

# **Stabilization System Specifications**

## **Introduction**

The \_\_\_\_\_ intends to purchase Tensioned Buttress type rescue stabilization equipment. These purchase specifications cover the minimum requirements for a stabilization system to be used by Emergency Responders to assist in rescuing victims from vehicles, machinery, aircraft or collapsed structures.

## **Instructions to Bidders**

The buyer reserves the right to reject bids based on the buyer's interpretation of bidder conformity to specifications. Bidders shall conform as closely as possible to the listed specifications. Exceptions or omissions to the listed specifications shall be itemized on a separate sheet and attached to the bid. Failure to meet these conditions or the listed minimum specifications may result in a rejection of the bid.

## **Specifications**

### **Struts:**

- 1) Strut tubes shall be of a square telescoping construction to provide lateral hole alignment. Tubes shall be manufactured from a polymer composite material containing DuPont™ Kevlar® reinforcement fibers. Tubes shall not conduct electricity. Tubes shall resist, even when scratched, chemical or corrosive attack from water, salt water, petroleum fuels and battery acid. Tubes shall be in a triple telescoping configuration with interlocks to prevent overextension of the tubes past their safe overlap position. Extended and pinned tubes shall be capable of supporting up to 18,000 lbs working load with at least a 2:1 safety factor. Tubes shall be clearly and indelibly labeled on at least two opposing sides with load tables indicating the working load limits related to the extended length of the tubes.
- 2) Struts shall be supplied with a standard head capable of freely rotating in relation to the strut body. The standard head shall be capable of gripping a single link of a 3/8" chain. The standard head shall have a point capable of piercing standard automotive or aircraft sheet metal. The standard head shall have a central flat area with nail notches for anchoring to wood 2x4" or 2x6" boards typically used in wood frame building construction.
- 3) Struts shall be supplied with a standard baseplate which shall be attachable to the strut tube with a quick release pin. The standard baseplate shall have at least six holes sized to accommodate FEMA and Army Corps of Engineers specified 1" diameter pickets. Baseplate end holes shall be sized to accommodate up to three separate strap hooks and capable of allowing a 10,000 lb. strap hook to pass completely through the hole. Baseplates shall have at least 50" of load bearing surface contact with the ground.
- 4) All struts shall be capable of being forcibly extended and collapsed by means of a removable side wind jack with either the standard baseplate or the optional spike foot attached to the strut.

## **Accessories**

The strut system shall have numerous accessories available, including at least:

- 1) Ratchet straps shall be at least 27' long and 2" wide. Straps shall work with a ratchet assembly with an ultimate strength of at least 10,000 lb and a working load of at least 3,333 lb. Straps shall be impregnated with plastic to reduce fraying and glass embedment. Straps shall be colored red to identify them as rescue straps and shall have two red threads running along one side to indicate they are DOT certified.
- 2) Hook Clusters shall consist of a 20,000 lb rated central forged ring with a "T" hook, 3/8" grab hook and an 8" wreckers hook attached.
- 3) A-Frame head with top spikes for gripping wood structures and a lower tongue capable of grabbing a single link of 3/8" chain and supporting other attached tools.
- 4) Screw Jack head shall be capable of manually extending up to 5" from the end of the strut. Screw Jack head shall be capable of independent rotation in relationship to the strut body. Screw Jack head will also retain all of the capabilities of the standard strut head.
- 5) Spike Foot shall be capable of replacing the standard base plate when conditions require. Spike Foot shall have four spikes separated by v-slots capable of engaging horizontal corners. Spike Foot shall have a pair of opposing holes to allow attachment of Tripod safety chain or other attachments to assist in stabilization.
- 6) All accessories shall be supplied in a heavy duty Nylon carry bag with shoulder strap.
- 7) Strut Jack shall be a separate unit and capable of attaching to any TeleCrib™ strut. Strut jack shall have the capability of forcibly extending or collapsing struts with either the standard baseplate or the Spike Foot attached to the base of the strut.
- 8) Tripod Head compliant with OSHA regulations and rated to hold 10,000 lbs (two 'persons'). Tripod Head will have 3 anchor points and 3 lateral tie-off supports.
- 9) The successful bidder shall supply a written Owner's Manual and an instructional DVD with each system.

## **Warranty**

A written warranty shall be provided with the system. Warranty shall cover all equipment furnished by the bidder for a period of five years from the date of purchase against any defects in material or workmanship. This warranty does not cover damage caused by or failure of any equipment due to normal wear and tear, overload or misuse. Warrantor obligation under this warranty is limited to repair or replacement of material at no cost.

## **Manufacturer List**

Equipment specified by this specification shall be Rescue 42 Advanced Kevlar® Composite TeleCrib™ Strut System or equal.