



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.

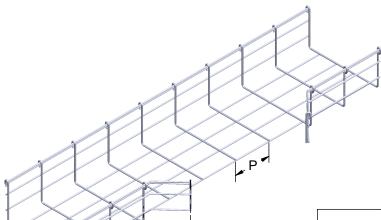


FIGURE 1

- 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.

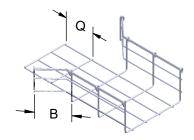


FIGURE 2

SPLICE CHART				OF TSTO BE	
TRAY SIZE	WASHER SPLICE KIT QTY		HOLD	REMOVED	
HXW (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.

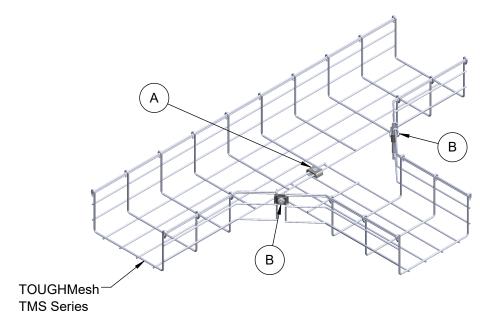
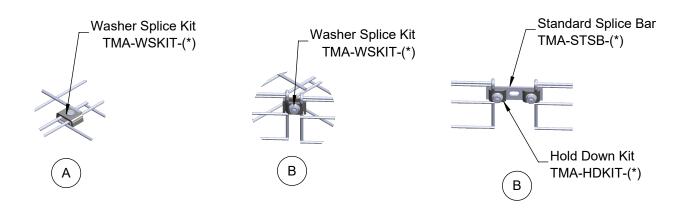


FIGURE 3



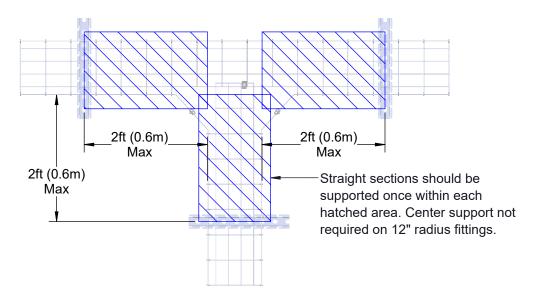


Horizontal Tee From Sraight Sections Installation

TOUGHMesh Fitting

STEP 4:

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



PLAN VIEW

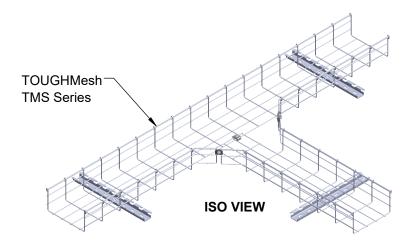


FIGURE 4



Horizontal Cross 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.

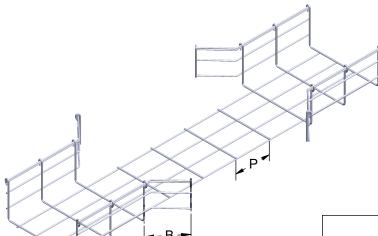


FIGURE 1

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.

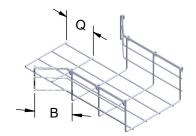


FIGURE 2

SPLICE CHART			NO.	. OF TSTO BE	
TRAY SIZE	WASHER SPI	IER SPLICE KIT QTY		REMOVED	
H X W (in)	SIDERAIL	воттом	DOWN KIT	Р	Q
2X2	4	2	-	1	1
2X4	4	2	-	2	1
2X6	4	2	8	3	1
2X8	4	2	-	3	1
2X10	4	2	8	4	1
2X12	4	2	-	4	1
2X16	4	4	-	5	1
2X18	4	4	8	6	1
2X20	4	4	-	6	1
2X24	4	4	-	7	1
4X4	4	4	-	2	1
4X6	4	4	8	3	1
4X8	4	4	-	3	1
4X10	4	6	8	4	1
4X12	4	8	-	4	1
4X16	4	8	-	5	1
4X18	4	8	8	6	1
4X20	4	10	-	6	1
4X24	4	10	-	7	1
6X8	8	4	-	3	1
6X10	8	4	8	4	1
6X12	8	6	-	4	1
6X16	8	6	-	5	1
6X18	8	6	8	6	1
6X20	8	8	-	6	1
6X24	8	8	-	7	1

