

# HOOKS & CARABINERS INSTRUCTIONS

Do not skip this instruction manual. Read the instruction manual carefully before using the equipment. If failed in doing so it may cause serious injury or Death.

www.frontlinefall.com

The Instruction applies to the following MODELS:

MODEL	MATERIAL	FINISH	GATE STRENGTH	PROOF LOAD	MINIMUM BREAKING STRENGTH		GATE OPENING	APPROX. WEIGHT
					MAJOR	MINOR		
			GATE FACE GATE SIDE	LBS/ kN	LBS/ kN	LBS/ kN	INCH/ MM	LBS/ GMS
CSQ184	Alloy Steel	Zinc Plated Galvanized	3600 lbs 3600 lbs	3600 lbs 16 kN	5000 lbs 23 kN	3600 lbs 16 kN	0.84 Inch 21 mm	0.54 lbs 265.09 gms
CSQ117	Alloy Steel	Zinc Plated Galvanized	3600 lbs 3600 lbs	3600 lbs 16 kN	5000 lbs 23 kN	3600 lbs 16 kN	0.67 Inch 17 mm	0.35 lbs 160 gms
HSSW50S	Alloy Steel	Zinc Plated Galvanized	3600 lbs 3600 lbs	3600 lbs 16 kN	5000 lbs 23 kN	N/A	0.79 Inch 20 mm	1.12 lbs 522 gms

This manual must be read and understood in its entirety and used as part of fall protection training program as required by OSHA or any state regularity agency. These instructions are intended to meet the manufacturer instructions as required by ANSI Z 359.12 and OSHA 1926. The user must fully understand the proper equipment use and limitations.

### 1.0 MARKINGS:

Markings read: Warning: Locking snap hook reduces but does not eliminate possibility of unintentional disengagement. Read all instructions. Made in India. Proof load 5,000 lbs. Inspect before each use. Gate must close. & must lock. Light passing through gate holes indicates snap hook is not locked, BS 5000 lbs (23kN). Conforms to ANSI Z359.12.

KCE0120 23KN 5000LBS EN 362:2004T  
ANSI Z359.12 (09) Gate 3600 LBS PT

### 2.0 GENERAL REQUIREMENTS, WARNINGS AND LIMITATIONS:

The Equipment is designed for use as a part of a personal fall protection system. Components must not be used for any other operation other than that which it has been designed and approved. Fall Arrest system are designed to comply with OSHA. Fall Restraint System must be designed by a Qualified Person, and must be installed and used under the supervision of a competent person.

All authorized persons/users must refer the regulations governing occupational safety, as well as applicable ANSI or CSA standards. Please refer to product labeling for information on specific OSHA regulations, and ANSI and CSA standards met by product.

Consult a doctor if there is any reason to doubt a user's ability to withstand and safely absorb fall arrest forces. Age, fitness, health conditions can seriously affect the worker a fall occur. Pregnant Women and minors should not use this equipment.

Proper precautions should always be taken to remove any obstructions, debris, material, or other recognized hazards from the work area that could cause injuries or interfere with the operation of the system. All equipment must be inspected before each use according to the manufacturer's instructions. All equipment should be inspected by a qualified person on a regular basis.

To minimize the potential for accidental disengagement, a competent person must ensure system compatibility.

Equipment must not be altered in any way. Repairs must be performed only by the Manufacturer, or persons or entities authorized in writing by the manufacturer.

Any product exhibiting deformities, unusual wear, or deterioration must be immediately discarded. Any equipment subject to a fall must be removed from service. The authorized person/user shall have a rescue plan and the means at hand to implement it when using this equipment. Never use fall protection equipment for purposes other than those for which it was designed.

Fall protection equipment should never be used for towing or hoisting. All synthetic material must be protected from slag, hot sparks, open flames, or other heat sources. The use of heat resistant materials is recommended in these applications.

Never use natural materials (manila, cotton, etc.) as part of a fall protection system.

