

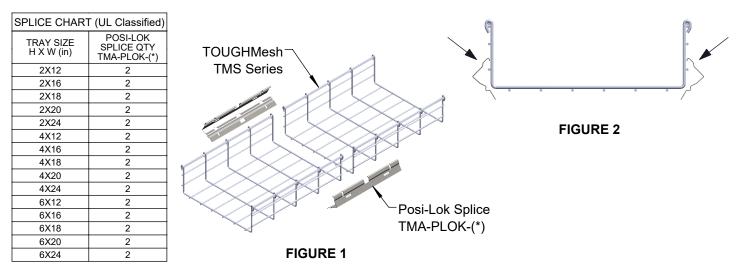


# Posi-Lok Splice TMA-PLOK-(\*)

**TOUGHMesh Accessories** 

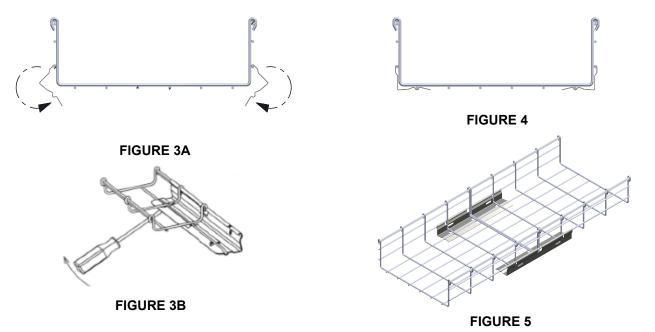
#### STEP 1:

Align the wirebasket tray and insert the Posi-Lok splice into the siderail longitudinal wire as shown. Refer to Splice Chart for UL Classified Posi-Lok splice quantity.



## STEP 2:

Once the Posi-Lok tab is hook up into the wirebasket siderail longitudinal wire, push the bottom of the Posi-Lok as shown in Figure 3A or use a screwdriver (optional) as shown in Figure 3B then push until it will snap into the bottom longitudinal wire.





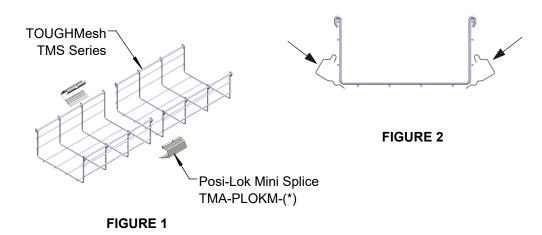
## Posi-Lok Mini Splice TMA-PLOKM-(\*)

**TOUGHMesh Accessories** 

#### STEP 1:

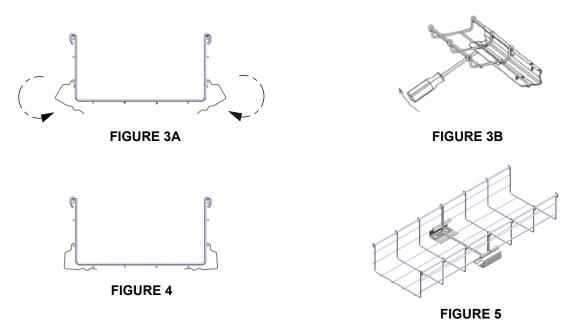
Align the wirebasket tray and insert the Posi-Lok Mini splice into the siderail longitudinal wire as shown below. Refer to Splice Chart for UL Classified Posi-Lok Mini splice quantity.

SPLICE CHART (UL Classified)				
TRAY SIZE H X W (in)	POSI-LOK MINI SPLICE QTY TMA-PLOK-(*)			
2X2	2			
2X4	2			
2X6	2			
2X8	2			
2X10	2			
4X4	2			
4X6	2			
4X8	2			
4X10	2			
6X8	2			
6X10	2			



## STEP 2:

Once the Posi-Lok Mini tab is hook up into the wirebasket siderail longitudinal wire, push the bottom of the Posi-Lok Mini as shown in Figure 3A or use a screwdriver (optional) as shown in Figure 3B then push until it will snap into the bottom longitudinal wire.

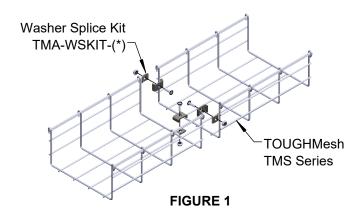


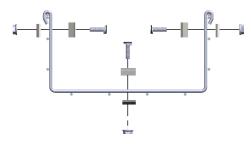
# Washer Splice Kit TMA-WSKIT-(\*)

**TOUGHMesh Accessories** 

## STEP 1:

Align the wirebasket tray and intall the Washer Splice Kit as shown below. Refer to Splice Chart for UL Classified Washer Splice Kit quantity.

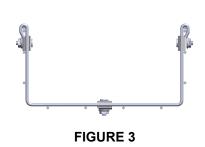


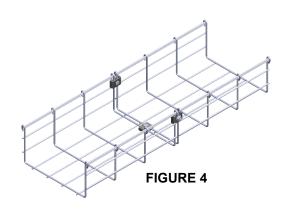


SPLICE CHART (UL Classified)				
TRAY SIZE	WASHER SPLICE KIT QTY			
H X W (in)	SIDERAIL	воттом		
2X2	2	0		
2X4	2	0		
2X6	2	0		
2X8	2	1		
2X10	2	1		
2X12	2	1		
2X16	2	2		
2X18	2	2		
2X20	2	2		
2X24	2	2		
4X4	2	2		
4X6	2	2		
4X8	2	3		
4X10	2	3		
4X12	2	4		
4X16	2	4		
4X18	2	4		
4X20	2	5		
4X24	2	5		
6X8	4	2		
6X10	4	2		
6X12	4	3		
6X16	4	3		
6X18	4	3		
6X20	4	4		
6X24	4	4		

## STEP 2:

Torque all Washer Splice Kit hardware to 6ft-lbs.





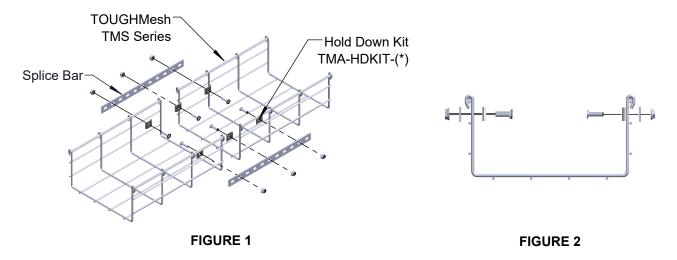


## Hold Down Kit TMA-HDKIT-(\*)

**TOUGHMesh Accessories** 

## STEP 1:

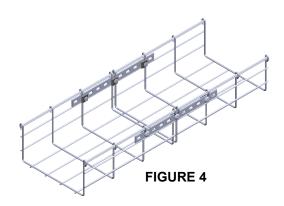
Align the wirebasket tray, splice bar and install the Hold Down Kit as shown below.



## STEP 2:

Torque all Hold Down Kit hardware to 6ft-lbs. For Washer Splice Kits to be installed at the bottom of the basket tray, refer to Step 3 and 4 of Installation Instruction CTI-S50005.





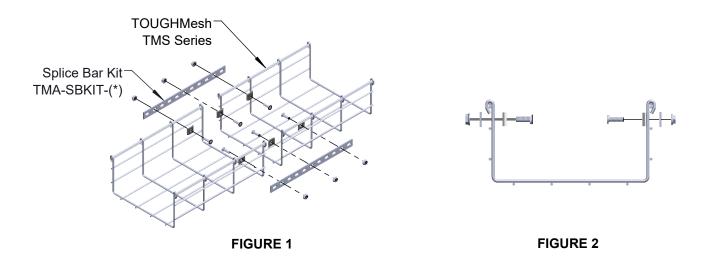


# Splice Bar Kit TMA-SBKIT-(\*)

**TOUGHMesh Accessories** 

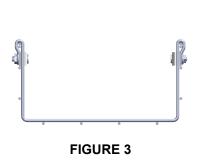
## STEP 1:

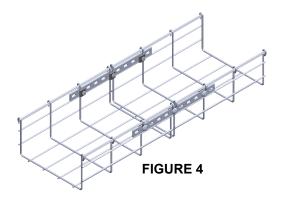
Align the wirebasket tray and install the Splice Bar Kit as shown below.



