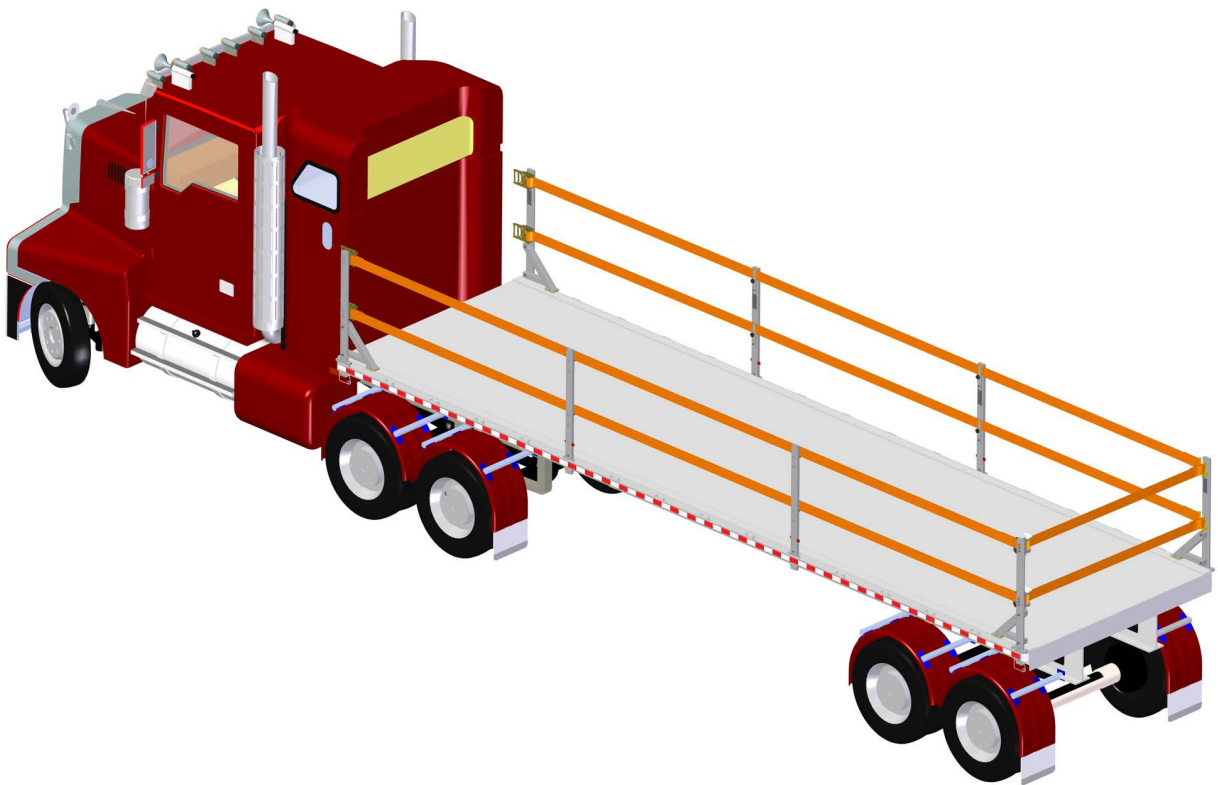


TRUKRAIL™

INSTANT GUARDRAIL FOR FLATBEDS

INSTALLATION MANUAL



STRAP YOUR EDGE!

Second Edition - January 19, 2026

Document number: TRUKRAIL-MANUAL-02

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IMPORTANT

If at any time you are unsure of how to install or use this Superchute product, call the Superchute technical assistance helpline at 1-800-363-2488.

IMPORTANT

It is the responsibility of companies that sell, rent, or use this Superchute product to freely supply this manual to the following persons:

- Planners
- Supervisors
- Installers
- Users

WARNING

Installing and dismantling of TrukRail includes many risks: worker proximity to exposed edges on the truck, End Post weight, and physical strength needed to sufficiently tension the ratchets.

Possible Issues

- Workers can fall from a height when installing TrukRail. A fall from any height can cause serious injury or death.
- Serious injury or death can result if straps are under tensioned.

Recommendations

- Installation and dismantling of TrukRail should only be done by surefooted, able-bodied workers.
- Workers must read this manual before installing or dismantling TrukRail.

WARNING

Incorrect installation, misuse, or modification of TrukRail can create an unsafe guardrail system.

Possible Issue

Persons can be seriously injured or killed if TrukRail is modified or misused.

Recommendations

- Do **NOT** use TrukRail as the anchor point for a fall arrest system or lifeline.
- Do **NOT** modify TrukRail components without approval from Superchute.
- Follow all instructions in this manual for installation, removal, and use. If you are unsure or have questions, call the technical assistance helpline at 1-800-363-2488.

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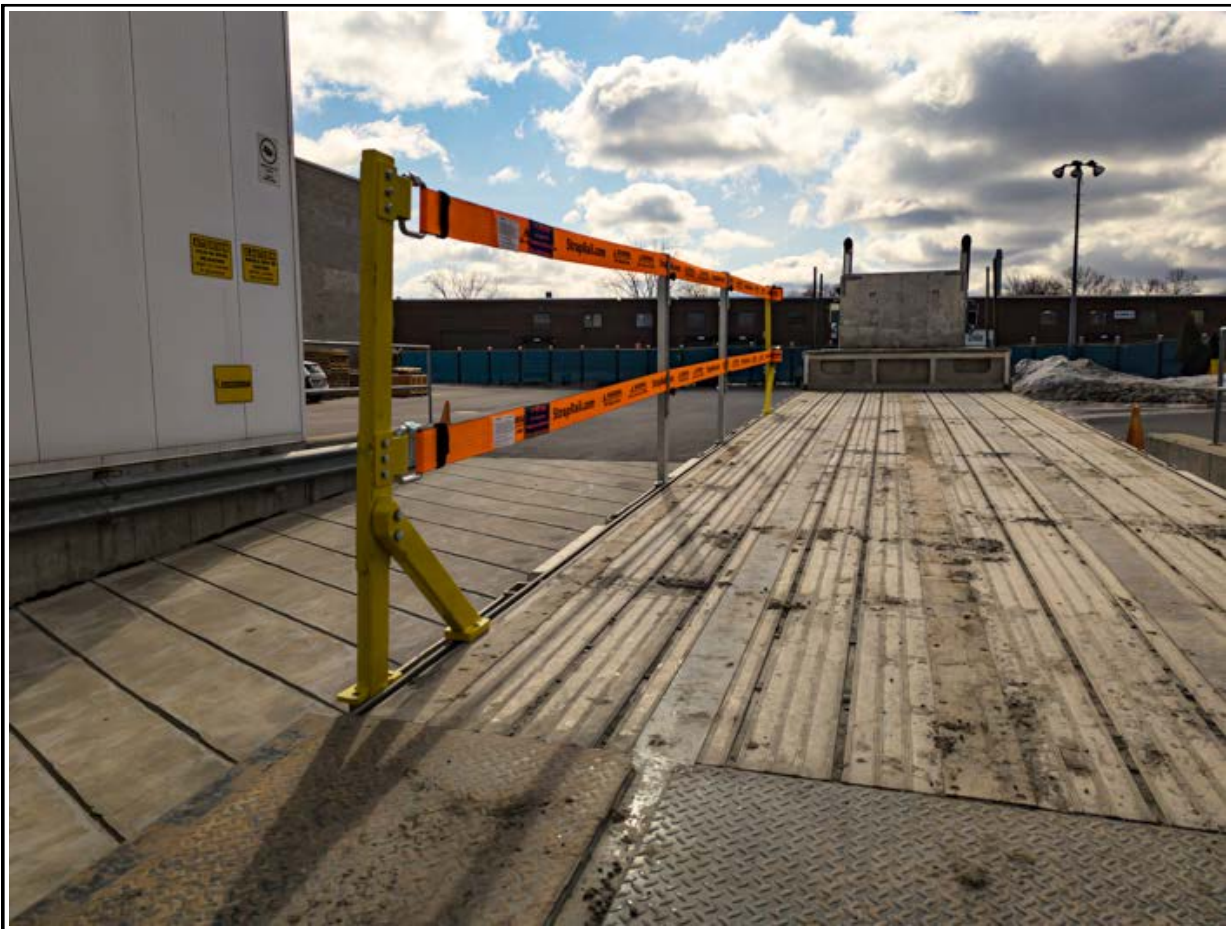
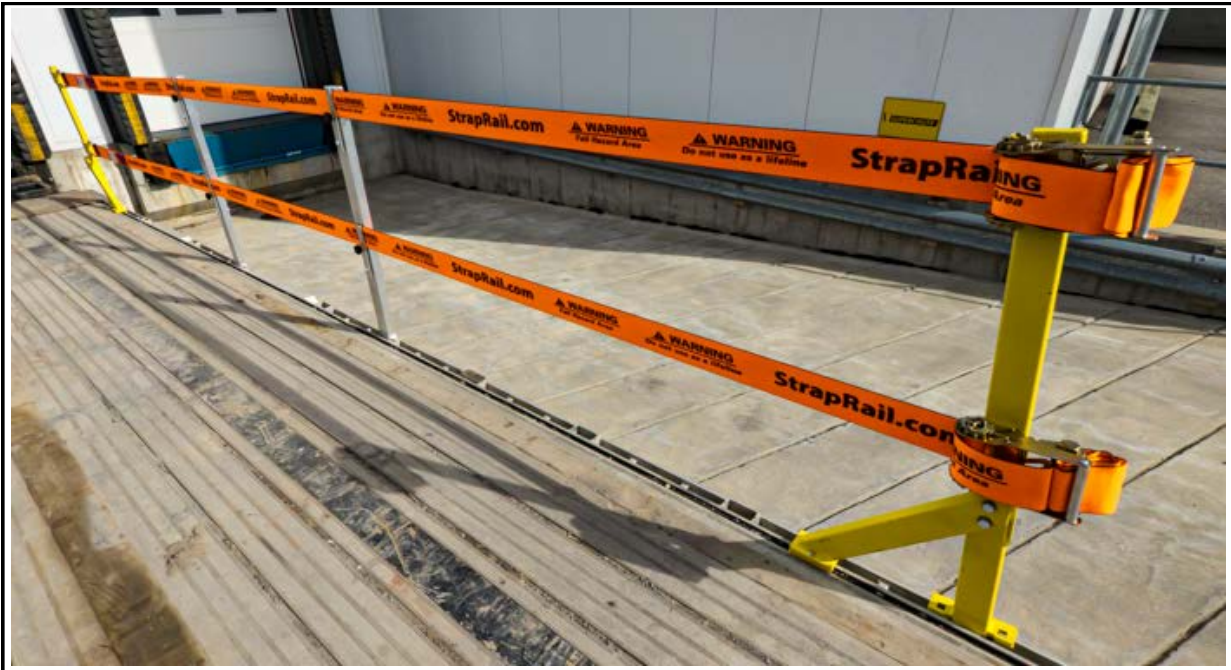
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Introducing TrukRail

