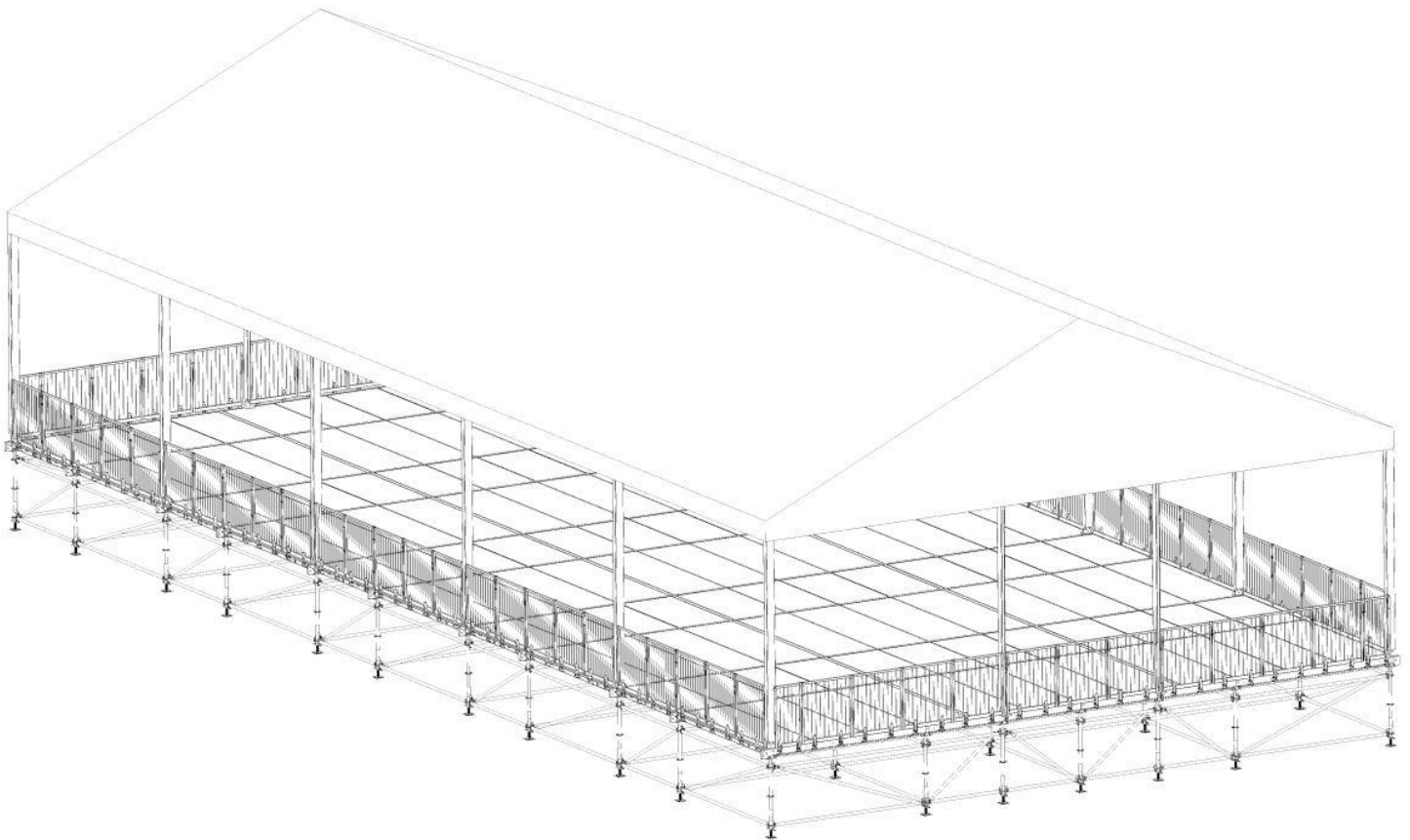


BILJAX

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TF-2100

Tent Flooring System

ASSEMBLY INSTRUCTIONS

ALL DRAWINGS ARE FOR ILLUSTRATION ONLY

Assembly Instructions Include:

Step 1: Site Preparation

Step 2: Jack Assembly

Step 3: Connecting the Starter Columns

Step 4: Connecting the Vertical Columns

Step 5: Vertical Diagonals

Step 6: Attaching Beams

Step 7: Tie Down Brackets

Step 8: Connecting the Deck

Step 9: Side-Rail Installation

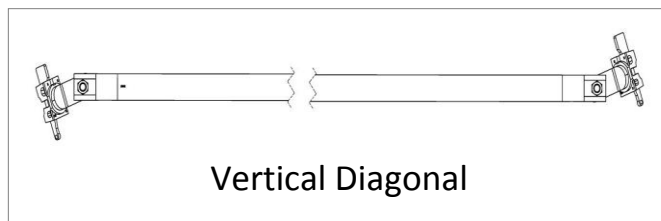
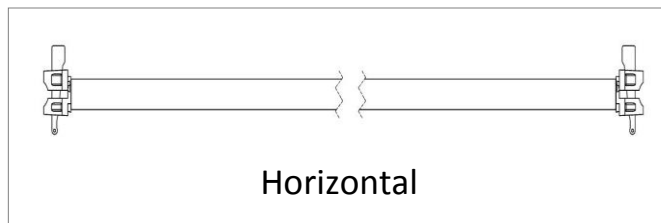
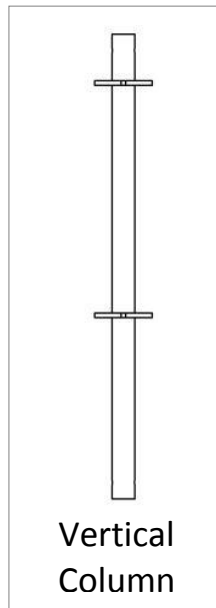
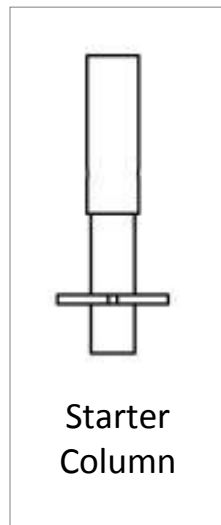
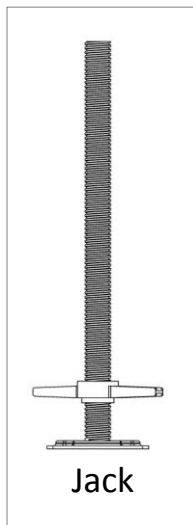
Step 10: Upright Connectors

Step 11: Guardrail Installation

Step 12: Attaching the Stairway

Step 13: Attaching the Ramp

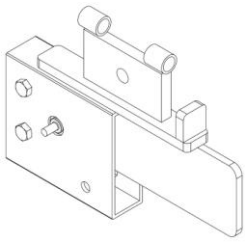
Components List



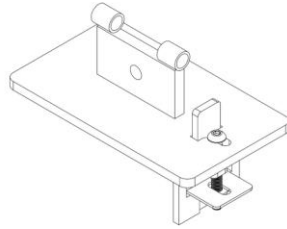
TF2100 Understructure

Part Number	Description
Jack	
0032-0609	Jack
Starter Column	
0256-01-100	Starter
Vertical Column	
0256-19-105	1/2 M
0256-19-110	1 M
0256-19-115	1-1/2 M
0256-19-120	2 M
0256-19-125	2-1/2 M
0256-19-130	3 M
Horizontals	
0256-02-401000	1 M
0256-02-401500	1-1/2 M
0256-02-402000	2 M
0256-02-402500	2-1/2 M
0256-02-403000	3 M
Vertical Diagonals	
0256-11-101005	1 M x 1/2M
0256-11-101010	1 M x 1 M
0256-11-101015	1 M x 1-1/2M
0256-11-101020	1 M x 2 M
0256-11-101505	1-1/2 M x 1/2M
0256-11-101510	1-1/2 M x 1 M
0256-11-101515	1-1/2 M x 1-1/2M
0256-11-101520	1-1/2 M x 2 M
0256-11-102005	2 M x 1/2M
0256-11-102010	2 M x 1 M
0256-11-102015	2 M x 1-1/2M
0256-11-102020	2 M x 2 M
0256-11-102505	2-1/2 M x 1/2M
0256-11-102510	2-1/2 M x 1 M
0256-11-102515	2-1/2 M x 1-1/2M
0256-11-102520	2-1/2 M x 2 M
0256-11-103005	3 M x 1/2M
0256-11-103010	3 M x 1 M
0256-11-103015	3 M x 1-1/2M
0256-11-103020	3 M x 2 M

