

BUCKINGHAM MFG

P/N 3816L TOWER RESCUE BLOCKS - USE INSTRUCTIONS

Warning: Do not use this product if you cannot understand and follow the instructions and warnings that come with it and complete all necessary functions.

Note: (Hardware / material colors may vary from that shown below)



Fig.1

P/N 3816L As Packaged

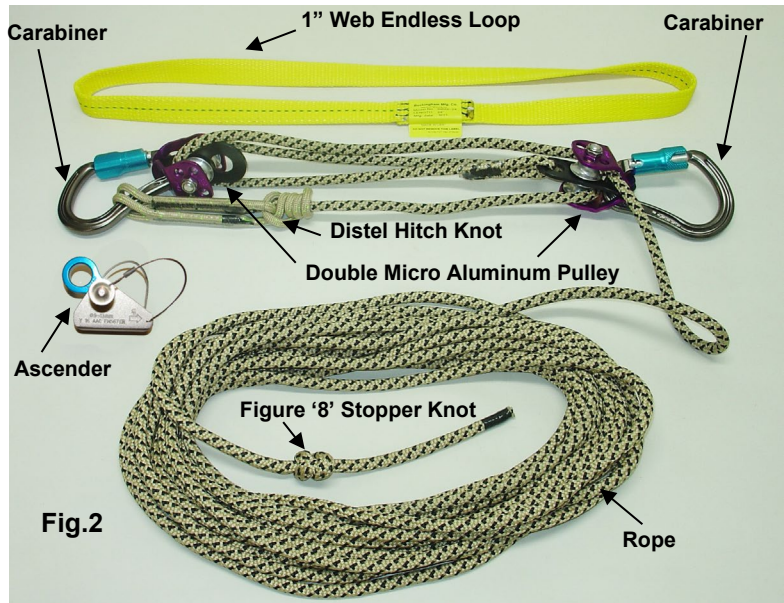


Fig.2

WARNINGS:

- Read, understand, and follow all instructions and warnings before using this equipment. Failure to do so could result in serious injury, or death.
- This equipment is intended for use by properly trained professionals only. Do not use without proper training.
- Please consult with your physician prior to using this product. Do not use this product under the influence of drugs or alcohol.
- Be sure load bearing structure is capable of supporting anchor point.
- When raising or lowering a person, stand in a position where the movement of the load can be observed to its destination.
- Ensure that no one is under the person while they are being raised, lowered, or positioned with the Tower Rescue Blocks.
- Never stand directly beneath a person being raised.
- Do not permit the rope to slip through the hands. Use a hand over hand procedure to control the person being raised or lowered.
- Inspect the Tower Rescue Block system components prior to use and at regular intervals, to be sure they are acceptable for further use.
- Cease use and REPLACE IMMEDIATELY, rope that is frayed, melted, picked, hockled, cut, nicked, or unraveling.
- Ensure the Distel Hitch Knot is correctly tied by a qualified individual is and is not unraveled/untied/unsecure.
- Ensure all components are clean and free of foreign debris.
- Extreme care should be taken when using a wet rope line, as it is more difficult to grip it securely.
- DO NOT USE a wet rope line where there is the possibility of it contacting an electrical power source.
- This system is designed for use by a person with a maximum weight of 350 lbs. fully equipped.
- This system is not intended for fall arrest applications which require equipment subjected to impact loading be destroyed.
- Ensure a Figure '8' Stopper Knot is tied into the end of the main rope line.



