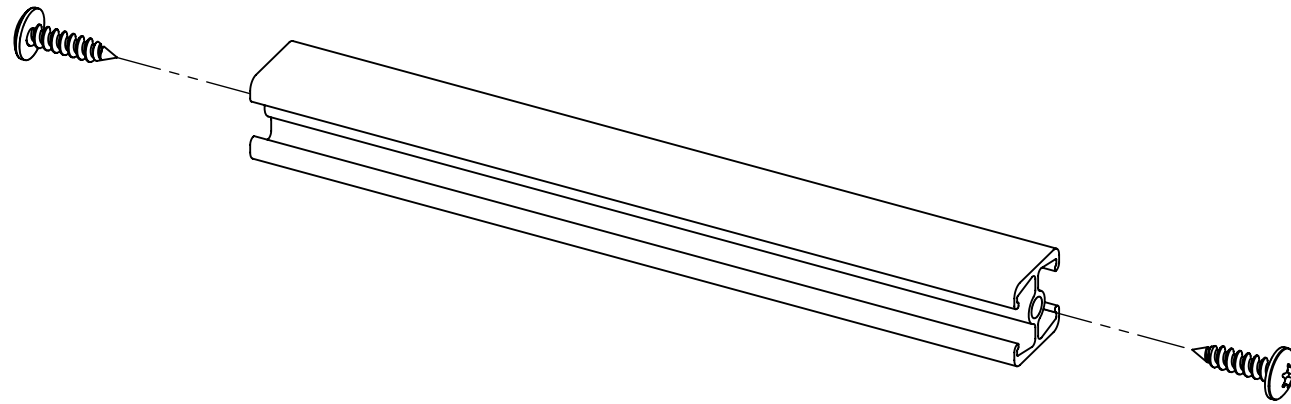
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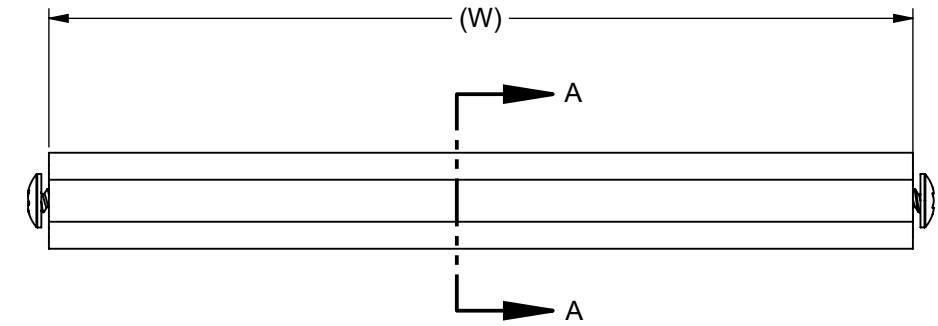
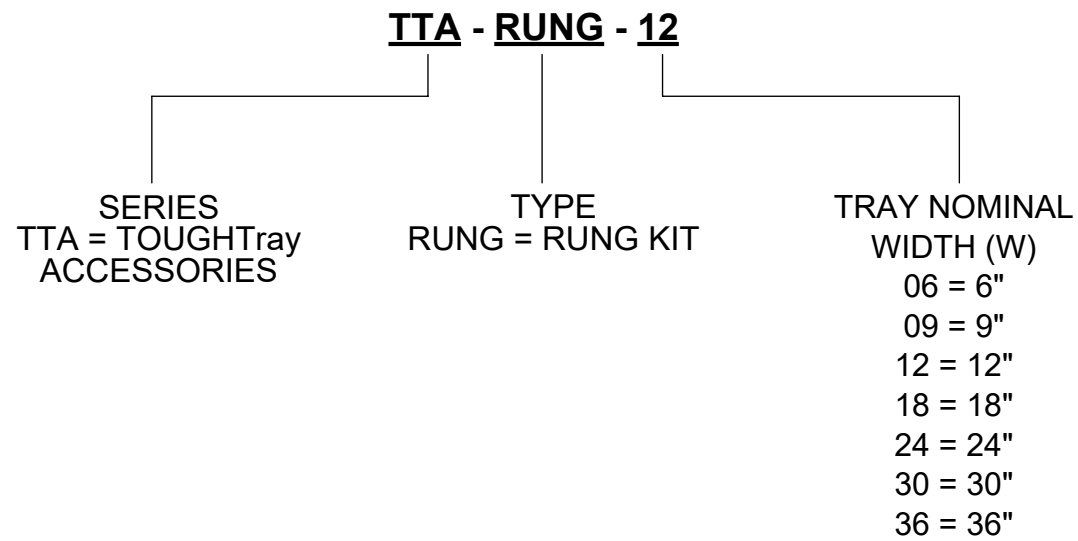
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SECTION A-A



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.

 CT INNOVATIONS	TITLE: TTA-RUNG-(W) TOUGHTray RUNG KIT ACCESSORY			
	DRAWN BY/DATE: LW 07DEC2023	SIZE: B	DWG. NO.: CTI-S48974	REV: A
	APPROVED BY/DATE: JDG 07DEC023	SCALE: NTS	CAD FILE NAME: TTA-RUNG-(W)_A CAD SAVE DATE: Thursday, December 7, 2023 12:07:03 PM	SHEET: 1 OF 1

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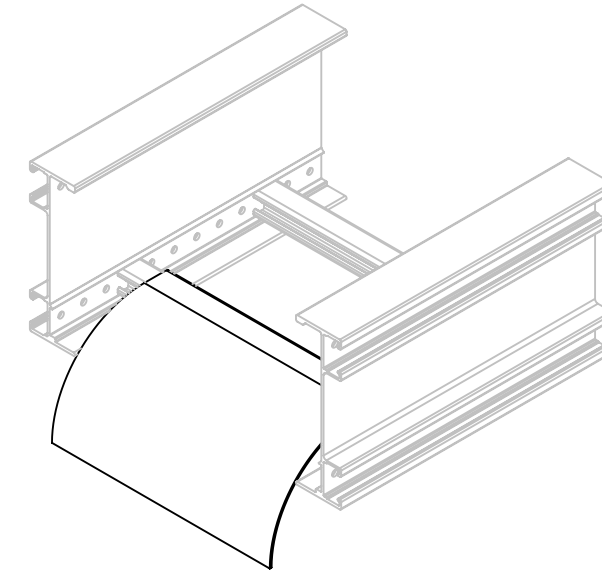
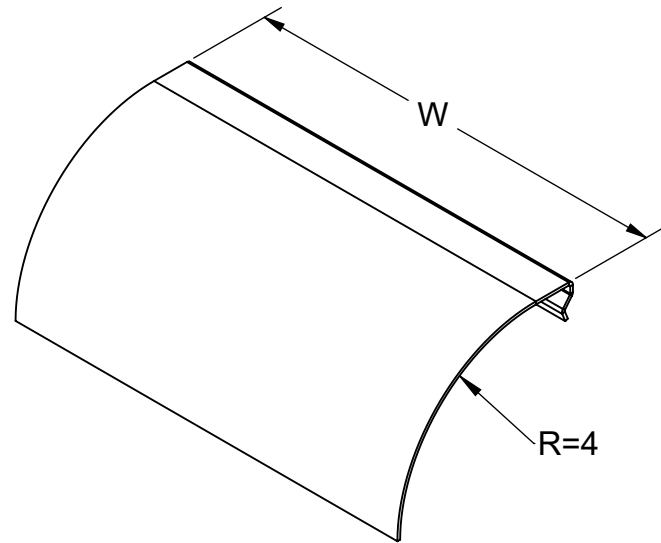
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ISO INSTALLED VIEW

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"

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: TTA-DROP-(W) TTA SERIES DROP OUT		
	DRAWN BY/DATE: LW 02OCT2023	SIZE: B	DWG. NO.: CTI-S48996
APPROVED BY/DATE: JDG 02OCT2023	SCALE: NTS	CAD FILE NAME: TTA-DROP_A CAD SAVE DATE: Wednesday, May 3, 2023 4:36:00 PM	SHEET: 1 OF 1

NOTES:

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

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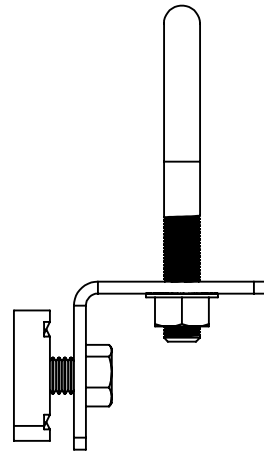
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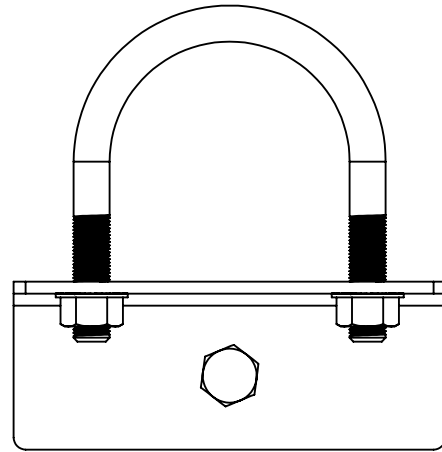
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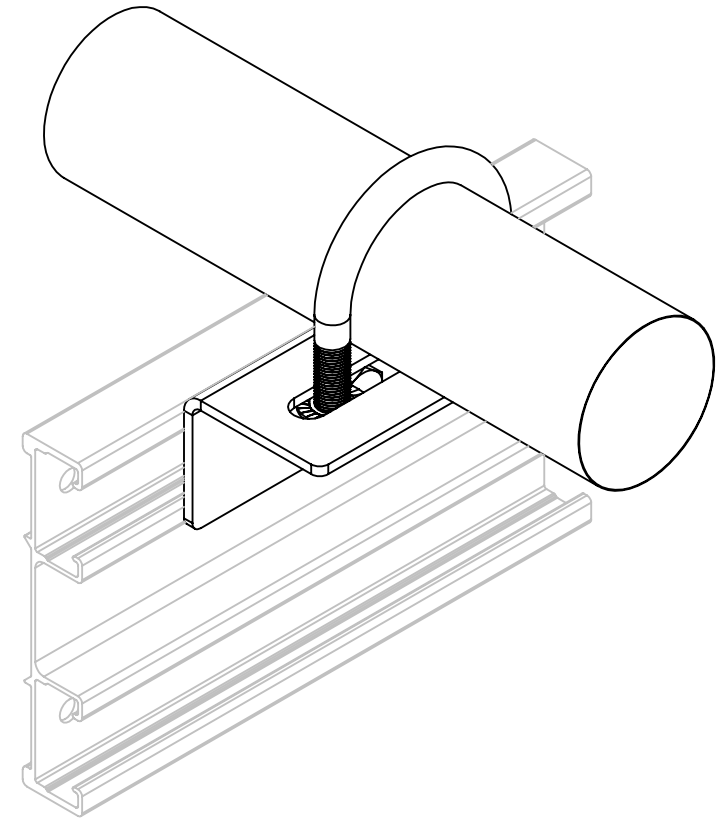
1



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.