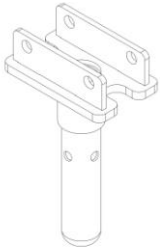
Components List, continued



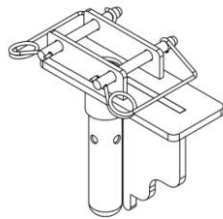
Upright Connector



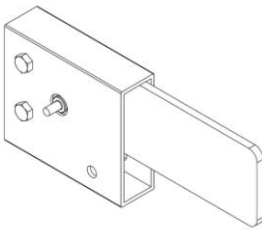
Gable End Upright Connector



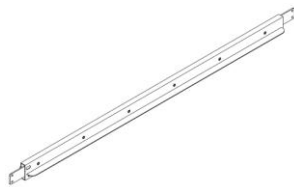
Saddle



Saddle



Beam Filler



Universal Beam

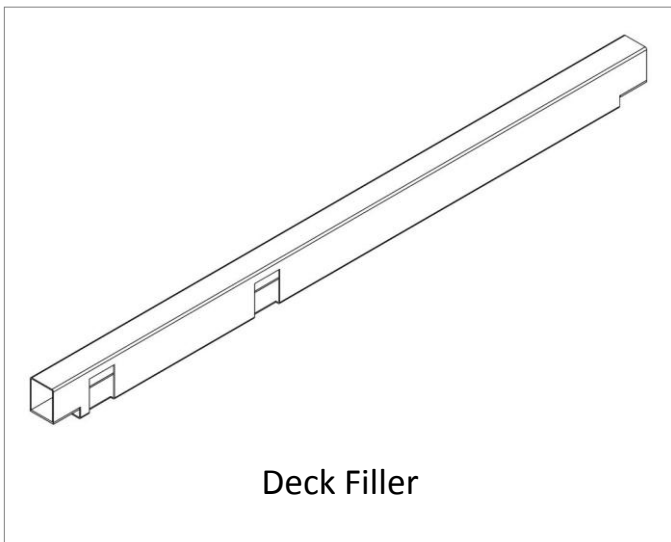


Side Rail

Parts For TF2100

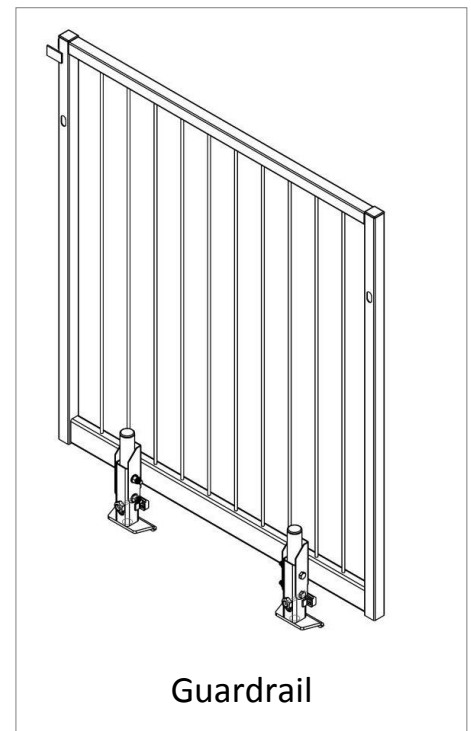
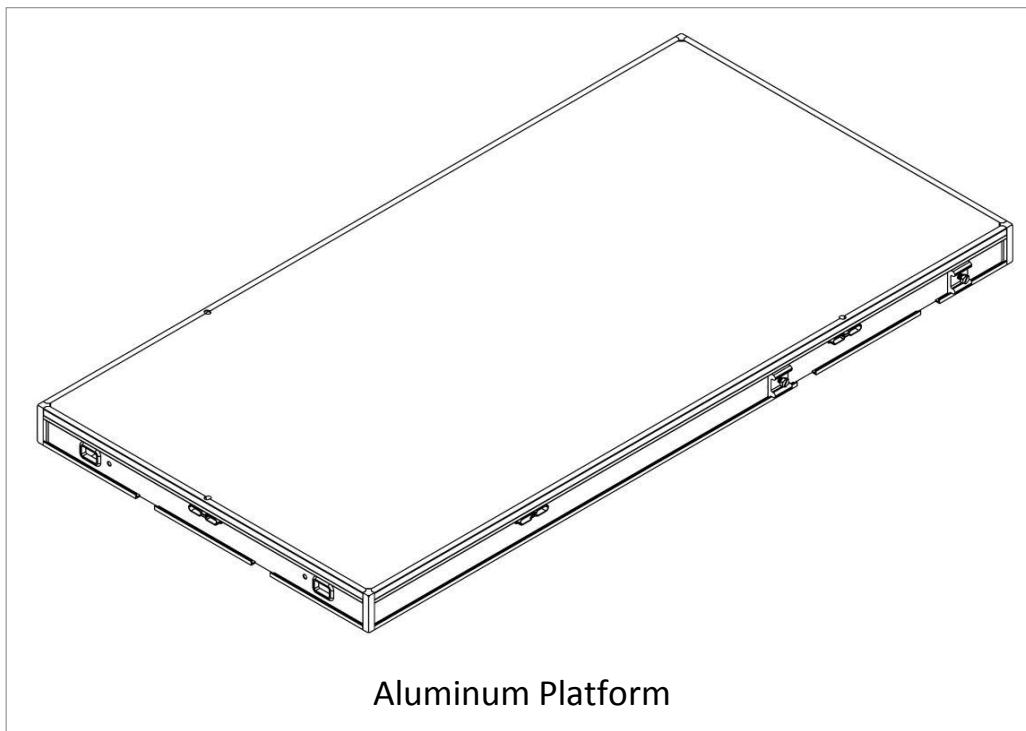
Part Number		Description
Upright Connector		
Non-Glass	Glass	
		Anchor-PZ
	0109-01-003	Anchor-Venue
	0109-01-004	Anchor-Event
		Losberger – EasyFlex – P5N
	0109-01-016	Losberger – UniFlex – P3N
	0109-01-017	Losberger-MultiFlex
0109-01-020	0109-01-014	Losberger-MaxiFlex
Gable End Upright Connector		
Non-Glass	Glass	
		Anchor-PZ
	0109-01-002	Anchor-Venue
		Anchor-Event
		Losberger-EasyFlex
		Losberger-UniFlex
		Losberger-MultiFlex
		Losberger-MaxiFlex
Beam Filler		
		Anchor-PZ
0109-01-006		Anchor-Venue
0109-01-005		Anchor-Event
		Losberger-EasyFlex
0109-01-018		Losberger-UniFlex
0109-01-022		Losberger-MultiFlex
0109-01-021		Losberger-MaxiFlex
Saddle		
0109-01-001		Saddle Insert
0109-01-019		Losberger Outside Saddle
0109-01-007		Base Plate With Saddle
0109-01-008		6" Riser and Saddle
0109-01-013		10" Riser and Saddle
0109-01-011		Adjustable Saddle
0109-01-015		Adjustable Saddle and Starter
Universal Beams		
0109-10-101000		1M Beam
0109-10-102000		2M Beam
0109-10-102500		2.5M Beam
0109-10-103000		3M Beam
0109-10A-101000		1M Beam- No Holes
0109-10A-102000		2M Beam- No Holes
0109-10A-102500		2.5M Beam- No Holes
0109-10A-103000		3M Beam- No Holes
Side Rail		
0109-03-101000-6		1M Side Rail
0109-03-102000-6		2M Side Rail
0109-03-102500-6		2.5M Side Rail
0109-03-103000-6		3M Side Rail

Components List, continued



Parts For TF2100

Part Number	Description
Deck Filler	
0109-04-102000	2M Filler
0109-04-102500	2.5M Filler
0109-04-103000	3M Filler
Guardrail	
0109-05-1010BK	1M Black Guardrail
0109-05-1005BK	.5M Black Guardrail
Aluminum Platform	
0109-500-100200-6	1M x 2M Stained Wood
0109-500-100250-6	1M x 2.5M Stained Wood
0109-500-100300-6	1M x 3M Stained Wood
0109-500-100200-7	1M x 2M Quadriple
	1M x 2.5M Quadriple
0109-500-100300-7	1M x 3M Quadriple
Side Extension Beam	
0109-02-1000	1M Side Extension



Step 1 Site Preparation

- A. Determine the exact location where the platform will be erected.
- B. Planning the base of the structure is very important. The Gable Side (width) will be determined by the size of the tent opening, and the Side (length) will be at least the length of the tent. The base can be assembled in a variety of options depending on the size of the tent being used:

- **Gable Side**

It is recommended to use as many 3-meter bays as possible and, if needed, the last bay will be either 1-meter or 2-meters depending on the width of the tent (see chart). See the Gable Side example in Fig. 1.1.

- **Length Side**

It is necessary to build the length in 5-meter segments. These can be made in two different ways: Alternating 2-meter and 3-meter bays (see Side on Fig. 1.1) or by using two 2.5-meter bays (see Fig 1.2).

- C. Depending on the tent being used, additional Verticals must be placed along the Gable side where gable upright supports are located. When a Gable Upright falls where a vertical is not present, an intermediary vertical will need to be added in the center of the bay, supporting the upright. See figure 1.3 for details

Number of Beams Needed for Each Tent Size							
Gable Width (M)	3x5 Meter Setup			OR	5x5 Meter Setup		
	3M Beams	2M Beams	1M Beams		2.5M Beams	2M Beams	1M Beams
6	2	0	0	OR	2	0	1
9	3	0	0		2	2	0
10	3	0	1		4	0	0
12	4	0	0		4	1	0
15	5	0	0		6	0	0
18	6	0	0		6	1	1
20	6	1	0		8	0	0
25	8	0	1		10	0	0
30	10	0	0		12	0	0

Use the above graph when planning the base of the structure to determine which option is best for you.