Fig.3a



Fig.3b

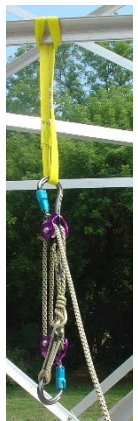


Fig.3c

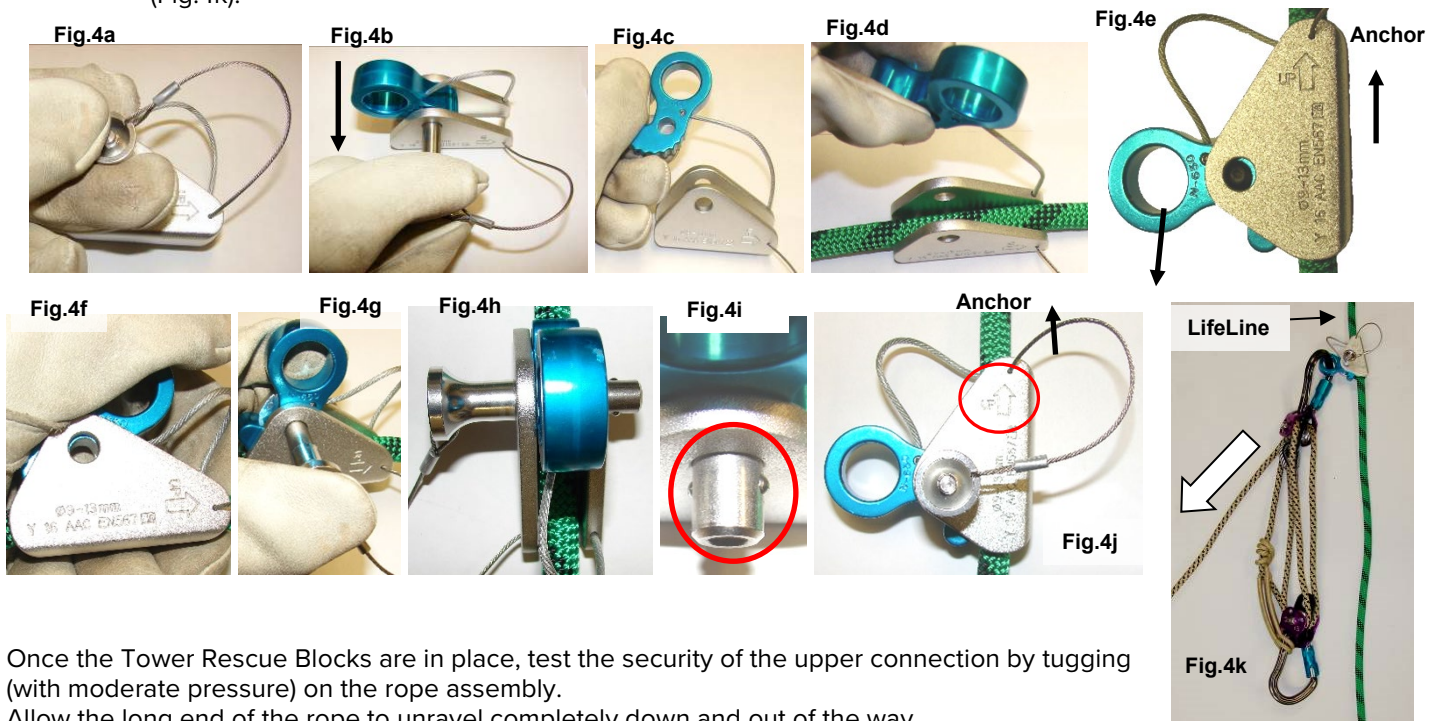
- Never alter Fall Protection Equipment in any way.
- Do not use Tower Rescue Blocks for anything other than its intended use of lifting/lowering an injured individual.

INSTRUCTIONS:

1. These Tower Rescue Blocks are intended to gain a 4:1 weight ratio advantage for ease of lifting an injured individual. The entire system (which has a limited lifting distance) is contained in a small bag (Fig. 1). The complete set of parts are shown in Fig. 2. This system is intended to lift an injured individual. Therefore, a separate means of lowering the injured individual may be required.

3816L Inst.doc
PN: 230301, Rev. 2/15/17

2. Create a new anchor point utilizing either the 1" Web Endless Loop or the Ascender provided as follows:
 - A. Web Endless Loop: connect the loop around a suitable supporting structure using a half-hitch technique (Fig.3a-3c).
 - B. Ascender: connect it to the injured individuals (7/16" – 1/2" Only) Lifeline
 - a. Press the release button on the end of the retainer pin (Fig.4a).
 - b. Slide the retainer pin out (Fig.4b).
 - c. Remove the cam (Fig.4c).
 - d. Insert the Ascender base onto the injured individuals Lifeline above their current connection point (Fig.4d). Note: Be sure to attach the base onto the Lifeline such that the cam will press into the rope when pressure is applied to the eyelet and the 'UP' arrow of the ascender base faces the Anchor point (Fig.4e).
 - e. Align the cam in the base, insert the retainer pin through the first base side hole, the cam and then the opposite base hole (Fig.4f – 4g).
 - f. Ensure the retainer pin is completely inserted through both sides of the base and locked in place by the detent balls located at the end of the pin (Fig.4h - 4i).
 - g. The completed assembly will look like (Fig. 4j).
 - h. Connect the Carabiner & Micro Pulley (opposite of the Distel Hitch Knot side) to the eyelet on the Ascender (Fig.4k).