## STEP 2:

Torque all Splice Bar Kit hardware to 6ft-lbs.







# Splice Bar Kit TMA-SBKIT-(\*)

**TOUGHMesh Accessories** 

## STEP 3:

Install additional Washer Splice Kit at the bottom of the wire basket tray as shown below. Refer to Table 1 for the required Washer Splice Kit quantity.

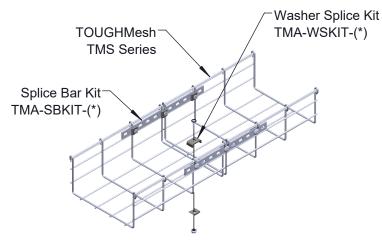


FIGURE 5

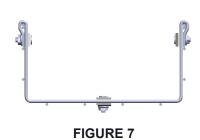


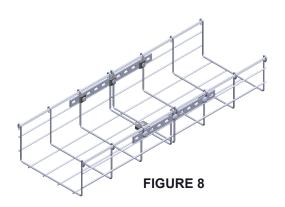
FIGURE 6

TABLE 1			
TRAY SIZE H X W (in)	WASHER SPLICE KIT QTY		
2X2	0		
2X4	0		
2X6	0		
2X8	0		
2X10	1		
2X12	1		
2X16	1		
2X18	2		
2X20	2 2 2 0		
2X24	2		
4X4	0		
4X6	0		
4X8	0		
4X10	1		
4X12	1		
4X16	1		
4X18	2		
4X20	2 2 2		
4X24	2		
6X8	0		
6X10	1		
6X12	1		
6X16	1		
6X18	2		
6X20	2 2 2		
6X24	2		

## STEP 4:

Torque all Washer Splice Kit hardware to 6ft-lbs.







# Expansion Splice Kit TMA-EXSBKIT-(\*)

**TOUGHMesh Accessories** 

## STEP 1:

Identify the maximum spacing between expansion joints that provide for 1" (25mm) movement and the required gap settings between cable tray. Refer to Technical Data Sheet document no. CTI-S65001 for the step by step procedure.

### STEP 2:

Once the maximum spacing between expansion joints and gap setting are identified, position the wirebasket tray based on the gap setting and install the Expansion Splice Kit as shown below.

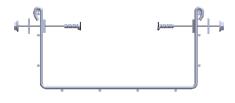


FIGURE 1

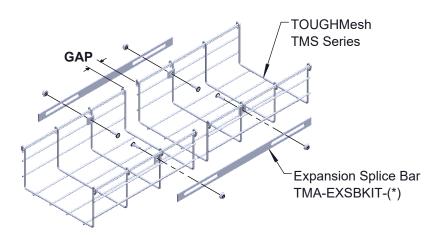


FIGURE 2



## **Expansion Splice Kit** TMA-EXSBKIT-(\*)

**TOUGHMesh Accessories** 

## STEP 3:

Torque all Hold Down Kit hardware to 5ft-lbs.





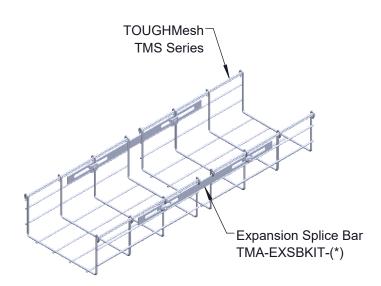


FIGURE 4

Provide support within 2ft on each side of the expansion splice plates and install grounding to maintain electrical continuity. Refer to Document No. CTI-S50010 for ground bolt installation instructions.

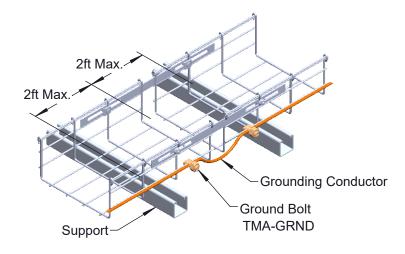


FIGURE 5

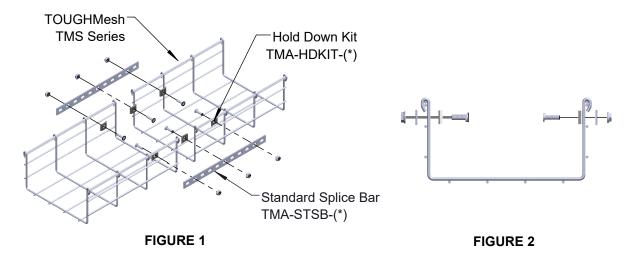


## Standard Splice Bar TMA-STSB-(\*)

**TOUGHMesh Accessories** 

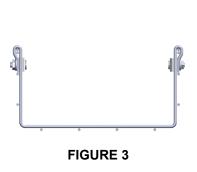
## STEP 1:

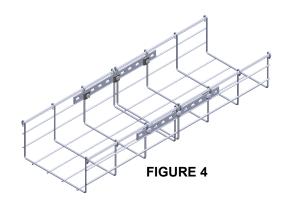
Align the wirebasket tray, Standard Splice Bar and install the Hold Down Kit as shown below.



## STEP 2:

Torque all Hold Down Kit hardware to 6ft-lbs. For Washer Splice Kits to be installed at the bottom of the basket tray, refer to Step 3 and 4 of Installation Instruction CTI-S50005.







# FLAT CROSS WASHER TMA-FLXW-(\*)

**TOUGHMesh Accessories** 

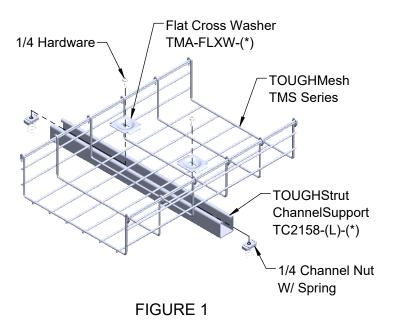
#### STEP 1:

Determine the required length of the TOUGHStrut channel support (See Table 1) based on the width of the cable tray to be supported. Once identified, align the Flat Cross Washer with wirebasket tray bottom wire and install the hardware as shown.

TABLE 1				
TOUGMesh P/N	TOUGMesh WIDTH (in)	TOUGHStrut P/N	UGHStrut P/N TOUGHStrut LENGTH (in)	
TMS-(H)X02X10-(*)	2	TC2158-08-(*)	8	1
TMS-(H)X04X10-(*)	4	TC2158-10-(*)	10	1
TMS-(H)X06X10-(*)	6	TC2158-12-(*)	12	1
TMS-(H)X08X10-(*)	8	TC2158-14-(*)	14	2
TMS-(H)X10X10-(*)	10	TC2158-16-(*)	16	2
TMS-(H)X12X10-(*)	12	TC2158-18-(*)	18	2
TMS-(H)X16X10-(*)	16	TC2158-22-(*)	22	2
TMS-(H)X18X10-(*)	18	TC2158-24-(*)	24	2
TMS-(H)X20X10-(*)	20	TC2158-26-(*)	26	2
TMS-(H)X24X10-(*)	24	TC2158-28-(*)	28	2



<sup>(\*) -</sup> Insert Material/Finish



## STEP 2:

Hold down clamp installation: Torque the hardware to 6ft-lbs. Hold down expansion guide installation: Torque the hardware to 5ft-lbs.



FIGURE 2



## Ground Bolt TMA-GRND

**TOUGHMesh Accessories** 

Metal cable trays that support electrical conductors shall be grounded as required in accordance with NEC Article 250, Section 250.96 Part IV to ensure electrical continuity and the capacity to conduct safely any fault current likely to be imposed on it. Any nonconductive paint or similar coating shall be removed at threads, contact points, and contact surfaces. Metal cable trays containing only non-power conductors shall be electrically continuous through approved connections or the use of bonding jumpers.

For metal cable tray system, bonding jumpers are typically required in cetain locations such as expansion joints, horizontal adjustable splice plates, vertical adjustable splice plates and other discontinuities to maintain the electrical continuity unless the splice plates meet the electrical continuity requirements of NEMA VE-1 Section 4.7.

Refer to the following process for typical TOUGHMesh Ground Bolt and grounding conductor installation:

## STEP 1:

Identify all locations that require bonding jumpers such as expansion joints, non-classified splice plates and other discontinuities. Then determine the approriate size of the bonding jumper according to NEC Articles 250 and 392.