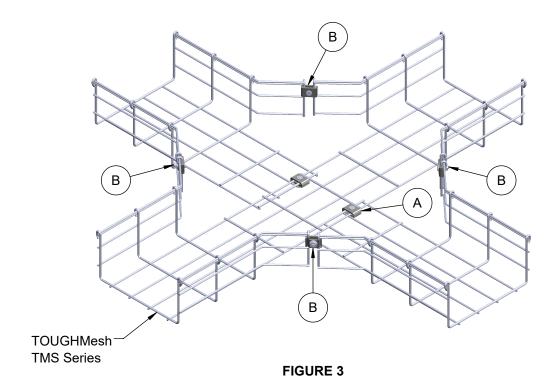


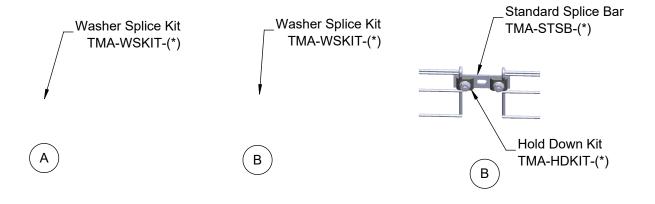
Horizontal Cross From Sraight Sections Installation

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.







Horizontal Cross From Sraight Sections Installation

TOUGHMesh Fitting

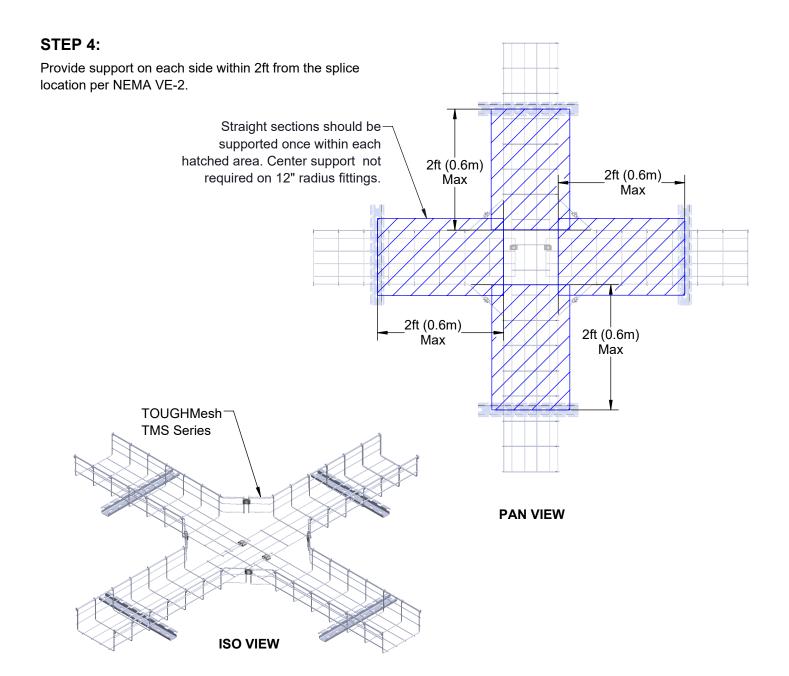


FIGURE 4



Straight Reducer From Sraight Sections Installation

TOUGHMesh Fitting

STEP 1:

Prepare the first tray (larger width) and cut only the 90° elbow of the cross wire section as shown in Figure 1. Force must be applied to make an inward bend on the "B" segment.

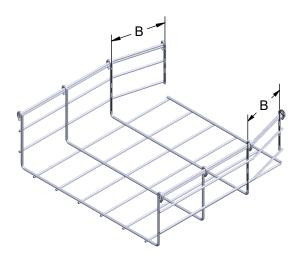
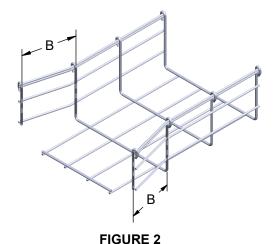


FIGURE 1

STEP 2:

Prepare the second tray (smaller width) and cut only the 90° elbow of the cross wire section as shown in Figure 2. Force must be applied to make an outward bend on the "B" segment.