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

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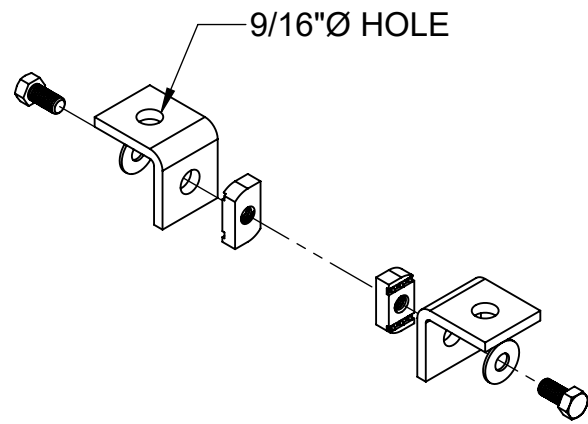
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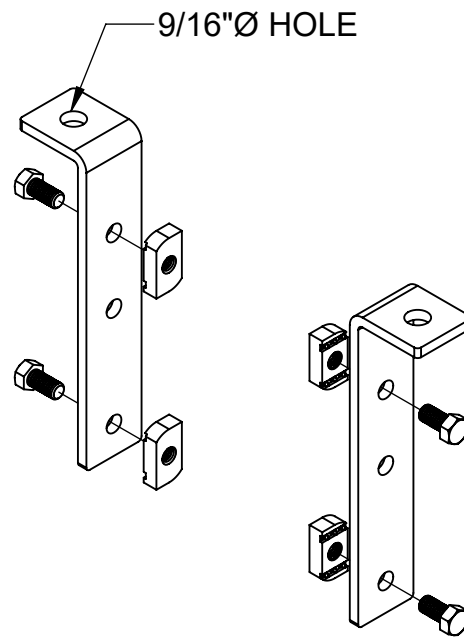
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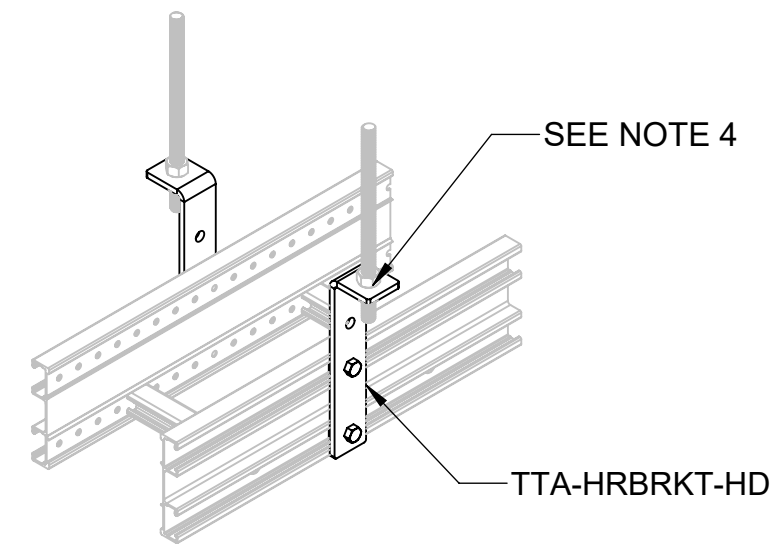
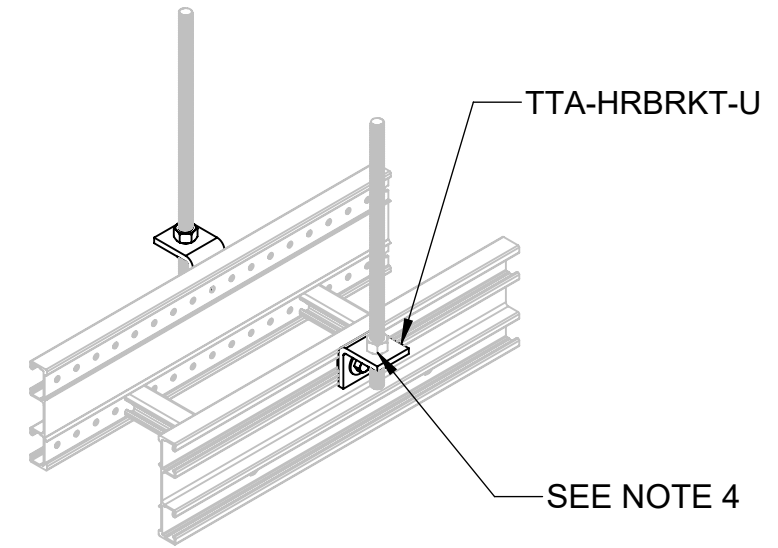
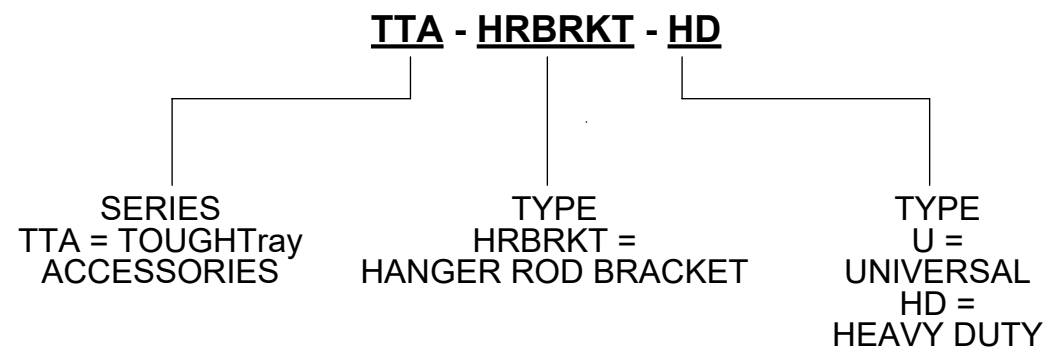
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TTA-HRBRKT-U
UNIVERSAL HANGER
ROD BRACKET



TTA-HRBRKT-HD
HEAVY DUTY HANGER
ROD BRACKET



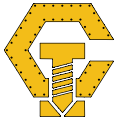
ISO INSTALLED VIEW

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.

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.

 CT INNOVATIONS	TITLE: TTA-HRBRKT-(X) HANGER ROD BRACKET		
	DRAWN BY/DATE: LW 28FEB2024	SIZE: B	DWG. NO.: CTI-S48968
APPROVED BY/DATE: JDG 29FEB2024	SCALE: NTS	CAD FILE NAME: TTA-HRBRKT-HD CAD SAVE DATE: Wednesday, February 28, 2024 11:32:24 AM	SHEET: 1 OF 1

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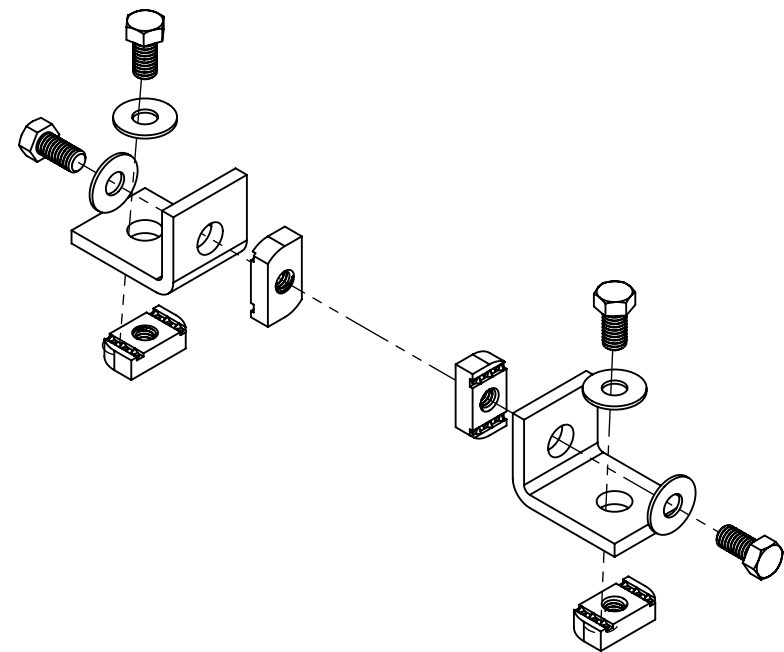
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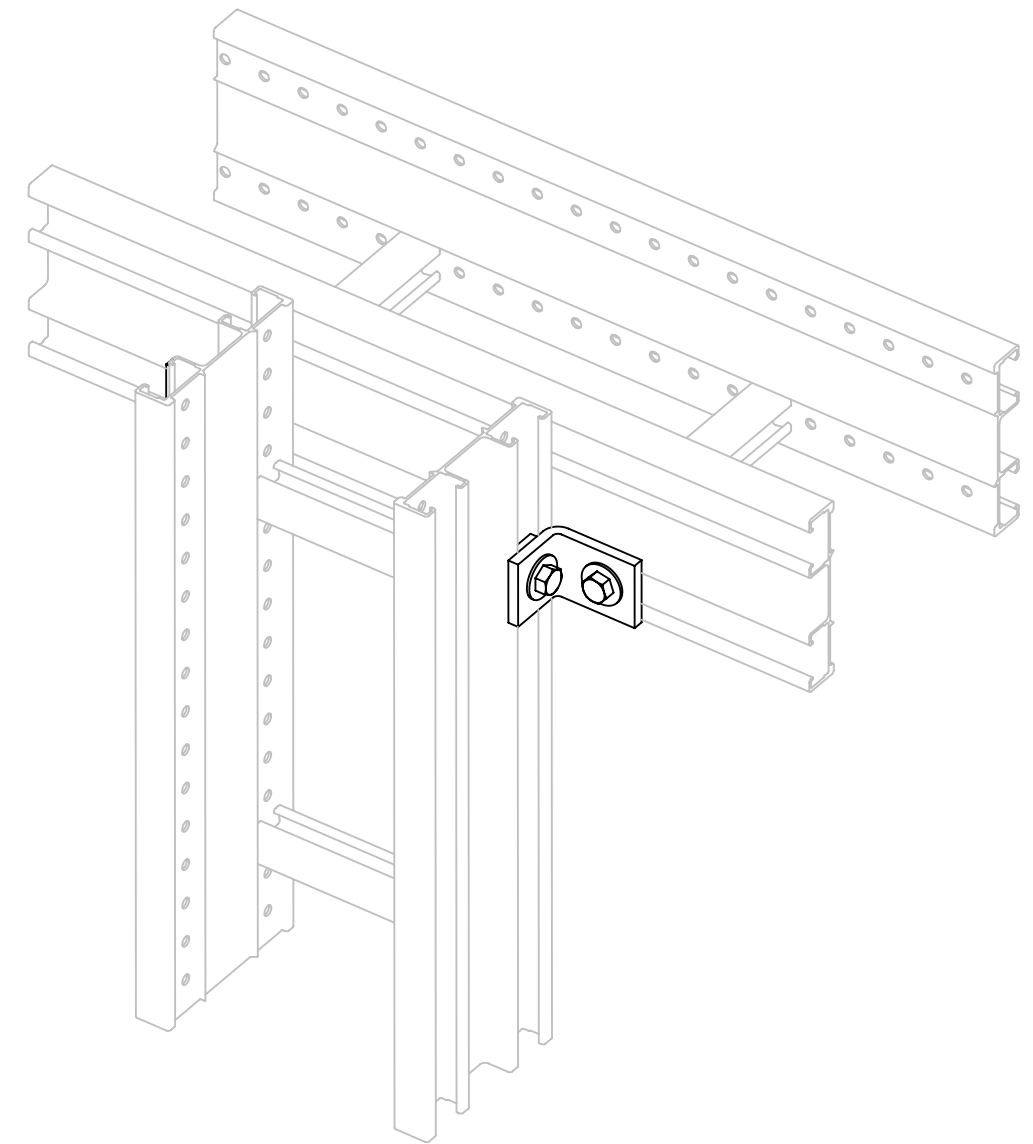
A



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.