#### STEP 2:

Install the ground bolt and grounding conduction as shown in Figure 1.

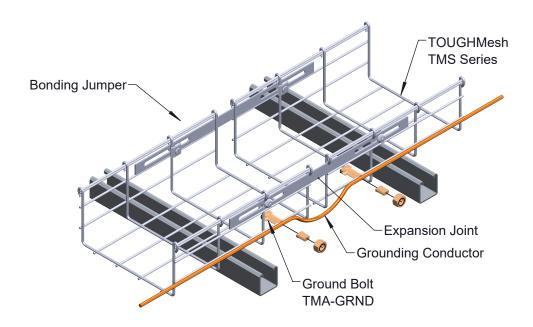


FIGURE 1



## Ground Bolt TMA-GRND

**TOUGHMesh Accessories** 

## STEP 3:

Torque all ground bolt to 19 ft-lbs.

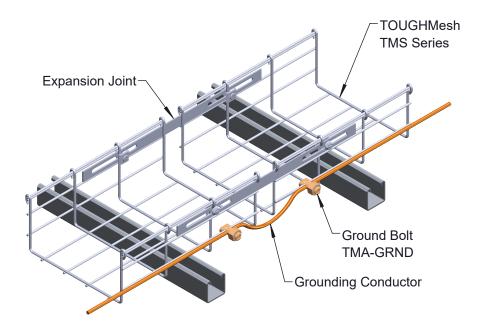


FIGURE 2

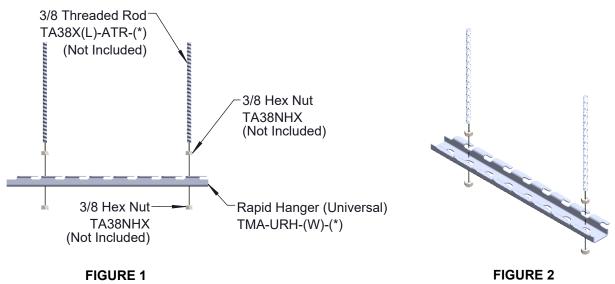


## RAPID HANGER (UNIVERSAL) TMA-URH-(W)-(\*)

**TOUGHMesh Accessories** 

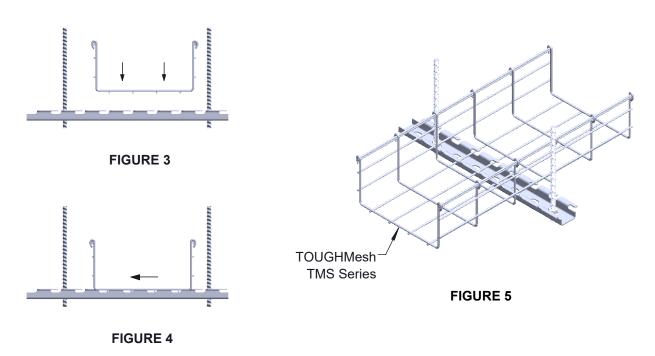
## STEP 1:

Align the Rapid Hanger, Hex Nut, and Threaded Rod as shown. Once the Assembly is set to the required elevation, torque the hex nut to 19ft-lbs.



## STEP 2:

Insert the basket tray bottom longitudinal wire into the Rapid Hanger tab until it will snap/lock shown below.

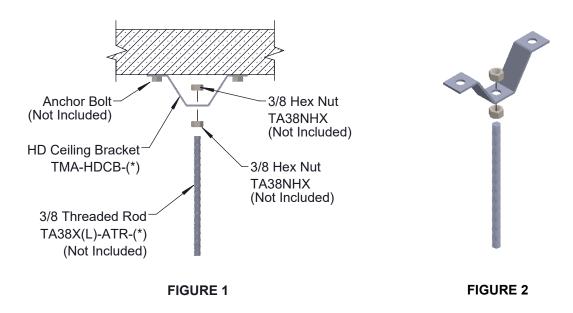




## HD CEILING BRACKET TMA-HDCB-(\*)

**TOUGHMesh Accessories** 

## **STEP 1:** Align the HD Ceiling bracket, Hex Nut, and Threaded Rod as shown.



## STEP 2:

Once the assembly is set to the required elevation, torque the hex nut to 19ft-lbs.



FIGURE 3

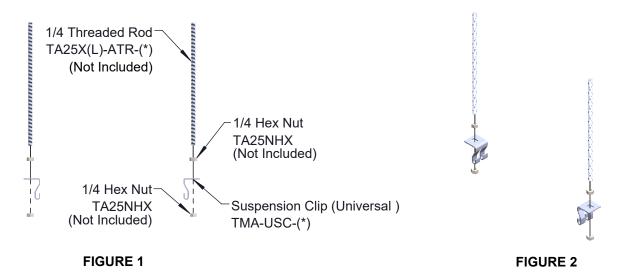


## SUSPENSION CLIP (UNIVERSAL) TMA-USC-(\*)

**TOUGHMesh Accessories** 

## STEP 1:

Align the Suspension Clip, Hex Nut, and Threaded Rod as shown. Once the Suspension Clip is set to the required elevation, torque the hex nut to 6ft-lbs.



#### STEP 2:

Position the wirebasket siderail to hook up into the Suspension Clip as shown below.

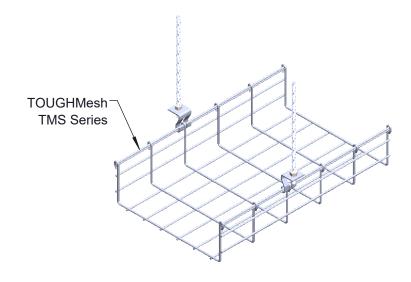


FIGURE 3



## **LAY-IN CABLE HANGER** TMA-LICH-(\*)

**TOUGHMesh Accessories** 

## STEP 1:

Align the Lay-in Cable Hanger, Hex Nut, and Threaded Rod as shown. Once the Lay-in Cable Hanger is set to the required elevation, torque the hex nut to 6ft-lbs.

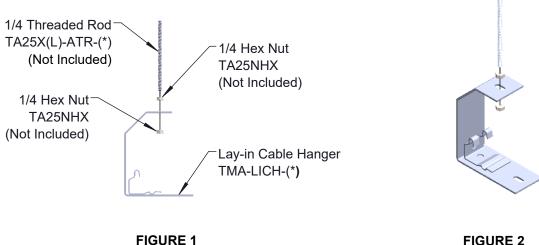


FIGURE 2

#### STEP 2:

Position the wirebasket siderail to hook up into the Lay-in Cable Hanger as shown below.

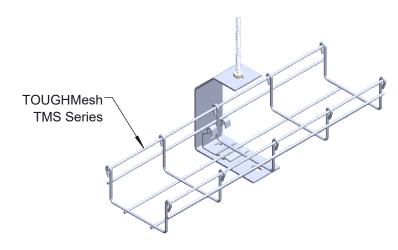


FIGURE 3



## 4" SUSPENSION CLIP TMA-4SC-(\*)

**TOUGHMesh Accessories** 

## STEP 1:

Align the Suspension Clip, Hex Nuts, and Threaded Rod as shown. Once the Suspension clip is set to the required elevation, torque the hex nut to 6 ft-lbs:

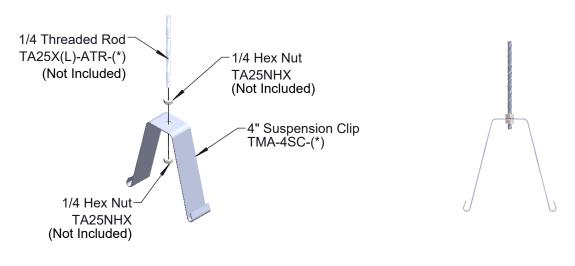
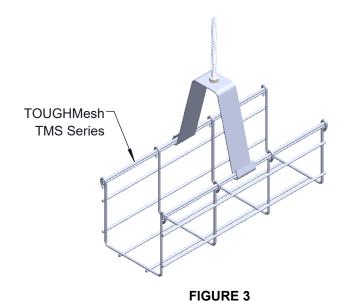


FIGURE 1 FIGURE 2

## STEP 2:

Position the wirebasket siderail to hook up into the Suspension Clip as shown below.



