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SOLUS Emergency Egress system

User instructions

RSS-US 3

Certified to the ANSI/ASSP Z359.4 current addition to 600'

130-310 pounds

**Must be used with an ANSI/ASSE, NFPA harness with a front attachment point**

The SOLUS system is an emergency egress system for self-rescue and assisted rescue for workers at heights.

The high temperature escape line is 100% Kevlar and has a fire rated of over 900 degrees F. this material does not rot, mold, or mildew. Kevlar does not conduct electricity which makes this the idea product for workers that may have fire and or electrical emergencies at heights.

The entire system is packaged and assembled ready for use. The deployment flap is detachable and can be used for edge protection.

The descender is pre-rigged to the escape webbing with a Kevlar lanyard. This is a one-time use only in an emergency. Training units can be used more than once with inspection after every use. Any part of the system that does not meet the inspection criteria must be put out of service.

The descender is not field serviceable and should not be opened or manipulated in any way. This auto locking descender will lock and not travel when hands free and is a stop and go device. The brake hand determines the speed control. Never let go of the brake hand while pushing the lever to descend.

Our 600' SOLUS system weighs 13.5 pounds and comes in several storage configurations to meet the end user requirements. 300' SOLUS system weighs 6.75 pounds. Custom lengths are available from 50' to 600'.

The SOLUS egress system can only be used in conjunction with an ANSI/ASSP, NFPA certified harness with a front attachment point. Please contact RSS-US if you have any questions.

If the system is utilized in an emergency RSS-US will replace the system for free with proper documentation of the event.

For self-rescue for workers simple pull the deployment tab to access the anchor carabiner, descender, and carabiner to attach to front attachment point of the harness. If edge protection is need remove the

deployment flap for protection. Verify all connections are secure and move to egress point. Slowly put weight on the system while holding the brake end of the escape line. Push on the lever on the descending to lower yourself to safety. Control your descent with the brake hand allowing the escape webbing to move through the hand.

For assisted rescue or pick off rescue, invert the anchor carabiner to attached to the victim front attachment point. Connect the opposing carabiner to an anchor point. The system should be in the reverse direction compared to self-rescue. A redirect is recommended if the descender is at or above the rescuers head to position the break end of the escape line in proper orientation.

Manufacturer's user instructions shall be provided to the rescuer

Rescuers need to have a rescue plan and the means at hand to implement it when using this system

### **! WARNING !**

**FOLOW ALL MAUFACTURER'S INSTRUCTIONS FAILURE TO FOLLOW INSTRUCTIOS**

**COULD RESULT IN INJURY OR DEATH**

If the system is used it must be placed out of service and not reused. There is no field repackaging or servicing of the system.

No repairs or modifications are to be made to this system

Any altering, opening of the descending device or misuse will void all warranties and could result in injury or death.

Use only RSS-US 7 1/16" tubular Kevlar webbing only. Any substitution could result in injury or death.

Do not substitute any part or material in this system. Any substitution could result in injury or death.

Maximum descent rate is 6m/sec. when controlled by brake hand.

When using around sharp edges or abrasive surfaces utilize the removable deployment flap for protection from cuts.

Keep away from moving machinery and electrical hazards.

Do not expose to chemicals, high heat, severe cold or other harsh environments which may produce a harmful effect. Contact RIT if in doubt.

The descent energy rating is determined by  $E = W \times H \times N$ ; where E = Descent Energy Rating (foot-pounds); W = Test Weight (310 pounds (141kg)); H = Descent Height (feet); N = Number of Descents. So, in this case, would need to be 186,000 foot-pounds = 310 pounds x 600 feet x 1 descent

Anchorage selected for rescue systems shall have a strength capable of sustaining static loads, applied in the directions permitted by the rescue system of at least 3,100 pounds (13.8kN) for connection of rescue system only, or meet a factor of safety of 5:1 based on the static load placed on the system when the system is designed, installed, and used under the supervision of a qualified person. Persons engaged in rescue operations that are exposed to a fall hazard must be provided an anchorage suitable for fall arrest in accordance with ANSI/ASSE Z359.1.

Anchorage connectors shall not be attached to anchorages where such attachment would reduce the anchorage system strength below the applicable level set forth in 7.2.2 or reduce the anchorage strength below the allowable level set by applicable structural codes. A suitable anchorage connector shall be used for rigging the connection of lanyards and lifelines to structural members. A lanyard shall not be connected back onto itself for use as an anchorage connector unless designed for this purpose.

Anchorage connections shall be stabilized to prevent unwanted movement or disengagement of the rescue system from the anchorage. Verify system connections by pre-tensioning the system before applying the intended load.

Refer to ANSI/ASSP Z359.1 and ANSI/ASSP Z359.4 standards and applicable regulations governing safe rescue operations.

## Inspection

This emergency egress system is Certified to the ANIS/ASSP 359.4 and is for single use only. If used for an actual emergency egress situation, the entire system must be placed out of service. If the system is deployed the entire system must be returned to RIT for inspection and repacking.

- ✓ **Visually inspect all components of the system.**
- ✓ **Gather all components of the system to a clean and dry location.**
- ✓ **Use a soft brush and vacuum to remove all dust and debris from the components.**

If unit is wet lay flat to dry.

- ✓ **Do not lay in direct sunlight.**
- ✓ **Do not use drying devices.**
- ✓ **Do not use UV lamps.**

To clean, use a very mild detergent and cool water. Use a soft brush and cloth.

- ✓ **Do not use bleach, ammonia, or any harsh cleaning chemicals.**
- ✓ **Do not place in Washing Machine.**

## Inspect all components as follows:

**Escape Line (includes Kevlar Rope and Webbing):** The escape line in this system is specifically packed. To inspect the escape line, open the pack and look at the end folds inside. The escape line should be very uniform and not be pulled out. *Training units with multiple jumps will have a "cat tail" appearance or small fibers standing out. This is normal and will not affect the function or use of the system.*

**Hardware:** Visually inspect all hardware for cracks, scratches, discoloration, or deformity. All movable parts should be free and operate easily. Clean with a damp cloth and allow to air dry. Do not oil or lubricate any part of the system. **If any hardware does not pass the visual inspection, the entire system must be placed out of service.**

**Harness/Belt Webbing:** Visually inspect the harness webbing and stitching by running the webbing through your hands. Bend the webbing around your hand to inspect the inner portion of the web. Be sure to check both sides. Look for discoloration, abrasions, cuts, unraveling or excessive wear. **If the harness/belt webbing does not pass inspection, the entire system must be placed out of service.**

**Bag, rope cartridge and sleeve:** Visually inspect the entire unit for discoloration, rips, tears, stitching and seams. Remove from service if any portion does not pass inspection.

### NOTE:

**All materials in this system are like other fire rated materials. If other garments are damaged or discolored, then it is possible the system could be damaged as well. If you are unsure of the integrity of the system or its components – DO NOT USE! PLACE OUT OF SERVICE UNTIL FURTHER INSPECTION CAN BE CONDUCTED!!!**