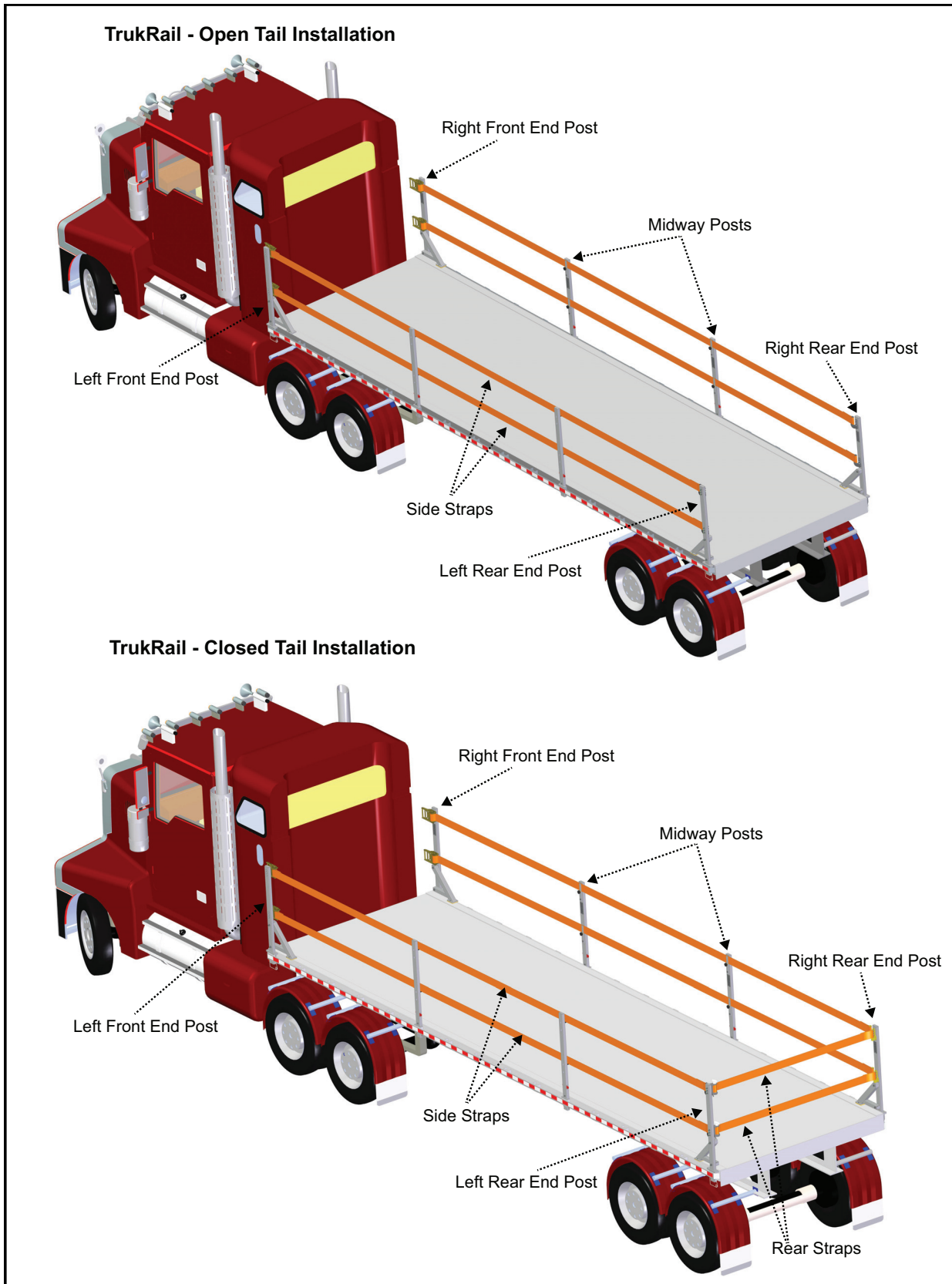
TrukRail is the ultimate quick-to-install solution for protecting workers on flatbed trucks. Installs in minutes to secure a flatbed and eliminate the risk of falls. With over 1000 lb of tension in each strap, TrukRail creates a semi-rigid protective barrier providing the ultimate in guardrail safety.

TrukRail is designed for everyday use. Posts are aluminum and most components and fasteners are stainless steel for superior corrosion resistance. Straps are woven in Canada using UV resistant yarn for a projected working life of at least 10 years in direct sunlight.





TrukRail Components

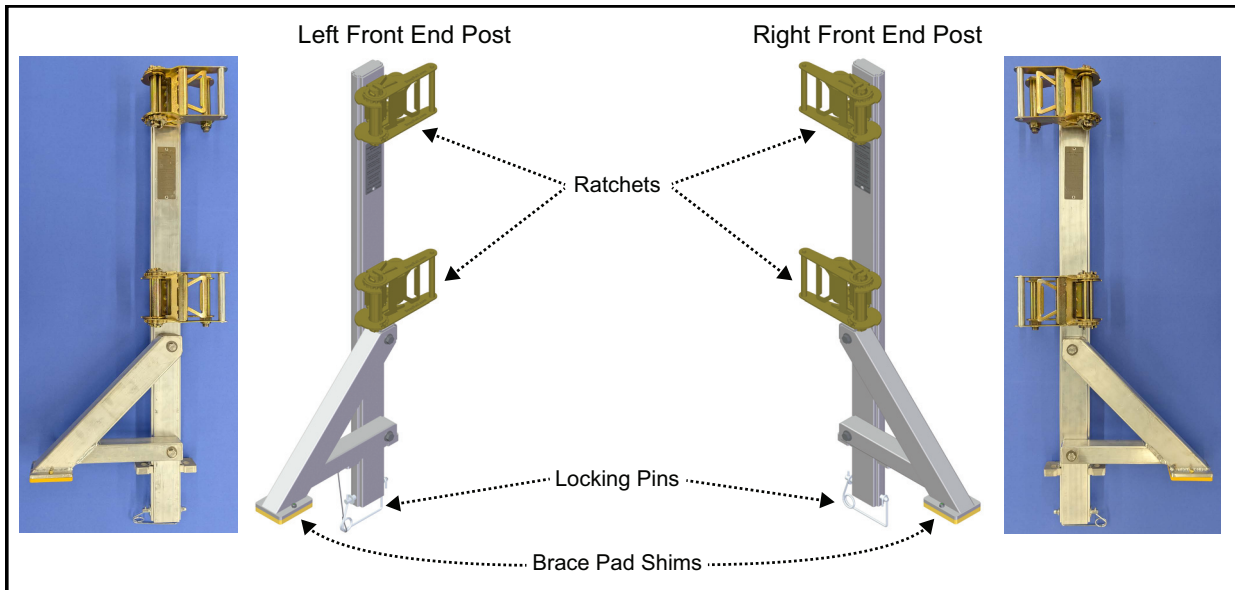


End Posts - Open Tail Installation

A complete TrukRail installation requires four End Posts, one at each corner of the system.