SPLICE CHART				
TRAY SIZE	WASHER SPLICE KIT QTY			
H X W (in)	SIDERAIL	воттом		
2X2	2	1		
2X4	2	1		
2X6	2	1		
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		

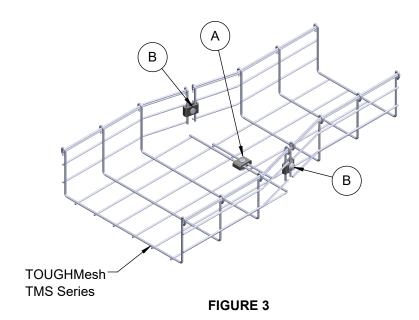


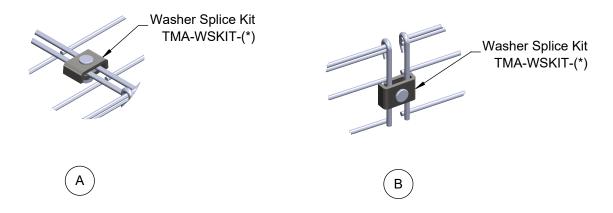
Straight Reducer From Sraight Sections Installation

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 detail B to fix the wire side section.





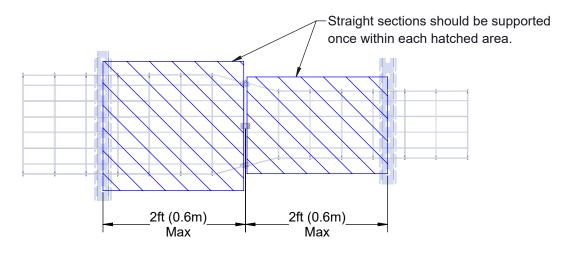


Straight Reducer From Sraight Sections Installation

TOUGHMesh Fitting

STEP 4:

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



PLAN VIEW

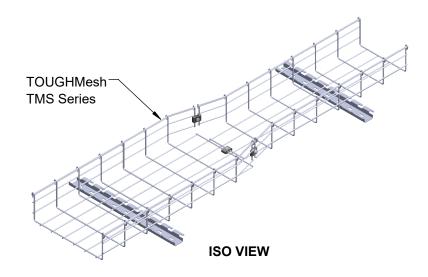


FIGURE 4



Left/Right Reducer From Sraight Sections Installation

TOUGHMesh Fitting

STEP 1:

Prepare the first tray (larger width) and cut only the 90° elbow of the cross wire section as shown in Figure 1. Force must be applied to make an inward bend on the "B" segment.

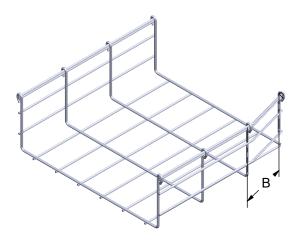


FIGURE 1

STEP 2:

Prepare the second tray (smaller width) and cut only the 90° elbow of the cross wire section as shown in Figure 2. Force must be applied to make an outward bend on the "B" segment.

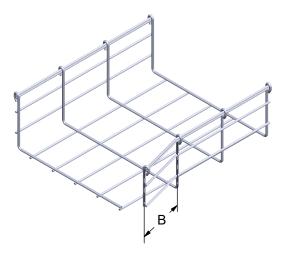


FIGURE 2

SPLICE CHART				
TRAY SIZE	WASHER SPLICE KIT QTY		Splice Bar Kit	
HXW(in)	SIDERAIL	воттом	Kit	
2X2	2	1	1	
2X4	2	1	1	
2X6	2	1	1	
2X8	2	1	1	
2X10	2	1	1	
2X12	2	1	1	
2X16	2	2	1	
2X18	2	2	1	
2X20	2	2	1	
2X24	2	2	1	
4X4	2	2	1	
4X6	2	2	1	
4X8	2	3	1	
4X10	2	3	1	
4X12	2	4	1	
4X16	2	4	1	
4X18	2	4	1	
4X20	2	5	1	
4X24	2	5	1	
6X8	4	2	1	
6X10	4	2	1	
6X12	4	3	1	
6X16	4	3	1	
6X18	4	3	1	
6X20	4	4	1	
6X24	4	4	1	