 CT INNOVATIONS		TITLE:		
		TTA-CCBRKT TTA CROSS CONNECTOR BRACKET		
DRAWN BY/DATE:		SIZE:	DWG. NO.:	REV:
VA 14NOV2023		B	CTI-S48149	A
APPROVED BY/DATE:		SCALE:	CAD FILE NAME: CTI-548149	SHEET:
JDG 15NOV2023		NTS	CAD SAVE DATE: Thursday, January 4, 2024 2:51:29 PM	1 OF 1

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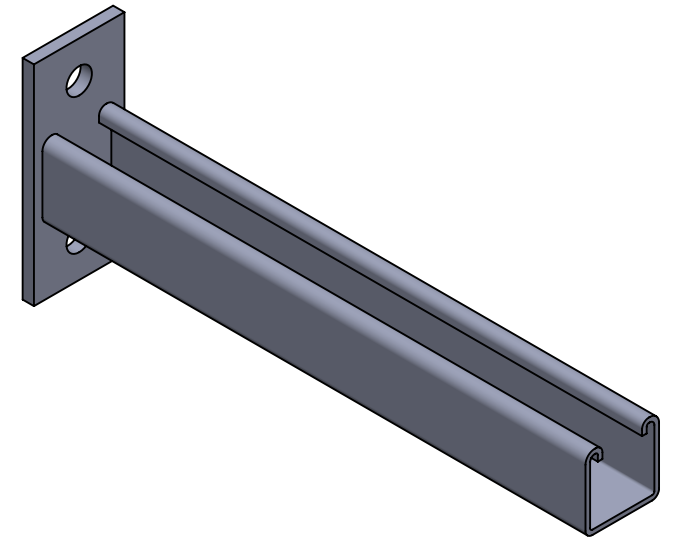
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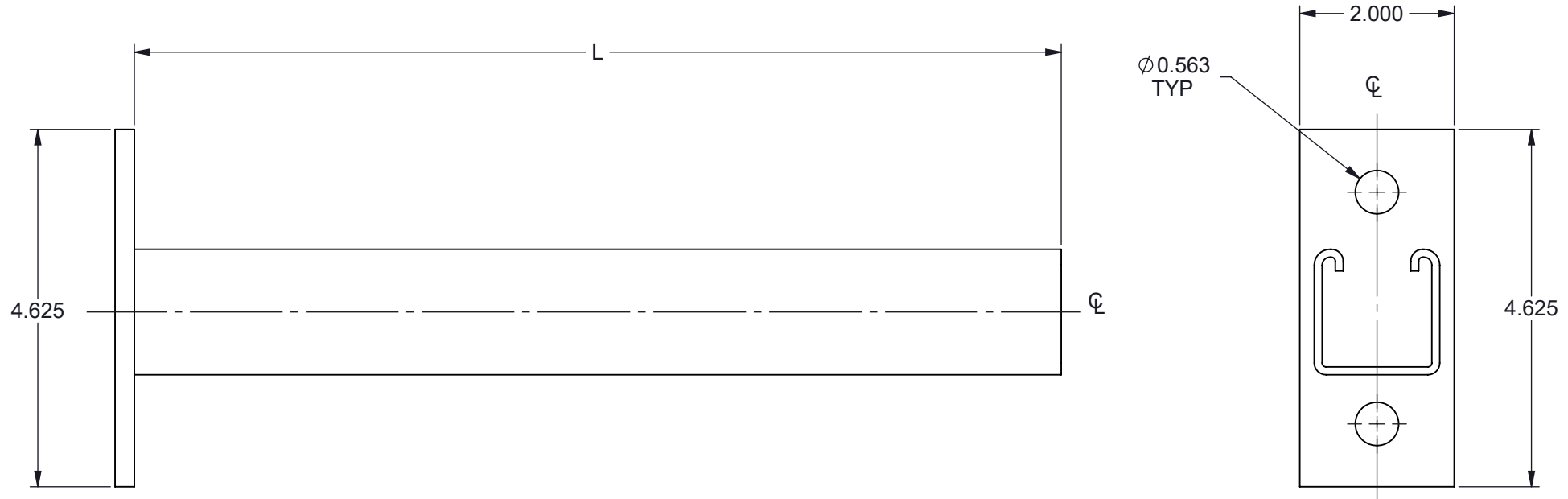
1

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

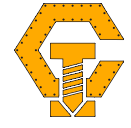


ISOMETRIC VIEW



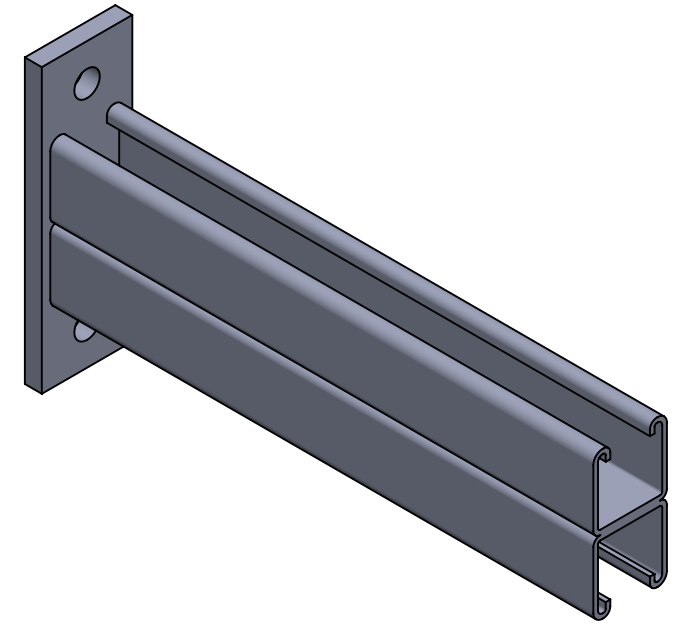
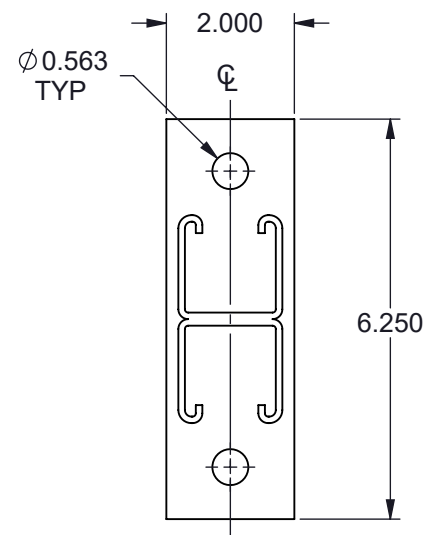
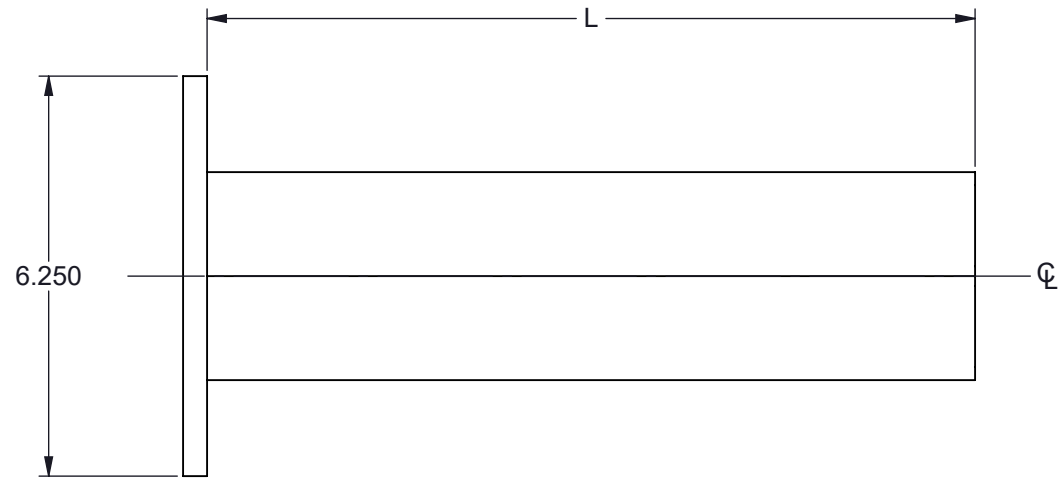
NOTES:
 1) ALL DIMENSIONS SHOWN ARE NOMINAL.
 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.

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.

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

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

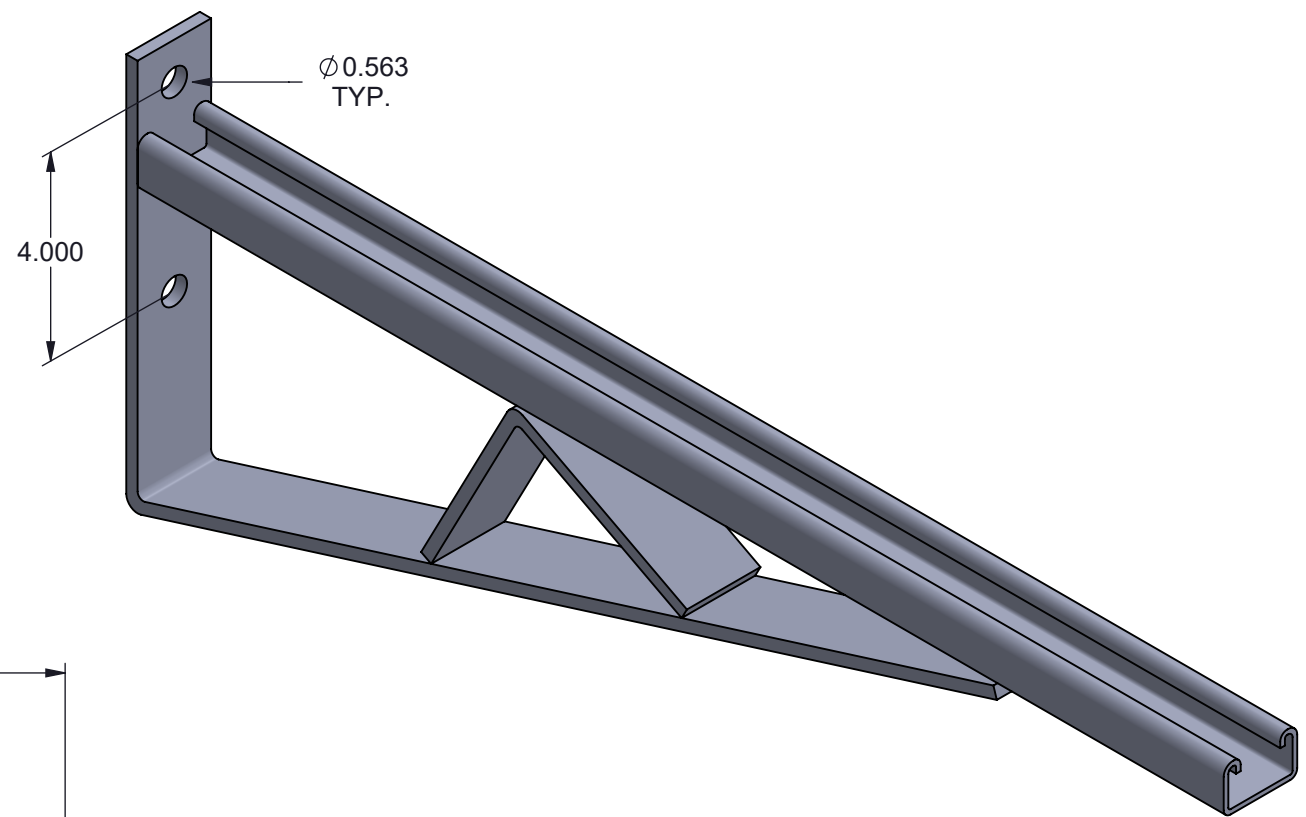
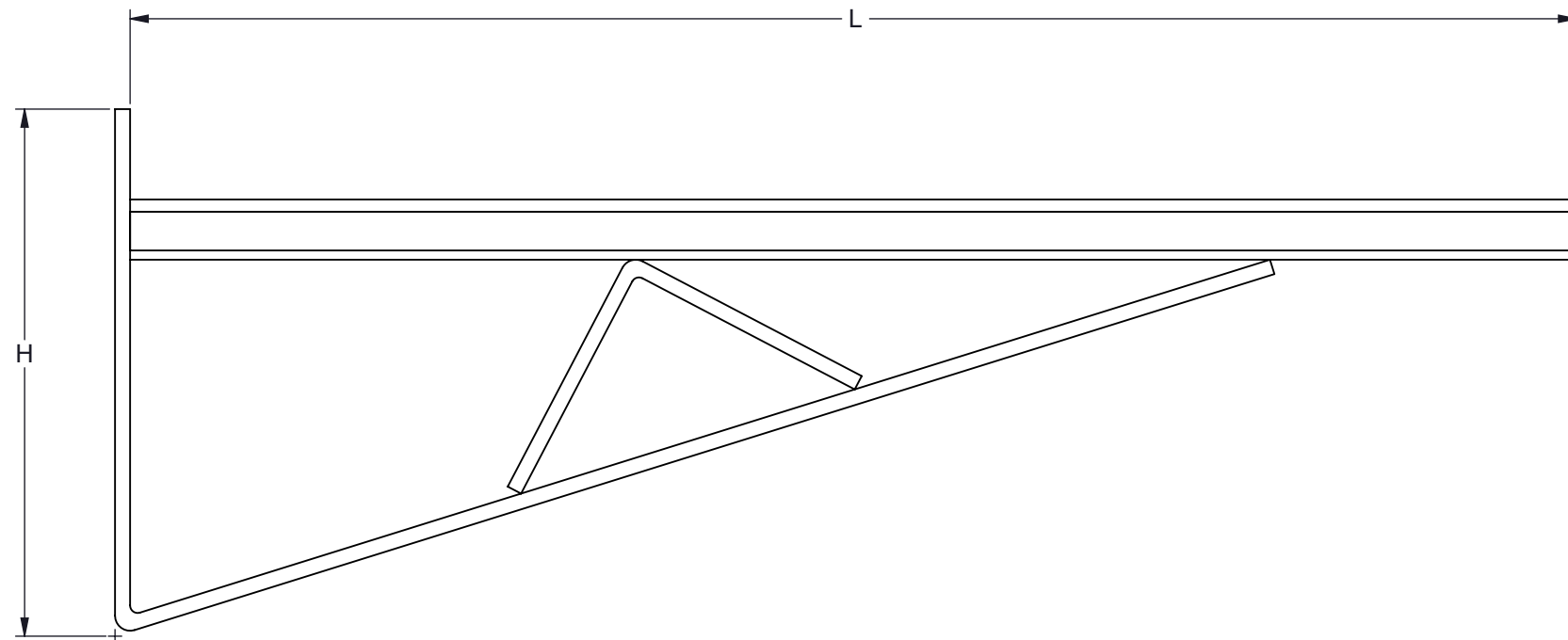
NOTES:
 1) ALL DIMENSIONS SHOWN ARE NOMINAL.
 2) DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.

