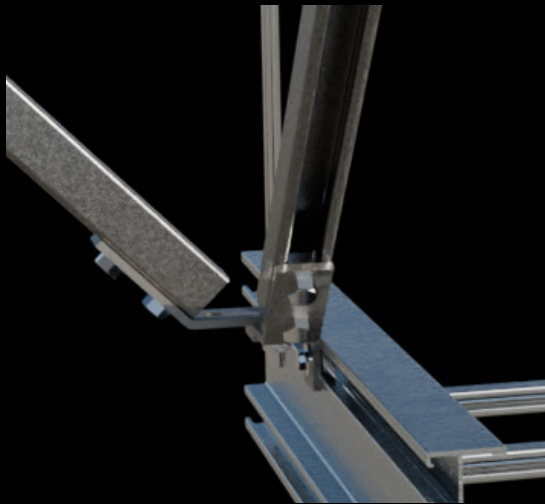


T O U G H T R A Y

**SIMPLICITY &  
PERFORMANCE**



**CT INNOVATIONS**

# SHAKING UP THE CABLE TRAY INDUSTRY

TT-F-05

## SUPPORT WITH CONFIDENCE



**SUPERIOR STRENGTH**



**DESIGNED FOR PREFAB**



**OPM & OSHPD COMPLIANT**



**15% FEWER COMPONENTS**



**75% FASTER INSTALLATION**



**50% MATERIAL SAVINGS**

**INDUSTRIAL | COMMERCIAL | DATA CENTERS**

**WWW.TOUGHINNOVATIONS.COM**

Your Cable Management Solutions



# Submitting Seismic Details for Review & Services

## 1.

### Gather Documents

- Specifications
  - Loads
  - Layouts
  - Plan Views
  - Elevation Views
- Equipment Details

## 2.

### Clearly State Service Needs

- BOM
- Quote
- PE Stamps
- Detailed Layout
- Structural Calcs
- GA Drawings

## 3.

### Submit To CT Innovations

toughinnovations.com  
Click on "Contact Us" or  
Email Directly:  
support@toughinnovations.com

## TOUGHTray - Cable Bracing

**Direct mount**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	UCM
1	TTA-HRBRKT-U	TOUGHTRAY ACCESSORY: HANGER ROD BRACKET, ALUMINUM	1	PAIR
2	TAS0X120-ATR-SB	TOUGHTRAY ALL THREADED ROD ATR 1/2 ACCESSORY, SS 316	2	EA
3	TAS0H-N-88	TOUGHTRAY HEX NUT 1/2 ACCESSORY, SS 316	4	EA
4	TAS0CP-SB	TOUGHTRAY COUPLER ATR 1/2 ACCESSORY, SS 316	2	EA
5	1/2 ANCHOR	1/2 CONCRETE ANCHOR	8	EA
6	CABLE BRACING	CABLE BRACING KIT	6	EA

**Remove ALL strut**

**CT INNOVATIONS**  
DRAWN BY: DL 22MAR2024  
APPROVED BY: NTS  
SCALE: NTS  
TITLE: HANGER ROD BRACKET SUPPORT 4-WAY BRACING ASSEMBLY DETAIL  
SIZE: B  
DWG. NO.: CTI-SB0113  
REV: A01  
SHEET: 1 OF 1

Direct Installation

**Traditional**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	UCM
1	TC2156-UJ-SB	TOUGHTRAY SINGLE CHANNEL, SOLID, 12G, 1.58 X 1.58 X 10, SS 316	1	EA
2	TTA-CLAMP-GUIDE-U	TOUGHTRAY ACCESSORY: CLAMP & GUIDE RESTRAINT, ALUMINUM	1	PAIR
3	TAS0X120-ATR-SB	TOUGHTRAY ALL THREADED ROD ATR 1/2 ACCESSORY, SS 316	2	EA
4	TAS0H-N-88	TOUGHTRAY 1/2 SQUARE WASHER, SS 316	4	EA
5	TAS0H-N-88	TOUGHTRAY HEX NUT 1/2 ACCESSORY, SS 316	4	EA
6	TAS0H-N-88	TOUGHTRAY HEX NUT 1/2 ACCESSORY, SS 316	2	EA
7	TAS0H-N-88	TOUGHTRAY HEX HEAD CAP SCREW BOLT 1/2-13 X 1.54L ACCESSORY, SS 316	2	EA
8	TAS0H-N-88	TOUGHTRAY NO SPRING CHANNEL NUT 1/2 ACCESSORY, SS 316	2	EA
9	1/2 ANCHOR	1/2 CONCRETE ANCHOR	8	EA
10	CABLE BRACING	CABLE BRACING KIT	6	EA