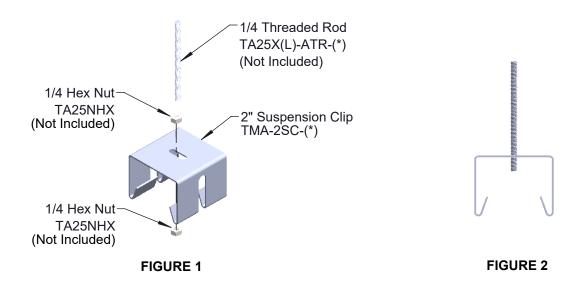


## 2" SUSPENSION CLIP TMA-2SC-(\*)

**TOUGHMesh Accessories** 

## STEP 1:

Align the Suspension Clip, Hex Nut, and Threaded Rod as shown. Once the Suspension Clip is set to the required elevation, torque the hex nut to 6ft-lbs.



## STEP 2:

Position the wirebasket siderail to hook up into the Suspension Clip as shown below.

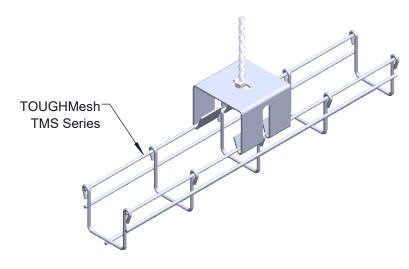


FIGURE 3



# L BRACKET TMA-LBRKT-(W)-(\*)

**TOUGHMesh Accessories** 

#### STEP 1:

Align the hold down kit with the bottom longitudinal wire of the TOUGHMesh and L bracket slot holes, then install the hardware as shown below. Refer to Table 1 for the required hold down kit quantity and L bracket part number based on the size of the TOUGHMesh tray.

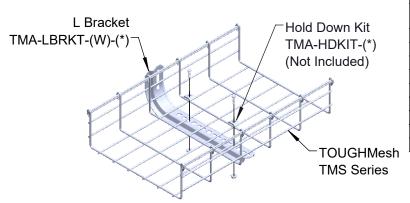
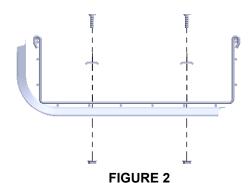


FIGURE 1

TABLE 1					
L BRACKET P/N	L BRACKET P/N TOUGMesh P/N		HOLD DOWN KIT QTY TMA-HDKIT-(*)		
TMA-LBRKT-04-(*)	TMS-(H)X04X10-(*)	4	1		
TMA-LBRKT-06-(*)	TMS-(H)X06X10-(*)	6	2		
TMA-LBRKT-08-(*)	TMS-(H)X08X10-(*)	8	2		
TMA-LBRKT-10-(*)	TMS-(H)X10X10-(*)	10	2		
TMA-LBRKT-12-(*)	TMS-(H)X12X10-(*)	12	2		
TMA-LBRKT-16-(*)	TMS-(H)X16X10-(*)	16	2		
TMA-LBRKT-18-(*)	TMS-(H)X18X10-(*)	18	2		
TMA-LBRKT-20-(*)	TMS-(H)X20X10-(*)	20	2		
TMA-LBRKT-24-(*)	TMS-(H)X24X10-(*)	24	2		

- (H) Insert TOUGHMesh Tray Height (2, 4, 6 H)
- (\*) Insert Material/Finish



## STEP 2:

Torque all Hold Down Kit hardware to 6ft-lbs.

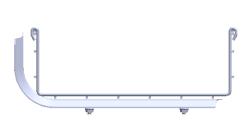


FIGURE 3

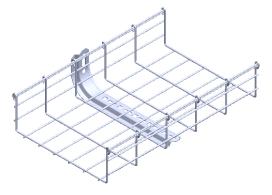


FIGURE 4



# C BRACKET TMA-CBRKT-(W)-(\*)

**TOUGHMesh Accessories** 

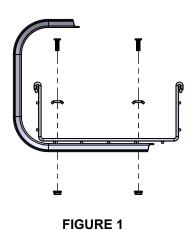
#### STEP 1:

Align the hold down kit with the bottom longitudinal wire of the TOUGHMesh and C bracket slot holes, then install the hardware as shown below. Refer to Table 1 for the required hold down kit quantity and C bracket part number based on the size of the TOUGHMesh tray.

TABLE 1						
L BRACKET P/N	TOUGMesh P/N	TOUGMesh WIDTH (in)	HOLD DOWN KIT QTY TMA-HDKIT-(*)			
TMA-CBRKT-04-(*)	TMS-(H)X4X10-(*)	4	1			
TMA-CBRKT-06-(*)	TMS-(H)X6X10-(*)	6	2			
TMA-CBRKT-08-(*)	TMS-(H)X8X10-(*)	8	2			
TMA-CBRKT-10-(*)	TMS-(H)X10X10-(*)	10	2			

<sup>(</sup>H) - Insert TOUGHMesh Tray Height (2, 4, 6 H)

<sup>(\*) -</sup> Insert Material/Finish



TMA-CBRKT-(W)-(\*)

Hold Down Kit

TMA-HDKIT-(\*)
(NOT INCLUDED)

TOUGHMesh

TMS Series

C Bracket

FIGURE 2

## STEP 2:

Torque all Hold Down Kit hardware to 6ft-lbs.



FIGURE 3

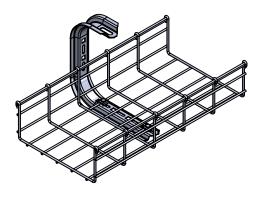


FIGURE 4



## VERTICAL WALL STANDARD TMA-VWS-(\*)

**TOUGHMesh Accessories** 

## STEP 1:

Fix the Vertical Wall Support Bracket into the wall first before installing the Lateral Riser Support Bracket.

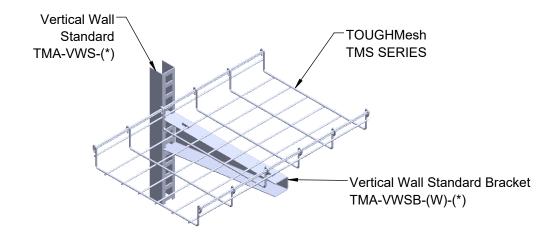


FIGURE 1

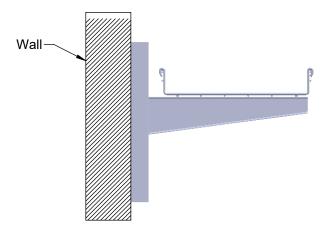


FIGURE 2



# VERTICAL WALL STANDARD BRACKET TMA-VWSB-(W)-(\*)

**TOUGHMesh Accessories** 

## STEP 1:

Rotate the Lateral Riser Support Bracket 45° and insert the upper tab into the vertical wall support bracket square hole then rotate back 45° and insert the bottom tab until it will lock in.

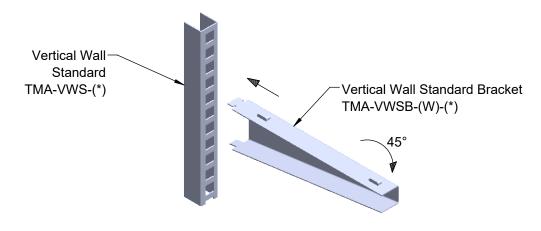
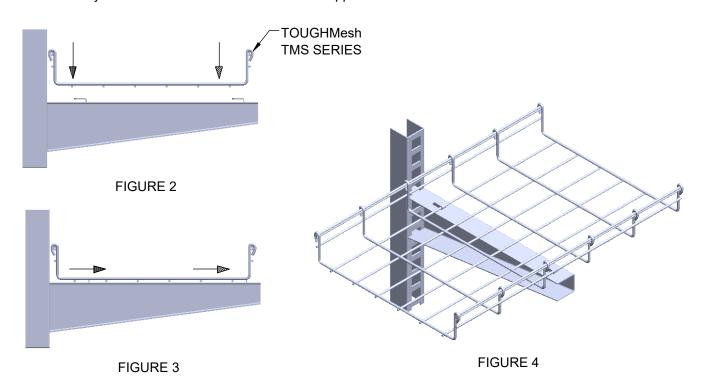


FIGURE 1

## STEP 2:

Place wire basket tray until it will lock into the Lateral Riser Support Bracket as shown below.