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.

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

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.

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

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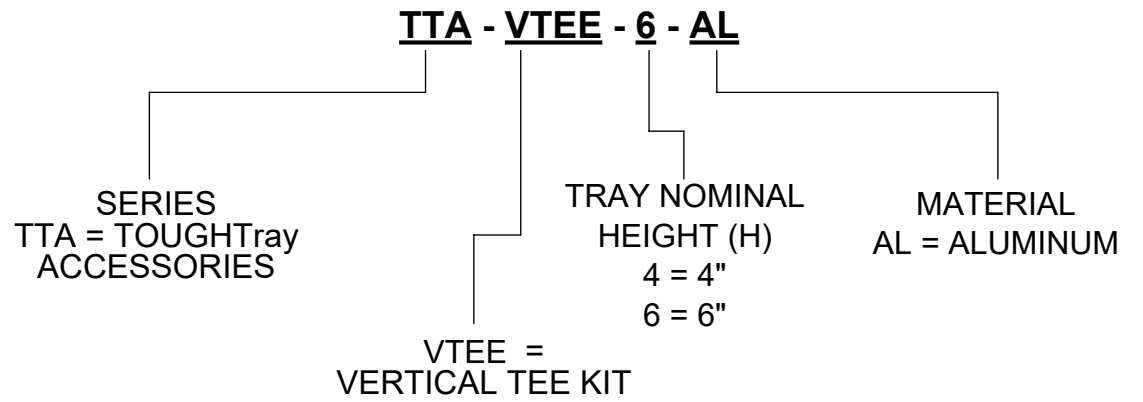
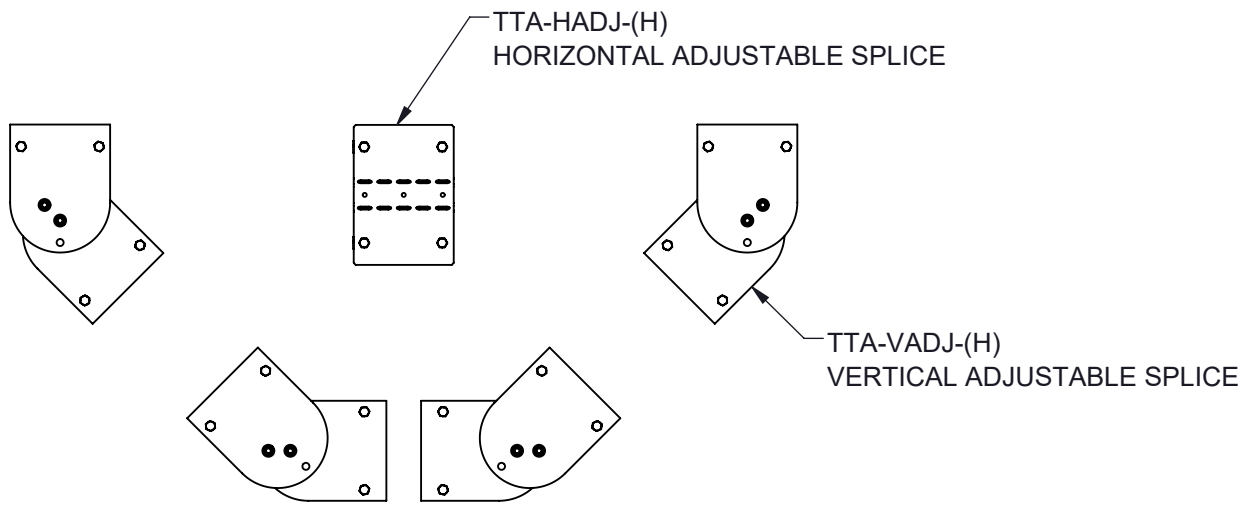
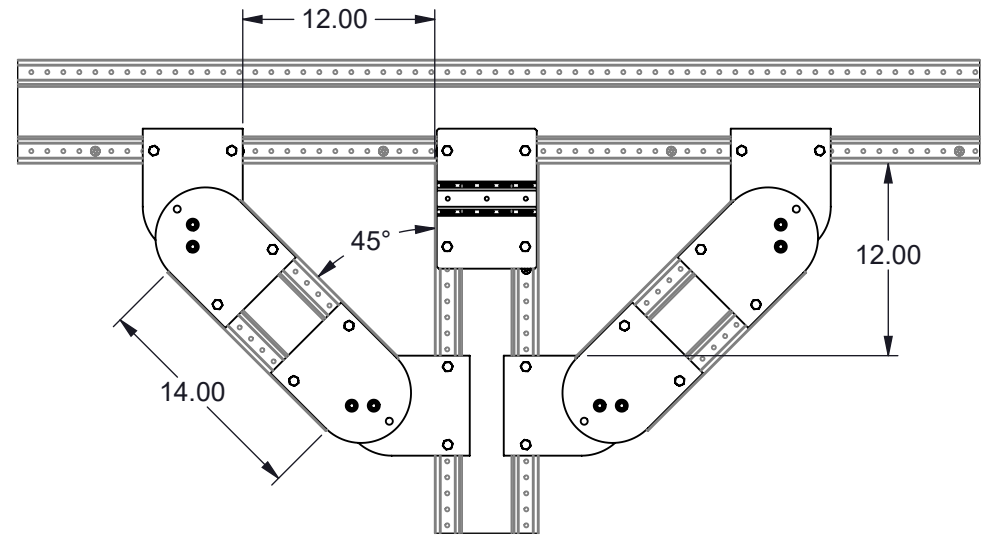
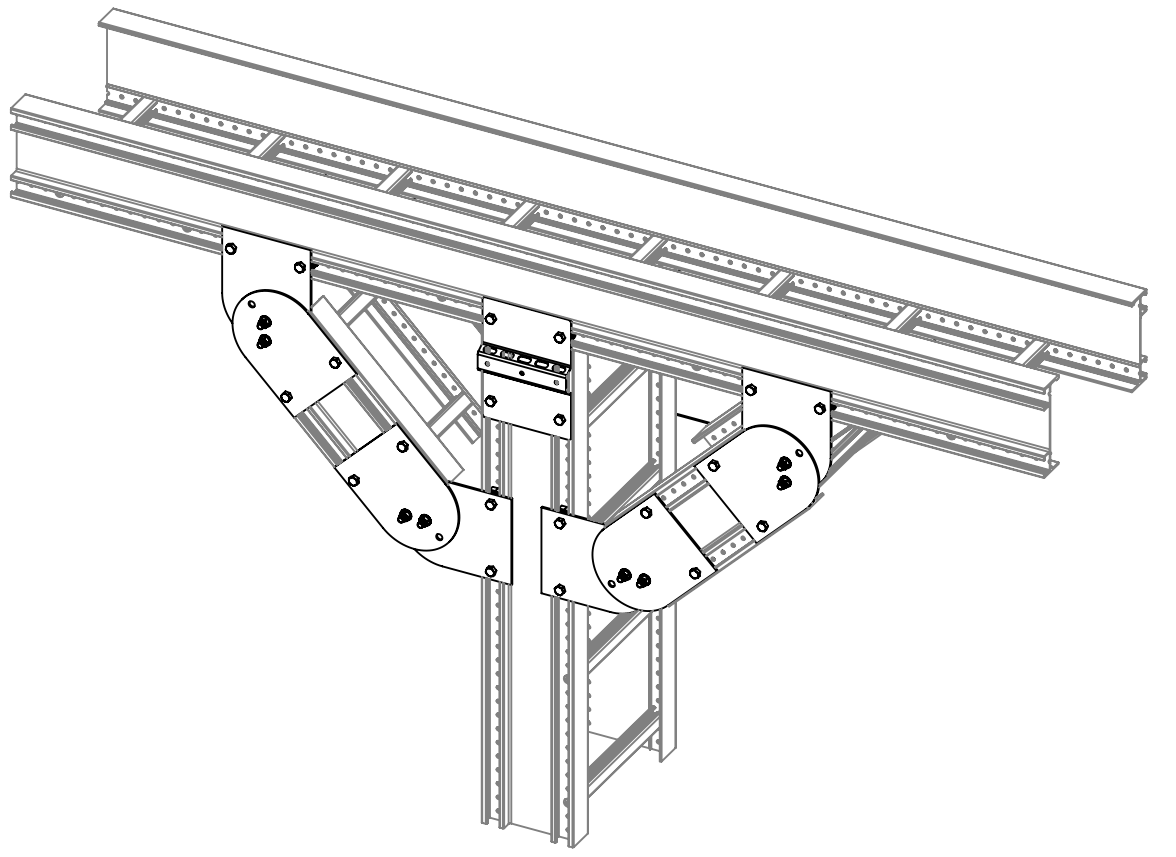
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NOTES:
 1) DIMENSION SHOWN ARE IN INCHES UNLESS OTHERWISE NOTED.
 2) ALL DIMENSIONS SHOWN ARE NOMINAL.
 3) SUPPLIED AS KIT.

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-VTEE-(H)-AL 6"H VERTICAL TEE KIT		
	DRAWN BY/DATE: LW 28FEB2024	SIZE: B	DWG. NO.: CTI-S48969
	APPROVED BY/DATE: JDG 29FEB2024	SCALE: NTS	REV: A SHEET: 1 OF 1

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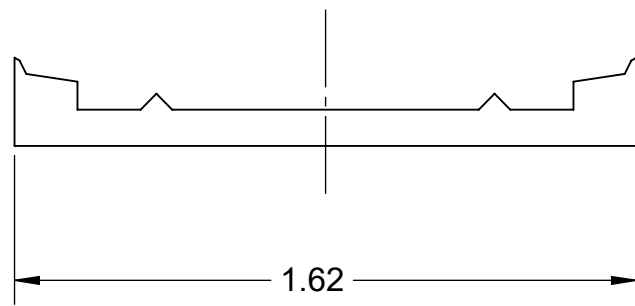
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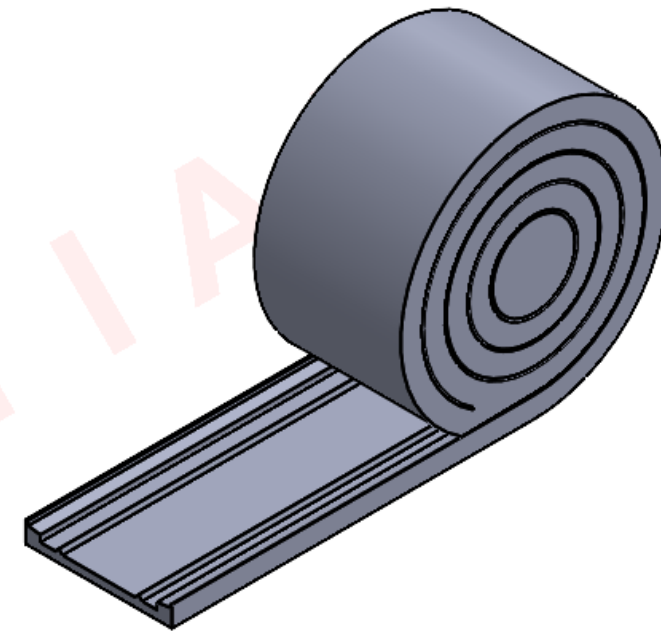
B

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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.

