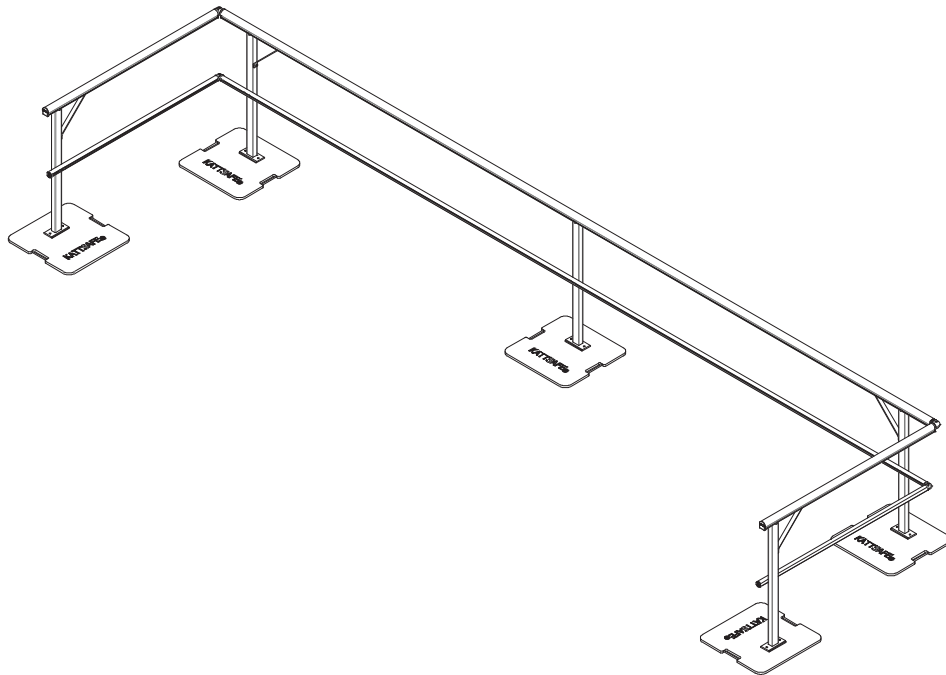


# INSTALLATION MANUAL

## KATTSAFE GR34 GUARDRAIL



## MUST READ PRIOR TO USE

1. Read installation and operation instructions carefully before commencing any work.
2. Conduct an initial work/risk assessment and take all reasonable precautions to eliminate or reduce potential hazards and risks during installation of this product.
3. Complete all necessary safety documentation, including a Job Safety Analysis and Work Method Statement and obtain consent from responsible person in workplace prior to commencement of work.
4. Installers must possess valid industry licenses, be appropriately trained and comply with all relevant OSHA legislation during installation of this product.
5. Ensure support structure to which unit is attached, will sustain necessary design loads. (Prior approval may be required from a qualified engineer unless it is clear to a competent person that the structure is adequate.)
6. Do not modify or remove any existing structural component or product without prior authorization by manufacturer or qualified engineer.
7. Any re-routing of electrical and/or other services must be carried out by qualified or authorized personnel.
8. Appropriate temporary access and safety equipment must be used during installation, such as platform ladders or scaffolding and fall protection anchorage points.
9. In case of emergency/rescue, unit must be installed by a minimum of two persons.
10. Weighted bases must be lifted by two people and the base handles provided must be used for lifting.
11. Bases should never be used for tie off purposes or in anyway different to their intended use.
12. Do not tamper with, modify or remove any part of unit unless authorized by responsible person.
13. Ensure unit is used by authorized and competent personnel only, trained in the safe use and maintenance of this product.

 Fixfast USA instructions and recommendations, drawings and diagrams, and all other documentation are copyright, errors and omissions excepted, and must be carefully read and implemented. Any assistance or guidance given is without prejudice, and Fixfast USA cannot be held responsible for any inaccuracy or misinterpretation whatever. Failure to follow site installation requirements and warnings, may result in serious injury or death. Fixfast USA accepts no direct or indirect responsibility and/or consequential liability whatever, for any products and systems incorrectly installed or certified. Fixfast USA cannot warrant the integrity or suitability of the structure to which the products may be attached. Prior assessment must be made by a qualified structural engineer, unless the structure is authorized or approved by a competent person.

## MUST READ PRIOR TO USE

- In order to maintain the product warranty, KATTSAFE Labels must be placed at points of access or in highly visible areas. There are 2 labels provided with every installation kit.