OBLIGE OLIABE



Left/Right Reducer From Sraight Sections Installation

TOUGHMesh Fitting

STEP 3:

Position the two straight sections as shown in Figure 3, use washer splice kits to fix the bottom and one side rail while use splice bar kit for the bended side section.

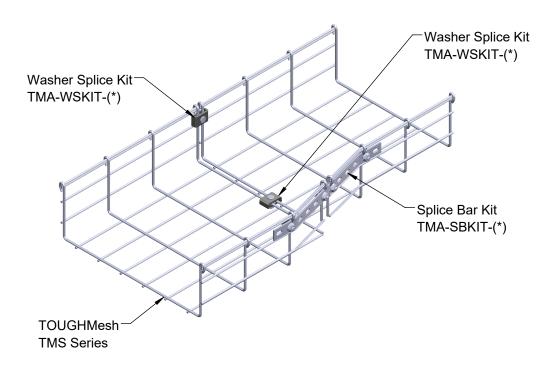


FIGURE 3

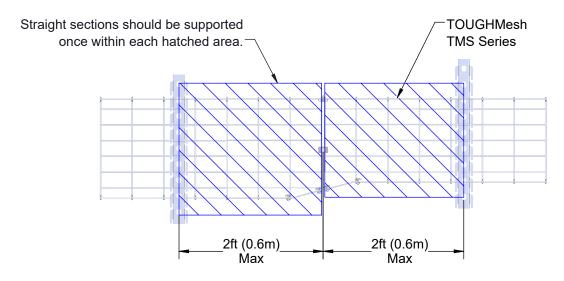


Left/Right Reducer From Sraight Sections Installation

TOUGHMesh Fitting

STEP 4:

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



PLAN VIEW

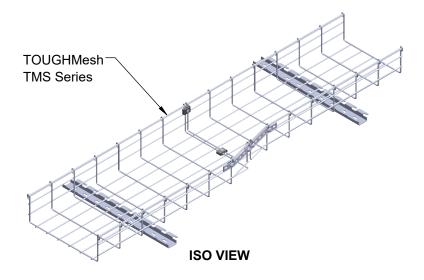


FIGURE 4

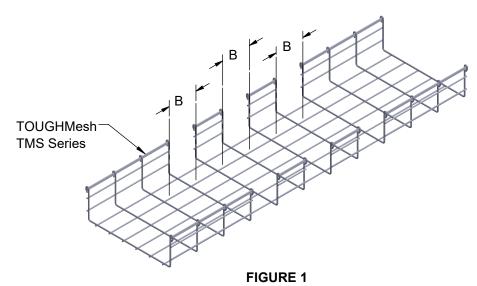


Vertical Inside/Outside From Sraight Sections Installation

TOUGHMesh Fitting

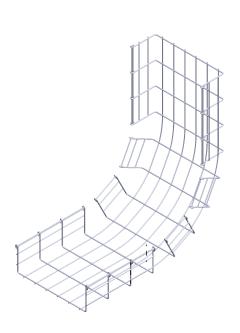
STEP 1:

Prepare the TOUGHMesh tray and cut the side rail longitudinal wires on the "B" segments as shown in Figure 1.

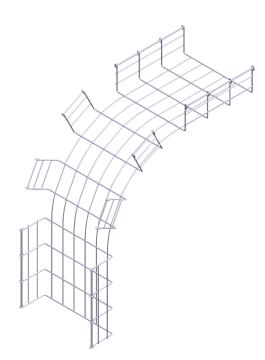


STEP 2:

Force must be applied to make a bend on the "B" segments to achieved the desired angle.