 CT INNOVATIONS	TITLE: TTA-ISOLATOR TTA NEOPRENE ROLL			
	DRAWN BY/DATE: VA 14NOV2023	SIZE: B	DWG. NO.: CTI-S48148	REV: A
	APPROVED BY/DATE: JDG 15NOV2023	SCALE: NTS	CAD FILE NAME: TTA-ISOLATOR_A CAD SAVE DATE: Tuesday, November 14, 2023 9:07:00 PM	SHEET: 1 OF 1

NOTES:

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

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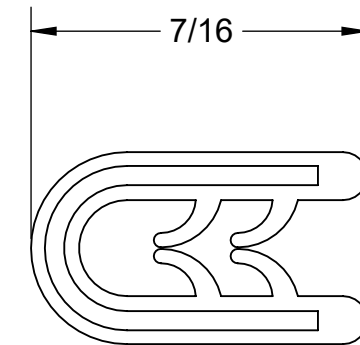
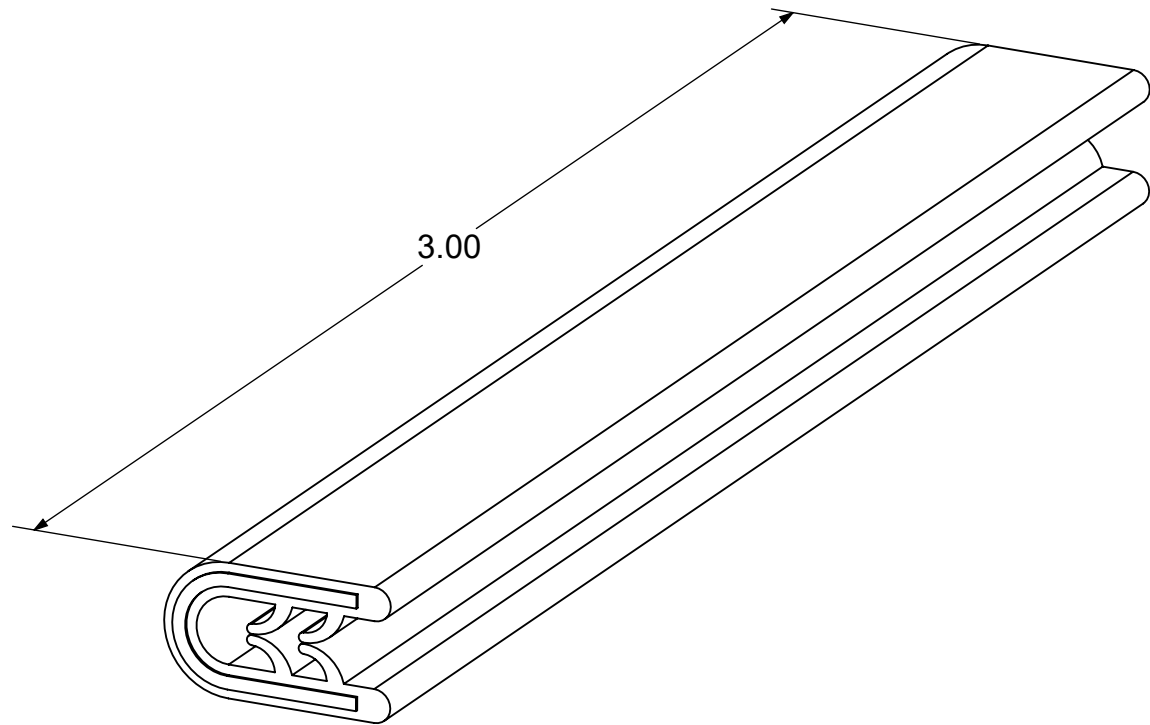
C

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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.

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

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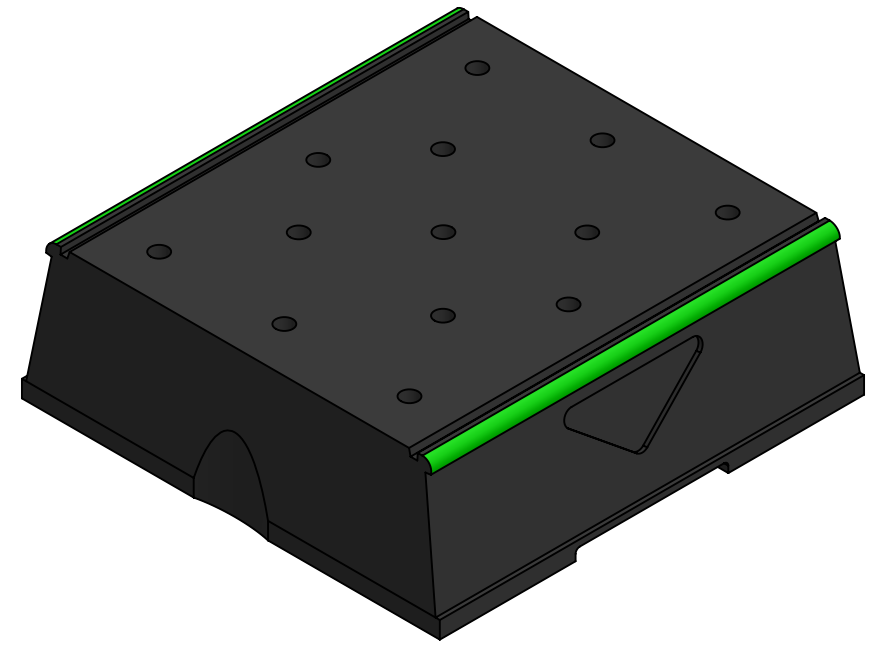
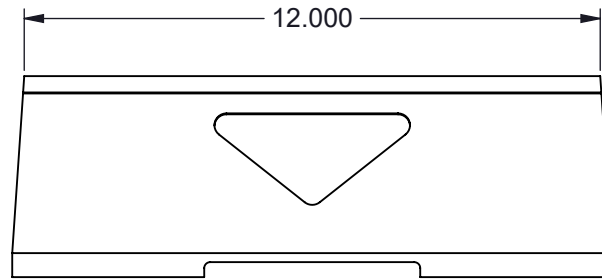
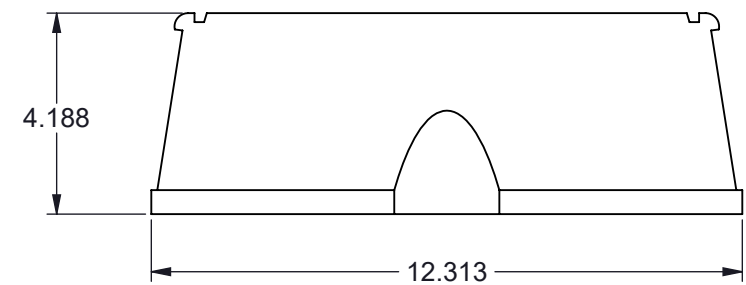
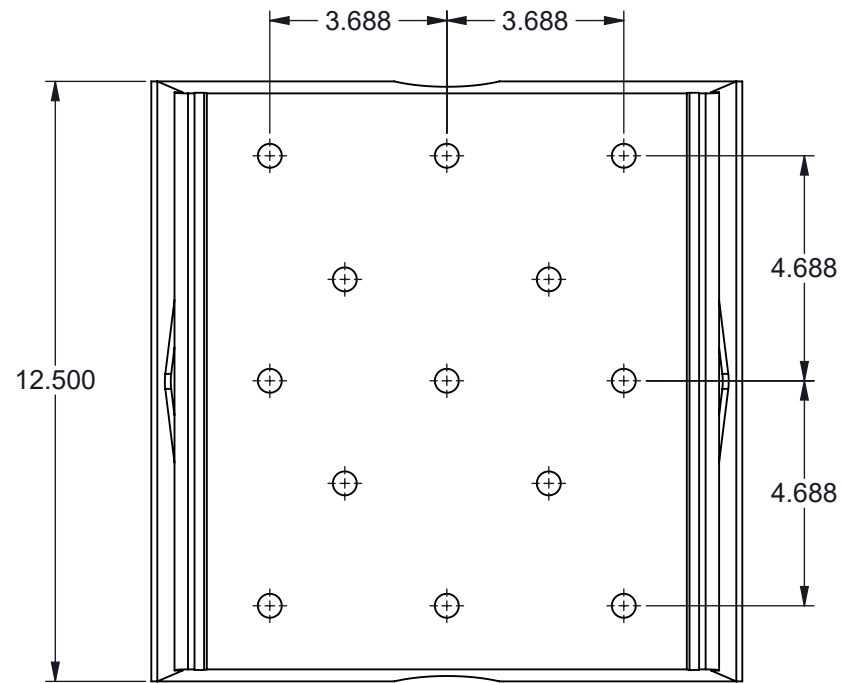
2

1

PART NO.

TSRB-A-(*)


(*) 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.

 CT INNOVATIONS	TITLE: TSRB-A-(*) 13 HOLES ROOFTOP PLATFORM SUPPORT		
	DRAWN BY/DATE: DL 05FEB2024	SIZE: B	DWG. NO.: CTI-S15118
APPROVED BY/DATE: JDG 09FEB2024	SCALE: NTS	CAD FILE NAME: CBB CAD SAVE DATE: Tuesday, February 27, 2024 3:54:43 PM	SHEET: 1 OF 1

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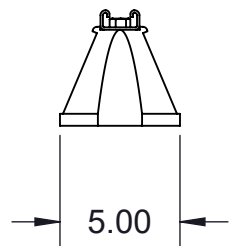
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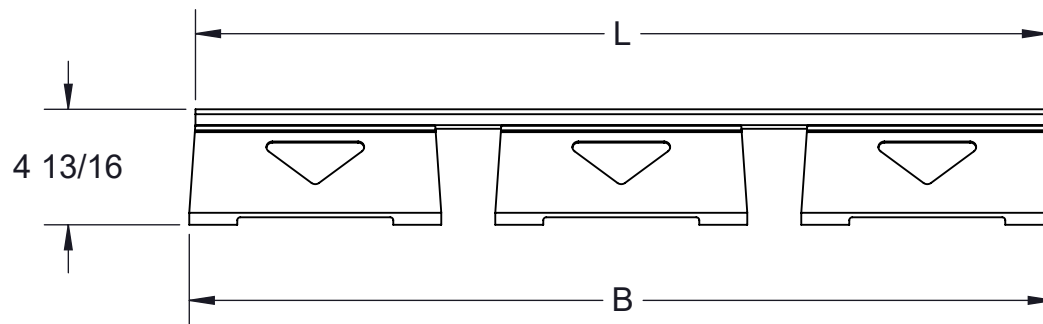
1