Fig 1.1

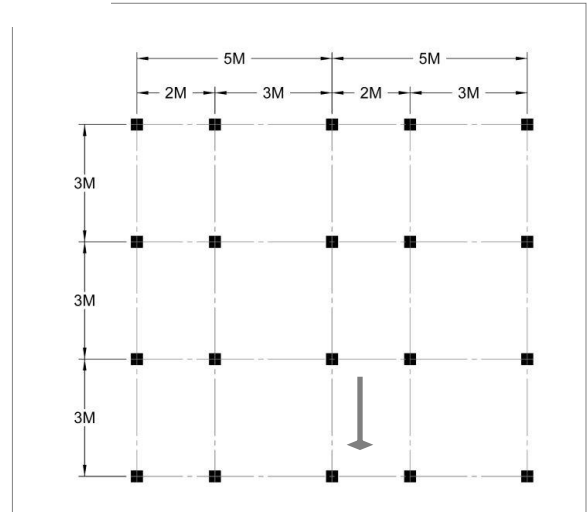


Fig 1.2

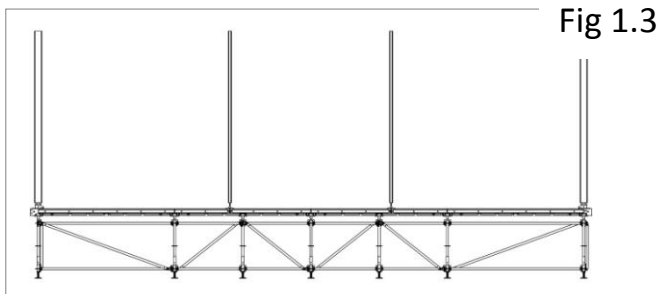
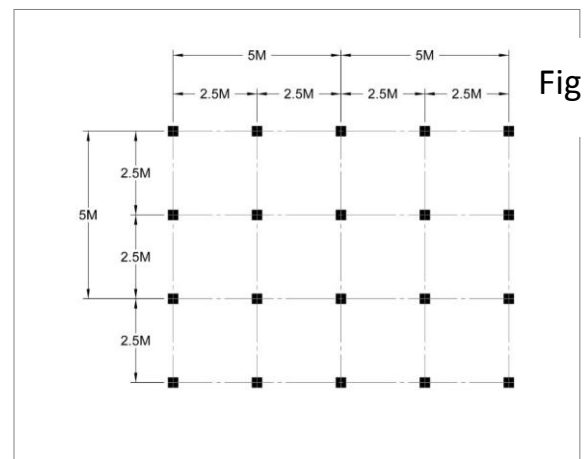


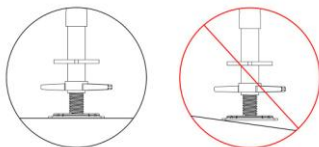
Fig 1.3

Step 2

Jack Assembly

A. Place the Jacks in the corners of every bay in respect to the assembly option being used.

- All Jacks should be placed only on horizontal and level surfaces.



- Additional footing support may be required to distribute the weight under each Jack, preventing the legs from sinking and providing a level area. A local *"qualified person"* should determine the exact type of support needed (*i.e. A person who, by possession of a recognizable degree or certificate of professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated the ability to solve problems related to the subject matter and work*). Always comply with local ordinances.

B. Set the Jack screws to an equal height by turning to raise or lower the Jack, if the assembly area is on uneven ground.



Warning

The Jack should never exceed 12 inches. See Fig 2.1.

Multiple Jack options are available to reach a large range of platform heights.

C. Insert the Starter Column into each Jack. See Figure 2.2 for detail.

Fig 2.1

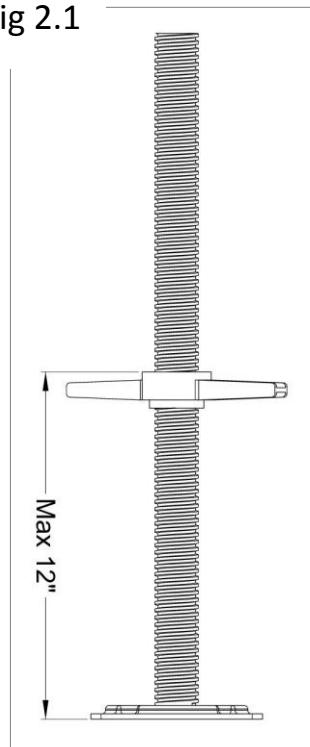
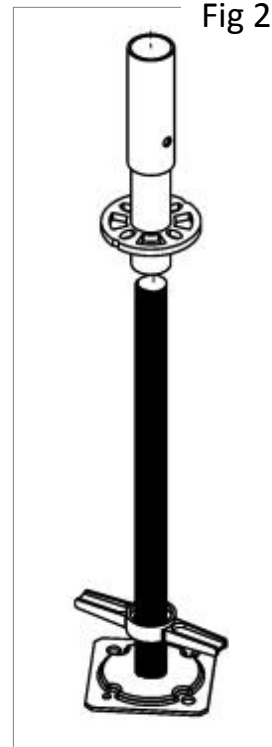
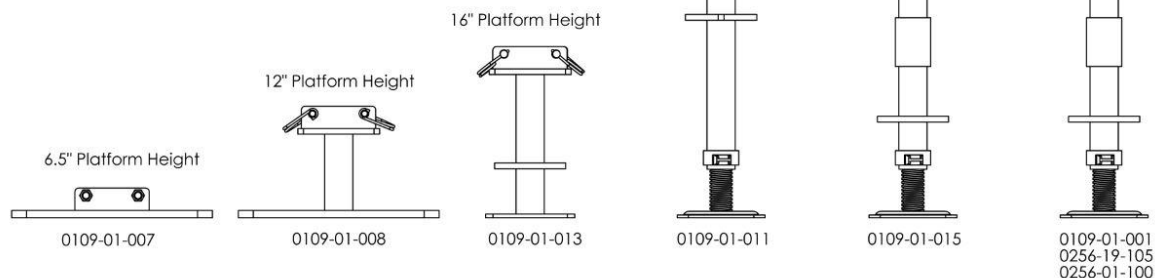


Fig 2.2



Stage Height	Vertical Height
37" - 49"	.5M
57" - 69"	1M
76" - 88"	1.5M
96" - 108"	2M
116" - 128"	2.5M
136" - 148"	3M
Add 19.7" For Every Half Meter Vertical	



Step 3

Connecting the Starter Columns

A. Insert the wedge of each Horizontal Bar into the Connector Ring of each Starter Column by sliding the end of the bar into place over the ring and hammering the wedge firmly into place (see Fig 3.1) on the narrow opening of the ring (see Fig 3.2).

B. Begin connecting the Horizontals in one corner of the structure, creating a four-sided bay. Then expand on this bay along the gable side, then along the length until the entire structure is connected. See figure 3.3

❖ When completing each bay, be sure the following conditions have been met:

- All corners are at 90° angles. Measure the distances diagonally between the corners of each bay to confirm. The two measurements should be equal.
- All Horizontals are level. Adjust the Jacks if necessary. See figure 3.4.

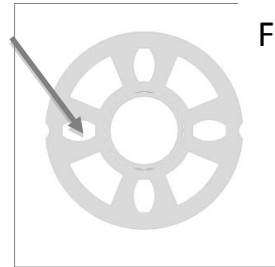


Fig 3.2

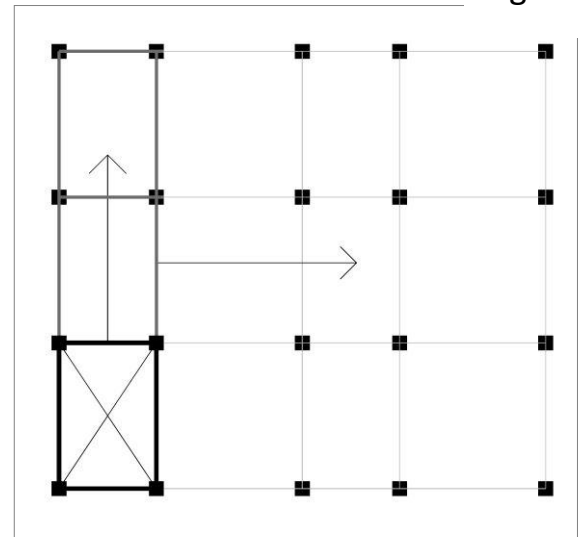


Fig 3.3

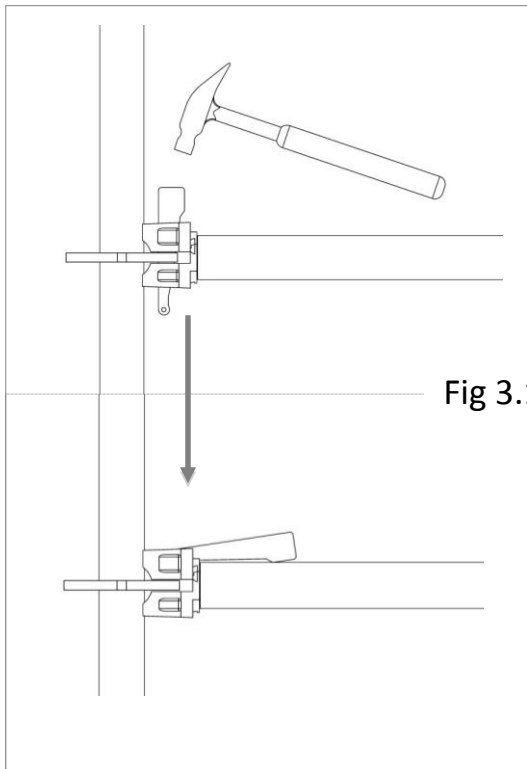
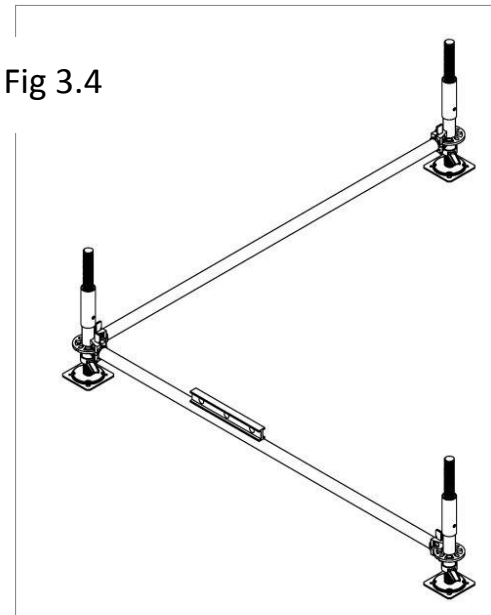


Fig 3.1

Fig 3.4



Step 4

Connecting the Vertical Columns

- A. Insert the Vertical Column into each Starter Column.