90° Vertical Inside Bend



90° Vertical Outside Bend



Vertical Inside/Outside From Sraight Sections Installation

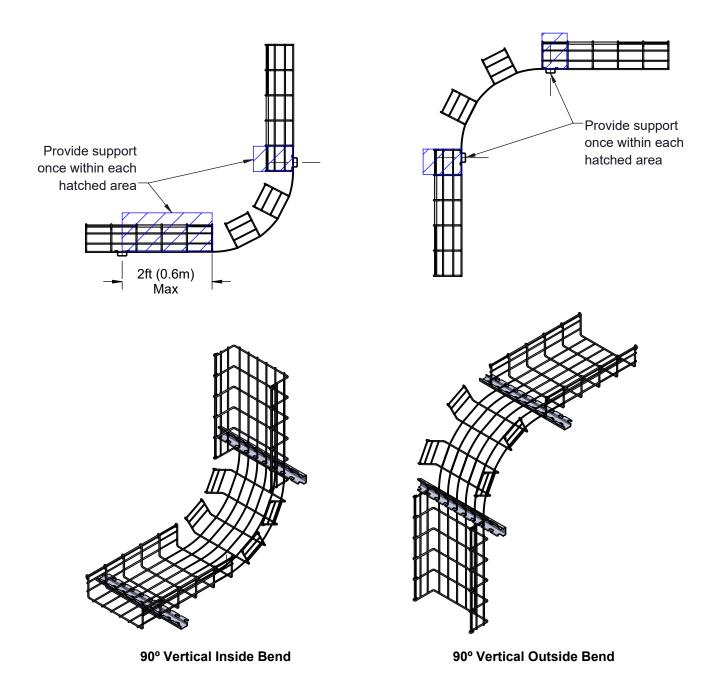
TOUGHMesh Fitting

STEP 3:

Provide support per NEMA VE-2.

Vertical Outside Bend: Provide support on both end of the elbow.

Vertical Inside Bend: Provide support at the top of the bend and provide support within 2ft of the lower extremity of the elbow.

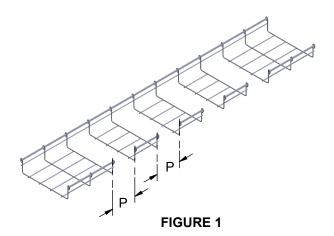




TOUGHMesh Fitting

STEP 1:

Smoothly cut the horizontal threads of the base leaving only the side thread on one side as shown in the Figure 1. Cut the required "P" segments as indicated in the splice chart table.



SPLICE CHART				
TRAY WIDTH (in)	WASHER SPLICE KIT QTY	NO. OF SEGMENTS TO BE REMOVED		
2	1	1		
4	2	2		
6	3	3		
8	4	4		
10	5	5		
12	6	6		
16	7	7		
20	9	9		
24	11	11		

STEP 2:

Force must be applied to make a bend in such a way that the "P" points are joined. Use washer splice kit to connect each segment as shown in Detail A.

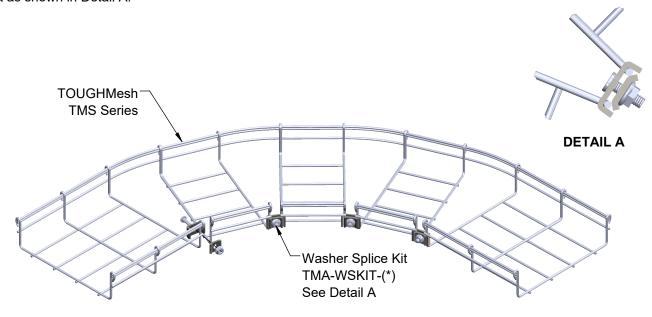
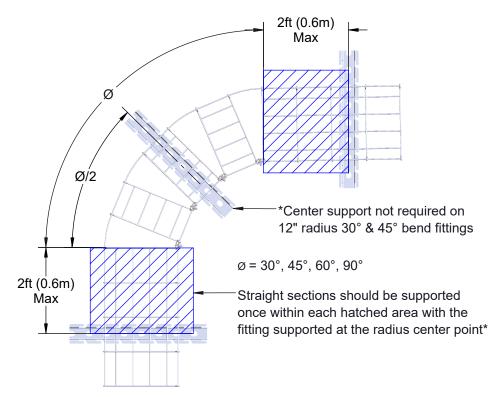