**KATT<sup>®</sup>**  
**SAFE**

**GUARDRAILS & WARNING LINES**

*OSHA compliant when installed per manufacturer installation instructions.*

[fixfastusa.com](http://fixfastusa.com)

⚠ Fixfast USA recommends that persons using access and fall arrest systems do not work alone in case of an emergency and help is required. Should any part of the system/equipment have been subjected to abnormal loading, use must be discontinued until replaced/re-certified by a competent height safety inspector.

## **Tools Required for GR34 Guardrail Installation**

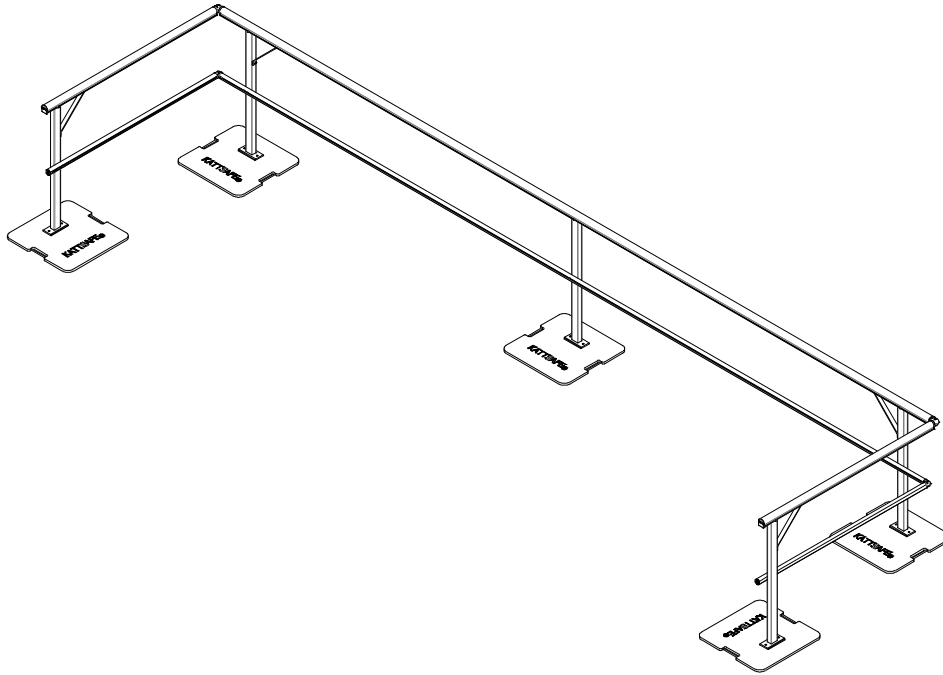
- Impact Drill
- 9/16” Ratchet and Socket
- 5/16” Driver (For Impact Drill)
- Circular Saw with Aluminum cutting Blade (Not a Diamond Blade)
- Tape Measure
- Sharpie
- Speed Square

## **KATTSafe GR34 Fixing Kit**

Please note that a ‘KATTSafe Fixing Kit’ is supplied with every guardrail system. This kit includes the following:

- 5/16” Nutsetter
- File
- GW386 Mid-Rail Installation Bracket Pair
- Base Handles
- Labels

## Design and Layout



*Standard layout shown with a 5' return kit.*

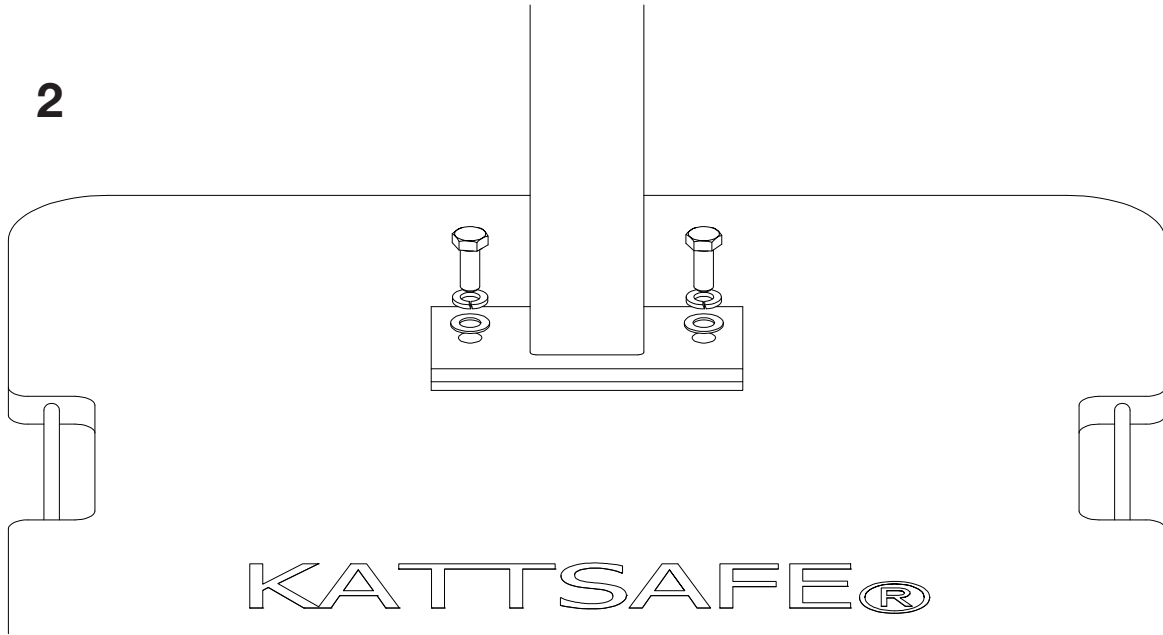
*Bases are placed at a maximum 10' distance apart.*