## **WALL SUPPORT KIT** TMA-WLKIT-(\*)

**TOUGHMesh Accessories** 

## OPTION 1: TOUGHMesh TRAY INSTALLED PARALLEL TO THE WALL STEP 1:

Identify the required length of the strut channel based on the width of the cable tray to be supported (See Table 1). Align the Flat Cross Washer with wire basket tray bottom wire and install the hardware as shown in Figure 1. Hold down clamp installation: Locate the flat cross washer right next to the transverse wire, see Detail A. Hold down expansion guide installation: Locate the flat cross washer in between the transverse wires, see Detail B.

Wall Structure

TABLE 1				
TOUGMesh P/N	TOUGMesh WIDTH (in)	TOUGHStrut P/N		WALL SUPPORT KIT QTY TMA-WLKIT-(*)
TMS-(H)X2X10-(*)	2	TC2058S-08-(*)	8	1
TMS-(H)X4X10-(*)	4	TC2058S-10-(*)	10	1
TMS-(H)X6X10-(*)	6	TC2058S-12-(*)	12	1
TMS-(H)X8X10-(*)	8	TC2058S-14-(*)	14	1
TMS-(H)X10X10-(*)	10	TC2058S-16-(*)	16	1
TMS-(H)X12X10-(*)	12	TC2058S-18-(*)	18	1
TMS-(H)X16X10-(*)	16	TC2058S-22-(*)	22	1
TMS-(H)X18X10-(*)	18	TC2058S-24-(*)	24	1
TMS-(H)X20X10-(*)	20	TC2058S-26-(*)	26	1
TMS-(H)X24X10-(*)	24	TC2058S-28-(*)	28	1
(H) - Insert TOUGHMesh Tray Height (2, 4, 6 H)				

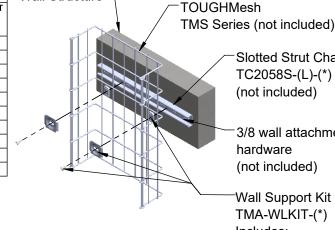


FIGURE 1

Slotted Strut Channel TC2058S-(L)-(\*) (not included)

3/8 wall attachment hardware (not included)

Wall Support Kit TMA-WLKIT-(\*)

Includes:

2 pc TMA-FLXW-(\*)

2 pc TA25NC-(\*)

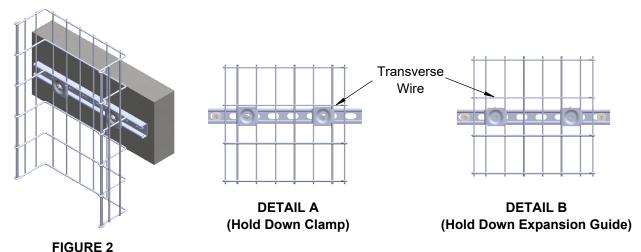
2 pc TA25PHM075-(\*)

(\*) - Insert Material/Finish

## STEP 2:

Hold down clamp installation: Torque the hardware to 6ft-lbs.

Hold down expansion guide installation: Torque the hardware to 5ft-lbs.





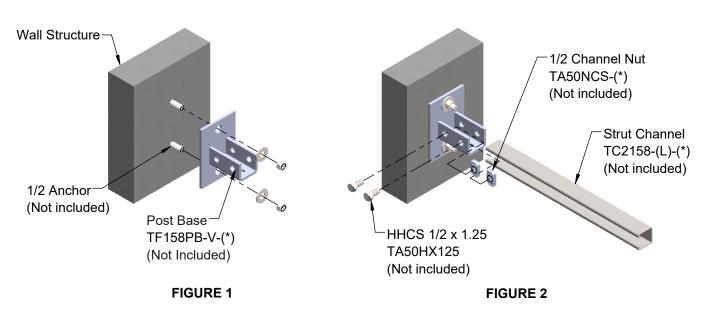


# WALL SUPPORT KIT TMA-WLKIT-(\*)

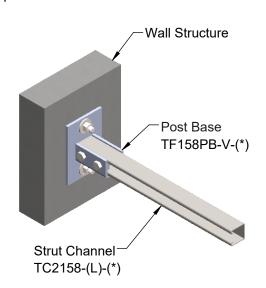
**TOUGHMesh Accessories** 

## OPTION 2: TOUGHMesh TRAY INSTALLED PERPENDICULAR TO THE WALL STEP 1:

Identify the required length of the strut channel based on the width of the cable tray to be supported (See Table 2) and install as shown below using 1/2 anchor (to be ordered separately).



STEP 2: Torque 1/2 HHCS to 50ft-lbs.



50023

TABLE 1					
TOUGMesh P/N TOUGMesh WIDTH (in)		TOUGHStrut P/N	TOUGHStrut LENGTH (in)	WALL SUPPORT KIT QTY TMA-WLKIT-(*)	
TMS-(H)X2X10-(*)	2	TC2158S-08-(*)	8	1	
TMS-(H)X4X10-(*)	4	TC2158S-10-(*)	10	1	
TMS-(H)X6X10-(*)	6	TC2158S-12-(*)	12	1	
TMS-(H)X8X10-(*)	8	TC2158S-14-(*)	14	1	
TMS-(H)X10X10-(*)	10	TC2158S-16-(*)	16	1	
TMS-(H)X12X10-(*)	12	TC2158S-18-(*)	18	1	
TMS-(H)X16X10-(*)	16	TC2158S-22-(*)	22	1	
TMS-(H)X18X10-(*)	18	TC2158S-24-(*)	24	1	
TMS-(H)X20X10-(*)	20	TC2158S-26-(*)	26	1	
TMS-(H)X24X10-(*)	24	TC2158S-28-(*)	28	1	

(H) - Insert TOUGHMesh Tray Height (2, 4, 6 H)



# WALL SUPPORT KIT TMA-WLKIT-(\*)

**TOUGHMesh Accessories** 

#### STEP 3:

Align the Flat Cross Washer with wire basket tray bottom wire and install the hardware as shown in Figure 4. Hold down clamp installation: Locate the flat cross washer right next to the transverse wire, see Detail A. Hold down expansion guide installation: Locate the flat cross washer in between the transverse wires, see Detail B.

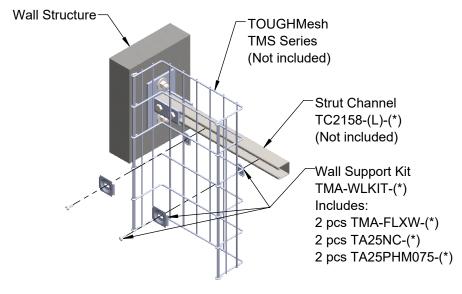
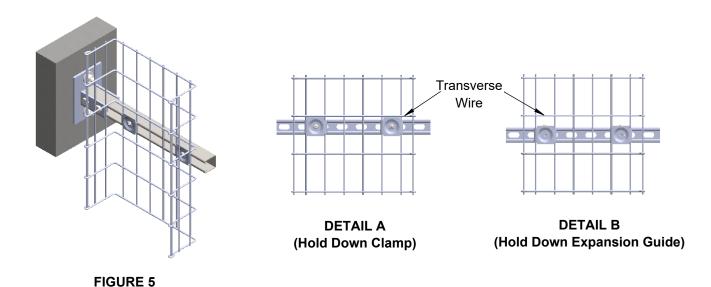


FIGURE 4

## STEP 4:

Hold down clamp installation: Torque the hardware to 6ft-lbs. Hold down expansion guide installation: Torque the hardware to 5ft-lbs.





# STRUT WALL BRACKET TMA-SWB-(#)-(\*)

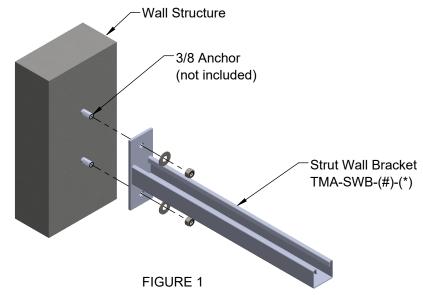
**TOUGHMesh Accessories** 

## STEP 1:

Determine the required size of the strut wall bracket based on the width of the cable tray to be supported and install as shown below using 3/8 anchor (to be ordered separately).