Note: The Connector Rings on the Vertical Column are set at $\frac{1}{2}$ meter and 1 meter above the bottom ring (see figure 4.1 for detail). Horizontals must be connected to the bottom and top Connector Ring, as well as at least every 1-meter interval in between.

- B. Insert the wedge of the Horizontal into the desired Connector Ring of each Vertical Column in the same way as illustrated in Step Three.

- C. If increased height is desired place the Insert on top of the existing Vertical Column, and add an additional Vertical Column above the insert. See figure 4.2.

- Secure in place with a nut and bolt or spring rivet through the designated holes.
- Horizontals will need to be added at least every 1-meter interval.

- D. Again, be sure that the structure is level and all corners are at 90° angles. See figure 4.3.

Fig 4.1

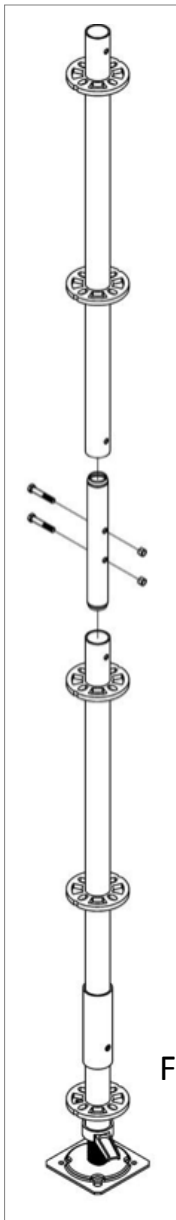
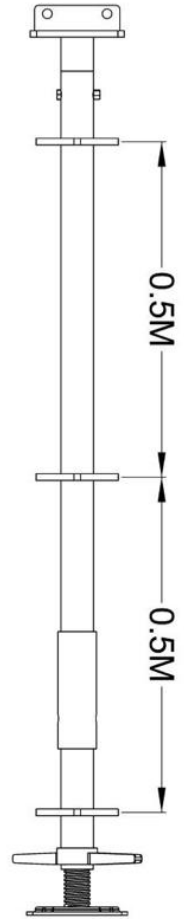


Fig 4.2

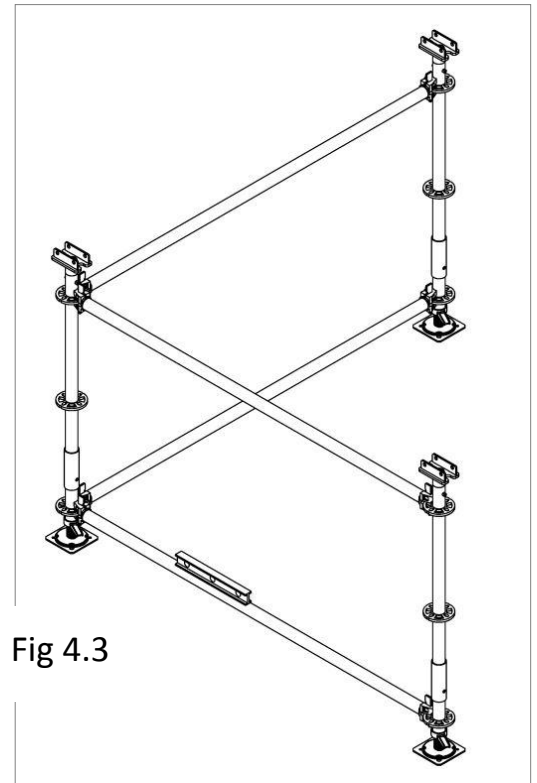


Fig 4.3

Step 5

Adding the Vertical Diagonals

A. On the corner Vertical Column, attach the top end of the Vertical Diagonal to the upper Connector Ring and the lower Connector ring of the adjacent column, hammering the wedges firmly into place.

- These wedges will be placed in the wide openings of the Connector Rings. See Figure 5.1.

B. Repeat the Vertical Diagonals on every other bay along the outside of the structure. See example in figure 5.2.

C. Repeat Vertical Diagonals on every two segments on the inside of the structure.

Note: The following areas *must* be braced with the Vertical Diagonals:

- Both sides of all four corners
- All areas where the tent uprights will be placed according to the tent being used.
 - On these areas Vertical Diagonals must be placed in each direction to the side and one going towards the inside of the structure. Must be connected to the top connector ring where the tent upright will be.
- See the example in Figure 5.3, where the dark lines represent Vertical Diagonal placement.

Fig 5.3

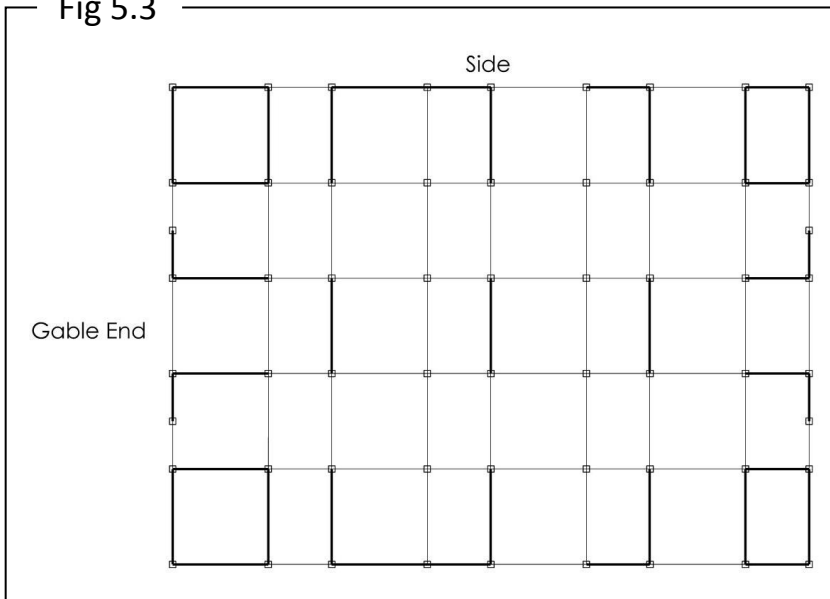


Fig 5.1

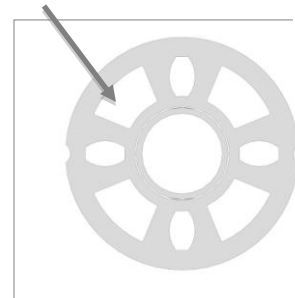
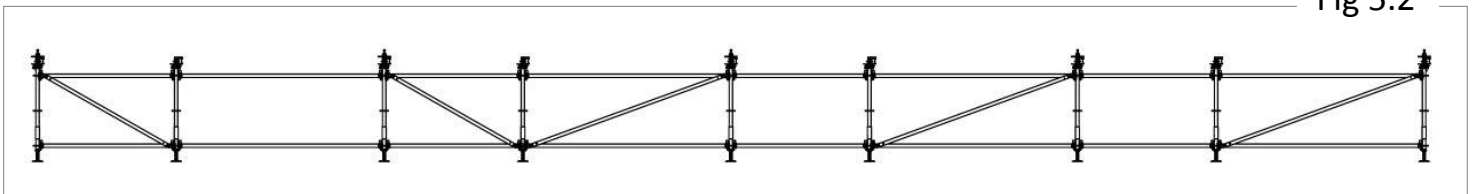


Fig 5.2



Step 6 Attaching the Beams

- A. Insert the Universal Saddle into the top of each Vertical Column so that they are parallel with the Gable Side of the structure.
 - Secure in place with a nut and bolt.
- B. Place the appropriate length Universal Beams on the saddles, and secure with pins. See figure 6.1.
- C. Attach the Upright Connectors to each Universal Saddle where the tent uprights will be, depending on the tent being used. Attach the Beam Fillers to the Universal Saddles in each column along the side of the structure on both ends, wherever the Upright Connectors are not needed. See figure 6.3 for example. Pin into place on the saddle, and secure the Universal Beam end with two bolts. See figure 6.2 for detail.
- D. Connect each of the Universal Beams together from one end of the structure to the other on each of the rows according to the assembly option being used.

Different Saddles may be required where upright supports are needed on certain tent models. Contact Biljax for support.