1



*Locate 1st base and place the next 10' apart. Place the post installation end towards the roof edge.  
Assign a post kit to each base.*

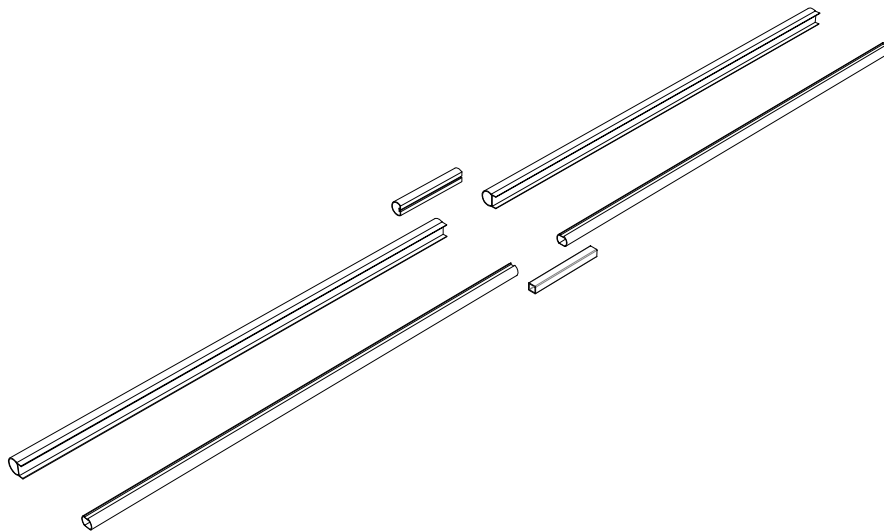
**2**



*Install post to the base using the bolts, lock washer and flat washer included in the post kit.*