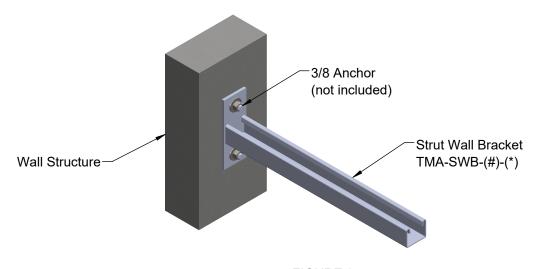
TABLE 1		
STRUT WALL BRACKET P/N	TOUGMesh P/N	TOUGMesh WIDTH (in)
TMA-SWB-04-(*)	TMS-(H)X2X10-(*)	2
TMA-SWB-04-(*)	TMS-(H)X4X10-(*)	4
TMA-SWB-06-(*)	TMS-(H)X6X10-(*)	6
TMA-SWB-08-(*)	TMS-(H)X8X10-(*)	8
TMA-SWB-10-(*)	TMS-(H)X10X10-(*)	10
TMA-SWB-12-(*)	TMS-(H)X12X10-(*)	12
TMA-SWB-16-(*)	TMS-(H)X16X10-(*)	16
TMA-SWB-18-(*)	TMS-(H)X18X10-(*)	18
TMA-SWB-20-(*)	TMS-(H)X20X10-(*)	20
TMA-SWB-24-(*)	TMS-(H)X24X10-(*)	24

<sup>(</sup>H) - Insert TOUGHMesh Tray Height (2, 4, 6 H)



## STEP 2:

Torque 3/8 anchor nuts to 19ft-lbs.



<sup>(\*) -</sup> Insert Material/Finish



## STRUT WALL BRACKET TMA-SWB-(#)-(\*)

**TOUGHMesh Accessories** 

## STEP 3:

Install the TOUGHMesh tray and secure it with flat cross washer and install the hardware as shown below.

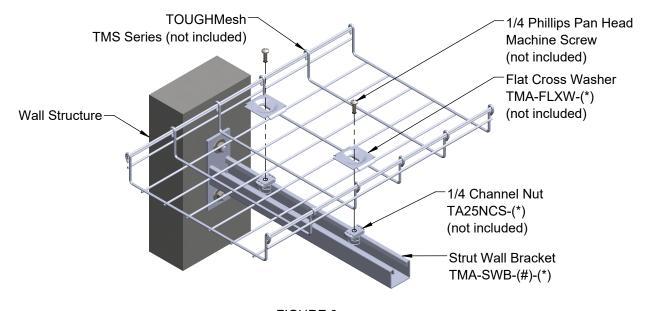
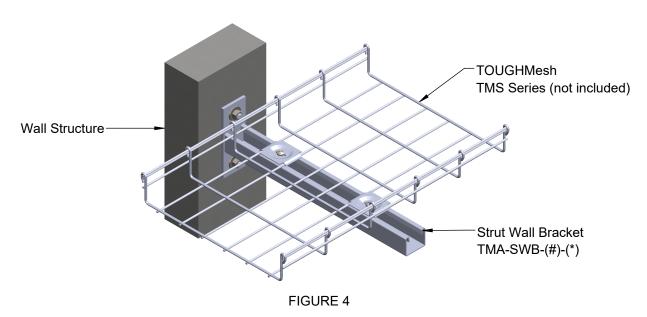


FIGURE 3

## STEP 4:

Hold down clamp installation: Torque the hardware to 6ft-lbs. Hold down expansion guide installation: Torque the hardware to 5ft-lbs.





## CABLE BARRIER TMA-CBAR-(H)-(\*)

**TOUGHMesh Accessories** 

## STEP 1:

Position the Cable Barrier to the required location/partition and secure to the bottom of the wire basket tray using the Hold Down Kit as shown below. Three (3) pieces hold down kit is required and to be ordered separately.

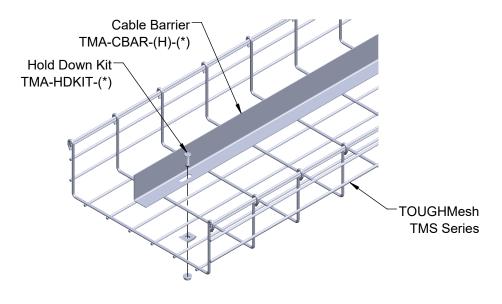


FIGURE 1

## STEP 2:

Torque all hardware to 6ft-lbs (3 locations).

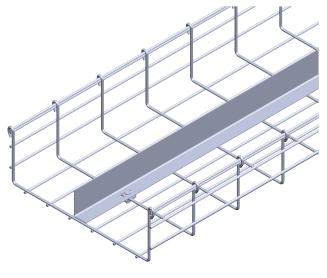


FIGURE 2

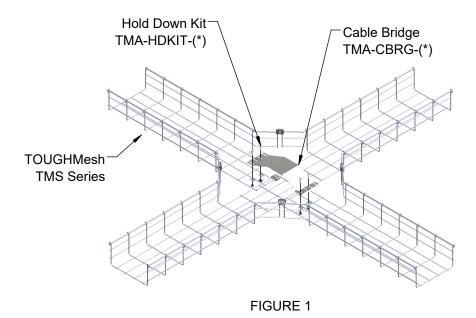


## CABLE BRIDGE PART NO. TMA-CBRG-(\*)

**TOUGHMesh Accessories** 

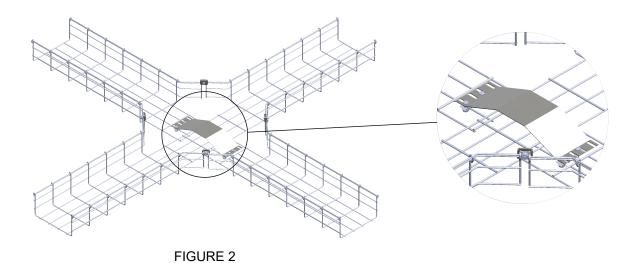
## STEP 1:

Prepare the Cable Bridge and align with the wirebasket tray. Install the hardware as shown below.



## STEP 2:

Torque all hardware until snug.



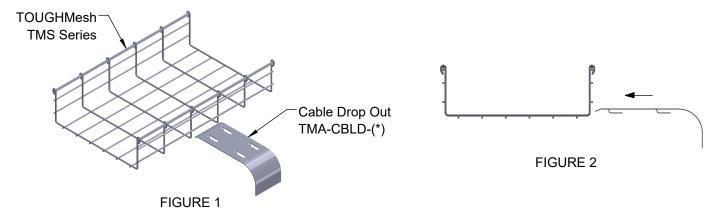


## CABLE DROP OUT TMA-CBLD-(\*)

**TOUGHMesh Accessories** 

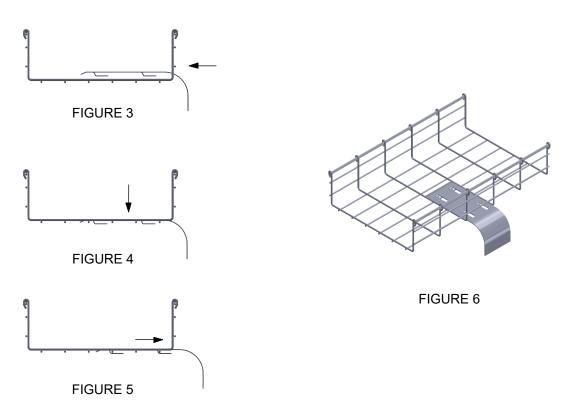
### STEP 1:

Position the Cable Drop Out into the wirebasket tray in between the transverse wire as shown below.



## STEP 2:

Slide the Cable Drop Out into the wirebasket tray as shown in Figure 3, 4, 5 & 6 until it will fit and lock to the bottom longitudinal wires.