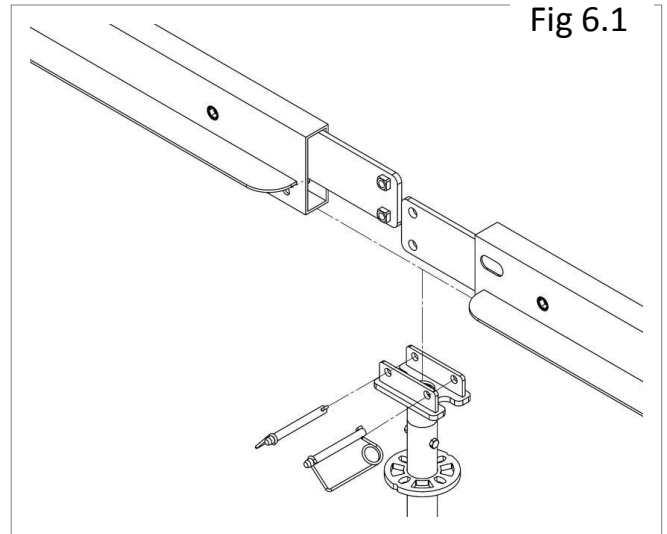


Fig 6.1

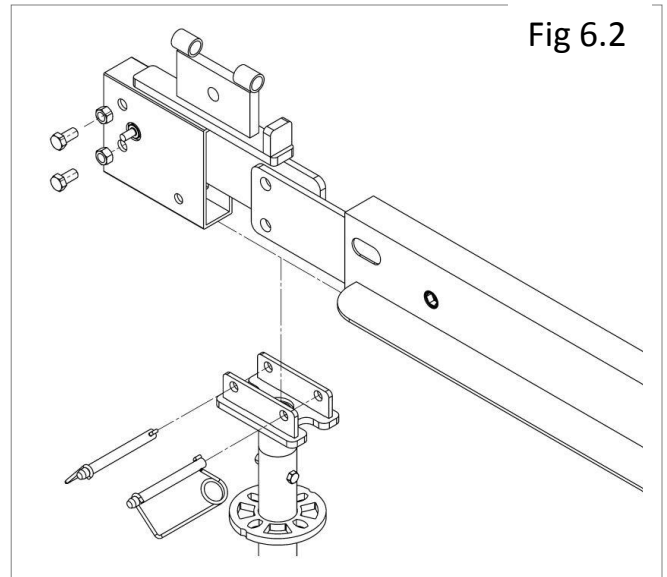
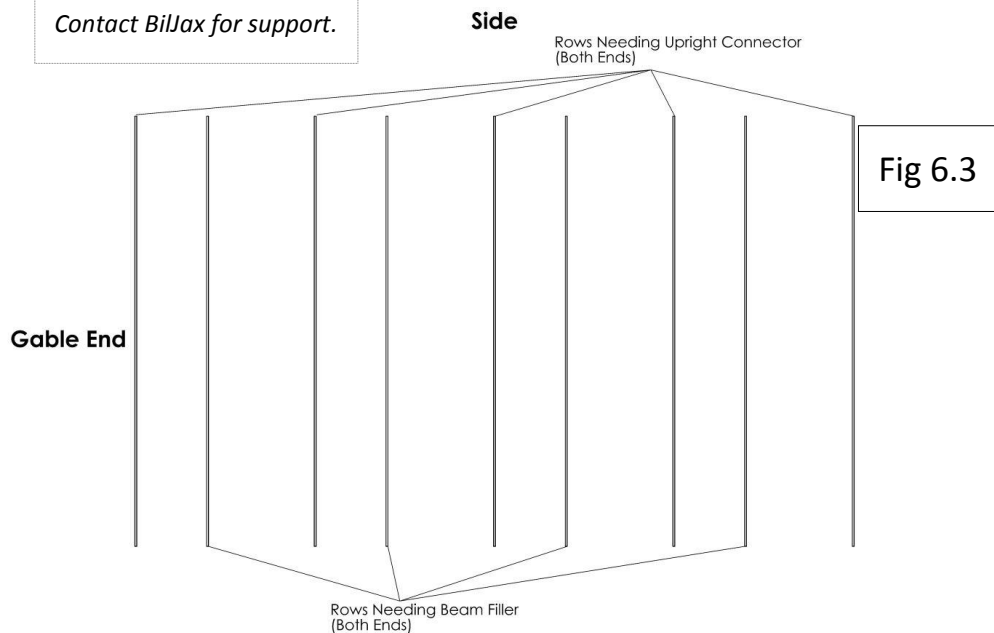


Fig 6.2



Step 7 Tie Down Brackets

- A. Connect the Tie Down Brackets to the underside of the Universal Beams wherever required as determined by the “qualified person”. Secure with a nut and bolt through the circular hole.
- The appropriate stakes and anchoring devices should be determined by the “qualified person”.

Note: Cable Tie Downs may be installed on any of the four reinforced holes on the underside of each Universal Beam.



Warning

The maximum working load is 10,000 lbs. total for each pair of Tie Down Brackets.

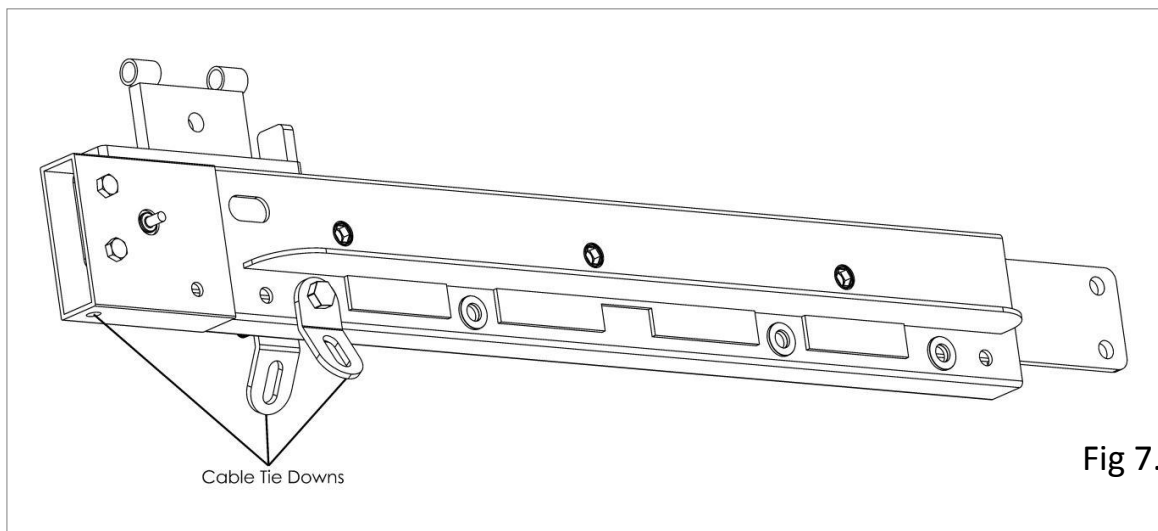


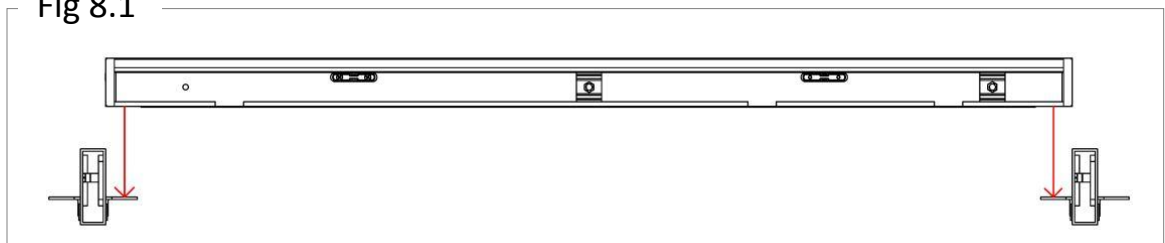
Fig 7.1

Step 8 Connecting the Deck

- A. Beginning at one end of the structure, place the Deck across the lip of the Universal Beam, and push it flush against the end of the structure. See Figure 8.1.

Note: The sizes of the Decking are 1x3M, 1x2M and 1x2.5M which should be used with respect to the size of the tent being used. There are also 3-inch Deck Fillers, which will be needed to complete the length of the structure.

Fig 8.1



Step 8 Connecting the Deck, continued

- B. Push another Deck tightly against the next, and lock them together by turning the Rotor Locks on the tops of each Deck. See Figure 8.2.
- D. On the underside of each connected Deck, pull down the spring mechanism and twist to secure it to the Universal Beam, as depicted in figure 8.3.
- C. Add the Deck Filler between Decks to even the length as necessary per the size of the tent being used.
- Whenever a Filler is used it must be between two Decks. See figure 8.4
 - The number of Fillers you will need is dependent on the size of the tent. More than one may be required.
 - These will also serve as an easy access point when disassembling, or when a specific Deck needs to be removed.