*Repeat this step for the rest of the bases.*

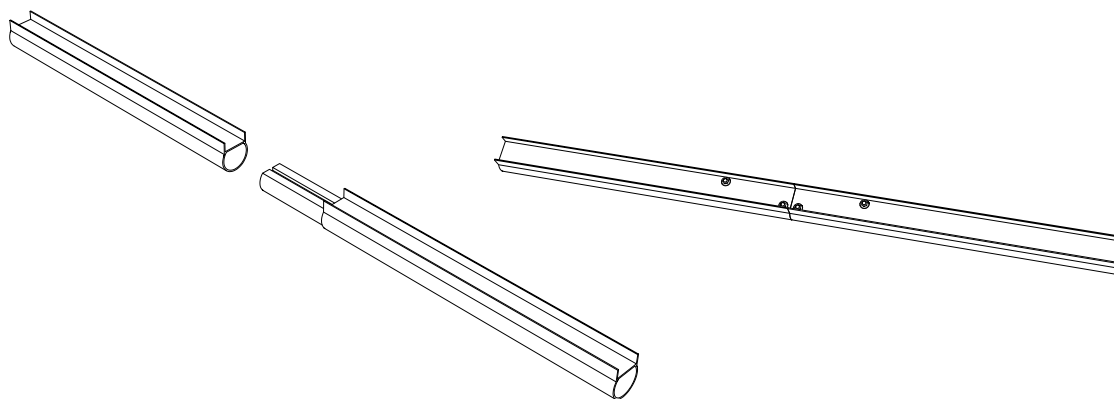
**3**



*Layout hand rail, knee rail and splice joints.*

*Leave an overhang on corner posts at a maximum of 12".*

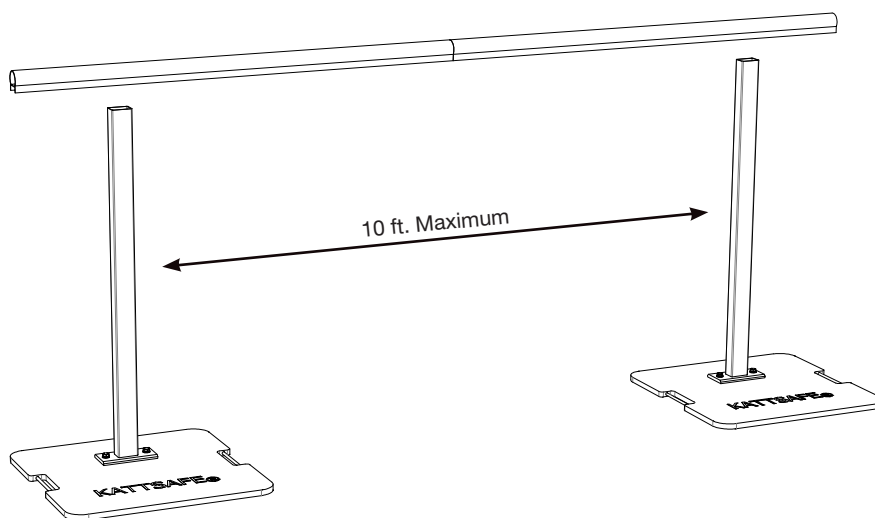
4



*Insert the splice joint halfway into the hand rail. Fasten the splice joint using 4 x 3/4" screws per splice.*

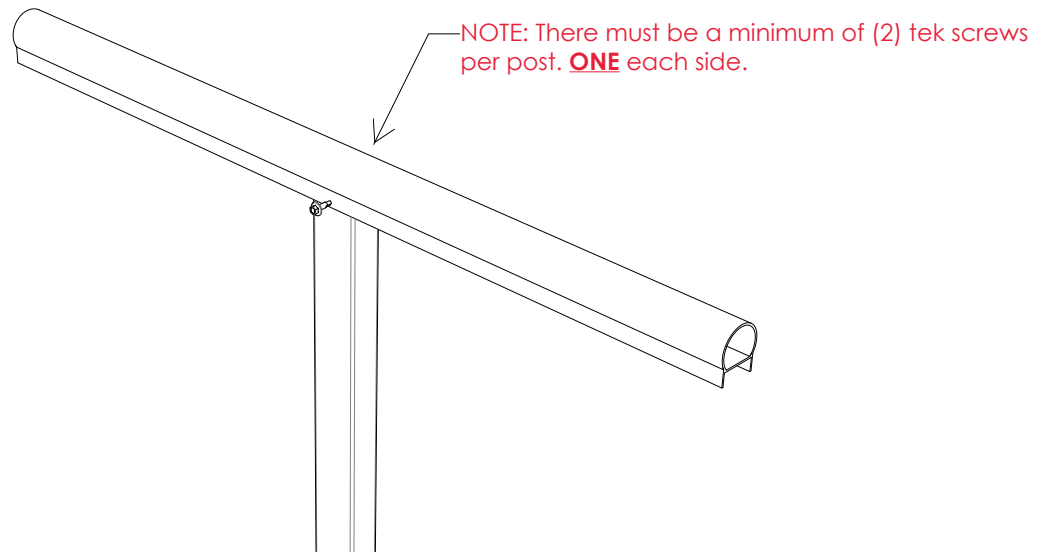
*Ensure that the hand rails are tight together before fastening the final two screws.*

5



*Place handrail on top of posts. Ensure that the splice joint is NOT directly over the post.*

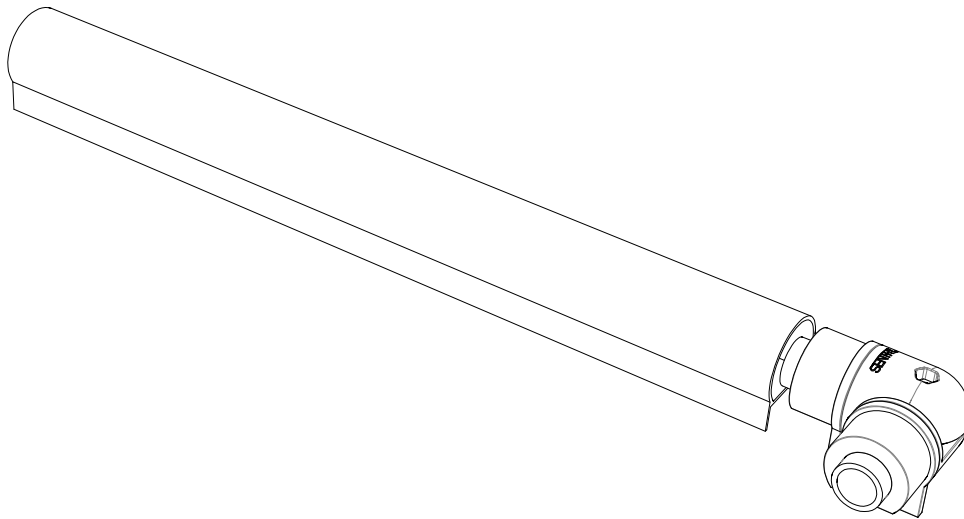
6



*Fasten hand rail to post with 2 x 3/4" screws. One screw on each side. Use the groove on the hand rail for screw placement.*