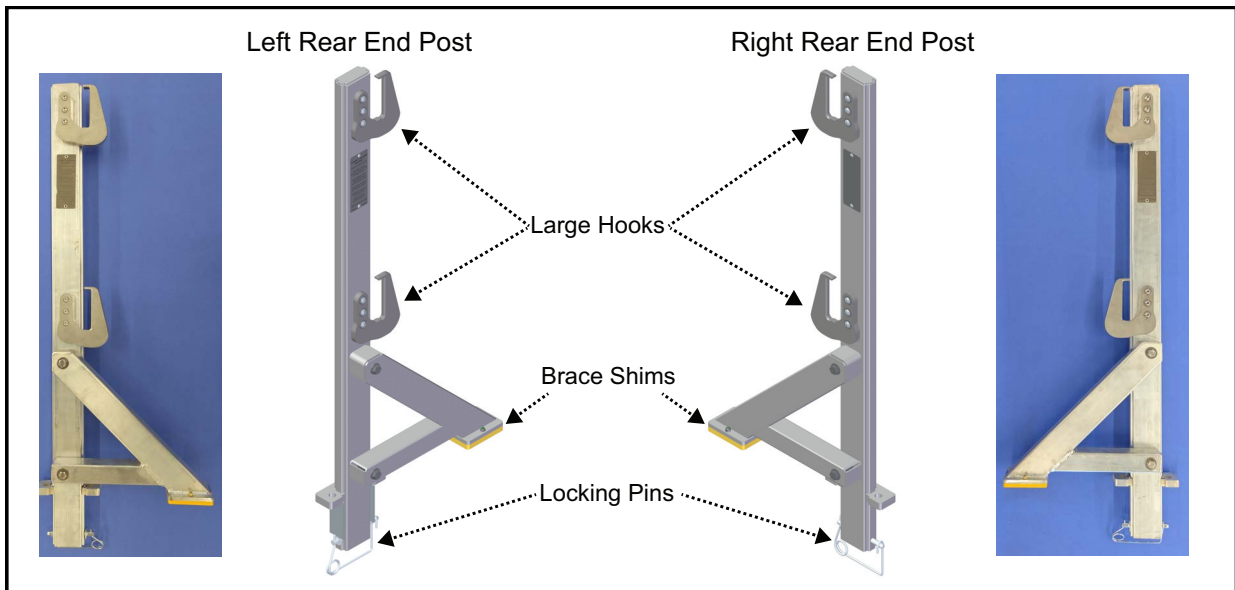
Front End Posts

With integrated ratchets for easy tensioning of Side Straps. Each installation requires one Left Post and one Right Post.



Rear End Posts

With Large Strap Hooks for quick anchoring of Side Straps. Each installation requires one Left Post and one Right Post.

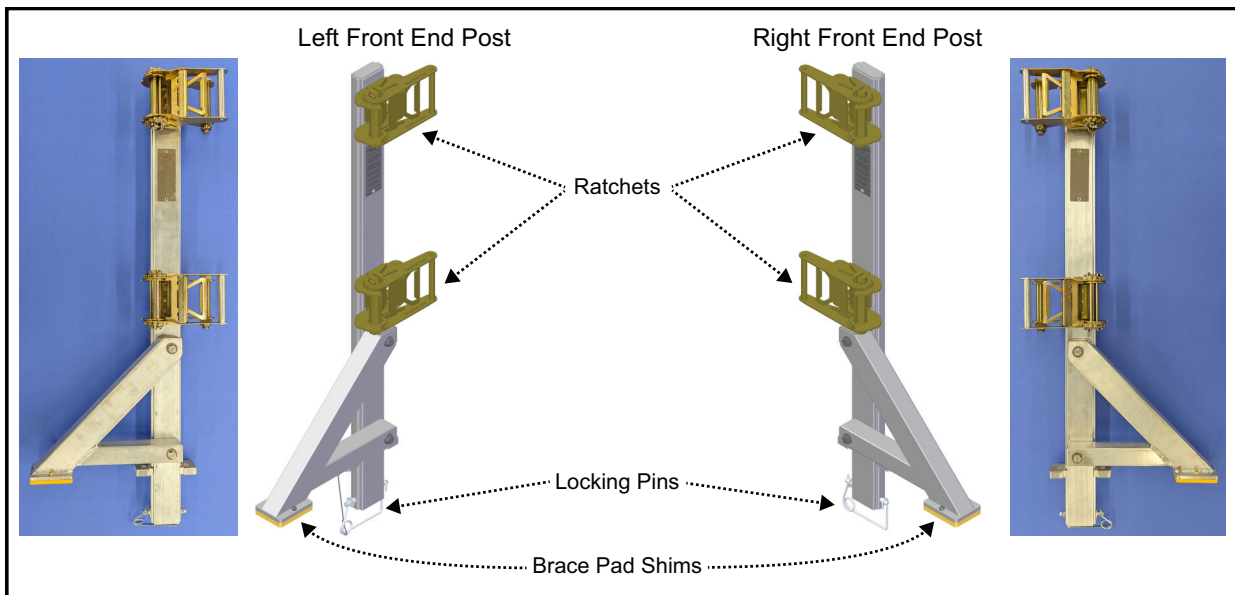


End Posts - Closed Tail Installation

TrukRail can be supplied with tail straps to provide fall protection at the rear of the truck. A closed tail TrukRail installation also requires four End Posts, one at each corner of the system.

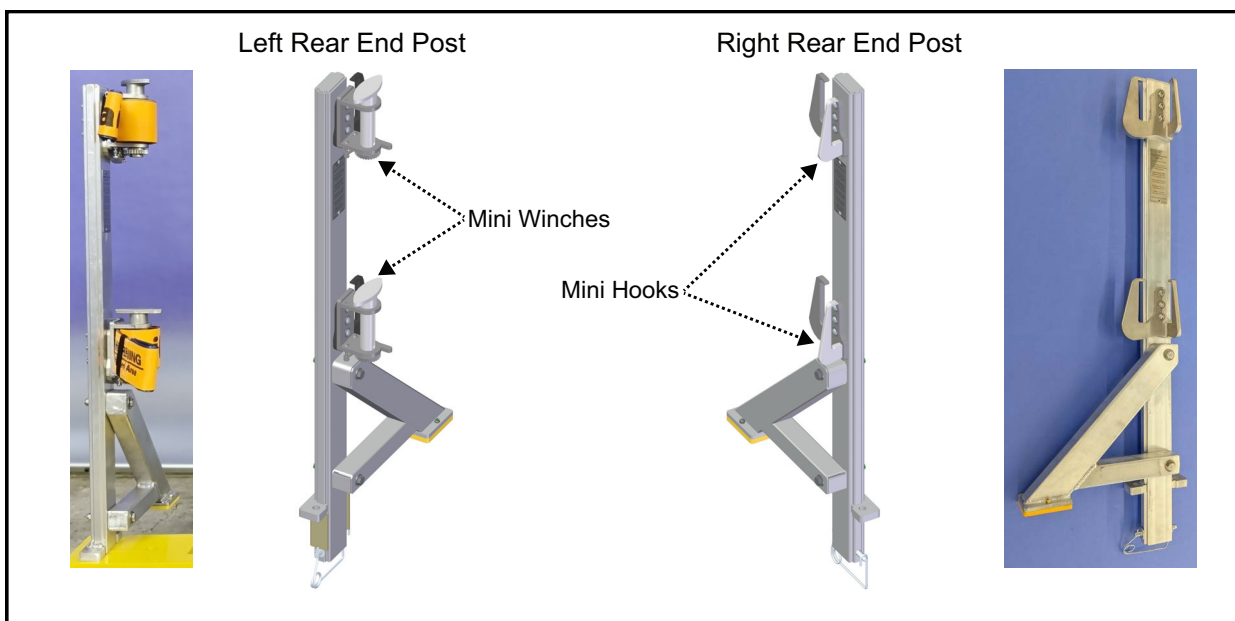
Front End Posts

With integrated ratchets for easy tensioning of Side Straps. Each installation requires one Left Post and one Right Post.



Rear End Posts

With two Mini Winches, two Mini Hooks, and two Rear Straps. The Mini Winches tension the Rear Straps. Each installation requires one Left Post and one Right Post. Rear Straps are factory installed on the Left Rear End Post.



Straps

Super strong 4" wide straps have a breaking strength of over 20 000 lb when new, providing a safety factor of 20:1.



- **Side Straps:** Side Straps are provided in the required length (as ordered) to cover the side of the truck. Each strap has a reinforced loop at one end for connecting to a Rear Post Hook, the other end is bare so it can be fed into a Front Post Ratchet.
- **Rear Straps:** Rear Straps are 9' long and protect the rear of the truck. Each strap has a reinforced loop at one end for connecting to a Rear Post Mini Hook. The other end is bare so it can be fed into a Mini Winch. Rear Straps are preloaded on Mini Winches at the factory.

WARNING

TrukRail straps are resistant to heat, cold, UV rays, and short term exposure to many chemicals. However, strap integrity can be compromised by exposure to certain chemicals, open flames, or other hazards. Degraded straps can fail without warning. See "Strap Durability" on page 25 for more information.