FIGURE 2

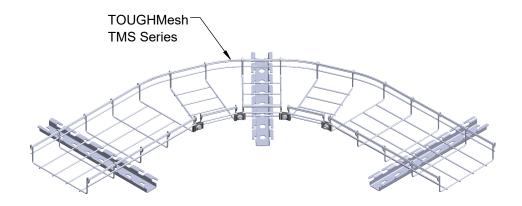


TOUGHMesh Fitting

STEP 3:Provide support on each side within 2ft from the splice location per NEMA VE-2.



PLAN VIEW



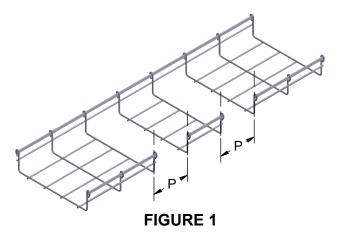
ISO VIEW



TOUGHMesh Fitting

STEP 1:

Smoothly cut the horizontal threads of the base leaving only the side thread on one side as shown in the Figure 1. Cut the required "P" segments as indicated in the splice chart table.



SPLICE CHART (UL Classified)				
TRAY WIDTH (in)	WASHER SPLICE KIT QTY	NO. OF SEGMENTS TO BE REMOVED		
2	1	1		
4	2	2		
6	3	3		
8	4	4		
10	5	5		
12	6	6		
16	7	7		
20	9	9		
24	11	11		
28	13	13		

STEP 2:

Force must be applied to make a bend in such a way that the "P" points are joined. Use washer splice kit to connect each segment, see chart for the no. of accessories. See Fig. 3 for the correct way to install the washer splice kit.

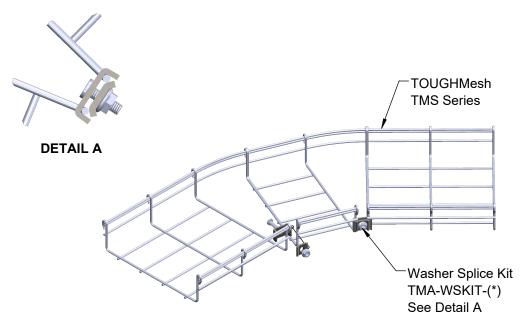


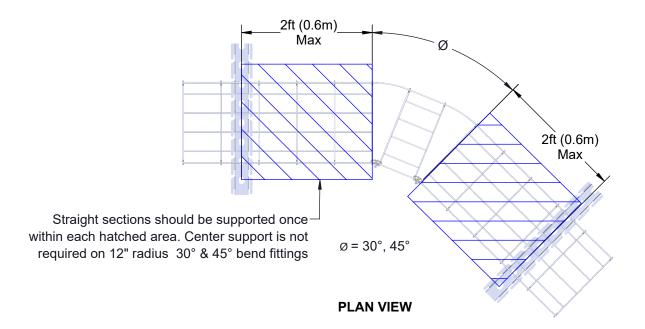
FIGURE 2



TOUGHMesh Fitting

STEP 3:

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



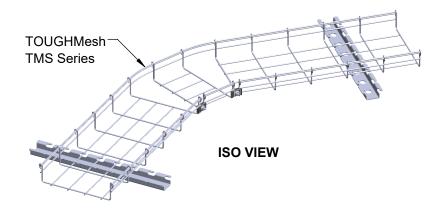


FIGURE 3

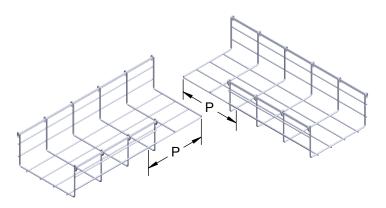


90° Horizontal Bend From Sraight Sections Installation

TOUGHMesh Fitting

STEP 1:

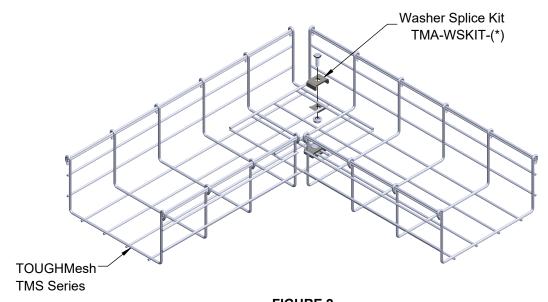
Smoothly cut the threads of one wire side section as shown in the figure, cut the required segments "P" as indicated in the table.