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

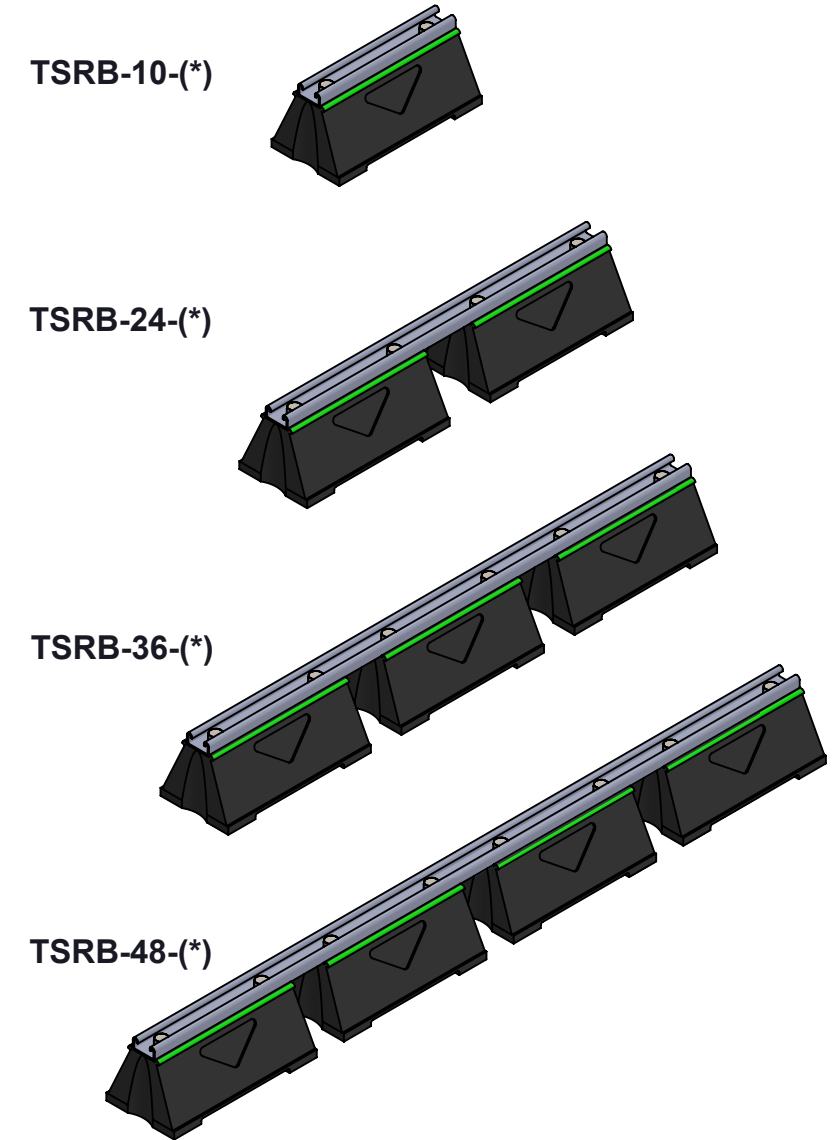
(*) INSERT MATERIAL/FINISH:
 ZN - GALVANIZED
 HD - HOT DIP



FRONT VIEW



SIDE VIEW




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.

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

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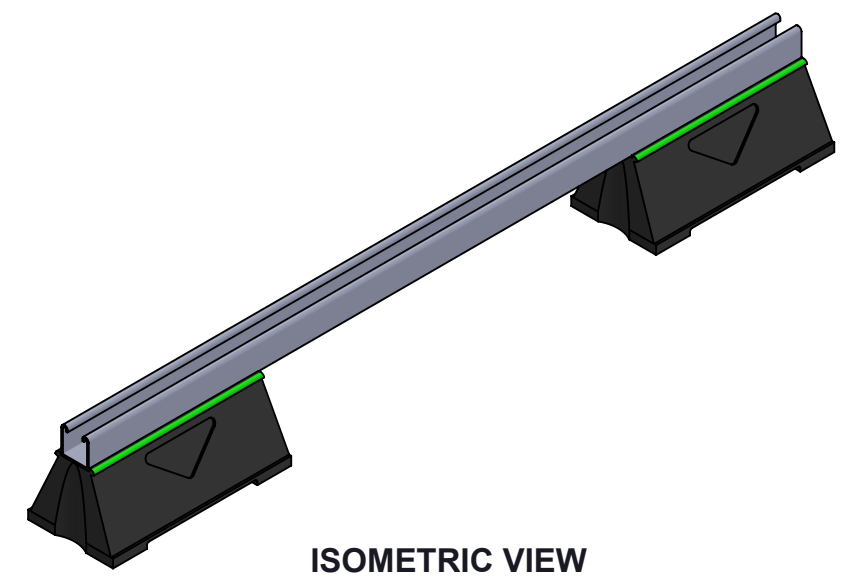
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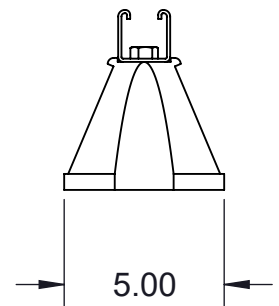
1

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

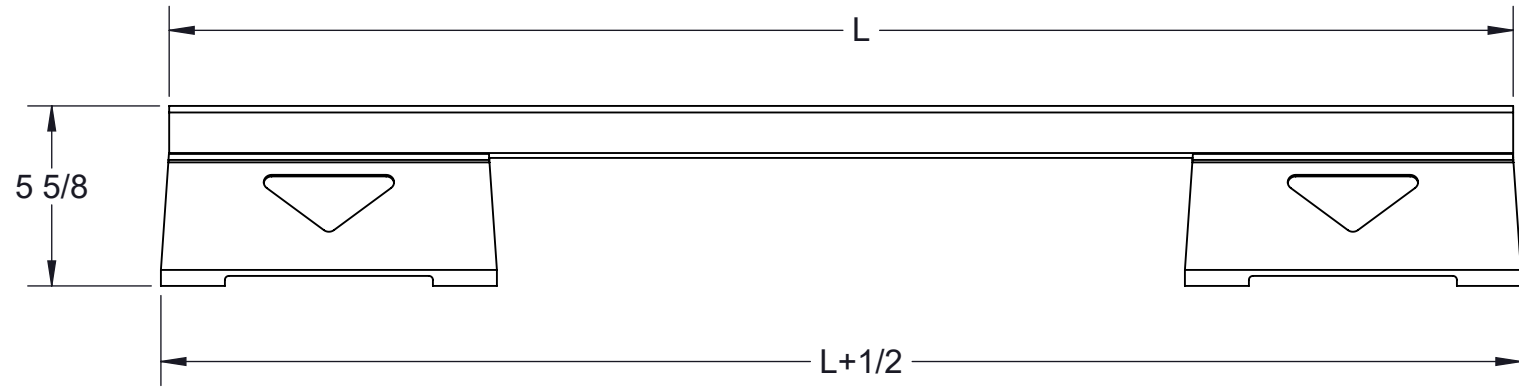
(*) INSERT MATERIAL/FINISH:
 ZN - GALVANIZED
 HD - HOT DIP



ISOMETRIC VIEW

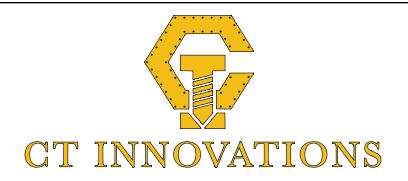


FRONT VIEW



SIDE VIEW

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-C-(L)-(*)
 2 BLOCKS BRIDGE SUPPORT**

DRAWN BY/DATE:
 LW 27FEB2024

SIZE: **B** DWG. NO.: **CTI-S15998** REV: **A**

APPROVED BY/DATE:
 JDG 29FEB2024

SCALE: **NTS** CAD FILE NAME: CBN() SHEET: **1 OF 1**
 CAD SAVE DATE: Tuesday, February 27, 2024 9:38:40 AM

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

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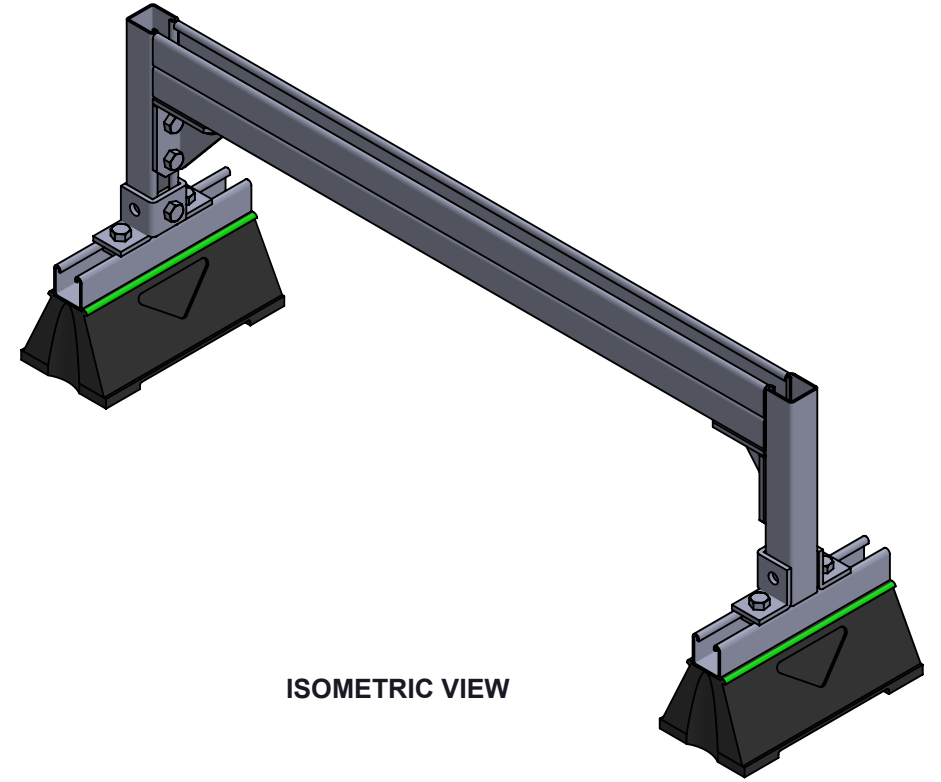
3

2

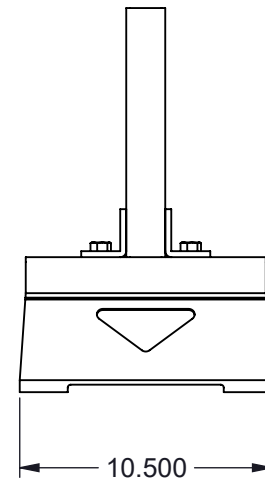
1

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.

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

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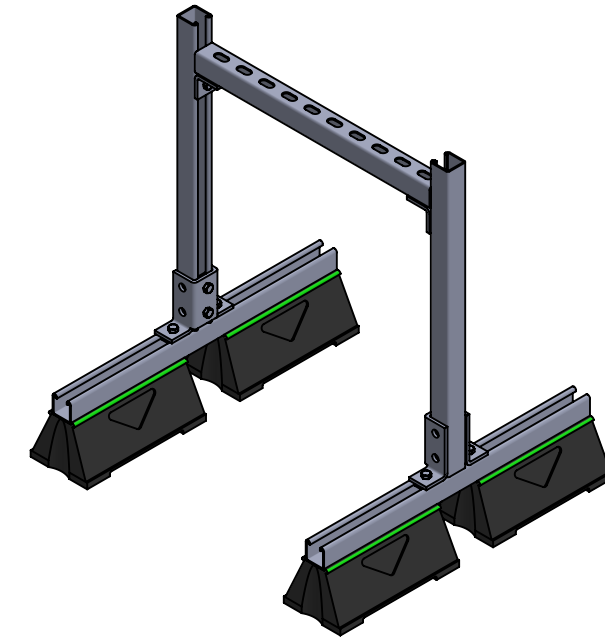
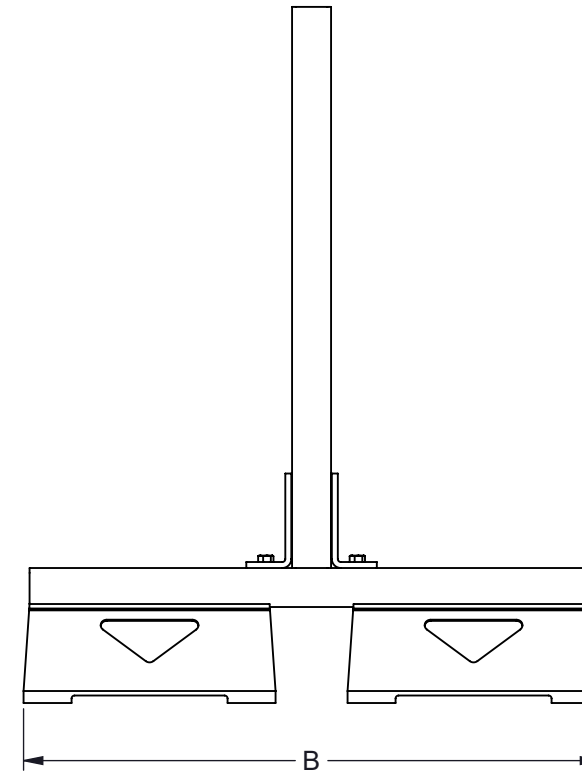
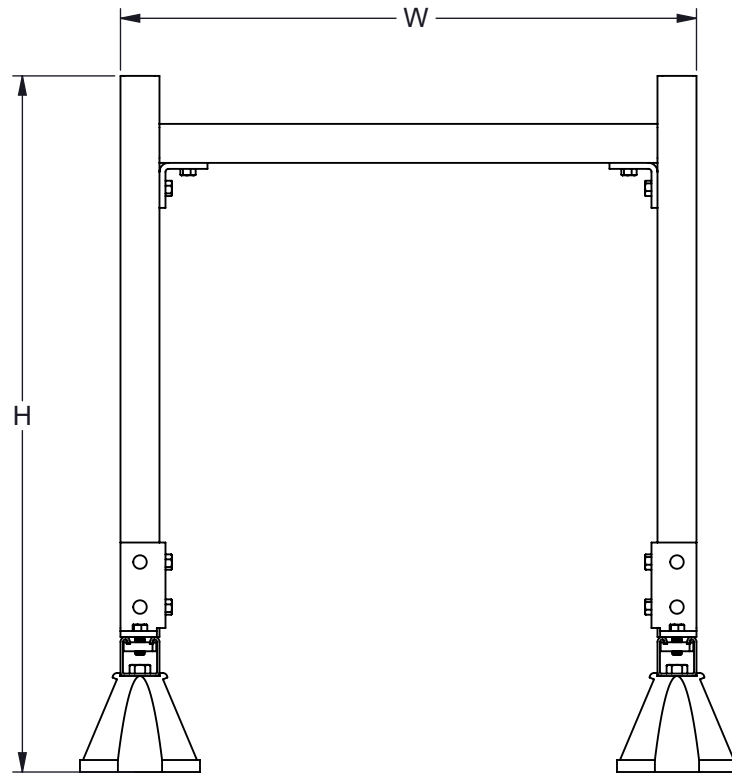
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PART NUMBER	H (in)	W (in)	B (in)
TSRB-E-23X18X24-(*)	23	18	24
TSRB-E-23X24X24-(*)	23	24	24
TSRB-E-23X36X24-(*)	23	36	24
TSRB-E-23X48X24-(*)	23	48	24
TSRB-E-29X18X24-(*)	29	18	24
TSRB-E-29X24X24-(*)	29	24	24
TSRB-E-29X36X24-(*)	29	36	24
TSRB-E-29X48X24-(*)	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.