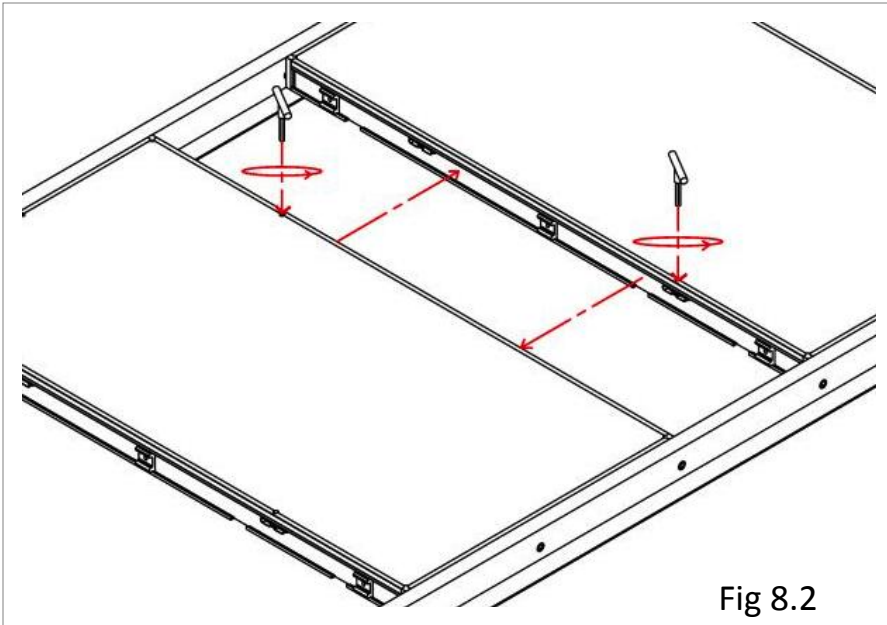


Fig 8.2

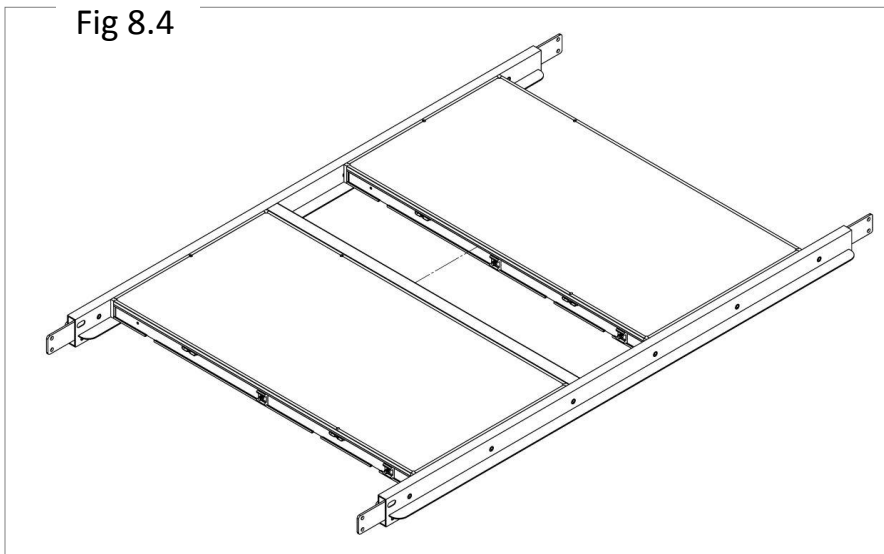


Fig 8.4

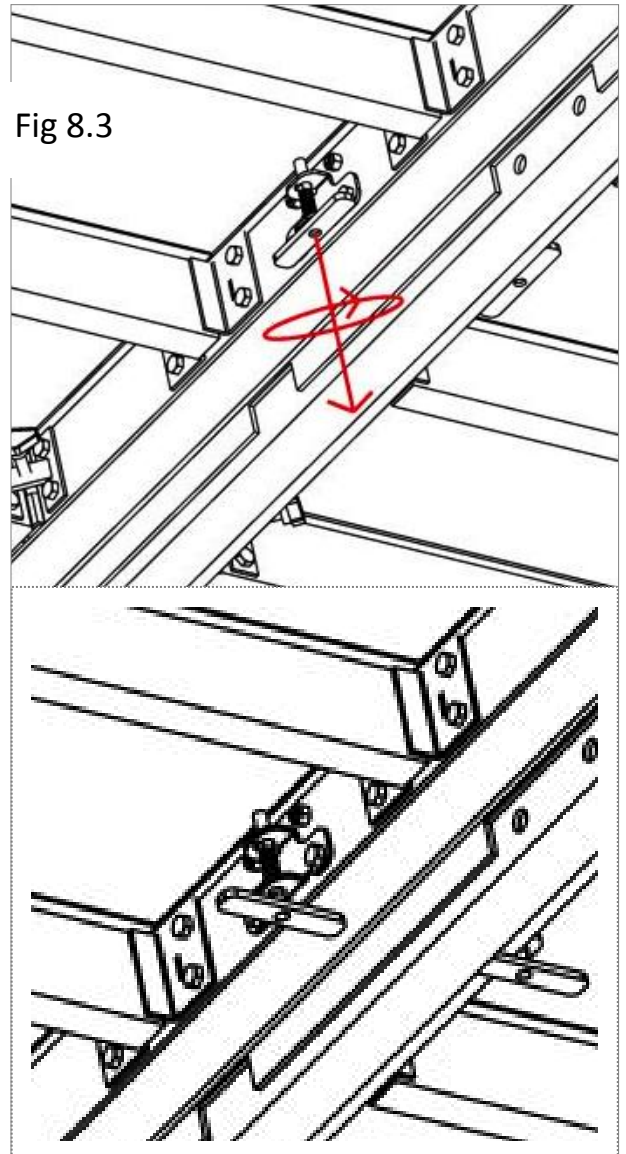
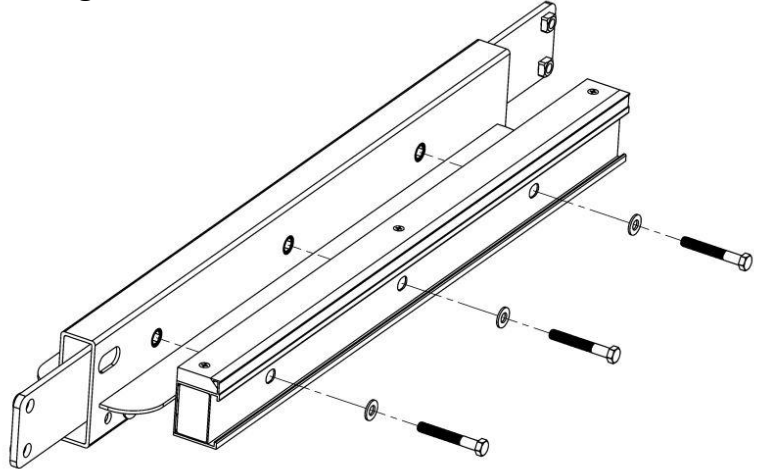


Fig 8.3

Step 9 Side Rail Installation

- A. Install the appropriate length Side Rail to each outer Universal Beam lip along the Gable Sides.
- Secure by bolting through the holes on the side of the Universal Beam. See figure 9.1

Fig 9.1



Step 10 Installing Gable Side Upright Connectors

- A. Attach the Upright Connectors along the gable side to the Universal Beam wherever an upright on the gable end will be.
- Secure to the Universal Beam by inserting the latch into the channel along the Side Rail, and screwing the bolt firmly into place. See figure 10.2 for detail.

Fig 10.1

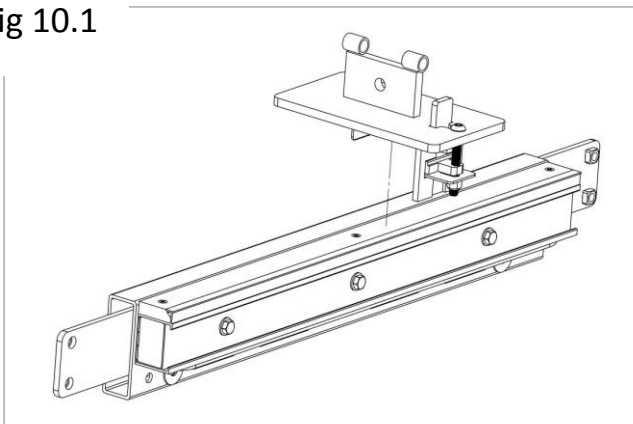
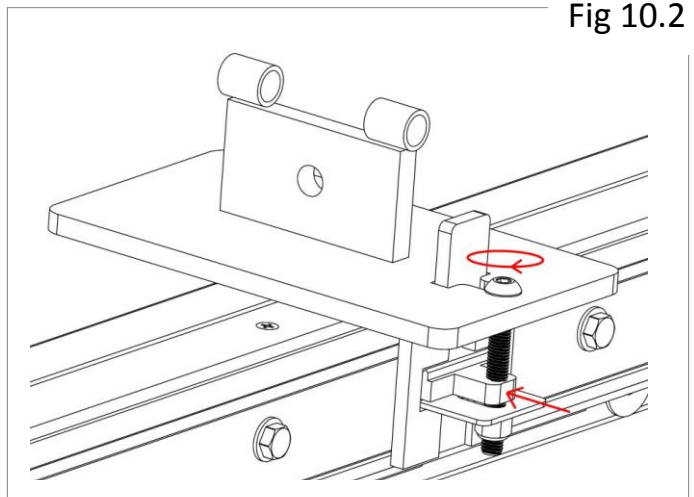


Fig 10.2



Step 11 Guardrail Installation

- A. Set the lower lip of the Guardrail inside the channel on the Side Rail on the Gable side, or any side of the Deck. See figure 11.1.
- B. Tilt the Guardrail up until the top lip is fully inserted into the channel. See figure 11.2.
- C. Tighten the Hex Nut on each Guardrail to secure in place.