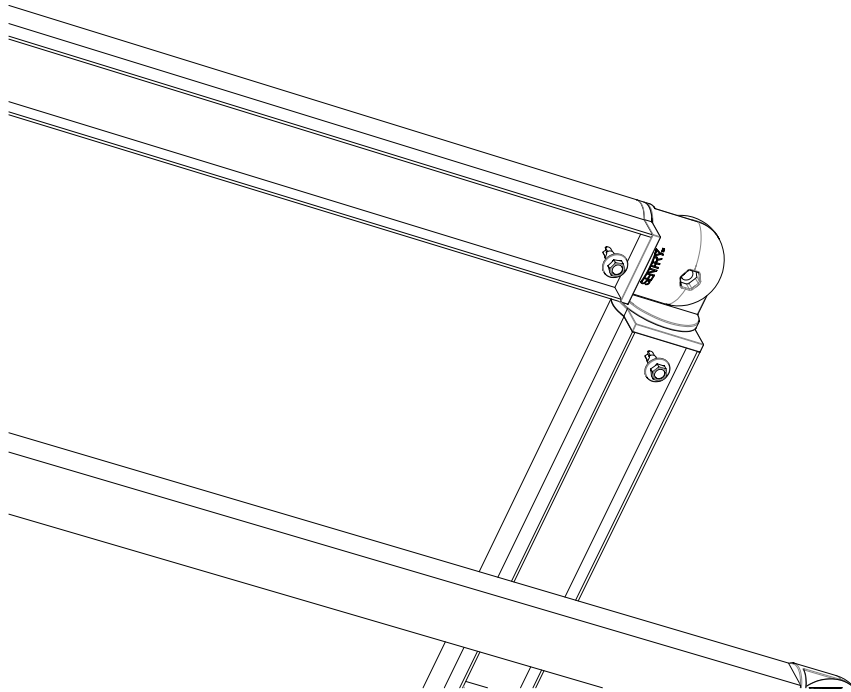
*Complete hand rail install including any returns.*

7



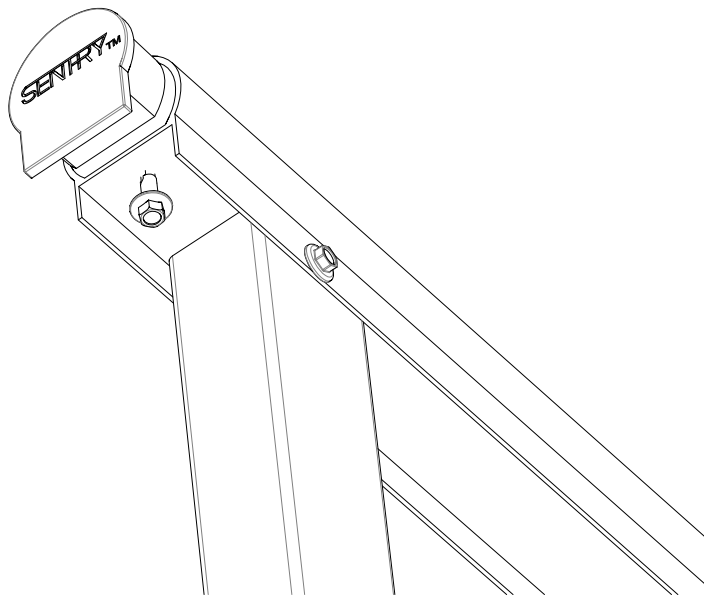
*Insert hand rail adjustable elbows and rotate to correct angle required.*