SPLICE CHART				
TRAY WIDTH (in)	WASHER SPLICE KIT QTY	NO. OF SEGMENTS "P" TO BE REMOVED		
4	2	1		
6	2	2		
8	2	2		
12	2	3		
16	2	4		
20	2	5		
24	2	6		
28	2	7		

FIGURE 1

STEP 2:Position the two straight sections as shown in Figure 2, use the washer splice kits to fix the bottom wire sections.



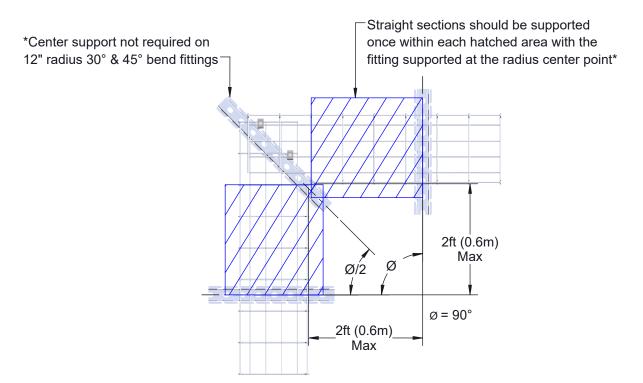


90° Horizontal Bend From Sraight Sections Installation

TOUGHMesh Fitting

STEP 3:

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



PLAN VIEW

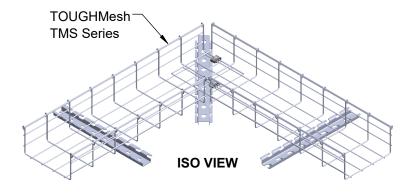


FIGURE 3



TRAPEZE HANGER SUPPORT

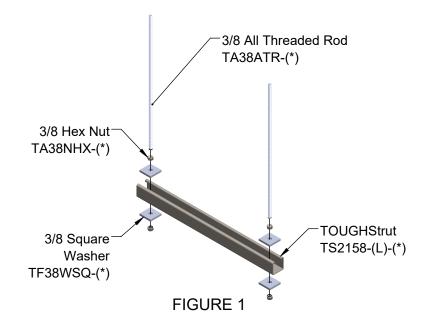
TOUGHMesh Accessories

STEP 1:

Determine the required length of the TOUGHStrut channel based on the width of the TOUGHMesh tray to be supported (See Table 1). Once identified, align the TOUGHStrut Channel, Hex Nut, Square Washer and Threaded Rod as shown in Figure 1.

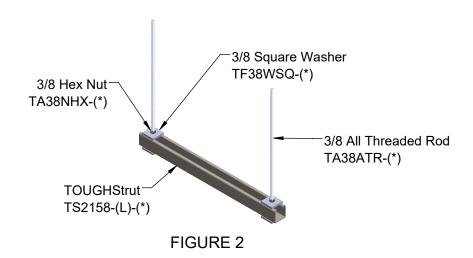
TABLE 1				
TOUGMesh P/N	TOUGMesh WIDTH (in)	TOUGHStrut P/N	TOUGHStrut LENGTH (in)	
TMS-(H)X2X10-(*)	2	TS2158-08-(*)	8	
TMS-(H)X4X10-(*)	4	TS2158-10-(*)	10	
TMS-(H)X6X10-(*)	6	TS2158-12-(*)	12	
TMS-(H)X8X10-(*)	8	TS2158-14-(*)	14	
TMS-(H)X10X10-(*)	10	TS2158-16-(*)	16	
TMS-(H)X12X10-(*)	12	TS2158-18-(*)	18	
TMS-(H)X16X10-(*)	16	TS2158-22-(*)	22	
TMS-(H)X18X10-(*)	18	TS2158-24-(*)	24	
TMS-(H)X20X10-(*)	20	TS2158-26-(*)	26	
TMS-(H)X24X10-(*)	24	TS2158-28-(*)	28	

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



STEP 2:

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



^{(*) -} Insert Material/Finish



TRAPEZE HANGER SUPPORT

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.