Fig 11.1

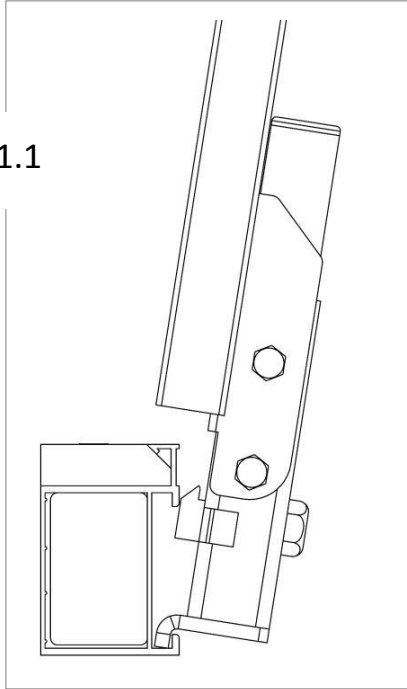


Fig 11.2

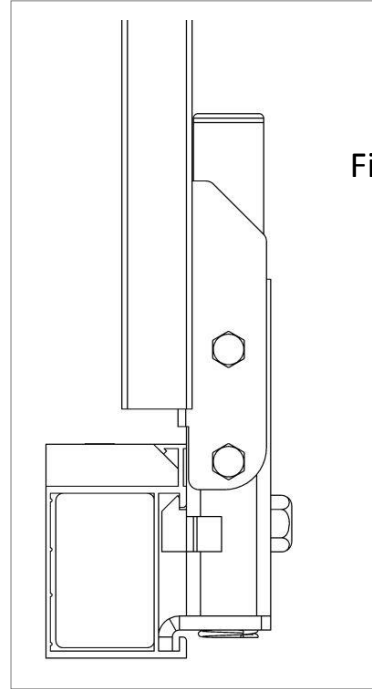
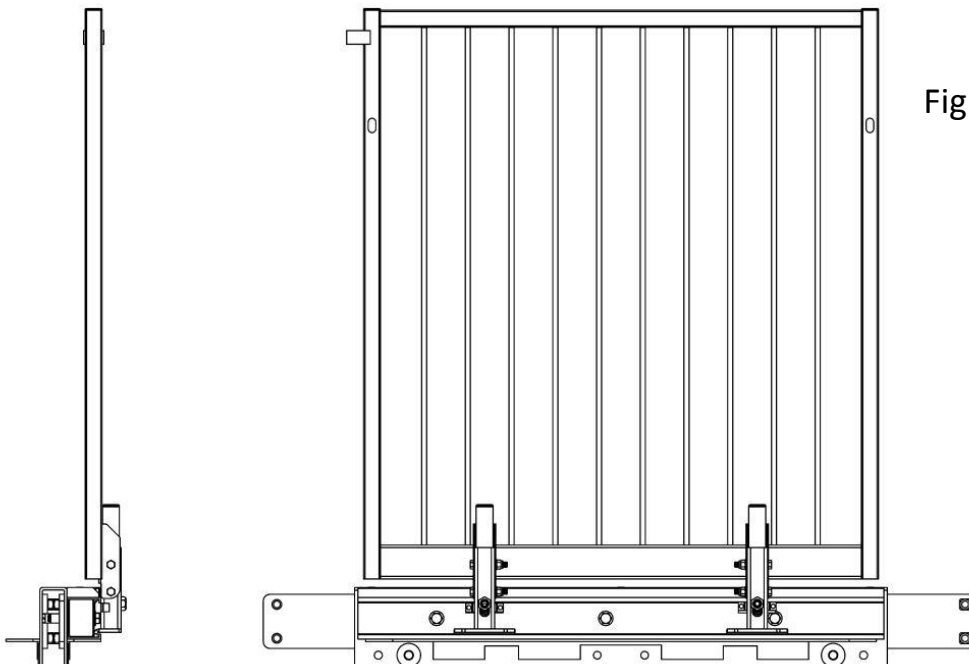


Fig 11.3



Step 12

Attaching the Stairway

- A. Each set of stairs requires a T-lock adapter to secure the staircase to the structure. Attach the T-lock adapter to the top end of the stair assembly using nuts and bolts.
- B. At the end of the T-lock adapter there is an upper and lower lip, which will be inserted into the channel along the perimeter of the platform. Insert the lower lip into the channel as shown in figure 12.1.
- C. Tilt the stair assembly upwards until the top lip is fully inserted into the channel, as in figure 12.2.
- D. While holding the lips in place within the channel, extend the stair section so that the opposite end is touching the ground. See figure 12.3.
- E. Tighten the top bolt using the T-shaped handle wrench as shown in figure 12.4, securing the stairs to the structure. Be sure that both lips are fully engaged in the Channel.

Fig 12.1

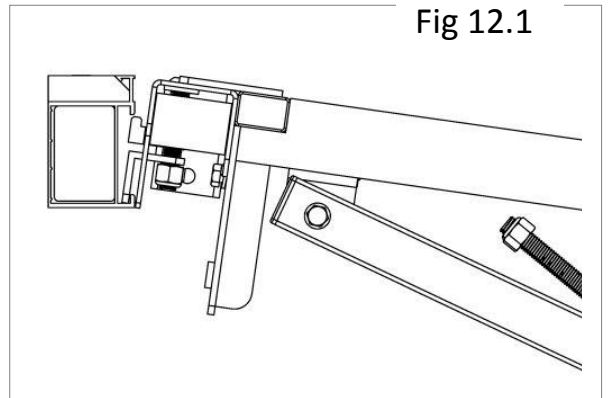


Fig 12.2

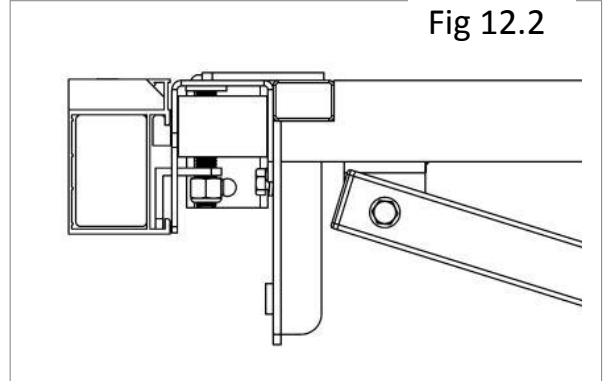


Fig 12.4

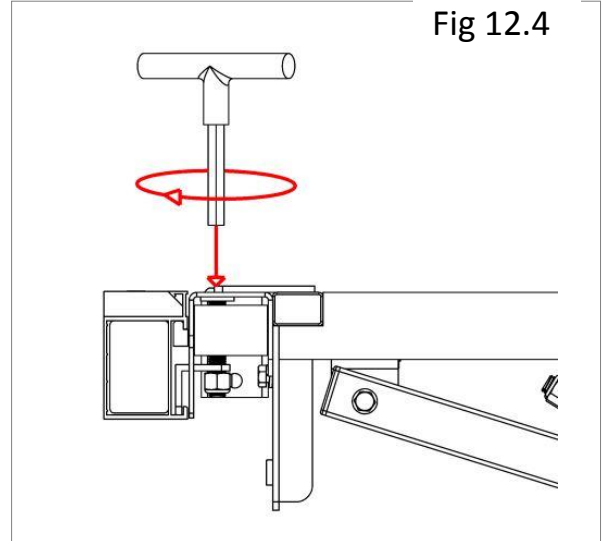
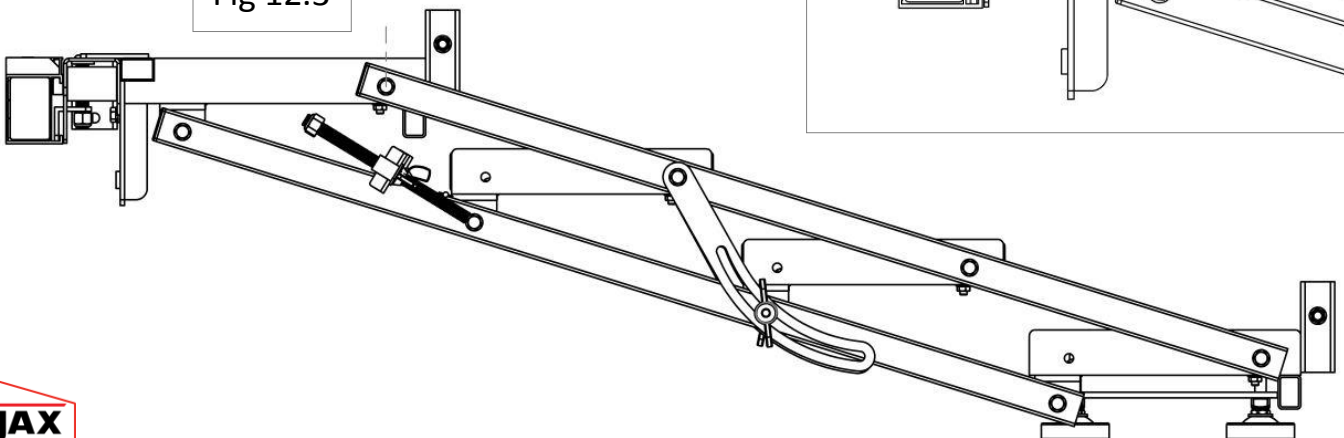


Fig 12.3



Step 12

Attaching the Stairway, continued

- F. Tighten the wing nut attached to the banana clip on each side of the stairs. See Fig 12.5.
- G. Move the secondary lock from the stowed position (Fig 12.6) to the engaged position (Fig 12.7) and secure by tightening the wing nut.
- H. Install handrails on both sides of the stairs by inserting the handrail panels into the designated sockets. Secure with snap pins or nuts and bolts.

When removing the stair section, loosen the secondary lock and return it to the stowed position, loosen the wing nut on the banana clip, loosen the top bolt with the T-shaped handle, lift the end out of the channel, and collapse the staircase for storage.

Fig 12.5

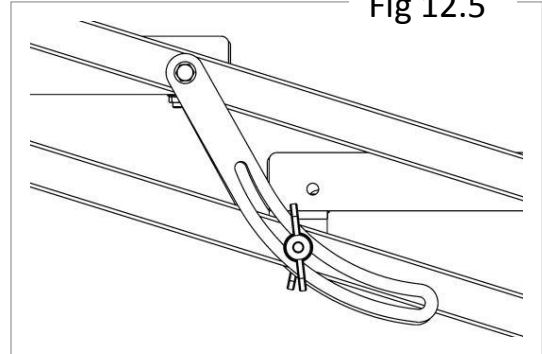


Fig 12.6

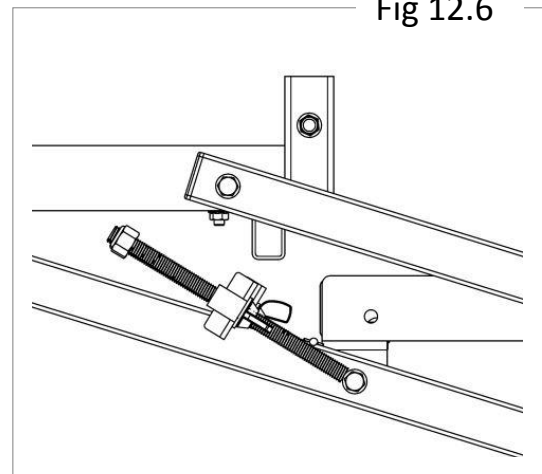
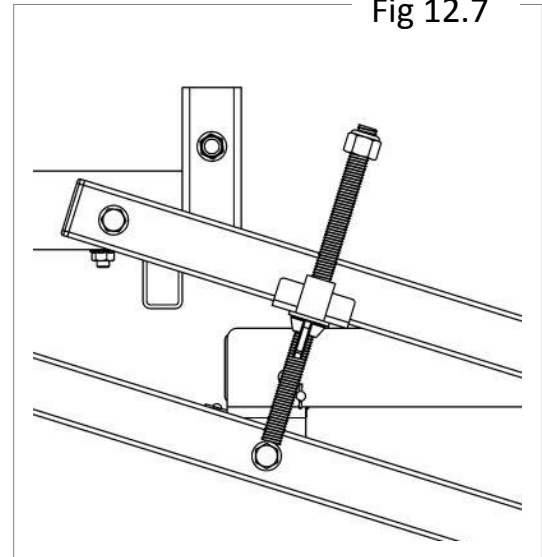