3. Once the Tower Rescue Blocks are in place, test the security of the upper connection by tugging (with moderate pressure) on the rope assembly.
4. Allow the long end of the rope to unravel completely down and out of the way.
5. Loosen the Distel Hitch Knot by grabbing the Hitch Knot loops that are wrapped around the main rope line and push the knot downwards towards the bottom pulley.
6. Pull down on the bottom pulley Carabiner until you are able to connect the bottom Carabiner to the injured individual's harness D-Ring/Loop attachment. This may require manipulating the Distel Hitch Knot in order to get the rescue blocks to the appropriate length.
Note: The Distel Hitch Knot is intended to grip onto the main rope line such that the injured individual can be suspended, if required.
7. Once the injured individual is connected, re-check to ensure that the Carabiners are properly connected and that their gates are completely closed.

3816L Inst.doc
PN: 230301, (Rev. 7/17/24)

8. Ensure that the injured individual is correctly rigged/attached.
9. The injured individual should now be able to be raised by pulling downward on the free end of the Tower Rescue Blocks main rope (see Fig.3c or 4k—white arrows).
10. Once the tension from the injured individual's lanyard is removed, remove the injured individual's lanyard connector.
11. Carefully lower the injured individual using the Tower Rescue Blocks (Note: If the Tower Rescue Block system does not allow the individual to be lowered, the injured individual must be raised slightly and the Distel Hitch Knot pushed downward toward the bottom pulley while lowering.)
12. Follow the instructions provided with the safety descent line or rescue device for lowering the injured individual.
13. In the event that the Distel Hitch Knot is not required, precautions **MUST BE TAKEN** that the injured individual shall not free fall, should the rope be released.
14. Prior to reusing, the Distel Hitch Knot shall be re-tied onto the main line (by a competent person), as shown in figure 2, and Buckingham instruction '**DISTEL HITCH KNOT-TYING INSTRUCTIONS**' (230297) included below. Care **MUST BE** taken to tie this knot onto the correct portion of the Rescue Block main line. The knot shall be tied onto the main line by tracing from the main rope coil, through the upper pulley, then through the bottom pulley. The Distel Hitch Knot shall be positioned on the main line where it protrudes through the bottom pulley.
15. After tying the Distel Hitch Knot, place both stitched eyelets onto the Carabiner on the bottom pulley (Fig.2).
16. Once the knot is tied and the Distel Hitch Knot eyelets are connected to the Carabiner, inspect the operation of the Tower Rescue Blocks to ensure that they inhibit a downward movement when moderate force is applied to the lower pulley.

INSPECTION (Should Include But Not Be Limited To):

- Inspect the ropes. If they are frayed, melted, picked, hockled, cut, nicked, or unraveling, cease use and REPLACE IMMEDIATELY!!!
- Inspect the 3 stitched eye rope ends for broken threads or cuts to the shrink tubing. If any defect is found, cease use and REPLACE IMMEDIATELY!!!
- Inspect the Carabiners for proper function and that there are no nicks, cracks, or dents. Be sure to inspect that the gates (keepers) completely close and lock in place. If any defect is found, cease use and REPLACE IMMEDIATELY!!!
- Inspect the Double Micro Pulleys for proper function and that there are no nicks, cracks, or dents. Carefully inspect that the lock nuts are properly seated onto the shaft. The nuts should allow a very small portion of the shaft threads to come through the outer face of the nut. If any defect is found, cease use and REPLACE IMMEDIATELY!!!
- Inspect the Ascender for proper function and that there are no nicks, cracks, or dents. Carefully inspect that the retainer pin inhibits the removal and secure attachment of the cam. Ensure that Ascender has the steel cable attached to the cam and the base. Inspect that the small diameter rope is attached to the axle and the base. If any defect is found, cease use and REPLACE IMMEDIATELY!!!
- Inspect that there is a Figure '8' Stopper Knot tied into the end of the main rope line. If the stopper knot is missing, tie one (Figure '8' Stopper Knot) within 6" of the free end of the rope.
- A copy of these instructions shall be left inside the bag to assist the user.

CLEANING/STORAGE:

Clean all items with mild soap and water. Allow all items to dry completely in air (not in sunlight) before use.

The Ascender and Double Micro Pulleys may be dipped into water to attempt to loosen any debris which may be caught inside. Allow all items to dry completely in air (not in sunlight) before use.

Lubricate the carabiner gate (keeper) pivot points and pulley axles with small amounts of WD-40 or other comparable light weight oil.

Your equipment should be stored and transported so that it does not come into contact with moisture, ultra violet rays, extreme temperatures, or chemical agents. Proper maintenance, storage, and transportation of your equipment will prolong its useful life and contribute toward its performance.