Possible Issue

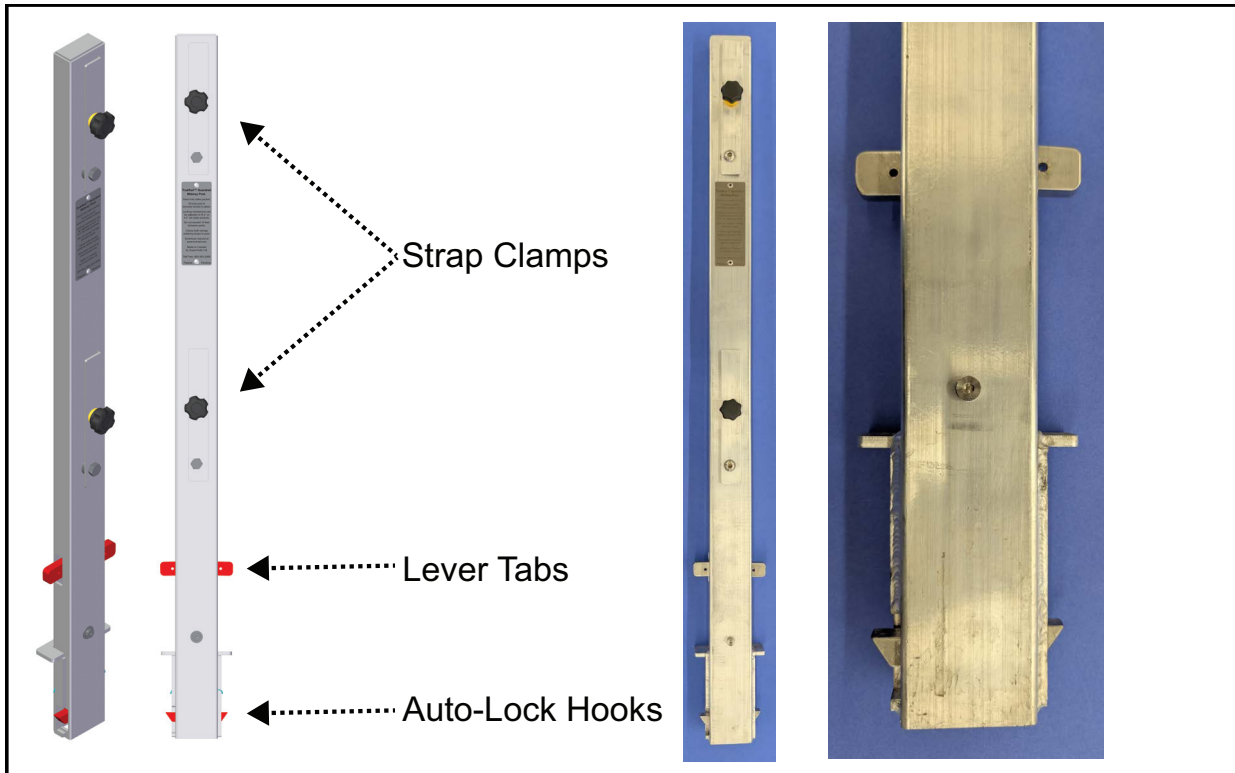
Persons can be seriously injured or killed if a degraded strap fails.

Recommendations

- Inspect straps before each use to ensure they are in good working condition.
- Replace a strap if it is cut, damaged, or has nicks greater than 1/4" deep.
- Protect straps with welding blankets if exposed to welding, torches, flames, or hot machinery.

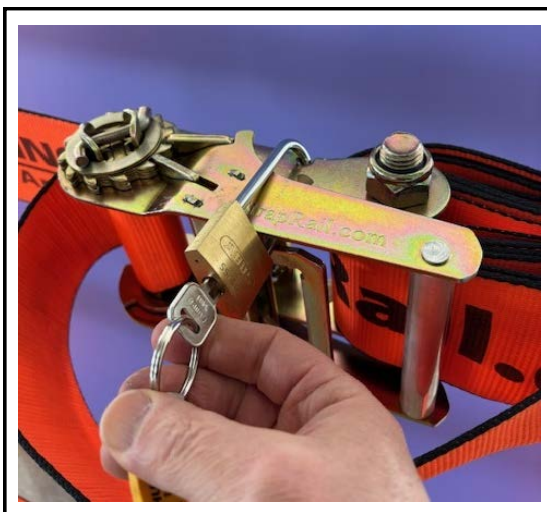
Midway Posts

Midway Posts keep the Side Straps at the correct OSHA height for fall protection. Integrated clamps grip the straps to create a semi-rigid protective framework. Twin Auto-Lock Hooks at the base of each post secure the post to stake pocket. Midway posts are required every 10' or less.



Padlocks

For security and to prevent tampering, ratchets can be locked with optional padlocks. All padlocks are keyed alike.

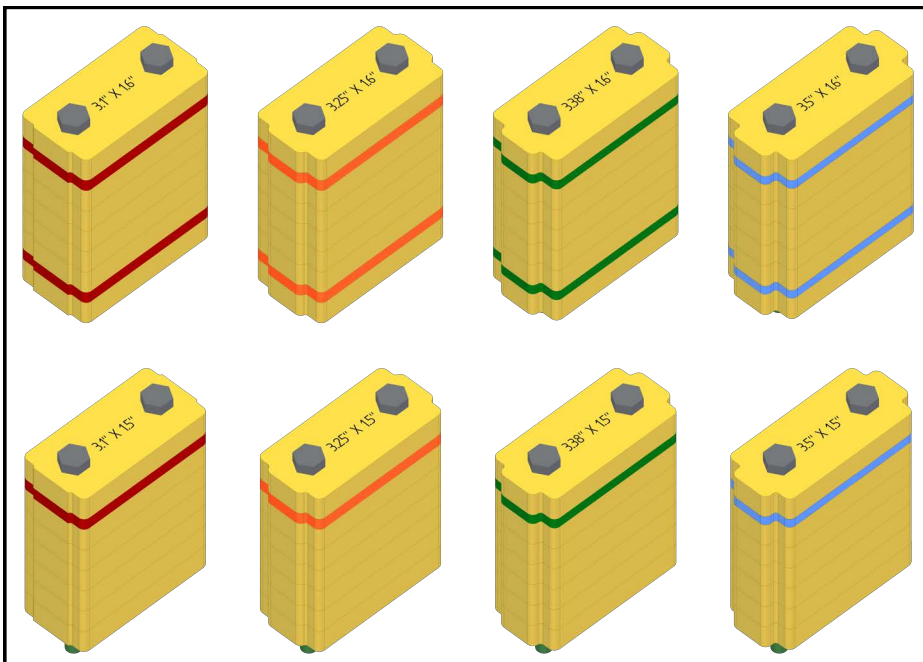


Planning Your Installation

Sizing TrukRail Posts to Stake Pockets

For safe operation of TrukRail, it is important that all End Posts and Midway Posts are sized to snugly fit the stake pockets on a truck. Most trucks have stake pockets that are approximately 1.5" wide x 3.5" long x 4" deep. However, stake pocket size can vary depending on the truck manufacturer. Therefore, it is crucial that you measure the stake pockets on your truck before ordering TrukRail to ensure that posts are manufactured for a proper fit.

Superchute can provide Go-No Go gauges for fit-test verification prior to ordering. For example, here is a set of stake pocket gauges ranging from 3.1" to 3.5".

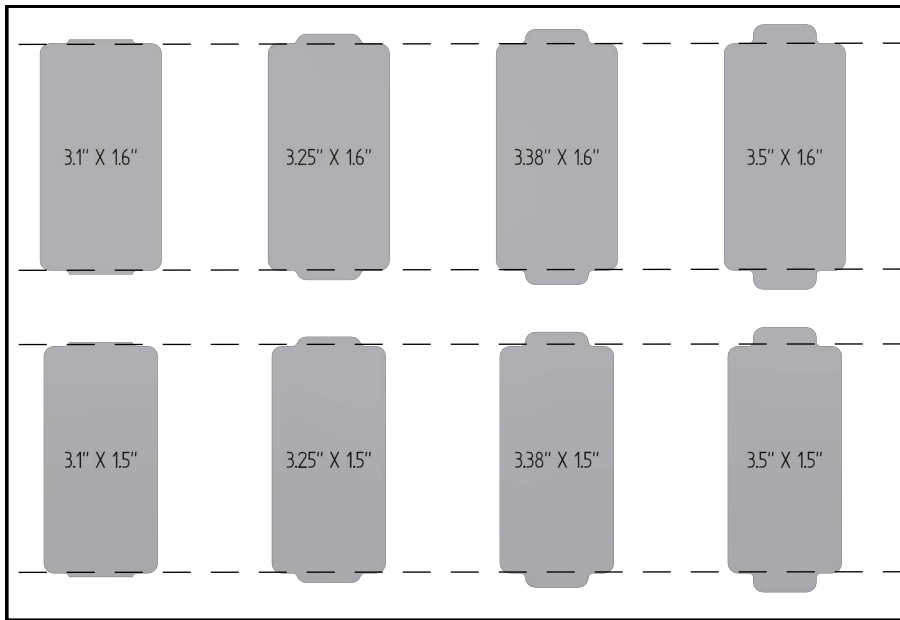


If your company has a fleet of flatbed trucks, you may require several different post sizes to accommodate the variations in stake pocket dimensions from truck to truck. Superchute will color code posts so that different post sizes are easy to identify.

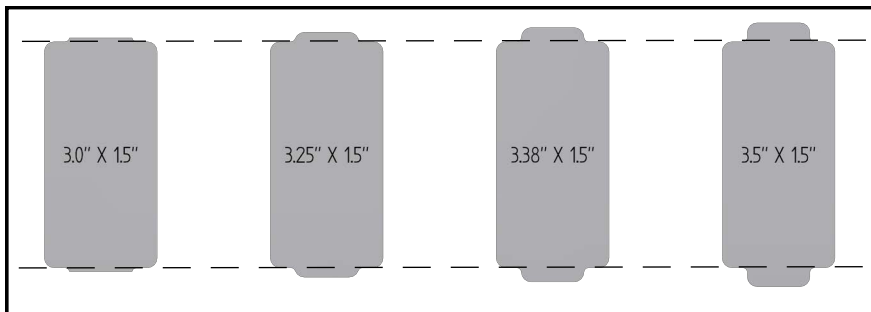
Stock Post Dimensions

Superchute keeps inventory of posts to fit common stake pocket sizes. If a stock post is not available in the size you require, contact Superchute and we will manufacture a post to fit your specific stake pocket size.