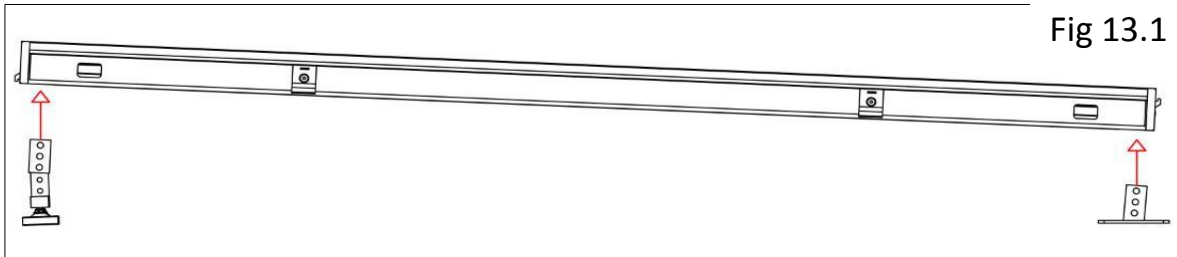
Fig 12.7



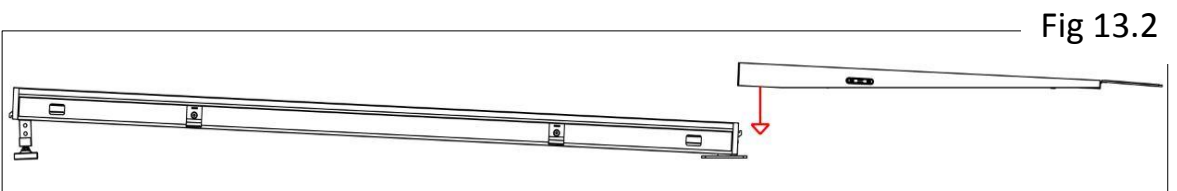
Step 13

Attaching the Ramp

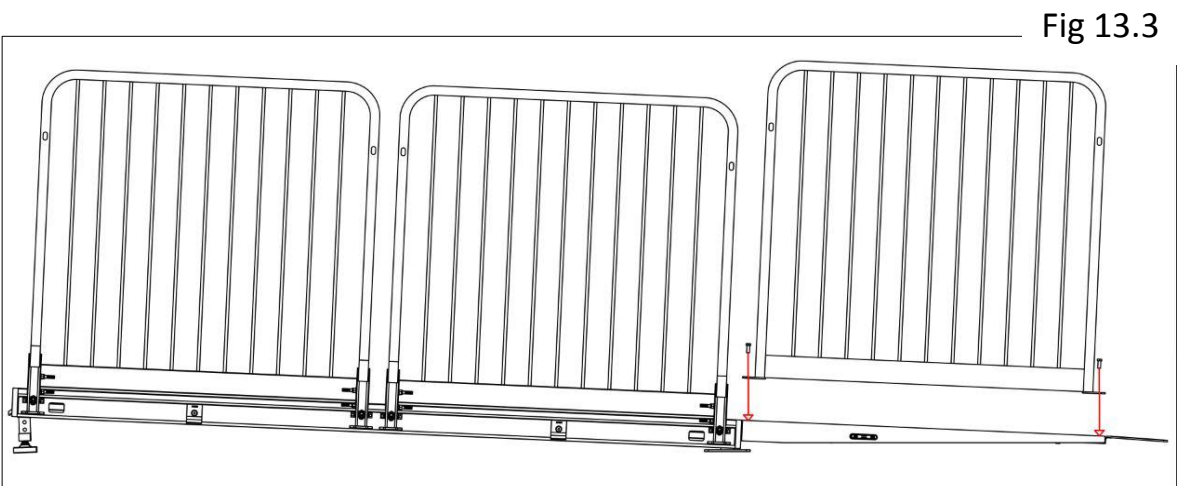
- A. Each ramp requires angled legs to achieve the correct slope. Attach the angled legs in the sockets of the ramp, as seen in figure 13.1.



- B. Add the ramp end by lowering it into place at the bottom of the angled stage, as seen in figure 13.2.



- C. Guardrails can be added to the sides of the ramp as seen in figure 13.3. For more detail see step 11, guardrail installation. The bottom Guardrails are attached with bolts.



Step 13

Attaching the Ramp, Continued

- D. Attached the middle handrails to all the guardrails except the top most ones, as seen in figure 13.4.

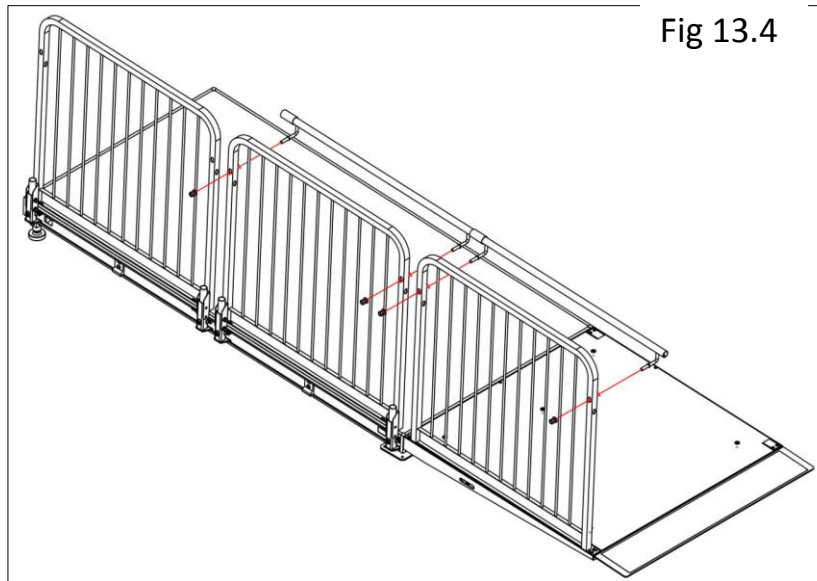


Fig 13.4

- E. Add the handrail ends to the top and bottom sections of the ramp, as seen in figure 13.5.

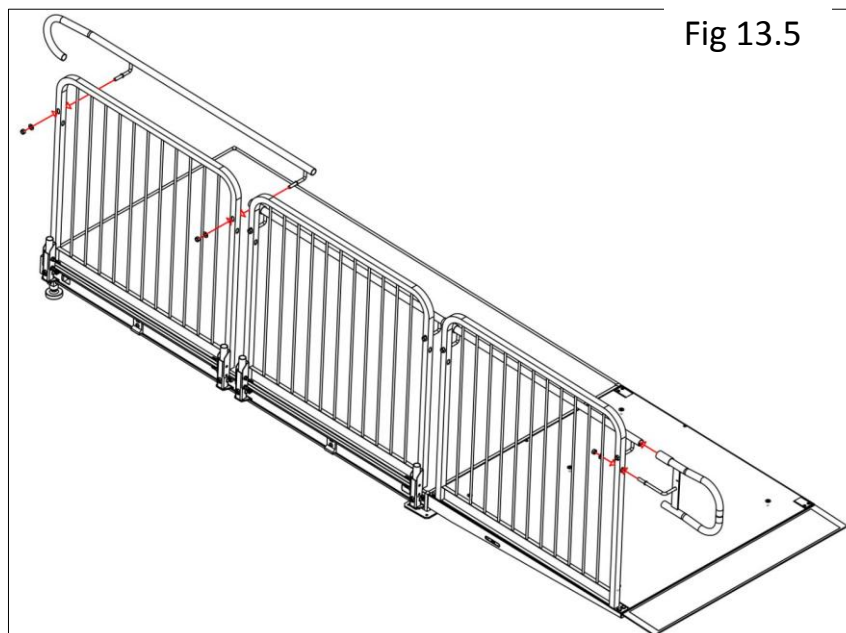
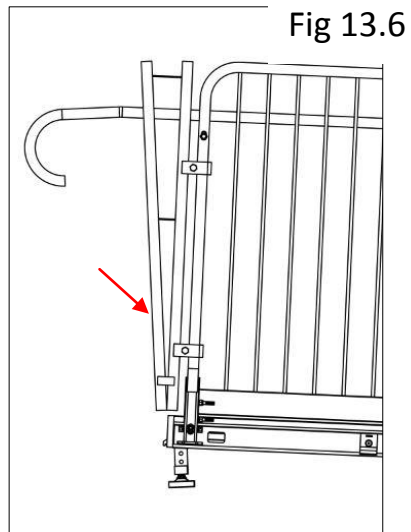


Fig 13.5

Step 13

Attaching the Ramp, Continued

- F. Attached the filler guardrail to take up any space remaining between the ramp guardrails and the platform guardrails, see figure 13.6.



- G. Insert the ramp filler plate in order to seamlessly bridge the ramp to the platform, as seen in figure 13.7.