8



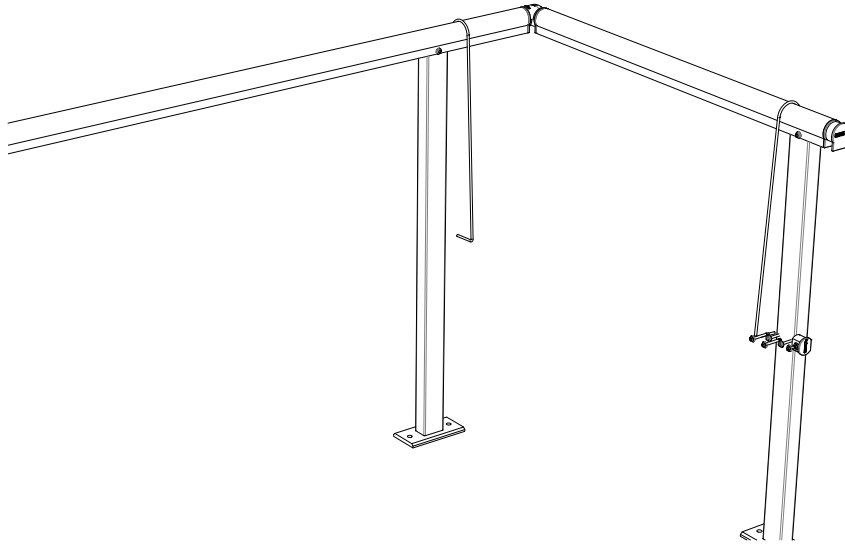
*Secure the adjustable elbows on the underside with 2 x 3/4" screws. One screw each side. Center screws on the underside of the handrail.*

9



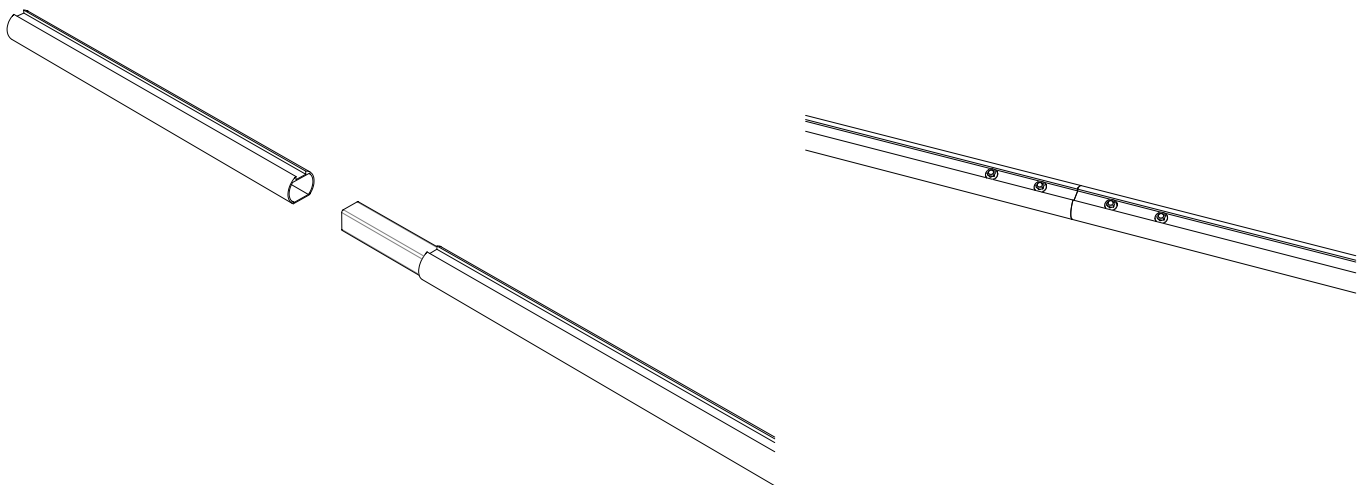
*Insert end caps and secure with 1 x 3/4" screw on the underside.*

10



*Use provided knee rail installation brackets to install the knee rails. This will ensure consistent spacing.*

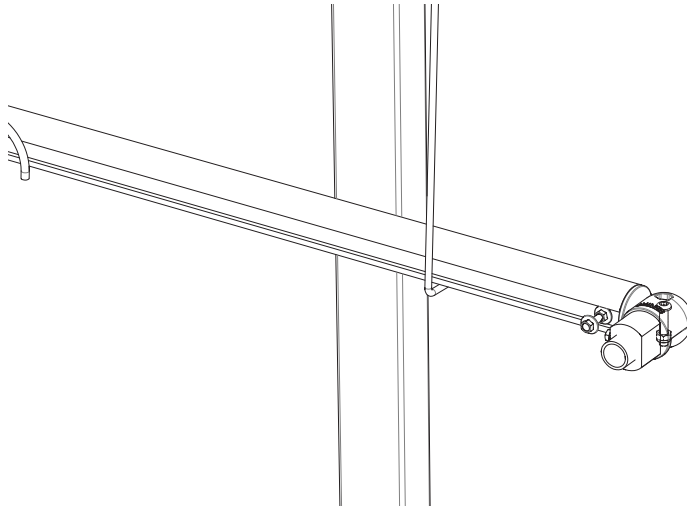
11



*Insert the splice joint halfway into the knee rail. Fasten the splice joint using 4 x 3/4" screws per splice.*