Stock End Posts	
1.5" x 3.10"	1.6" x 3.10"
1.5" x 3.25"	1.6" x 3.25"
1.5" x 3.38"	1.6" x 3.38"
1.5" x 3.50"	1.6" x 3.50"



Stock Midway Posts
1.5" x 3.00"
1.5" x 3.25"
1.5" x 3.38"
1.5" x 3.50"

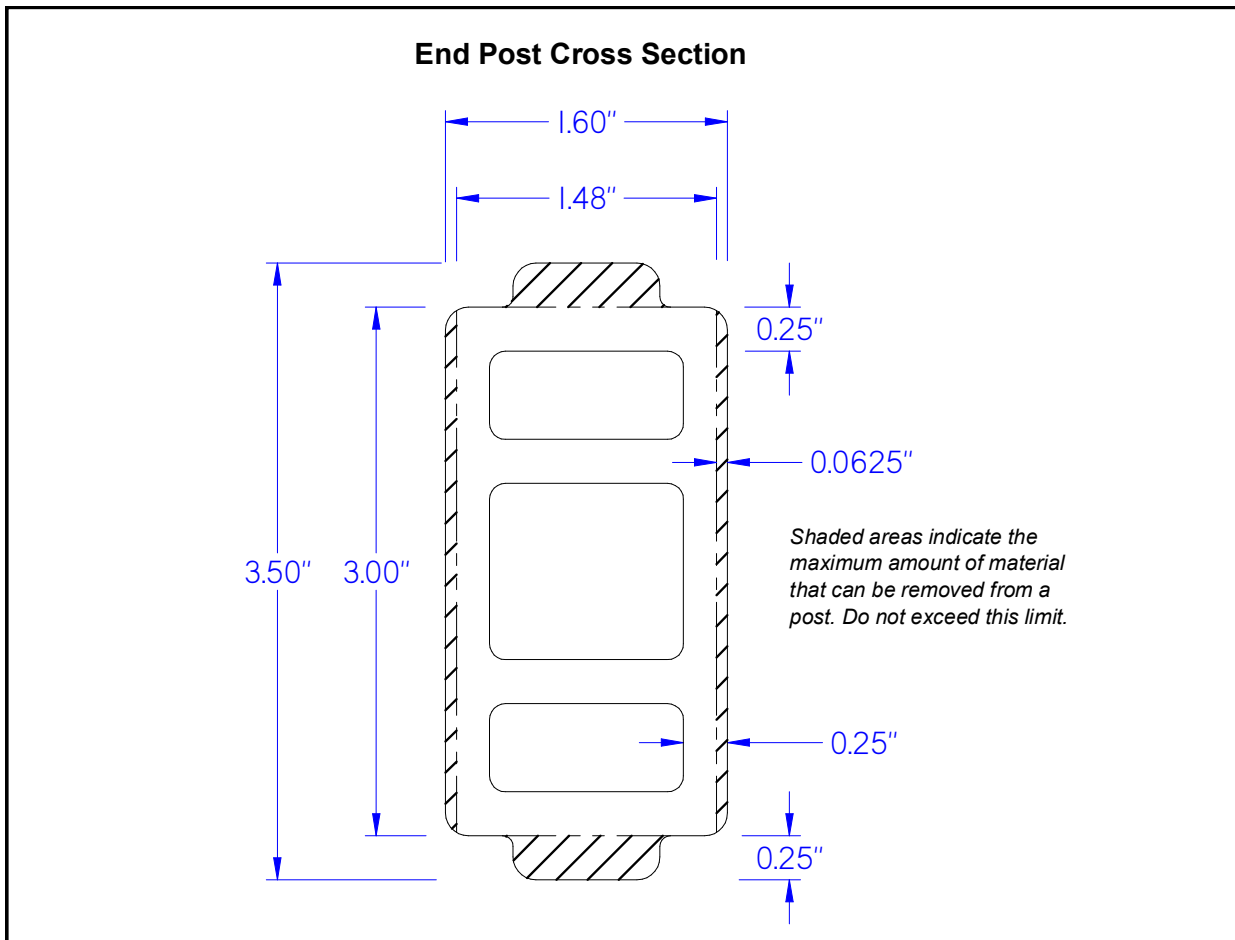


Narrowing the Base of an End Post On Site

For small variations in stake pocket size, it is possible to reduce the dimensions of the post base on site to ensure the best possible fit. This can be done by slightly grinding the outside walls at the base of a post.

Consult the following table for guidance.

End Post	Original Wall Thickness	Maximum Grind Per Side
Long Side	1/4"	1/16"
Short Side	1/2"	1/4"



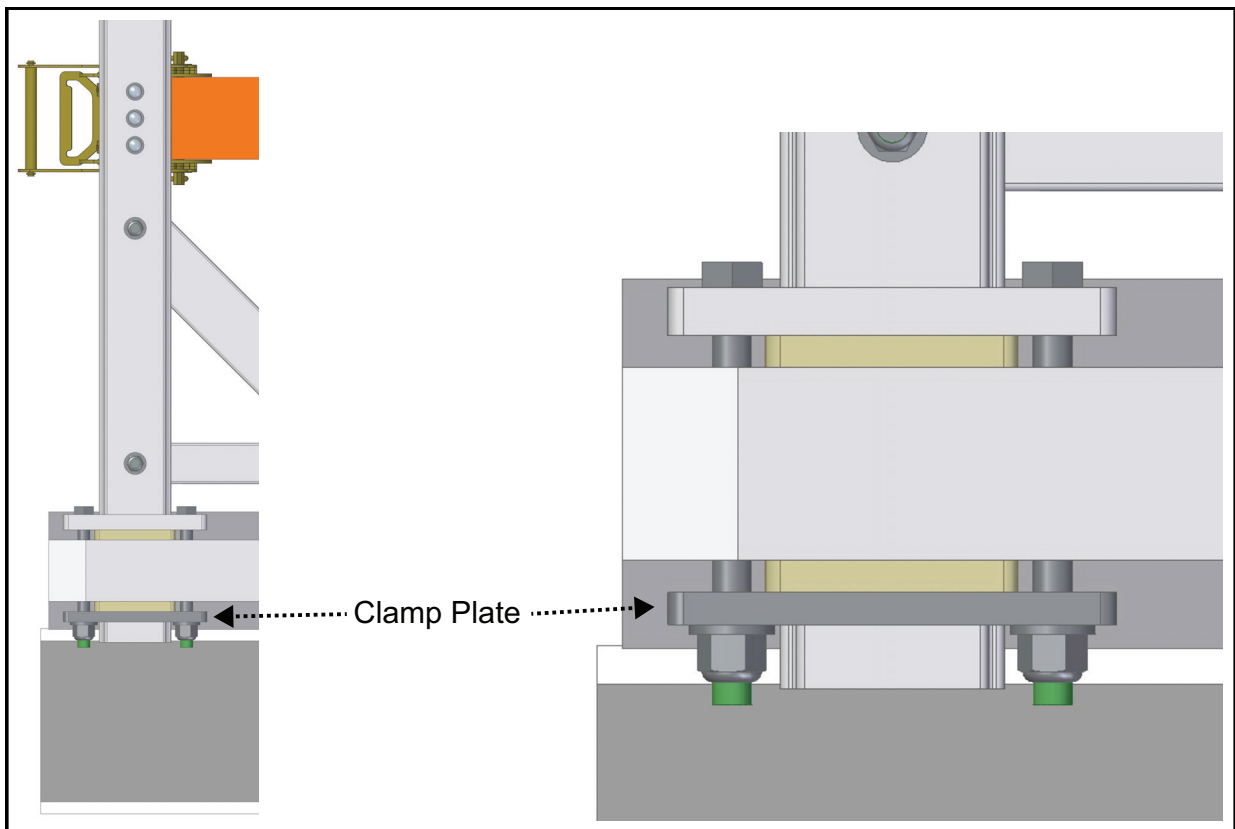
IMPORTANT: To maintain post integrity, *never exceed the Maximum Grind amount.*

Permanent End Post Installation

End Posts are the heaviest and largest components of the TrukRail system. Permanently installing End Posts provides these benefits:

