



Technical Data Sheet for Sky Genie Full Body Harnesses (Aether, Apollo, Helios, HF-QC-RS-LP)



FAILURE TO FOLLOW ALL INSTRUCTIONS COULD LEAD TO SERIOUS INJURY OR DEATH!

It is imperative that all of the manufacturer's instructions be provided to the user. The user must read and fully understand all instructions before attempting to use this equipment.

These instructions are intended to meet the Manufacturer's Instructions as required by ANSI Z359.1. **Equipment must not be installed, operated or inspected by anyone who does not understand this Owner's Manual.** Failure to observe these instructions could result in serious injury or death. **Proper storage and maintenance is required of to maintain the equipment's durability.** When not in use, store equipment out of direct sunlight in a cool, dry place where it will not be affected by heat, excessive moisture, or chemical vapors. **Avoid exposure to chemicals which may produce a harmful effect; consult a Sky Genie representative if you have any doubt.** Combinations of components or subsystems which may affect or interfere with the safe function of each other can result in injury or death. **Alterations to equipment or misuse of equipment could result in injury or death.** Avoid using the equipment around moving machinery and electrical hazards. Employers are to provide a plan entailing means of rescue and evacuation should a fall occur and provide the means at hand to implement it. **Avoid contact with sharp edges or abrasive surfaces.** Any Sky Genie equipment subjected to the forces of arresting a fall **MUST** be removed from field service immediately.

Components

All webbing used in Sky Genie Harnesses, Body Belts, Lanyards, Shock Absorbers, Bosun's Chairs and Anchor Connectors is made of nylon or polyester. All connectors used are made of steel and meet or exceed ANSI Z359 standards. Bosun's Chairs seats are made of wood. D-rings and O-rings are capable of withstanding a tensile load of 5,000 pounds, and are proof load tested to 3,600 lbs. Buckles and adjusters are capable of withstanding a minimum tensile load of 4,000 pounds. All snaphooks and carabiners are proof load tested to 3,600 pounds and are capable of withstanding a tensile load of 5,000 pounds. All snaphooks and carabiners are self-closing and self-locking.

When used according to instruction specifications, this product meets or exceeds all applicable ANSI Z359.1-2007 standards for fall protection.



Fall Arrest: Sky Genie Full Body Harnesses may be used to support a **MAXIMUM 1** personal fall arrest system (PFAS) for use in Fall Arrest applications. Structure must withstand loads applied in the directions permitted by the system of at least 5,000 lbs. Maximum free fall is 6'. Capacity range for shock-absorbing lanyards: 130-310lbs. Applicable D-ring: Dorsal.



Restraint: Sky Genie Full Body Harnesses may be used in Restraint applications. Restraint systems prevent workers from reaching the leading edge of a fall hazard. Always account for fully deployed length of lanyards. Structure must be capable of withstanding loads applied in the directions permitted by the system of at least 1,000 pounds. No free fall is permitted. Restraint systems may only be used on surfaces with slopes of 4/12 (vertical/horizontal). Applicable D-Rings: Dorsal, Chest.



Positioning: When paired with a BE-PO Positioning Belt, Sky Genie Full Body Harnesses can be used in Work Positioning applications which allow a worker to be supported while in suspension and work freely with both hands. Structure must be capable of withstanding loads of 3,000lbs as applied by positioning system. Maximum free fall allowed is 2'. Applicable D-Rings: Side.



Suspension: Used to suspend a worker in a work area where no other means of support is available. **NOT FOR FALL ARREST.** An independent fall arrest system attached to an OSHA compliant anchorage must be used with a suspension system.



Retrieval: Preplanning for retrieval in the event of a fall should be taken into consideration when developing a proactive fall management program.



BODY HARNESS ANSI CLASS III, OSHA

Used for positioning, restraint or fall arrest. Body harnesses distribute the fall arresting forces throughout a large area of the body. When used for fall arrest an approved energy absorber should be used whenever possible. If conditions do not allow for the use of an energy absorber, the system must be used so that forces imposed on the body do not exceed OSHA'S limit of 1800 pounds. **Expected harness stretch is 6", make sure this distance is taken into account when calculating the clearance required below a worker where there is a possibility of falling**



BODY BELTS ANSI CLASS I, OSHA

Used for positioning or restraint only. **NOT FOR FALL ARREST!**



CHEST HARNESSES CLASS II, OSHA

Chest Harnesses are used when there are only limited fall hazards (no vertical free fall hazard), or for retrieving persons such as removal of persons from a tank or a bin. **NOT FOR FALL ARREST!**



SUSPENSION BELTS ANSI CLASS IV, OSHA

Used to suspend a worker in a work area where no other means of support is available. **NOT FOR FALL ARREST.** An independent fall arrest system attached to an OSHA compliant anchorage must be used with a suspension system.