*Ensure that the knee rails are tight together before fastening the final two screws.*

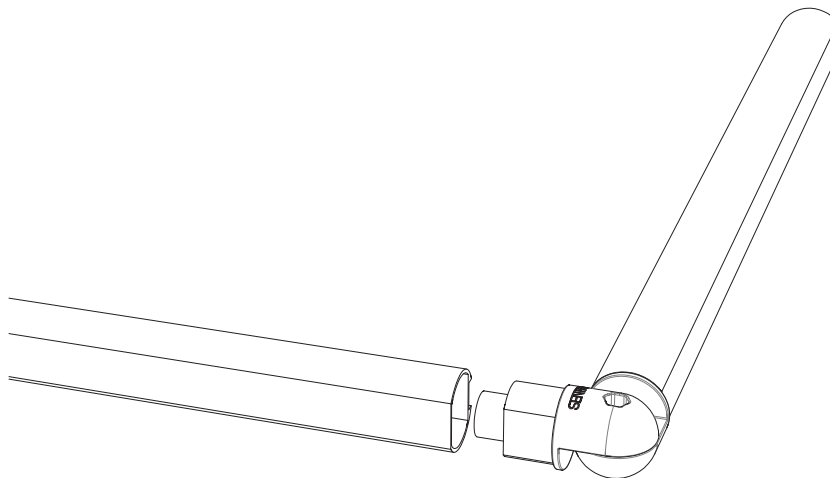
**12**



*Start knee rail installation from the return post to ensure proper alignment on corners.*

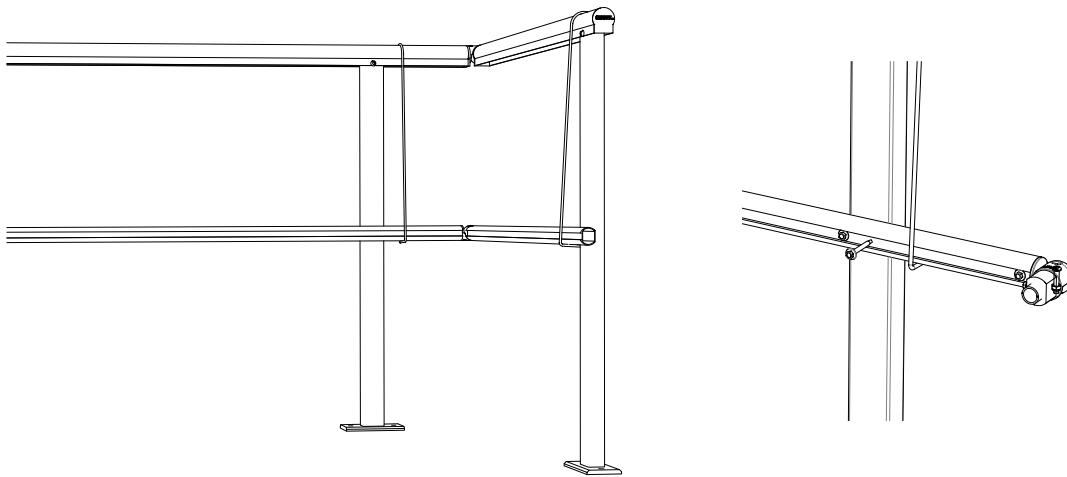
*Knee rail must be on the inside with flat end against post.*

**13**



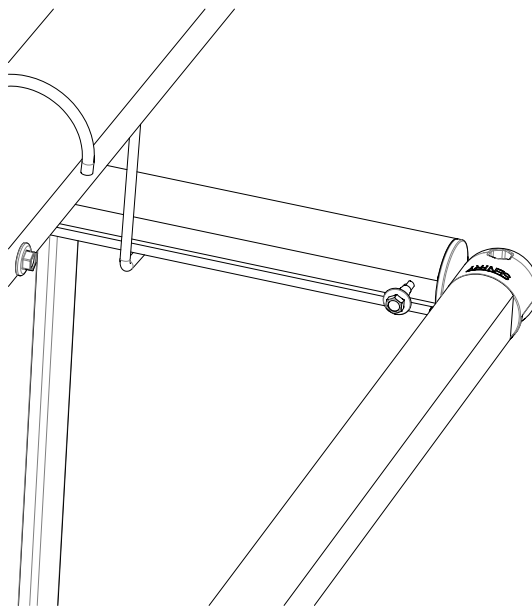
*Insert knee rail adjustable elbow and rotate to correct angle required.*