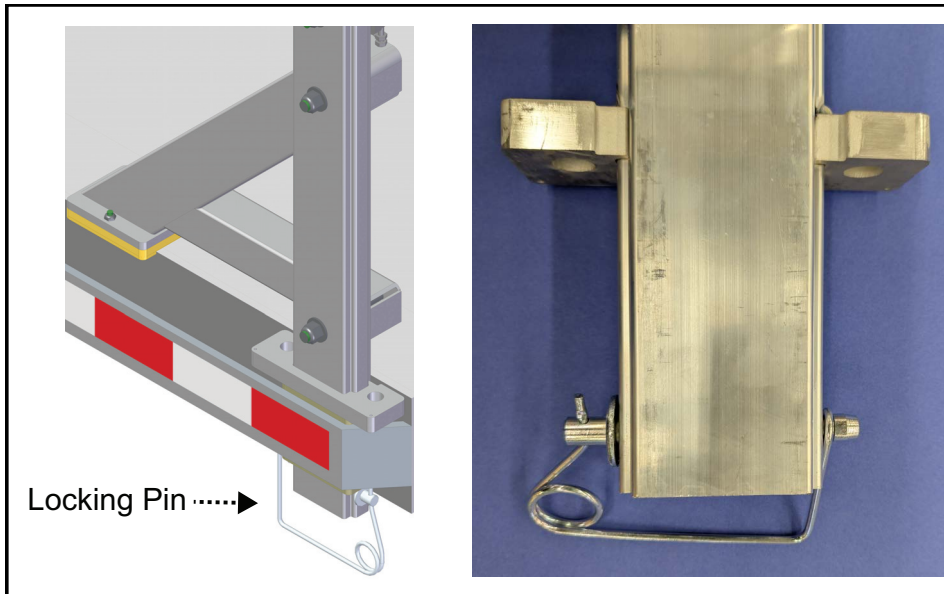
- **Speeds up deployment of TrukRail:** Workers simply drop lightweight Midway Posts into stake pockets, then connect and tension straps to quickly protect a flatbed truck.
- **Simplifies removal and storage:** Only straps and lightweight Midway Posts need to be removed and stored between use.
- **Eliminates potential falls:** Unprotected workers are not exposed to falling risks during End Post installation and removal.

Permanent installation requires one optional Clamp Kit for each End Post.



Temporary End Post Installation

For removable installations, sturdy 1/2" locking pins secure End Posts to the stake pockets.



! WARNING

All TrukRail posts must fit snugly in stake pockets for proper operation. Auto-Lock Hooks on Midway Posts will not engage if stake pocket fit is sloppy. Incorrectly fitted posts do not provide secure support for TrukRail straps.

Possible Issues

- Persons can be seriously injured or killed if they fall against a guardrail compromised by incorrectly fitted posts.
- Incorrectly fitted posts can cause TrukRail to fail without warning.
- Incorrectly fitted posts can be ejected from stake pockets on moving trucks.

Recommendation

Only install posts that are sized to fit the stake pockets on the truck. TrukRail posts are custom manufactured to fit the stake pockets on any flatbed truck.

TrukRail Kit Contents

Qty	Description	Open Tail	Closed Tail
1	Right Front End Post with 2 Ratchets	✓	✓
1	Left Front End Post with 2 Ratchets	✓	✓
1	Right Rear End Post with Large Strap Hooks	✓	+ 2 Mini Hooks
1	Left Rear End Post with Large Strap Hooks	✓	+ 2 Mini Winches
4	Midway Posts (Additional posts may be needed)	✓	✓
4	Locking Pins (1/2" x 4" usable)	✓	✓
4	Hi-Vis Side Straps (4" wide x truck length)	✓	✓
2	Hi-Vis Rear Straps (4" wide x 9' long)	✗	✓

Accessories

Clamp Kit for Permanent End Post Installation

One kit is required for each post.

Qty	Description
2	Hex bolts (5/8" x 6.5")
2	Flat washers (5/8")
2	Lock washers (5/8")
2	Hex nuts (5/8")
1	Clamp plate (1/2" thick)

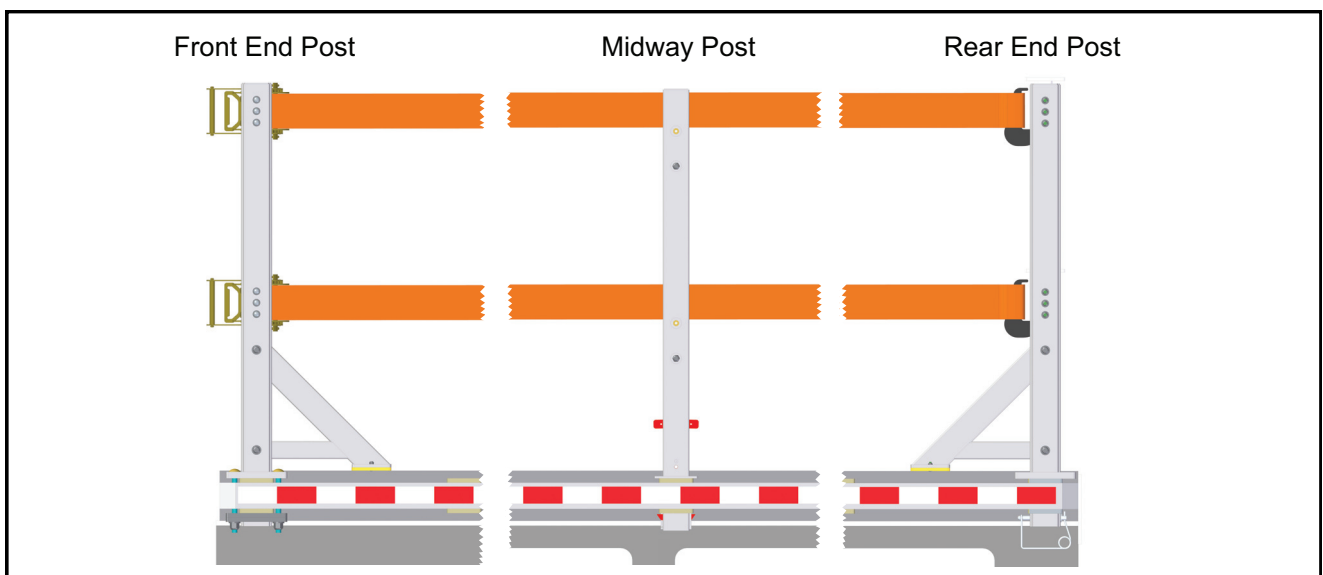
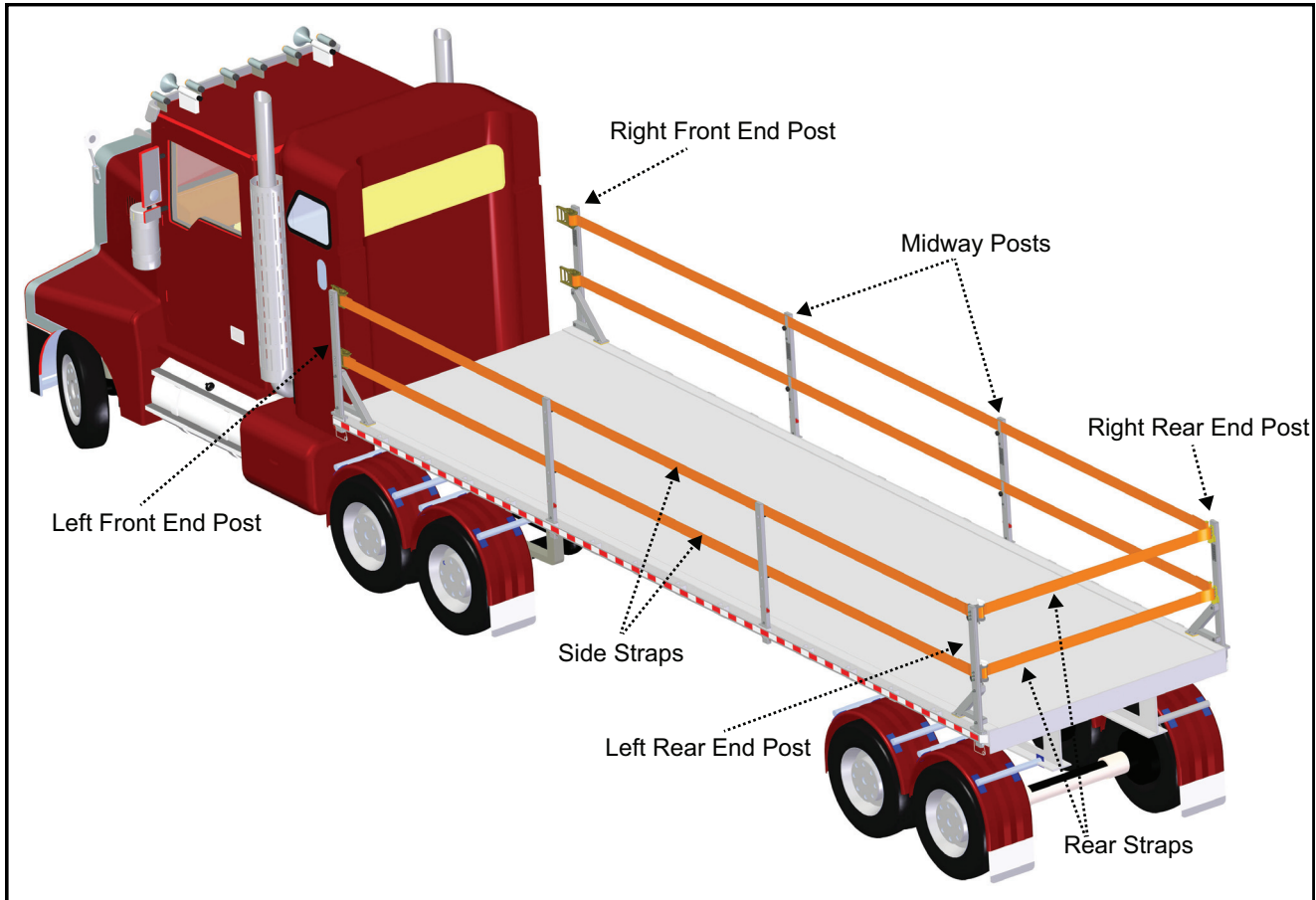
Padlocks

Qty	Description
4	Padlocks (keyed alike)

Installing TrukRail

This installation procedure assumes all TrukRail components are in their original state as shipped from the Superchute factory. Do not modify TrukRail without factory approval.

