SAFETY POLE

DEDICATED TO GETTING WORKERS HOME SAFELY

INSTALLATION TOOL LIST

Complete Equipment Guide for System Installation

1. HAND TOOLS REQUIRED

Essential Manual Tools for Installation

1.1 Wrenches and Sockets

Proper wrench and socket tools are essential for securing fasteners and anchors during installation. The following tools ensure efficient assembly and proper torque application.

- Two (2) adjustable wrenches OR socket set with 2 wrenches
- 3/4" socket for impact drill (concrete applications)
- 3/8" socket for 1/4" SDS screws (wood floor applications - raised floor plate)

> **Important Note for HLL Systems:** If the Horizontal Lifeline (HLL) system is prior to 2019, you will need a 5/8" socket and wrench to attach the horizontal lifelines to the T-Section.
>
> **Additional Note for 2024 or Older HLL Systems:** If you have horizontal lifelines that are 2024 or older and want to tighten the horizontal lifelines on the ground, have some rope available to attach to the button end of the Horizontal Lifeline. This will allow the HLL to be tightened on the ground.
>
> **Current Standard:** All Horizontal Lifelines now come standard with 20' of extra cable to tighten HLLs on the ground.

1.2 Measuring and Marking Tools

Accurate measurement and marking are critical for proper base placement and system alignment. These tools ensure precision during the installation process.

- Tape measure (25 ft minimum recommended)
- Chalk line or marking pencil for layout
- Level for verifying base placement and alignment

2. POWER TOOLS REQUIRED

Drilling and Fastening Equipment

2.1 For Concrete Slab Installation

Concrete slab installations require specialized drilling equipment to create anchor holes and secure the Safety Pole base system. The following power tools are necessary for proper concrete applications.

- Impact drill with 3/4" socket
- Hilti drill with 1/2" concrete bit (for drilling anchor holes)

> **Note:** Ensure drill bits are sharp and in good condition before each job. Dull bits can cause delays and improper anchor installation.

2.2 For Wood Floor Installation

Wood floor truss system installations utilize different fastening methods compared to concrete applications. The following equipment is required for wood floor installations.

- Impact drill with 3/8" socket for 1/4" x 3 1/2" SDS screws

Tool Maintenance Recommendations

Keep impact drill batteries charged and bring spares to the jobsite. Inspect all power tools before each use and ensure they are in proper working condition. Regular maintenance extends tool life and prevents installation delays.

3. FASTENERS AND HARDWARE

Installation-Specific Components

3.1 Concrete Slab Application

Concrete installations require specific anchors and fasteners to ensure proper load distribution and system stability. The following table outlines the required hardware for concrete applications.

Item	Specification	Quantity Per Pole
Simpson Titan HD Anchors	1/2" x 4"	Four (4)

3.2 Wood Floor Application

Wood floor truss system installations utilize screws and ties to secure the raised floor plate to the structural members. The following table details the required hardware for wood floor applications.

Item	Specification	Quantity
SDS Screws	1/4" x 3 1/2"	12 per raised floor plate (6 on each side per joist)
Simpson Strong Tie	Standard	As needed

4. RIGGING AND LIFTING EQUIPMENT

Heavy Equipment and Safety Gear

4.1 Required Equipment

Proper rigging and lifting equipment is essential for safe installation of the Safety Pole System. The following equipment must be available on site during installation operations.

- Forklift OR crane
- Boom attachment for forklift
- 2" Truss Strap (must be 2" or less to fit through D-rings)

> **Optional (Most Likely Not Needed):** 12 ft A-frame ladder - This is a very optional method and most likely not needed for standard installations.

4.2 Safety Considerations

The truss strap dimension is critical for proper installation and worker safety. Using oversized straps will prevent proper installation and create safety hazards.

Critical Specification

The truss strap MUST be 2" or less in width to properly fit the D-rings on the Safety Pole sections. Verify strap dimensions before beginning lifting operations.

4.3 Jobsite Organization

Efficient jobsite organization improves installation speed and safety. Consider the following recommendations for organizing rigging equipment and staging areas.

- Designate a clear staging area for all rigging equipment
- Store truss straps and rigging equipment together for quick access
- Ensure forklift or crane has adequate clearance and stable ground
- Keep work area clear of obstacles during lifting operations

5. PRE-INSTALLATION PLANNING

Action Plan for Successful Installation

5.1 Planning Checklist

Fast and true installation requires planning. To install the Safety Pole System quickly and correctly, pre-planning is key. Before arriving at the jobsite, ensure you have completed the following planning steps.

Planning Step #1

Pre-planning on how and when the Safety Pole System is going to arrive at the jobsite. Coordinate delivery timing with installation crew availability and site readiness.

Planning Step #2

Ensuring installers have the proper equipment on hand. Verify all tools, fasteners, and rigging equipment are available before beginning work.

Planning Step #3

Pre-planning the best location for the Safety Pole bases and shoe attachments. Consider work area layout, anchor point locations, and HLL configuration requirements.

Planning Step #4

Pre-planning of system removal and transport to the next jobsite. Plan for efficient disassembly and transportation to minimize downtime between installations.

5.2 TIME-SAVING TIPS

Efficiency Recommendations for Installation

Knowing the best location to install the bases, having the correct tools and items on hand can save you important minutes on every job and even hours upon hours each and every week.

- Pre-count fasteners before starting installation
- Have all tools laid out and ready before lifting operations begin
- Assign specific roles to team members (one on ladder, one operating forklift, etc.)
- Keep the Quick Sheet reference guide accessible during installation
- Consult with Safety Pole Manufacturer - Safety Pole can design an implementation plan as part of the partnership to ensure the system synchronizes with your project operations

6. INSTALLATION TYPE REFERENCE

Application-Specific Procedures

6.1 Concrete Slab Installation

When installing on concrete slabs, you will need the Hilti drill to create holes for the Simpson Titan HD anchors. Each base requires four (4) anchors installed securely into the concrete. The impact drill with 3/4" socket is used to tighten the anchors.

> **Procedure:** Drill holes to the proper depth using the Hilti drill with 1/2" concrete bit. Insert Simpson Titan HD anchors and tighten using the impact drill with 3/4" socket. Verify all four anchors are secure before proceeding with pole installation.

6.2 Wood Floor Truss System Installation

When installing on wood floor truss systems, the raised floor plate is secured using 1/4" x 3 1/2" SDS screws driven into the joists. Each raised floor plate requires twelve (12) SDS screws total: six (6) on each side per joist. Simpson Strong Tie connectors may be used for additional reinforcement. Consider floor truss span when planning installation.

> **Procedure:** Position the raised floor plate over the joists. Drive 1/4" x 3 1/2" SDS screws through the plate into the joists using the impact drill with 3/8" socket (6 screws on each side per joist, 12 total per plate). Install Simpson Strong Tie connectors as needed for additional support. Verify all screws are tight and the plate is secure before proceeding.

7. IMPORTANT NOTICES

Safety and Compliance Information

Document Purpose

This tool list does not replace the user instructional manual. Use this as a guide only. Refer to the complete Safety Pole System manual for detailed installation procedures and safety requirements.

Tool Maintenance

Regular maintenance of all tools and equipment is essential for safe and efficient installation operations. Inspect all tools before each use and replace worn or damaged items immediately.

7.1 Contact Information

For questions about tool requirements, installation procedures, or system specifications, contact Safety Pole Inc.

Contact Type	Information
Company	Safety Pole Inc.
Address	712 Corte de Encinitas, Camarillo, CA 93010
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