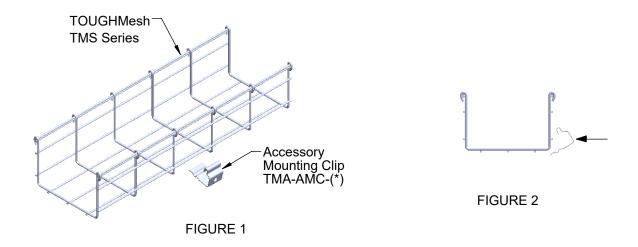


## ACCESSORY MOUNTING CLIP TMA-AMC-(\*)

**TOUGHMesh Accessories** 

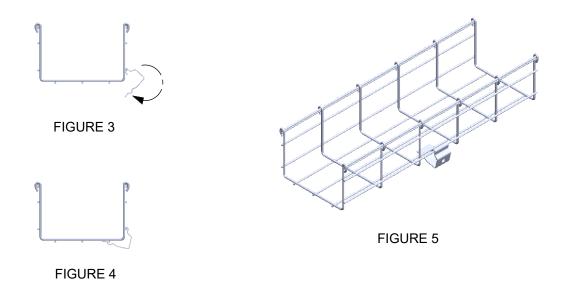
## STEP 1:

Insert the Mounting Clip into the siderail bottom longitudinal wire as shown below.



## STEP 2:

Once the Mounting Clip is hook up into the wirebasket siderail bottom longitudinal wire, push the bottom of the Accessory Mounting Clip until it will snap into the bottom longitudinal wire as shown below.

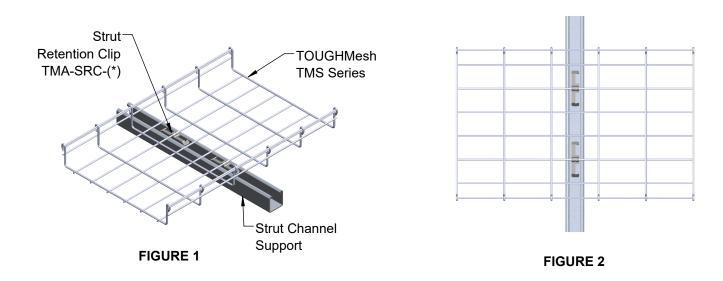




## STRUT RETENTION CLIP TMA-SRC-(\*)

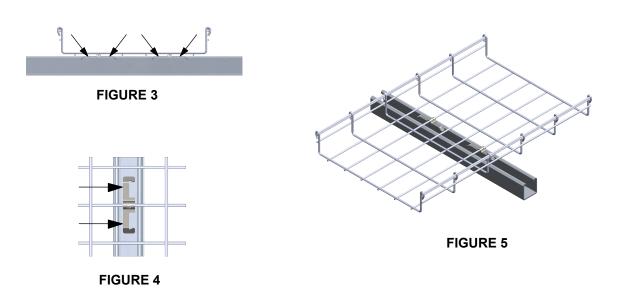
**TOUGHMesh Accessories** 

**STEP 1:**Position the Strut Retention Clip into the bottom longitudinal wire of the wirebasket tray as shown below.



## STEP 2:

Press the two sides of the a Strut Retention Clip as shown in Figure 3 then slide until it will snap into the strut channel lip as shown in Figure 4 and 5.





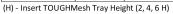
## ADJUSTABLE FLOOR STAND TMA-ADJS-(\*)

**TOUGHMesh Accessories** 

#### STEP 1:

Determine the required length of the TOUGHStrut channel based on the width of the cable tray to be supported (See Table 1) and install the hardware as shown in Figure 1. Torque the hardware to 6ft-lbs.

TABLE 1				
TOUGMesh P/N	TOUGMesh WIDTH (in)	TOUGHStrut P/N	TOUGHStrut LENGTH (in)	FLAT CROSS WASHER QTY TMA-FLXW-(*)
TMS-(H)X2X10-(*)	2	TC2158-08-(*)	8	1
TMS-(H)X4X10-(*)	4	TC2158-10-(*)	10	1
TMS-(H)X6X10-(*)	6	TC2158-12-(*)	12	1
TMS-(H)X8X10-(*)	8	TC2158-14-(*)	14	2
TMS-(H)X10X10-(*)	10	TC2158-16-(*)	16	2
TMS-(H)X12X10-(*)	12	TC2158-18-(*)	18	2
TMS-(H)X16X10-(*)	16	TC2158-22-(*)	22	2
TMS-(H)X18X10-(*)	18	TC2158-24-(*)	24	2
TMS-(H)X20X10-(*)	20	TC2158-26-(*)	26	2
TMS-(H)X24X10-(*)	24	TC2158-28-(*)	28	2



<sup>(\*) -</sup> Insert Material/Finish

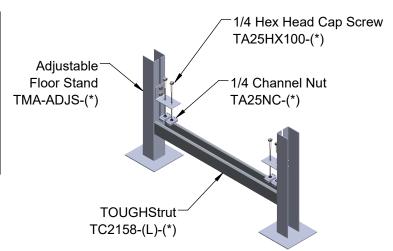


FIGURE 1

## STEP 2:

Once the horizontal TOUGHStrut channel is installed on the adjustable floor stand bracket, slide up or down to set the support to the required elevation and torque the side attachment hardware to 6ft-lbs.

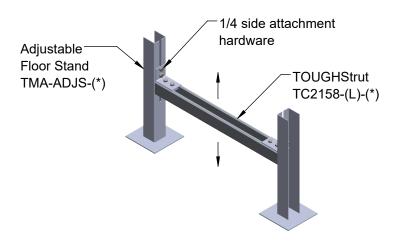


FIGURE 2

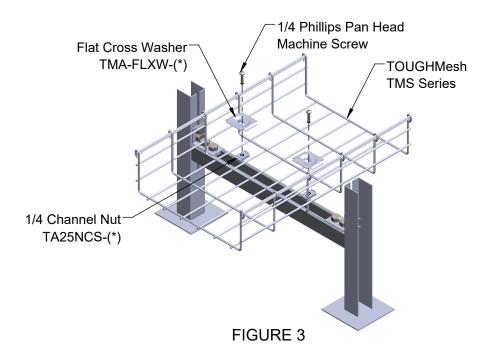


## ADJUSTABLE FLOOR STAND TMA-ADJS-(\*)

**TOUGHMesh Accessories** 

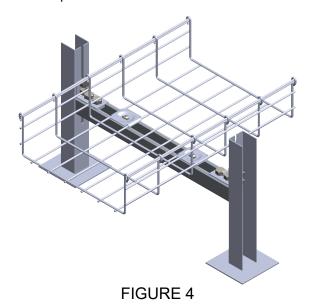
## STEP 3:

Install the TOUGHMesh tray and align the Flat Cross Washer with the tray bottom wire and install the hardware as shown.



## STEP 4:

Hold down clamp installation: Torque the hardware to 6ft-lbs. Hold down expansion guide installation: Torque the hardware to 5ft-lbs.





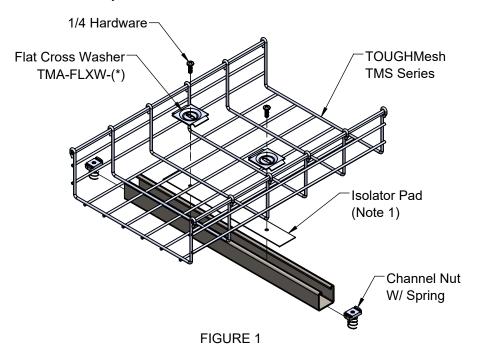
## ISOLATOR PAD TMA-XXXX

**TOUGHMesh Accessories** 

## **OPTION 1: STRUT CHANNEL SUPPORT**

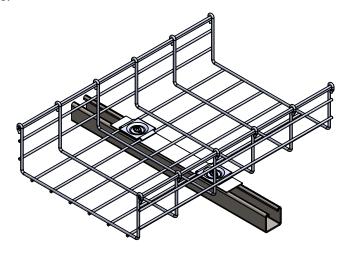
STEP 1:

Align the Isolator pad with wirebasket tray bottom wire and install the hardware as shown.



## STEP 2:

Torque the hardware to 6ft-lbs.



### FIGURE 2

Note:

1. Refer to document no. CTI-S65002 Table 1 for isolation requirement between dissimilar cable tray and support materials.



## ISOLATOR PAD TMA-XXXX

**TOUGHMesh Accessories** 

## **OPTION 2: STRUCTURAL STEEL SUPPORT**

STEP 1:

Align the Isolator pad with wirebasket tray bottom wire and install the hardware as shown.