Refer to the following diagram when installing TrukRail.



Step 1: Install End Posts

WARNING

When fully tensioned, TrukRail straps exert up to 2000 lb of tension on End Posts. Installing End Posts in damaged or insufficiently strong stake pockets can cause TrukRail to fail without warning.

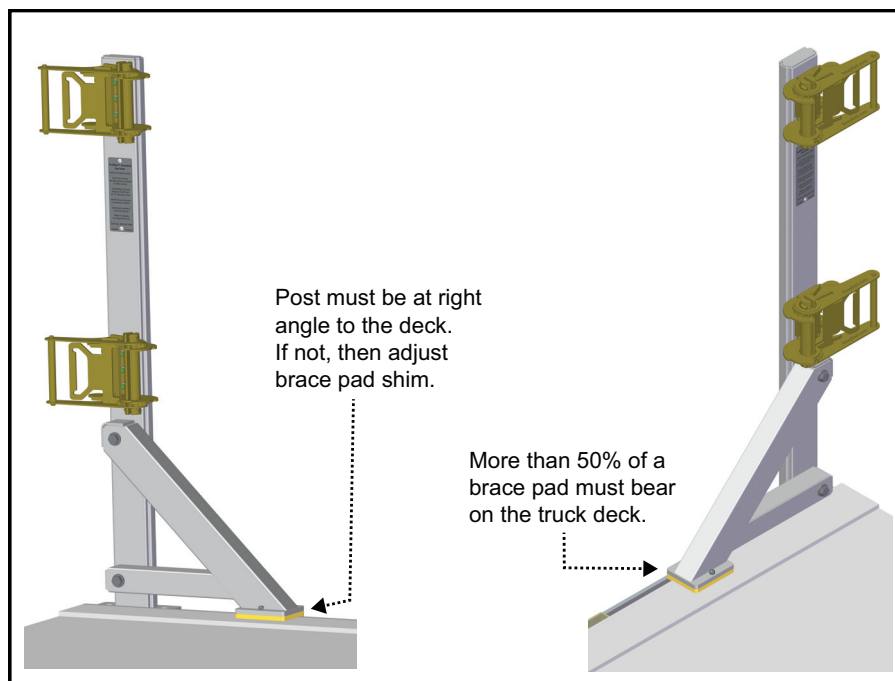
Possible Issue

Persons can be seriously injured or killed if TrukRail fails.

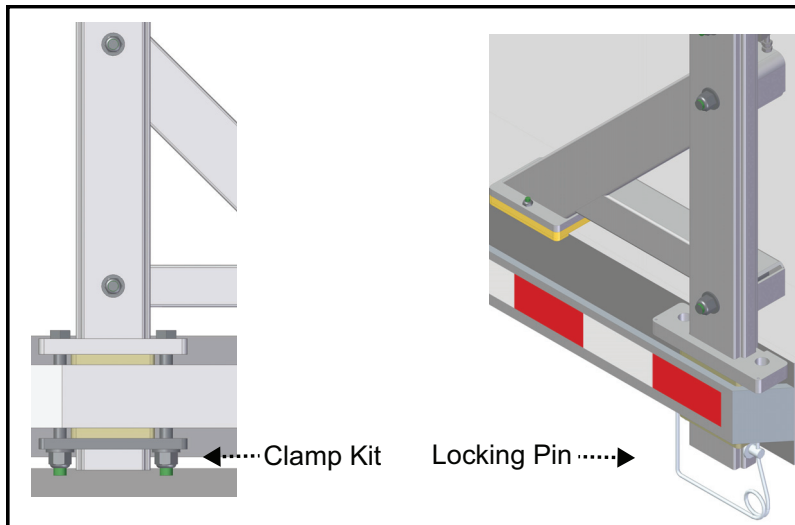
Recommendations

- Inspect all stake pockets before installing End Posts and Midway Posts to ensure they are undamaged and structurally adequate.
- Do **NOT** install End Posts and Midway Posts in damaged or weak stake pockets.

- Insert the Front End Posts into stake pockets at the front of the truck.
- Insert the Rear End Posts into stake pockets at the rear of the truck.
- Make sure that:
 - All components on the End Posts (ratchets, hooks, winches, braces) are inboard.
 - At least 50% of the brace pad on each End Post bears on the truck deck.
 - All End Posts are square to the flatbed deck. If needed, contact Superchute for additional brace pad shims.

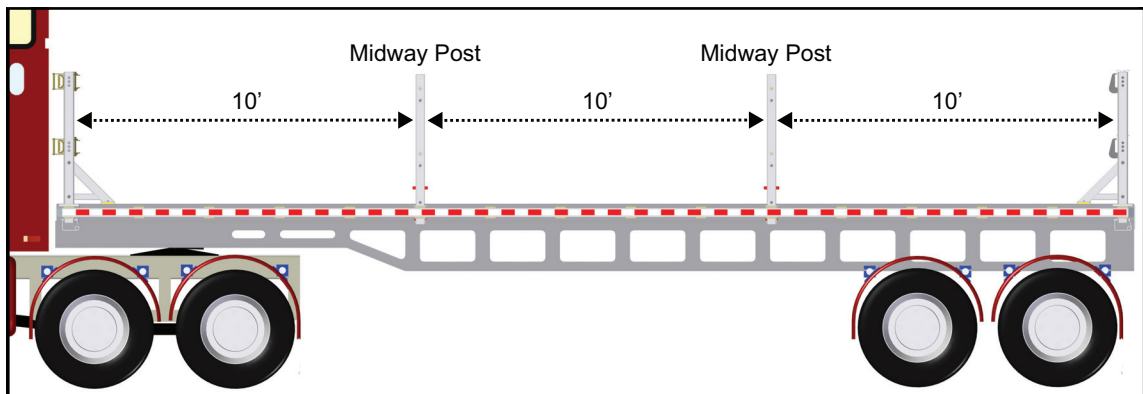


- D. Secure each End Post with either a locking pin (for temporary installation), or optional Clamp Kit (for permanent installation).