DISTEL HITCH KNOT-TYING INSTRUCTIONS

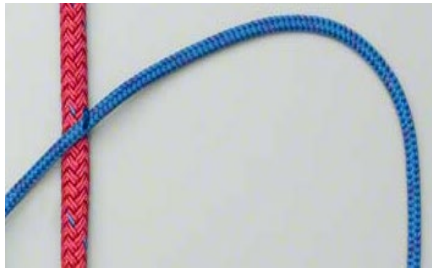
To tie a Distel Hitch Knot, follow steps 1 through 12 below.

The Distel Hitch rope MUST BE of SMALLER diameter than the main rope to which it is being attached.

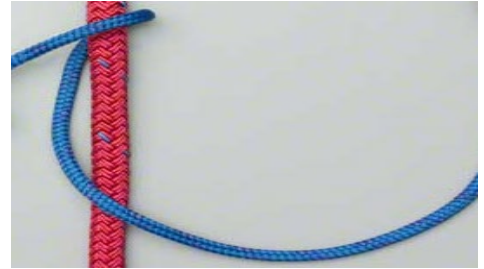
Step 1:



Step 2:



Step 3:



Step 4:



Step 5:



Step 6:



Step 7:



Step 8:



Step 9:



Step 10:



Step 11:



Step 12:



Step 13 [Completed Distel Hitch Knot]

--The Distel Hitch is intended to stop movement along the main line when the two tail ends are pulled taught.

--Movement along the main line is accomplished by creating slack in the Distel Hitch wraps (normally by pushing upward on the tail ends).

Note:
Distel Hitch tail ends may vary in length depending upon the application for which the knot is desired to be used.



STATEMENT of OBSOLESCENCE:

Precise “useful life expectancy” or “shelf life” for this product is not specified, as the degree of use, conditions of use, and the degree of care and storage determines useful life. All users maintain responsibility to select proper equipment for the job, be properly trained in its use, and ensure all personnel support equipment passes inspection before each use. Upon evidence of defects, damage or deterioration, all equipment shall be removed from service immediately and tagged or marked as unusable or destroyed. Additionally, all equipment shall be inspected on a regular basis not to exceed one year by a Competent Person, as defined by OSHA/ANSI, to verify that the equipment is safe for use. In the event of any question or concern regarding the condition of such equipment, users shall remove the equipment from service for further inspection. All users must comply with OSHA/ANSI/ASTM standards prior to and in using such equipment. For more information regarding safe and appropriate use of equipment, please contact Buckingham Manufacturing at 1-800-937-2825.

INTERNATIONAL USERS:

Notwithstanding the above, please know that certain international jurisdictions require manufacturers of equipment to provide customers with a maximum useful lifespan (sometimes referred to as a “Statement of Obsolescence”). To the extent required, Buckingham personal protective equipment manufactured from synthetic fiber materials including but not limited to items such as webbing and/or rope are subject to a maximum useful lifespan of ten (10) years from the date of manufacture. As stated above proper usage, storage, maintenance, and care impacts the useful lifespan of equipment. Extreme circumstances may require that product must be retired after only one use. This statement is made in conformance and compliance with BS EN 365:2004. International users must ensure that product inspections are completed by Competent Persons as defined by international standards including but not limited to British Standard (“BS”). If equipment fails any inspections, it must be immediately withdrawn from service and destroyed. For more information regarding safe and appropriate use of equipment, please contact Buckingham Manufacturing at 1-800-937-2825.

OUR GUARANTEE:

We guarantee the equipment we manufacture to be free from defects in material and workmanship. We will repair any equipment deemed to be defective which is returned to us by the original purchaser. However, this guarantee is void if any product is changed or altered in any way, or if the product is used in a manner other than for which it is intended. This express guarantee supersedes all other expressed or implied guarantees, obligations or liabilities. There are no implied warranties of merchantability or fitness for a particular purpose and as such, all implied warranties are specifically disclaimed.

LIMITATION ON LIABILITY:

In no event will Buckingham or buyer be liable to the other for lost revenues, lost profits or any other indirect, consequential, special or punitive losses or damages, however caused, whether in action for breach of contract, strict liability, tort, or otherwise, even if advised of the possibility of such losses or damages. In no event will Buckingham’s liability exceed the total amount paid by the buyer to Buckingham for the product or equipment giving rise to such claim(s).

Please see other terms and conditions relating to this product at <https://buckinghammfg.com/terms-conditions/>

REGISTRATION:

Before use of the product, ensure to register and confirm the product at www.buckinghammfg.com/register.

BUCKINGHAM MFG.
Binghamton, NY
1-800-937-2825
www.buckinghammfg.com