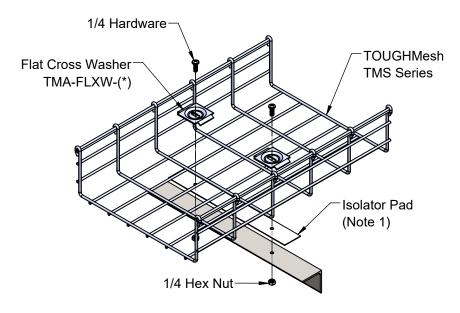
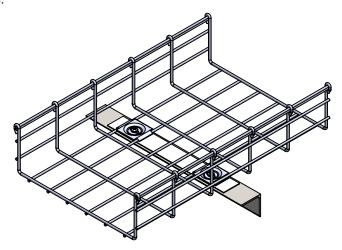


FIGURE 1

### STEP 2:

Torque the hardware to 6ft-lbs.



#### FIGURE 2

Note:

1. Refer to document no. CTI-S65002 Table 1 for isolation requirement between dissimilar cable tray and support materials.



## **Expansion Joint Installation**

(Mechanically Discontinuous)

#### STEP 1:

Identify the maximum spacing between expansion joints that provide for 1" (25mm) movement and the required gap settings between cable tray. Refer to Technical Data Sheet document no. CTI-S65001 for the step by step procedure.

### STEP 2:

Once the maximum spacing between expansion joints and gap settings are identified, install the wirebasket tray based on these settings. Provide support within 2ft on each side of the expansion joints as shown in Figure 1.

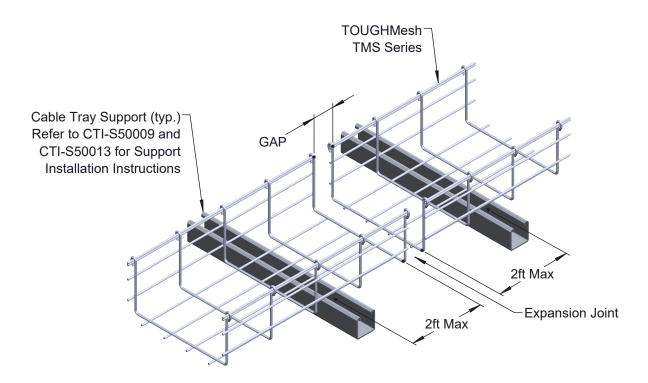


FIGURE 1

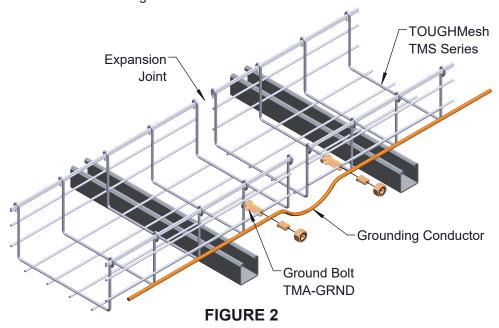


## **Expansion Joint Installation**

(Mechanically Discontinuous)

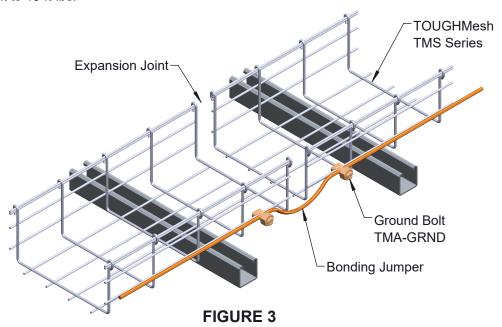
## STEP 3:

Determine the approriate size of the grounding conductor according to NEC Articles 250 and 392 then install the ground bolt and grounding conductor as shown in Figure 2.



## STEP 4:

Torque all ground bolt to 19 ft-lbs.





## Horizontal Tee From Sraight Sections Installation

**TOUGHMesh Fitting** 

#### STEP 1:

Prepare the first tray and smoothly cut the threads of one wire side section as shown in Figure 1, cut the required segments "P" as indicated in the table. Force must be applied to make an approximately 45deg bend on the "B" segment.

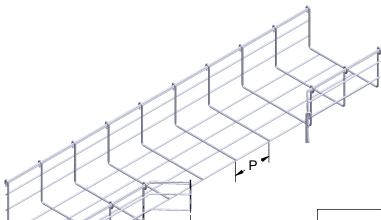


FIGURE 1

- B **→** 

## STEP 2:

Prepare the second tray and smoothly cut the threads of both wire side section as shown in Figure 2, cut the required segments "Q" as indicated in the table. Force must be applied to make an approximately 45deg bend on the "B" segment.

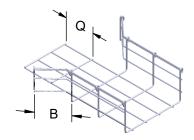


FIGURE 2

SPLICE CHART				OF TSTO BE	
TRAY SIZE	WASHER SPI	LICE KIT QTY	HOLD	REMOVED	
H X W (in)	SIDERAIL	воттом	KIT	Р	Q
2X2	2	1	-	1	1
2X4	2	1	-	2	1
2X6	2	1	4	3	1
2X8	2	1	-	3	1
2X10	2	1	4	4	1
2X12	2	1	-	4	1
2X16	2	2	-	5	1
2X18	2	2	4	6	1
2X20	2	2	-	6	1
2X24	2	2	-	7	1
4X4	2	2	-	2	1
4X6	2	2	4	3	1
4X8	2	3	-	3	1
4X10	2	3	4	4	1
4X12	2	4	-	4	1
4X16	2	4	-	5	1
4X18	2	4	4	6	1
4X20	2	5	-	6	1
4X24	2	5	-	7	1
6X8	4	2	-	3	1
6X10	4	2	4	4	1
6X12	4	3	-	4	1
6X16	4	3	-	5	1
6X18	4	3	4	6	1
6X20	4	4	-	6	1
6X24	4	4	-	7	1



# Horizontal Tee From Sraight Sections Installation

**TOUGHMesh Fitting** 

## STEP 3:

Position the two straight sections as shown in Figure 3, use the washer splice kits to fix the bottom wire sections and details A & B to fix the wire side section.

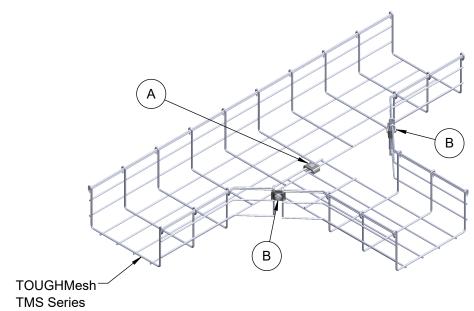
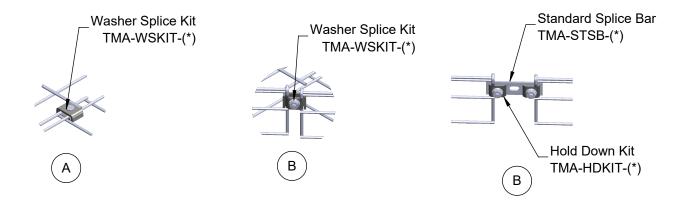


FIGURE 3



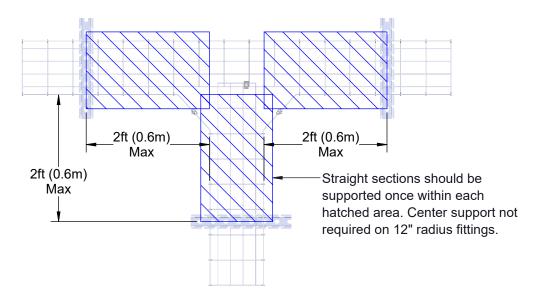


## Horizontal Tee From Sraight Sections Installation

**TOUGHMesh Fitting** 

## STEP 4:

Provide support on each side within 2ft from the splice location per NEMA VE-2.



**PLAN VIEW** 

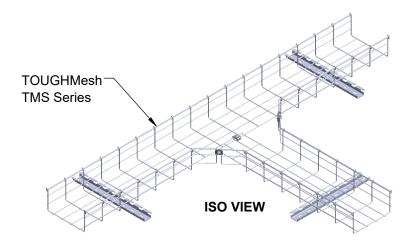


FIGURE 4