14



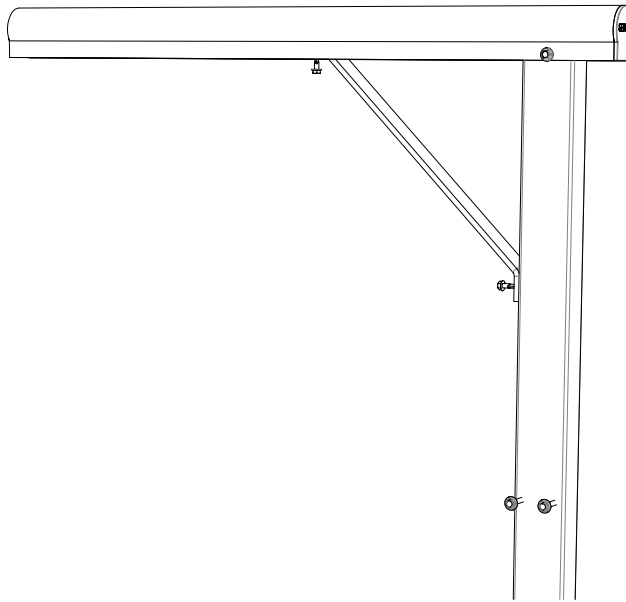
*Square up knee rail and then fasten to the posts with 2 x 2" screws.*

15



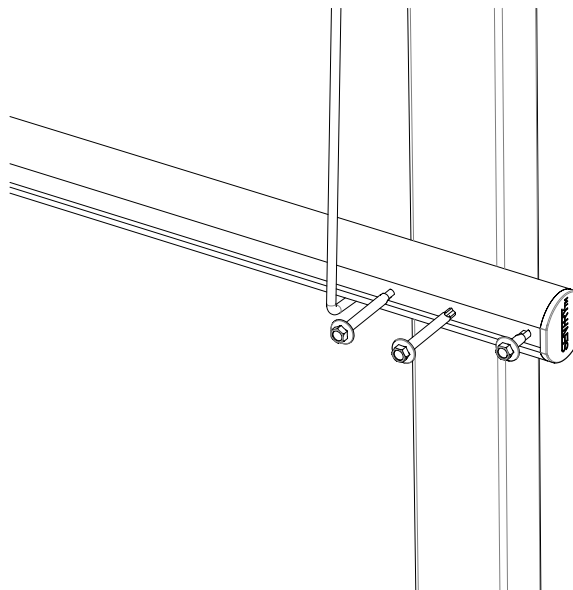
*Secure knee rail adjustable elbows with 2 x 3/4" screws. One each side.*

16



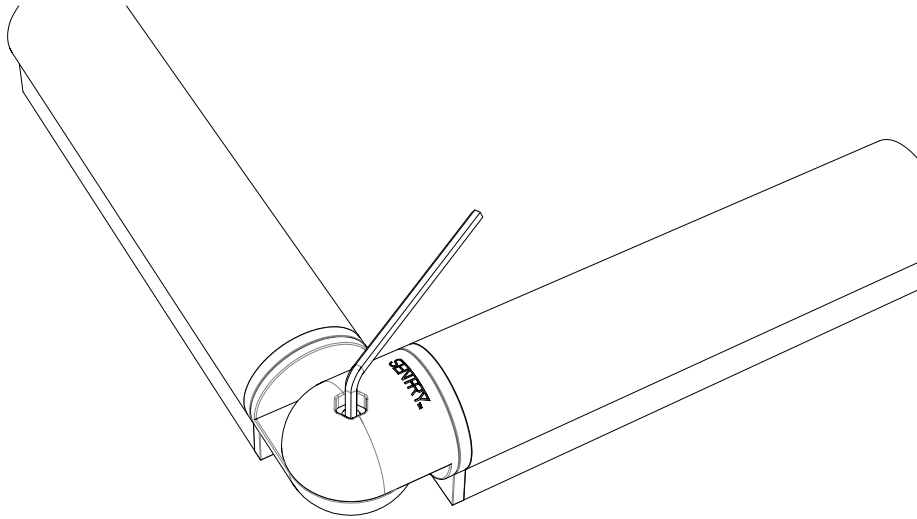
*Install brace at any corner or termination. Fasten with 2 x 3/4" screw. Braces must be installed.*

17



*Insert knee rail end cap and secure with 1 x 3/4" screw.*

**18**



*Tighten all adjustable elbows with an allen wrench.*