 CT INNOVATIONS		TITLE: TSRB-E-(H)X(W)X(B)-(*) 2 BLOCKS H SUPPORT		
		DRAWN BY/DATE: DL 05FEB2024	SIZE: B	DWG. NO.: CTI-S15048
APPROVED BY/DATE: JDG 09FEB2024		SCALE: NTS	CAD FILE NAME: TCBN()-DSFW CAD SAVE DATE: Tuesday, February 27, 2024 9:35:39 AM	SHEET: 1 OF 1

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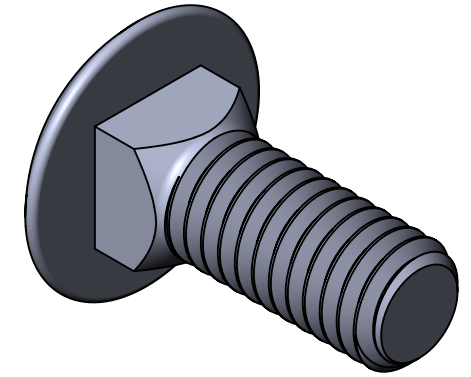
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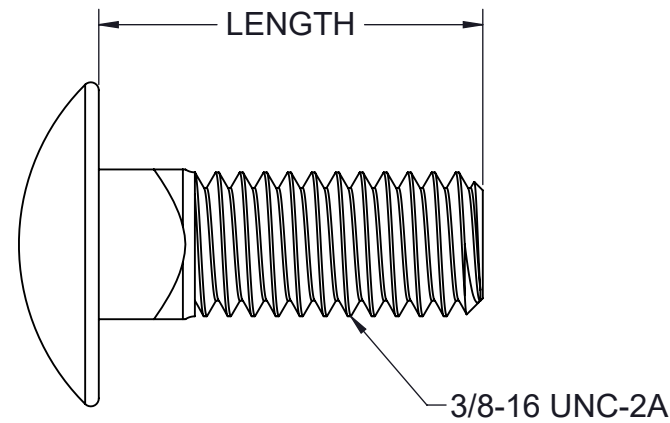
1

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

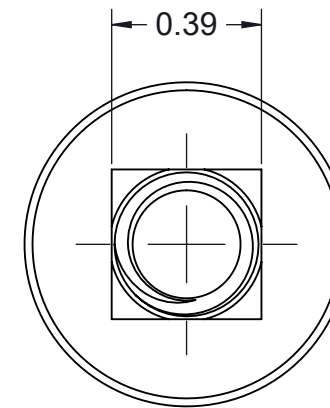
(*) INSERT MATERIAL/FINISH:
 ZN - GALVANIZED
 S6 - STAINLESS STEEL 316
 S4 - STAINLESS STEEL 304



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.

 CT INNOVATIONS		TITLE:	
		TA38SNCBXXX-(*) 3/8 SQUARE NECK CARRIAGE BOLT	
DRAWN BY/DATE:	SIZE:	DWG. NO.:	REV:
DL 11DEC2023	B	CTI-S48973	B
APPROVED BY/DATE:	SCALE:	CAD FILE NAME: TA38SNCB100	SHEET:
JDG 15DEC2023	NTS	CAD SAVE DATE: Tuesday, February 27, 2024 10:48:45 AM	1 OF 1

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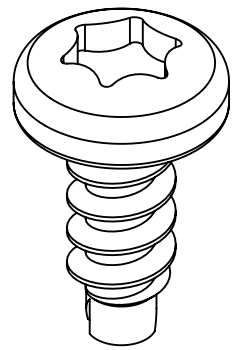
C

B

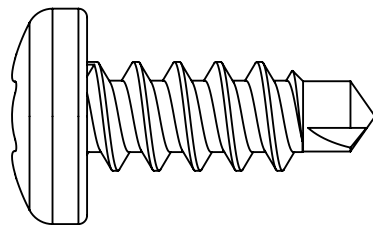
B

A

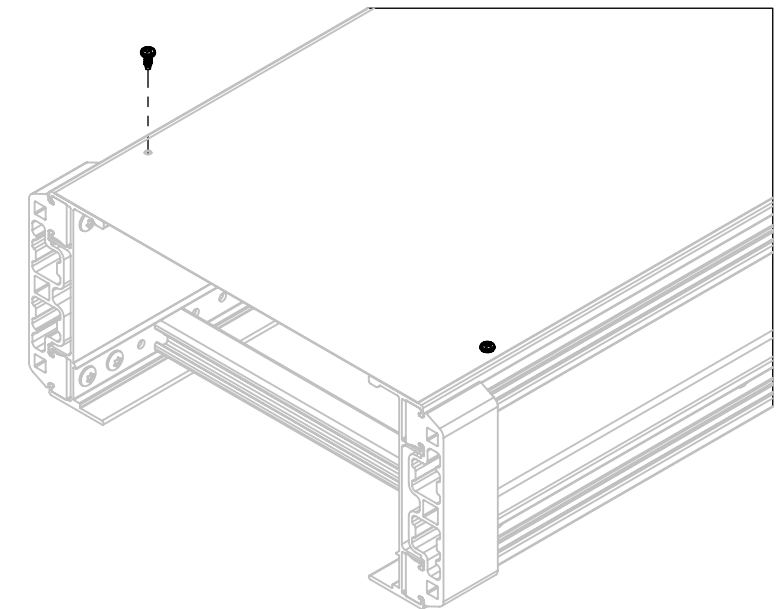
A



ISO VIEW



SIDE VIEW



INSTALLED VIEW

TTA - CVRSCRW - S6


SERIES
TTA = TOUGHTray
ACCESSORIES

TYPE
CVRSCRW =
COVER
SELF-DRILLING
TORX 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.

 CT INNOVATIONS	TITLE: STRAIGHT SECTION COVER FIXING SCREW			
	DRAWN BY/DATE: LW 19OCT2023	SIZE: B	DWG. NO.: CTI-S48988	REV: A
	APPROVED BY/DATE: JDG 19OCT2023	SCALE: NTS	CAD FILE NAME: Straight Cover Screw Assy CAD SAVE DATE: Wednesday, October 25, 2023 5:41:47 AM	SHEET: 1 OF 1

NOTES:

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

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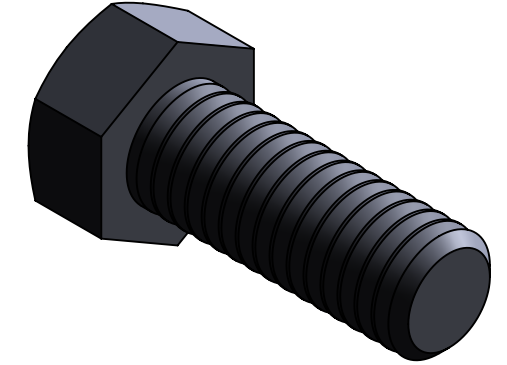
3

2

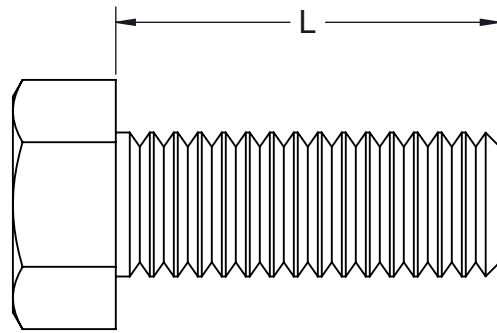
1

PART NO.	L (in)	THREAD SIZE Ø (in)	A (in)
TA38HX100-(*)	1.00	3/8-16	0.56
TA38HX150-(*)	1.50	3/8-16	0.56
TA38HX275-(*)	2.75	3/8-16	0.56
TA50HX150-(*)	1.50	1/2-13	0.75
TA50HX200-(*)	2.00	1/2-13	0.75

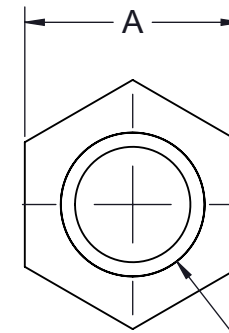
(*) INSERT MATERIAL/FINISH:
 ZN - GALVANIZED
 S6 - STAINLESS STEEL 316
 S4 - STAINLESS STEEL 304



ISOMETRIC VIEW



SIDE VIEW




FRONT VIEW

THREAD SIZE Ø

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.