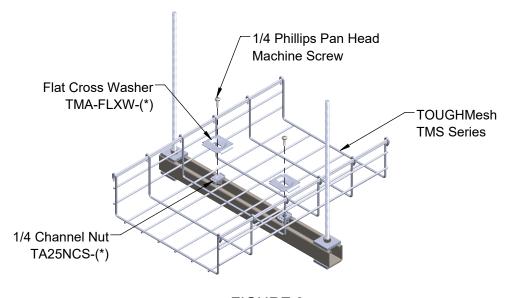


FIGURE 3

STEP 4:

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

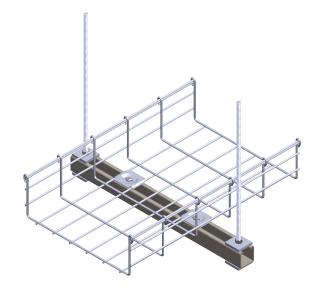


FIGURE 4



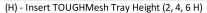
FLOOR MOUNTED SUPPORT

TOUGHMesh Accessories

STEP 1:

Identify the required length of the TOUGHStrut channel (See Table 1) based on the width of the cable tray to be supported and install as shown below using 3/8 anchor.

TABLE 1				
TOUGMesh P/N	TOUGMesh WIDTH (in)	TOUGHStrut P/N	TOUGHStrut LENGTH (in)	
TMS-(H)X2X10-(*)	2	TS2158-08-(*)	8	
TMS-(H)X4X10-(*)	4	TS2158-10-(*)	10	
TMS-(H)X6X10-(*)	6	TS2158-12-(*)	12	
TMS-(H)X8X10-(*)	8	TS2158-14-(*)	14	
TMS-(H)X10X10-(*)	10	TS2158-16-(*)	16	
TMS-(H)X12X10-(*)	12	TS2158-18-(*)	18	
TMS-(H)X16X10-(*)	16	TS2158-22-(*)	22	
TMS-(H)X18X10-(*)	18	TS2158-24-(*)	24	
TMS-(H)X20X10-(*)	20	TS2158-26-(*)	26	
TMS-(H)X24X10-(*)	24	TS2158-28-(*)	28	



^{(*) -} Insert Material/Finish

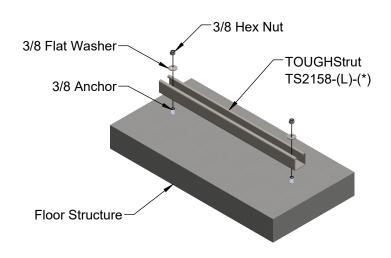


FIGURE 1

STEP 2:

Torque anchor nuts to 19ft-lbs.

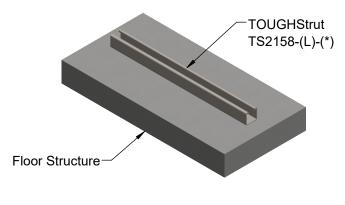


FIGURE 2

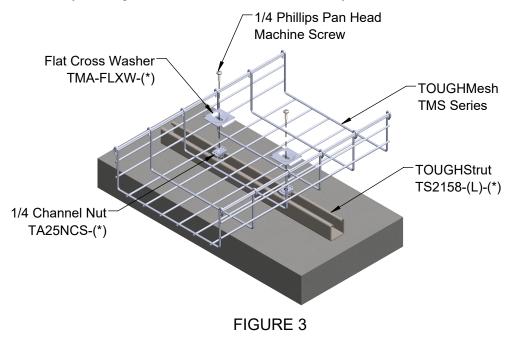


FLOOR MOUNTED SUPPORT

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.

