SwitchRail®

Modular Safety Rail System

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Safety, Installation & Removal Guidelines

Safety Instructions

- Visually inspect all Switch Rail components for damaged or defective components prior to installation/removal or usage of the system. Do not use or re-use any damaged or defective components. Damaged or defective components must be tagged for non use and returned to Switch Rail immediately.
- All Switch Rail installations/removals are to completed by a designated competent person. All field personnel working with installations/removals should be properly trained by the contractor prior to the installation/removal process.
- All Switch Rail applications must be installed, removed or used in accordance with the State, Federal & OSHA fall protection guidelines. Ensure the use of OSHA approved fall protection when installing/ removing any of the Switch Rail applications.
- Inspect all PPE prior to the start of use for defects or damages to any part of the PPE system.
- All Switch Rail components are not suitable for tie off. (excluding the single man non-penetrating tie off anchor)
- Do not alter or modify any of the equipment. Only Switch Rail Safety Systems or authorized representative are allowed to make repairs to the equipment.
- Always ensure all decals are facing into the safe work area.

Installation & Removal Guidelines

Anchored System Installation Sequence

1. Layout the base plates and Switch Rail sections in accordance with your lay-out and snap a line to ensure the layout is straight for the application.
2. Place the base plates on the line and install the Switch Rail sections.
3. Tighten the locking device so that the Switch Rail section is secured to the base plate. ***NOTE: Finger tighten the locking device only. DO NOT OVER-TIGHTEN.***
4. Drill (2) 5/16” pilot holes through the slotted holes in the base plate. One hole in the front slot and one hole in the back slot of the base plate.
5. Insert one 3/8’ x 3” long Red Head LDT self tapping concrete anchor into each of the pre-drilled pilot holes until the anchor is securely seated on the top of the base plate .

Anchored System Removal Sequence

1. Unlock the locking device. Remove the Switch Rail sections.
2. Release the anchors and remove the base plates.

Post Tension System Installation

1. Layout the base plates and Switch Rail Sections in accordance with your layout.
2. Mark the spot on the deck thru the slotted holes in the base plate where the post tension anchor sleeves will be installed into the deck.
3. Slide the base plate away from the mark and drill the pilot holes with a post tension drill bit. ***DO NOT OVERDRILL THE HOLE!***
4. Insert the post tension expansion sleeve into the pre drilled holes. The sleeve should be snug into the pre-drilled holes.
5. Using the post tension sleeve punch, punch the sleeve bottom until the sleeve has seated on top of the pre-drilled hole. ***DO NOT OVER PUNCH THE SLEEVE!***
6. Slide the base plate and rail section over the sleeve inserts and anchor the post tension bolts through the slotted holes of the base plate and into the sleeve. At all times you should have 2 anchor points per base plate (1 in front & 1 in back).
7. Be sure the base plate is firmly secured to the deck with no gaps on either side of the base plate and the anchor sleeve does not spin in the deck.

Post Tension System Removal Sequence

1. Unlock the locking device. Remove the Switch Rail sections.
2. Release the anchors and remove the base plates.

Counterweight System Installation

1. Layout base plates and Switch Rail sections in accordance with your layout and snap a line to ensure the layout is straight for the application.
2. Place the base plates on the line and install the Switch Rail sections.
3. Make sure that all decals and counterweights are facing the safe work area.
4. Position the swivel clamps 4" to 9" down from the top rail connecting the Switch Rail sections together as a unit.
5. Place 2 - 50# counterweights on each base plate. NOTE: If the roof pitches and a swivel clamp cannot be installed add a 3rd counterweight to that base plate.
6. Tighten the locking device so that the rail section is secured to the base plate. NOTE: Finger tighten the locking device only. DO NOT OVERTIGHTEN.

Counterweight System Removal Sequence

1. Remove the counterweights. Remove the swivel clamps.
2. Unlock the locking device.
3. Remove the rail sections and base plates.

Horizontal & Parapet Clamp System Installation Sequence

1. Verify that the decking structure or parapet wall is structurally capable of supporting the necessary 200# force from any direction.
2. Verify that the clamping structure is free from debris or other elements that would prevent it from being firmly secured.
3. Insert the Switch Rail Section onto the clamping device and finger tighten the knob securing the rail section to the clamping device.
4. Place the clamping device onto the deck or wall and firmly tighten the clamping device to the deck or wall surface. (The clamping device must be firmly secured to the deck surface or wall surface). The horizontal clamp has a slotted hole in the top of the plate for an optional (not required) fastener for added safety if desired. Both clamping devices must be inspected regularly to make sure they are firmly secured to the deck or wall surface.

Horizontal & Parapet Clamp System Removal Sequence

1. Unlock the locking device (knob) from the clamping device.
2. Remove the rail section from the clamping device.
3. Remove the clamping device from the decking structure or wall.

Single Man Non-Penetrating Tie-Off Anchor Installation Sequence

1. Identify a level placement location a minimum of 15' away from the fall hazard. Make sure the system has a smooth, level surface to sit on.
2. Place the center plate on the surface.
3. Insert corner plates over the corner guide tubes making sure the plate is in-between the 2 corner stoppers to prevent any rotation of the corner plates.
4. Install 4 - 50# counterweights on each corner plate. (16 - 50# counterweights total)
5. Secure the counterweights to each corner plate with the knurled knob locking devices. DO NOT OVERTIGHTEN

Single Man Non-Penetrating Tie-Off Anchor Removal Sequence

1. Remove the knurled knob locking devices
2. Remove the counterweights.
3. Remove the 4 corner plates then remove the center plate.

Sheeting Wall Clamp System Installation Sequence

1. Place the Clamp Post over the sheeting wall and firmly tighten the bolts to align the clamp post to a vertical position. Engage the two (2) locking nuts on the inside of the Clamp Post device.
2. IMPORTANT: Post spacing should not exceed 8' on Center!
3. Install the horizontal handrail and knee rail at the desired heights with standard Switch Rail tubing and clamps. Hand rail should be 42" and the knee rail should be 21" above the walking surface. Both dimensions allow for + or - 3" as per OSHA Standard.

Sheeting Wall Clamp System Removal Sequence

1. Remove the Handrails and knee rails.
2. Release the inside locking nuts and remove the post from the sheeting wall.

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