Do not expose this equipment to chemicals which may have a harmful effect on the materials used to construct it. Be especially aware of caustic environment, or those that contain high levels of organic acids or bases. If you are uncertain about the safe operation of this equipment in any environment, contact Frontline for instructions.

Do not use the equipment around moving machinery or electrical hazards.

### 3.0 RESCUE PLAN:

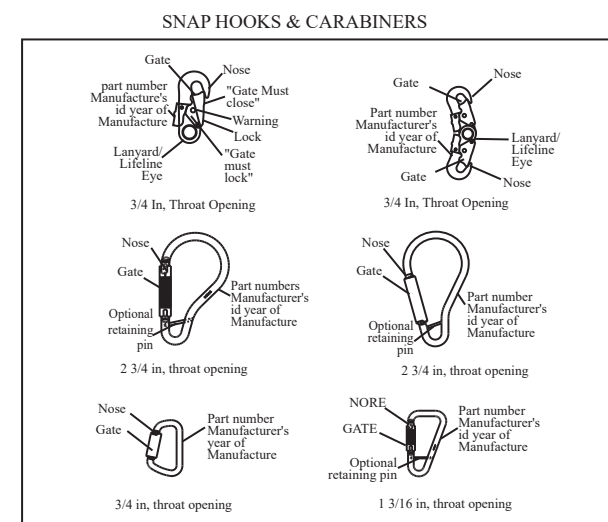
Rescue operation must be performed by the trained and competent personal. The rescue operation must be performed

under the supervision of the rescue expert team or personal. It is advised that while working on site work in pairs. Before going for the work the user must have the rescue plan according to the work.

### 4.0 IF EQUIPMENT IS SUBJECTED TO A FALL:

Remove the equipment from service immediately if it has been subjected to the forces of a fall arrest. Contact your distributor or Frontline about policies regarding replacement of Frontline components involved in a fall.

### 5.0 SPECIFIC INSTRUCTIONS:



### 5.1 DESCRIPTION:

**Snap Hooks:** Snap hooks are self-closing/self-locking connectors. The snap hooks provide an eye for permanent attachment of a lifeline or lanyard.

**Carabiners:** The self-locking carabiners are self-closing/self-locking connectors. All carabiners can be supplied with a captive pin that may be used to remain permanently connected to lanyard or lifeline.

### 5.2 DEFINITIONS:

**Anchorage:** A properly selected means, such as a structural beam or member, to which the system is anchored.

**Anchorage Connector:** A component, such as a connector or subsystem, specifically intended for coupling the system to an anchorage.

**Connector:** A component or element used to couple parts of the system together, such as a lifeline to an anchorage using a carabiner as an anchorage connector.

**Component:** An assembly of parts which cannot be disassembled without mutilating, or without the use of special tools, intended to perform one function in the system. Examples of components include a full body harness, lanyard, and connector.

**WARNING:** This product is part of a personal restraint, work positioning, suspension, or rescue system. These instructions must be provided to the user and rescuer. The user must read and understand these instructions or have them explained to them before using this equipment. The user must read and follow the manufacturer's instructions for each component or part of the complete system. Manufacturer's instructions must be followed for proper use and maintenance of this product. Alterations or misuse of this product or failure to follow instructions may result in serious injury or death.

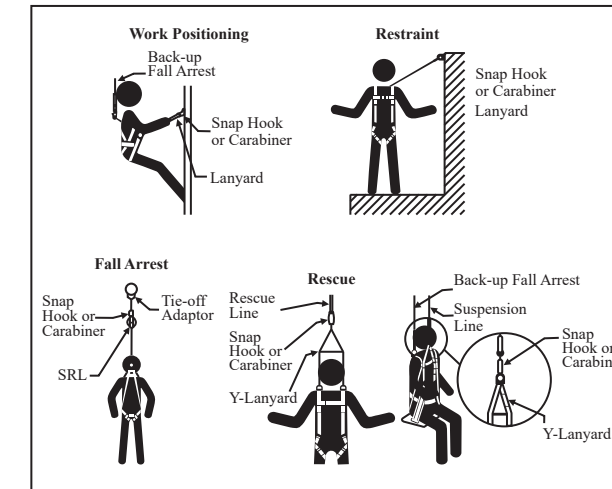
**IMPORTANT:** If you have questions on the use, care, or suitability for use of this safety equipment, contact Frontline

### 5.3 APPLICATIONS:

**5.3.1 PURPOSE:** Frontline Snap Hooks and Carabiners are designed to be used as anchorage connectors or connectors for fall arrest, restraint, work positioning, suspension, or rescue systems. Following are descriptions of these applications.