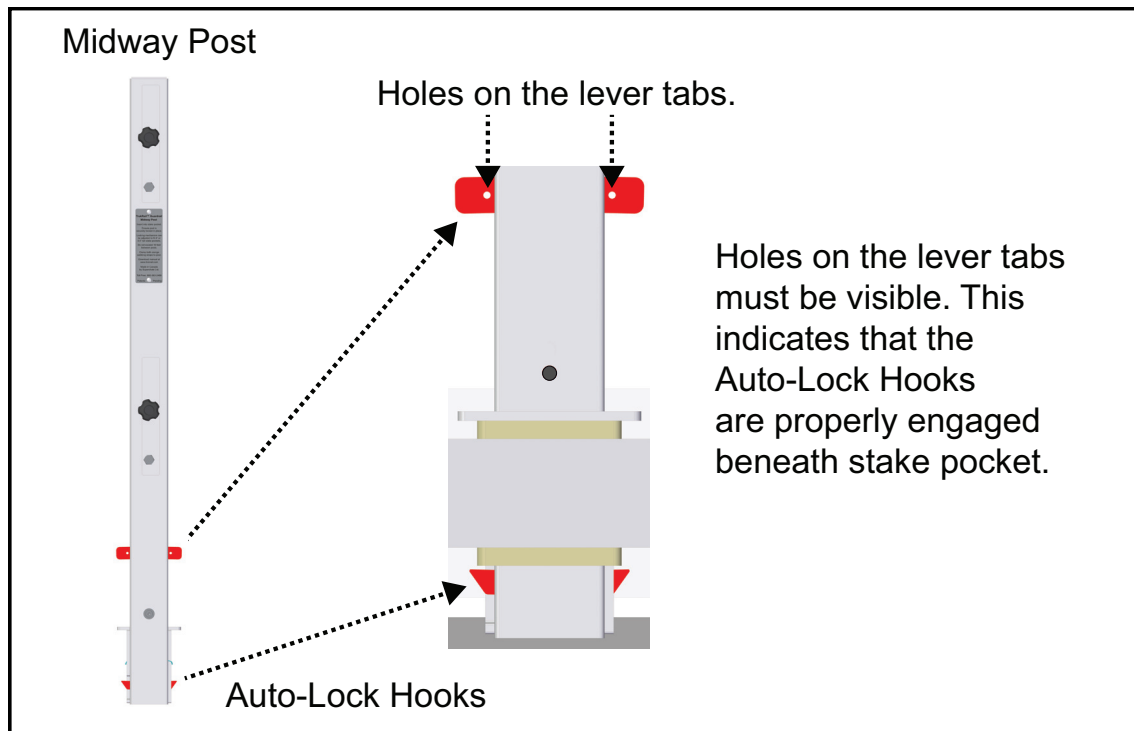


Step 2: Install Midway Posts

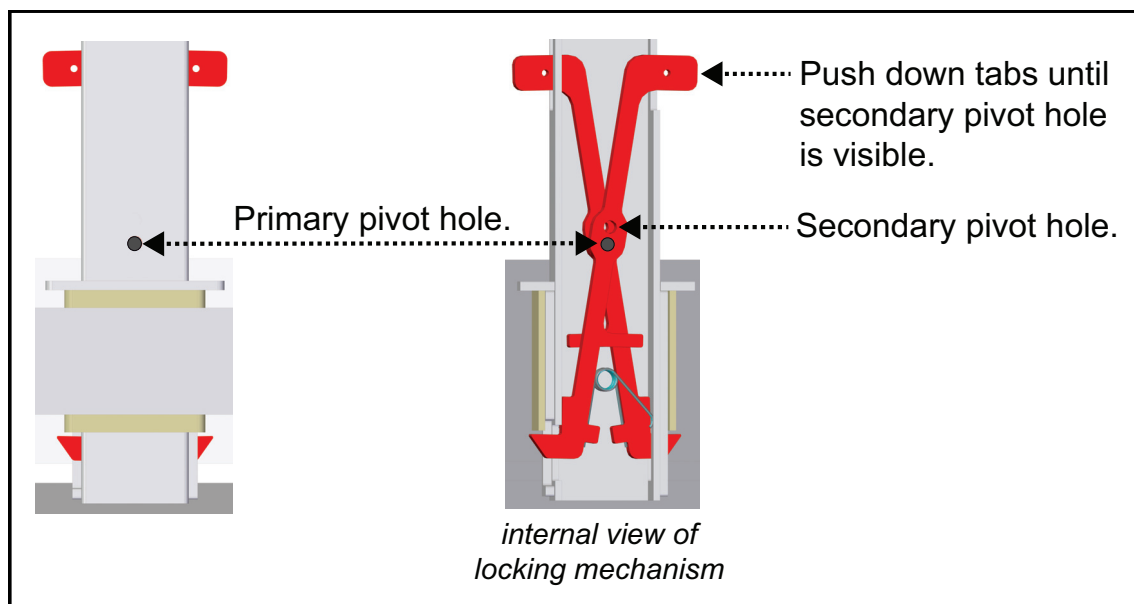
- A. Insert Midway Posts into stake pockets. Midway Posts must be installed every 10' (or less) between End Posts.



- B.** Ensure that the twin Auto-Lock Hooks on each Midway Post securely lock beneath the stake pocket.



- C.** If the depth of the stake pocket is greater than 4", Auto-Lock Hooks will not engage beneath the pocket. To adjust for deeper stake pockets, the hooks have a second mounting hole that permits the hooks to reach 4.5". Adjust the hooks as follows:
- Remove the shoulder bolt using a 3/16" Allen key and 1/2" wrench.
 - Push down the lever tabs to lower the hooks until the second pivot hole is visible.
 - Reinstall the shoulder bolt.



Step 3: Install Side Straps

- A. Attach Side Straps to the Large Hooks on the Rear End Posts.
- B. Run the straps through the clamps on all Midway Posts. **Do not tighten the Midway Post clamps until after you tension the straps with the ratchets.**
- C. Thread the Side Straps into the ratchets on the Front End Posts and pull out all slack.
- D. Tension the top ratchet as tightly as you can. Repeat for the bottom ratchet.
- E. To avoid a trip hazard, roll up any excess strap and stuff behind ratchet handle. If there is too much surplus strap, use a Velcro band to secure coiled strap to taut strap.
- F. Tighten the top and bottom clamps on all Midway Posts.

WARNING

Extending a ratchet handle with a pipe, crowbar, or other means of leverage will dangerously increase tension in the strap and cause excessive force on TrukRail End Posts and truck stake pockets.

Possible Issue

Excessive strap tension can damage TrukRail End Posts and truck stake pockets.

Recommendation

Do **NOT** modify or extend ratchet handles.

WARNING

Releasing a tensioned ratchet produces a loud bang (similar to a gunshot) and may also cause a spark.

Possible Issue

The bang can cause hearing damage and startle co-workers.

Recommendations

- Wear ear protection when releasing ratchet tension.
- Warn all persons protected by TrukRail before releasing ratchet tension.

Step 4: Install Rear Straps

If you purchased the Closed Tail Option, install it as follows:

- A. Unlock the top Mini Winch on the Left Rear End Post by opening the release lever.
- B. Pull the Rear Strap from the top winch and attach it to the Mini Hook on the Right Rear End Post.
- C. Hand tension the top Mini Winch until taut.
- D. Repeat for the bottom Mini Winch.

Step 5: Inspect the Installation

Inspect the installation to make sure that no posts are loose and that all straps are sufficiently tensioned.

TrukRail is now ready for use.

WARNING

Straps that are not under sufficient tension (slack straps) do not provide sufficient fall protection.

Possible Issue

Persons can be seriously injured or killed if they lose their balance and fall over under-tensioned (slack) straps.

Recommendations

- Do **NOT** use TrukRail without sufficiently tensioning all straps.
- Warn all persons protected by TrukRail before releasing strap tension.

Appendix

Strap Durability

TrukRail Straps are manufactured from woven polyester and are designed to provide many years of service under most conditions. For optimal performance, keep the following in mind during use.

Chemicals and Environmental Hazards

Straps are resistant to heat, cold, UV rays, and short term exposure to many chemicals, without significant degradation, including:

- Weak acids: Acetic acid, citric acid, carbonic acid, formic acid, hydrofluoric acid, sulfurous acid, phosphoric acid, hydrochloric acid, nitric acid. (At room temperature and normal use concentrations.)
- Alcohols, soaps, detergents, common oils and grease, neutral salt solutions
- Water and Seawater: Straps are resistant to mildew and rot.

Straps can be **significantly damaged or degraded** by strong alkalis (bases), especially at boiling temperatures. For optimal strap longevity and performance avoid exposure to:

- Sodium Hydroxide (NaOH): Used in drain cleaners and soap making (caustic soda).
- Potassium Hydroxide (KOH): Key ingredient in liquid soaps and detergents (caustic potash).
- Calcium Hydroxide (Ca(OH)): Used in construction (slaked lime) and soil treatment.
- Barium Hydroxide (Ba(OH)) & Lithium Hydroxide (LiOH)
- Concentrated Sulfuric Acid: 95% concentrated acid can disintegrate straps.

Temperature and Fire Hazards

Straps are not fire resistant or fire retardant.

Exposure to sustained temperatures above 194°F (90°C) can permanently weaken straps. Straps melt in the range 232°C to 260°C (450°F to 500°F). Avoid contact with, or proximity to, hot machinery.

Straps burn at approximately 360°C (680°F). Exposure to welding sparks or open flame can ignite straps, producing hazardous byproducts like carbon monoxide, carbon dioxide, and hydrocarbon compounds.

Physical Hazards

Strap strength can be reduced through abrasion or by sustaining nicks and cuts.

- Avoid dragging straps across rough surfaces or across sharp edges.
- Consider stowing straps before driving at highway speed to avoid premature wear of straps due to wind vibration.
- Replace a strap if it is cut, damaged, or has nicks greater than 1/4" deep.

Maintenance

Maintenance must be performed on an ongoing basis to ensure safe operation of TrukRail.

- Inspect TrukRail before each use to ensure that all components are in good working order.
- Immediately withdraw non-functional components from service and replace them.
- Keep straps clean. Hand wash with mild soap and warm water. Rinse well.
- Replace straps if cut, damaged, or with nicks greater than 1/4" deep.
- Lubricate ratchets with silicone spray as needed.
- Consider stowing straps before driving at highway speed to avoid premature wear of straps due to wind vibration.
- When replacing stainless steel nuts and bolts, always apply an anti-seize compound to the threads to prevent galling (cold welding).
- Contact Superchute to replace any damaged or worn TrukRail components.

Warranty

Superchute warrants TrukRail against manufacturing defects, which must be reported in writing to Superchute upon receipt of goods.

TrukRail is designed for heavy wear, but like all equipment, time and use will take their toll. There is no warranty for wear and tear, or misuse of TrukRail.

Thorough overhaul servicing for TrukRail is offered by Superchute.

Further information on "Warranties and Limitation of Liability" can be downloaded at www.superchute.com/tc.

OSHA Compliance Information

TrukRail, when installed as specified in this manual, meets many guardrail regulations in effect in jurisdictions across North America, including those of the U.S. Dept. of Labor:

OSHA Regulations (Standards - 29 CFR)
Part 1926 Safety and Health Regulations for Construction
Subpart M - Fall Protection 1926.502

OSHA Extracts Concerning Worker Fall Protection

- *1926.502(b)(1) - TOP RAILS:* Top edge height of top rails ... shall be 42 inches (107 cm) plus or minus 3 inches (8 cm) above the walking/working level.
- *1926.502(b)(2) - MIDRAILS:* Midrails, screens, mesh, intermediate vertical members, or equivalent intermediate structural members shall be installed between the top edge of the guardrail system and the walking/working surface when there is no wall or parapet wall at least 21 inches (53 cm) high.
- *1926.502(b)(2)(iv) - OPENINGS:* Other structural members (such as additional midrails and architectural panels) shall be installed such that there are no openings in the guardrail system that are more than 19 inches (.5 m) wide.