 CT INNOVATIONS	TITLE: TA(Ø)HX(L)-(*) HEX HEAD CAP SCREW			
	DRAWN BY/DATE: LW 27FEB2024	SIZE: B	DWG. NO.: CTI-S14998	REV: B
	APPROVED BY/DATE: JDG 29FEB2024	SCALE: NTS	CAD FILE NAME: TA38HX100_A CAD SAVE DATE: Tuesday, February 27, 2024 10:22:52 AM	SHEET: 1 OF 1

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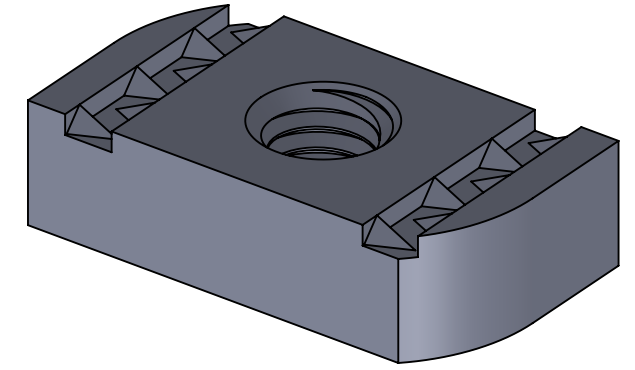
3

2

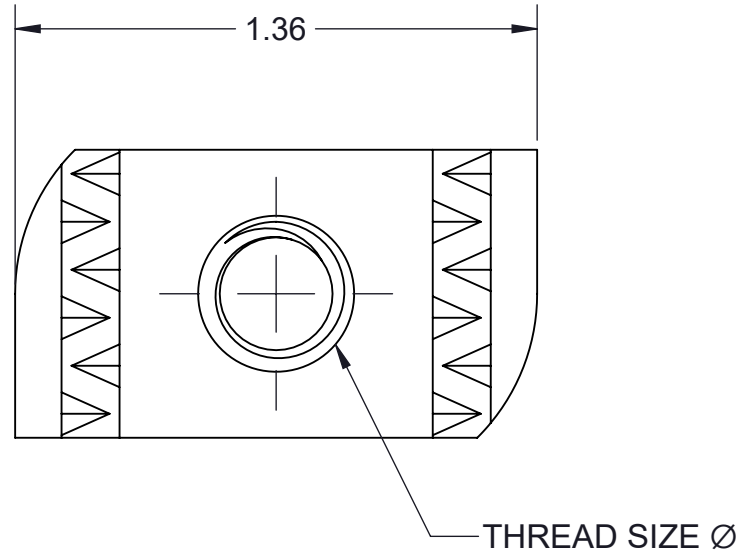
1

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

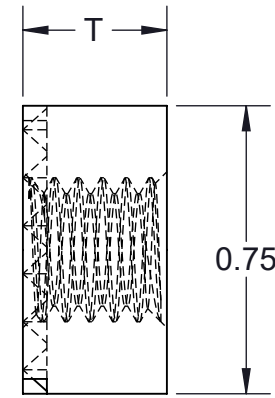
(*) INSERT MATERIAL/FINISH:
 ZN - GALVANIZED
 S6 - STAINLESS STEEL 316
 S4 - STAINLESS STEEL 304



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.

 CT INNOVATIONS	TITLE: TA(Ø)NC-(*) CHANNEL NUT		
	DRAWN BY/DATE: LW 27FEB2024	SIZE: B	DWG. NO.: CTI-S14997
	APPROVED BY/DATE: JDG 29FEB2024	SCALE: NTS	CAD FILE NAME: TA38NC_A CAD SAVE DATE: Tuesday, February 27, 2024 10:30:49 AM
		REV: A	SHEET: 1 OF 1

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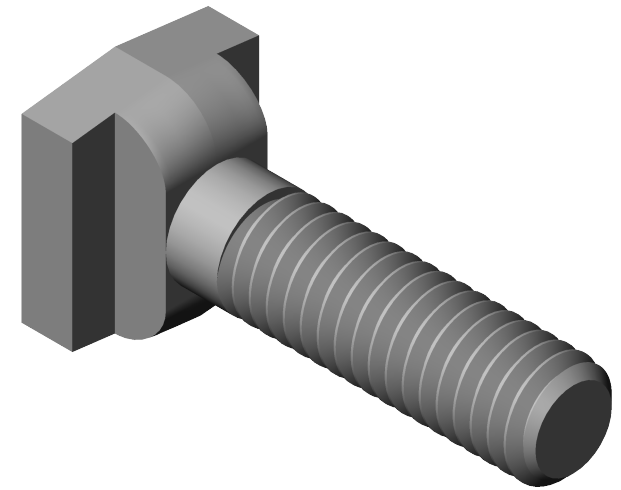
C

B

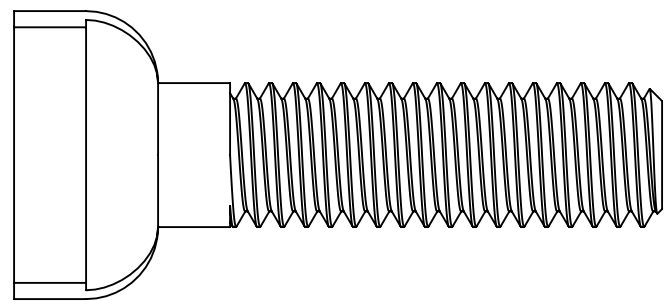
B

A

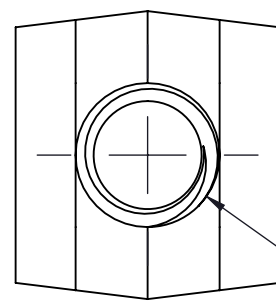
A



ISOMETRIC VIEW



SIDE VIEW




FRONT VIEW

1/4-20 UNC-2A

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).
- 4) MATERIAL: STAINLESS STEEL 316

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.

 CT INNOVATIONS		TITLE:		
		TA25TS-S6 1/4-20 T-SLOT		
DRAWN BY/DATE:		SIZE:	DWG. NO.:	REV:
DL 26FEB2024		B	CTI-S48193	A
APPROVED BY/DATE:		SCALE:	CAD FILE NAME: TA25TS_A	SHEET:
JDG 26FEB2024		NTS	CAD SAVE DATE: Monday, February 26, 2024 3:15:45 PM	1 OF 1

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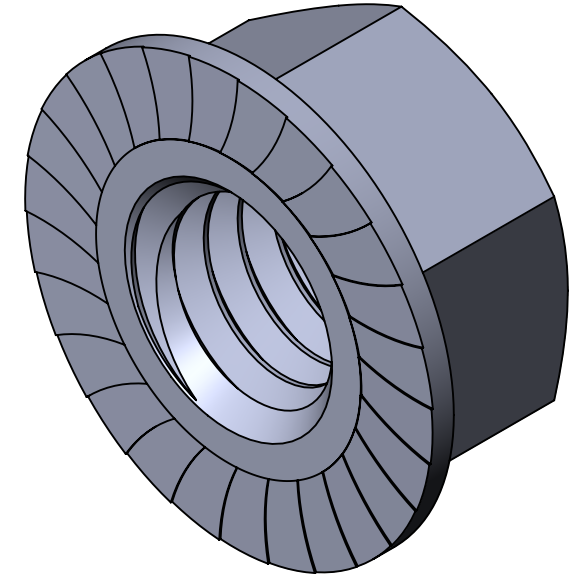
3

2

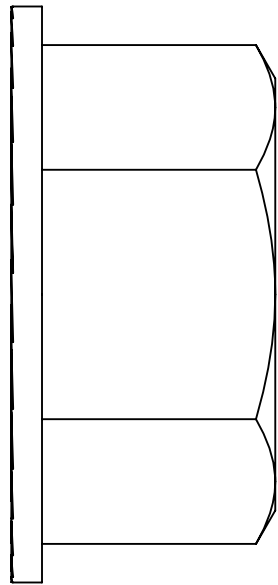
1

PART NO.	THREAD SIZE Ø (in)
TA25FHNX-(*)	1/4-20
TA38FHNX-(*)	3/8-16
TA50FHNX-(*)	1/2-13

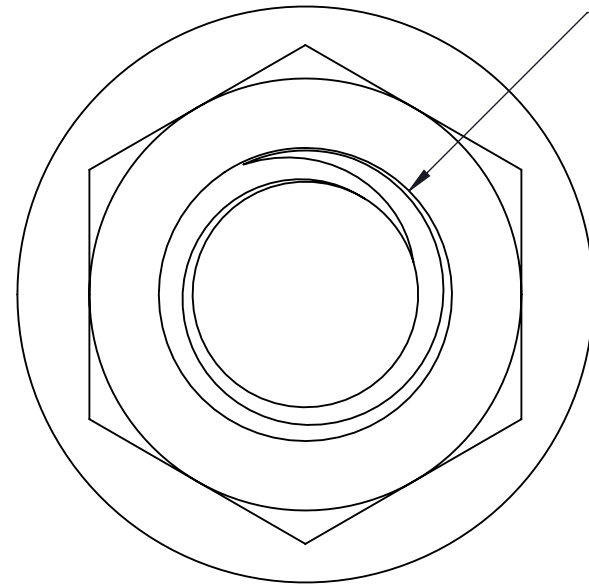
(*) INSERT MATERIAL/FINISH:
 ZN - GALVANIZED
 S6 - STAINLESS STEEL 316
 S4 - STAINLESS STEEL 304



ISOMETRIC VIEW



SIDE VIEW



TOP VIEW

THREAD SIZE Ø

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TITLE:
**TAXXFNHX-(*)
 SERRATED FLANGE HEX NUT**

DRAWN BY/DATE: DL 11DEC2023	SIZE: B	DWG. NO.: CTI-S48972	REV: B
APPROVED BY/DATE: JDG 15DEC2023	SCALE: NTS	CAD FILE NAME: TA38FNHX CAD SAVE DATE: Tuesday, February 27, 2024 10:46:01 AM	SHEET: 1 OF 1

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

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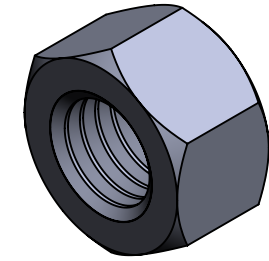
3

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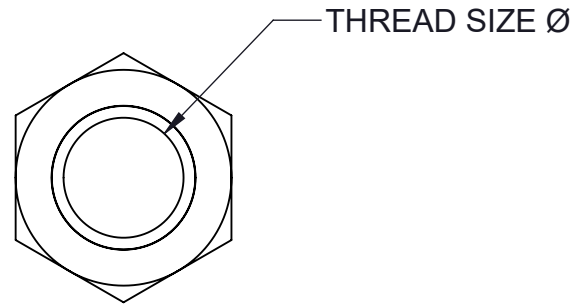
1

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

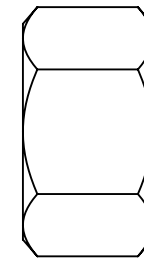
(*) INSERT MATERIAL/FINISH:
 ZN - GALVANIZED
 S6 - STAINLESS STEEL 316
 S4 - STAINLESS STEEL 304



ISOMETRIC VIEW



TOP VIEW




SIDE VIEW

NOTES:

- 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.

 CT INNOVATIONS		TITLE:	
		TA(Ø)HN-(*) HEX NUT	
DRAWN BY/DATE: LW 27FEB2024		SIZE: B	DWG. NO.: CTI-S14996
APPROVED BY/DATE: JDG 29FEB2024		SCALE: NTS	REV: A
		CAD FILE NAME: TA38NHX_A CAD SAVE DATE: Tuesday, February 27, 2024 10:47:37 AM	SHEET: 1 OF 1

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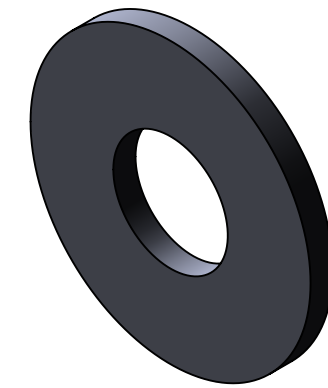
3

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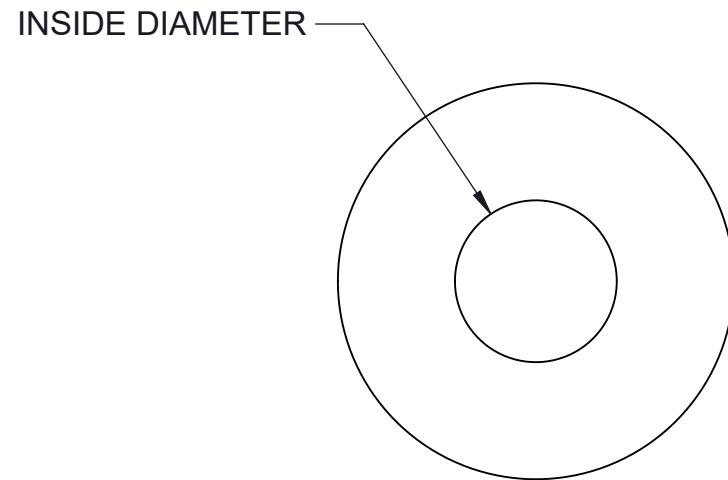
1

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

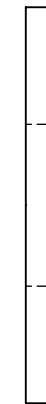
(*) INSERT MATERIAL/FINISH:
 ZN - GALVANIZED
 S6 - STAINLESS STEEL 316
 S4 - STAINLESS STEEL 304



ISOMETRIC VIEW



TOP VIEW




SECTION VIEW

NOTES:

- 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.

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

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