- A. Fall Arrest:** Fall arrest systems typically include a full body harness and a connecting subsystem, such as a self retracting lifeline. Maximum permissible free fall is 6 feet. This type of system is used where a free fall is possible before the fall is arrested.
- B. Restraint:** Restraint systems typically include a full body harness and a lanyard or restraint line used to restrain the user from reaching a fall hazard. This type of system is used where no vertical free fall is possible.
- C. Work Positioning:** Work positioning systems typically include a full body harness and lanyard to position or support the user at the work position. Maximum permissible free fall is 2 feet.
- D. Suspension:** Suspension systems typically include a full body harness, chair, and lanyard that is used to suspend or transport the user vertically.
- E. Rescue:** Rescue systems typically include a full body harness, and a connecting subsystem, such as a lanyard, that is used to retrieve a victim in a rescue application.

### SNAP HOOKS & CARABINERS APPLICATIONS:



**WARNING:** Do not use these snap hooks or carabiners for material handling applications.

### 5.4 LIMITATIONS:

The following application limitations must be considered before using this product:

- A. Compatibility:** These snap hooks and carabiners must be connected to a compatible connection, such as a properly sized D-ring. Failure to do so could cause disengagement (roll-out), or damage to snap hook or carabiner. Self locking snap hooks and carabiners reduce, but cannot eliminate, the possibility of roll-out. See Figure below for examples of correct and incorrect connections. See below pic
- B. Capacity:** These snap hooks and carabiners are designed for use by persons with a combined weight (person, clothing, tools, etc.) of no more than 420 lbs. Only one personal protective system may be connected to the connectors/anchorage connectors at any time except for emergency situations.
- C. Personal Fall Arrest system:** Personal fall arrest systems (PFAS) used with these snap hooks and carabiners must meet the system requirements given in section 8.0.
- D. Free Fall:** PFAS used with these snap hooks and carabiners must be rigged in such a way as to limit the free fall to 6 feet (see ANSI Z359.1) or 12 feet (see ANSI Z 359.13). See associated connecting subsystem manufacturer's instructions for further information.
- E. Fall Clearance:** Ensure that enough clearance exists in your fall path to prevent striking an object. The amount of clearance needed is dependent upon the type of connecting subsystem used (energy absorbing lanyard, self retracting lifeline, etc.), and the anchorage location. Refer to manufacturer's instructions of the connecting subsystem or component for more information on fall clearance.
- F. Restraint, Work Positioning, Suspension, And Rescue systems:** Restraint, work positioning, suspension, and rescue systems selected for use with these snap hooks and carabiners must meet the requirements given in section 8.0.
- G. Physical And Environmental Hazards:** Use of this equipment in areas with physical or environmental hazard may require additional precautions to reduce the possibility of injury to the user or damage to the equipment. Hazards may include, but are not limited to: heat, severe cold, chemicals, corrosive environments, high voltage power lines, gases, moving machinery, sharp edges and abrasive edges. Contact Frontline if you have any questions about using this equipment where physical or environmental hazards exists.
- H. Corrosion:** Use near seawater or other corrosive environments may require more frequent inspections or servicing to ensure corrosion damage is not affecting the performance of the product.
- I. Chemical Hazards:** Solutions containing acid or caustic chemicals, especially at elevated temperatures, may cause damage to this equipment. Consult Frontline if doubt exists concerning installing this equipment where chemical hazards are present.
- J. Electrical Hazards:** Do not install snap hooks or carabiners where they, or the user, may come into contact with electrical power lines.