**CT INNOVATIONS**  
DRAWN BY: DL 22MAR2024  
APPROVED BY: NTS  
SCALE: NTS  
TITLE: TRAPEZE SUPPORT 4-WAY BRACING ASSEMBLY DETAIL  
SIZE: B  
DWG. NO.: CTI-SB0110  
REV: A01  
SHEET: 1 OF 1

Traditional Installation

## TOUGHTray - Rigid Bracing

**Direct mount**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	UCM
1	TTA-HRBRKT-U	TOUGHTRAY ACCESSORY: HANGER ROD BRACKET, ALUMINUM	1	PAIR
2	TAS0X120-ATR-SB	TOUGHTRAY ALL THREADED ROD ATR 1/2 ACCESSORY, SS 316	2	EA
3	TAS0H-N-88	TOUGHTRAY HEX NUT 1/2 ACCESSORY, SS 316	4	EA
4	TAS0CP-SB	TOUGHTRAY COUPLER ATR 1/2 ACCESSORY, SS 316	2	EA
5	1/2 ANCHOR	1/2 CONCRETE ANCHOR	8	EA
6	TR212M-AL	TOUGHTRAY 4-HOLE 45° ANGLE FITTING OPEN ANGLE FITTING, 3/12 X 3/16 ALUMINUM	8	EA
7	TS1150-U-SB	TOUGHTRAY SINGLE CHANNEL - SOLID, 12G, 1.58 X 1.58 X 10, SS 316	1	EA
8	TAS0H-N-88	TOUGHTRAY HEX HEAD CAP SCREW BOLT 1/2-13 X 1.54L ACCESSORY, SS 316	12	EA
9	TAS0H-N-88	TOUGHTRAY NO SPRING CHANNEL NUT 1/2 ACCESSORY, SS 316	12	EA

**Remove ALL strut**

**CT INNOVATIONS**  
DRAWN BY: DL 01APR2024  
APPROVED BY: NTS  
SCALE: NTS  
TITLE: HANGER ROD BRACKET SUPPORT 4-WAY RIGID BRACING ASSEMBLY DETAIL  
SIZE: B  
DWG. NO.: CTI-SB0116  
REV: A01  
SHEET: 1 OF 1

Direct Installation

**Traditional**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	UCM
1	TC2156-UJ-SB	TOUGHTRAY SINGLE CHANNEL, SOLID, 12G, 1.58 X 1.58 X 10, SS 316	1	EA
2	TTA-CLAMP-GUIDE-U	TOUGHTRAY ACCESSORY: CLAMP & GUIDE RESTRAINT, ALUMINUM	1	PAIR
3	TAS0X120-ATR-SB	TOUGHTRAY ALL THREADED ROD ATR 1/2 ACCESSORY, SS 316	2	EA
4	TAS0H-N-88	TOUGHTRAY SQUARE WASHER, SS 316	4	EA
5	TAS0H-N-88	TOUGHTRAY HEX NUT 1/2 ACCESSORY, SS 316	2	EA
6	TAS0H-N-88	TOUGHTRAY HEX HEAD CAP SCREW BOLT 1/2-13 X 1.54L ACCESSORY, SS 316	2	EA
7	TAS0H-N-88	TOUGHTRAY NO SPRING CHANNEL NUT 1/2 ACCESSORY, SS 316	11	EA
8	TAS0H-N-88	TOUGHTRAY COUPLER ATR 1/2 ACCESSORY, SS 316	2	EA
9	1/2 ANCHOR	1/2 CONCRETE ANCHOR	8	EA
10	TR212M-AL	TOUGHTRAY 4-HOLE 45° ANGLE FITTING OPEN ANGLE FITTING, 3/12 X 3/16 ALUMINUM	6	EA
11	TAS0H-N-88	TOUGHTRAY HEX HEAD CAP SCREW BOLT 1/2-13 X 1.54L ACCESSORY, SS 316	9	EA

**CT INNOVATIONS**  
DRAWN BY: DL 01APR2024  
APPROVED BY: NTS  
SCALE: NTS  
TITLE: TRAPEZE SUPPORT 4-WAY RIGID BRACING ASSEMBLY DETAIL  
SIZE: B  
DWG. NO.: CTI-SB0119  
REV: A01  
SHEET: 1 OF 1

Traditional Installation