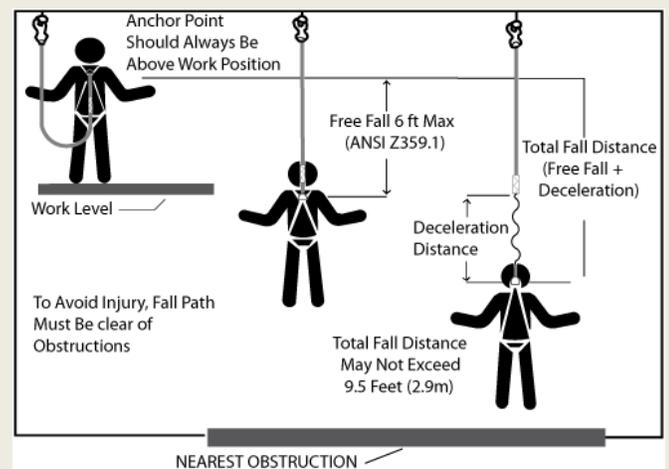


WEB LANYARD

Used for positioning or restraint. Not to be used for fall arrest unless an energy absorber is used. Web lanyards are not used for fall arrest since fall arrest forces will exceed OSHA'S maximum allowable arresting force of 1800 pounds.

FALL CLEARANCE

When calculating fall clearance, account for a minimum 3' safety factor, deceleration distance, user height, length of lanyard, and all other applicable factors. To avoid injury, ensure fall path is clear of all obstructions. Make considerations prior to installation or use for eliminating all swing fall hazards. Swing falls occur when the anchor is not directly above the location where a fall occurs. Never allow for more than 6' Free Fall.



ANCHORAGE

Anchorage selected for Sky Genie Personal Fall Arrest Systems shall require strength capable of sustaining static loads, applied in the directions permitted by the PFAS, of at least two times the maximum arrest force permitted on the system when certification exists, or 5,000 pounds in the absence of certification. When more than one PFAS is attached to an anchorage, the anchorage strengths set forth above shall be multiplied by the number of Personal Fall Arrest Systems attached to the anchorage.

COMPONENTS

All webbing used in Sky Genie Harnesses, Body Belts, Lanyards, Shock Absorbers, Bosun's Chairs and Anchor Connectors is made of nylon or polyester. All connectors used are made of steel and meet or exceed ANSI Z359 standards. Bosun's Chairs seats are made of wood. D-rings and O-rings are capable of withstanding a tensile load of 5,000 pounds, and are proof load tested to 3,600 lbs. Buckles and adjusters are capable of withstanding a minimum tensile load of 4,000 pounds. All snaphooks and carabiners are proof load tested to 3,600 pounds and are capable of withstanding a tensile load of 5,000 pounds. All snaphooks and carabiners are self-closing and self-locking.

When used according to instruction specifications, this product meets or exceeds all applicable ANSI Z359.1-2007 standards for fall protection.

COMPATIBILITY

When making any connections with components of a Sky Genie Fall Arrest System, be sure to eliminate all possibility of roll-out. Roll-out occurs when interference between a hook and the attachment point causes the hook gate to unintentionally open and release. All connector gates must be self-closing and self-locking and withstand minimum loads of 3,600 lbs. See the following illustrations for compatible/incompatible connections:

Sky Genie snaphooks and carabiners should NOT be connected:

- To each other.
- Incompatible or irregular applications which could result increase the risk of roll-out.
- In a manner which would result in a load on the gate.
- Directly to the webbing.
- To a D-ring to which another connector is attached.

MAINTENANCE

Prior to use of a Personal Fall Arrest Component, the USER shall be trained by a competent person to properly inspect, store, and maintain this equipment. All Sky Genie equipment must be inspected by the USER before each use, and additionally, by a competent person other than the user at intervals NO MORE THAN 6 MONTHS. If any deficiencies or damages are found, immediately remove the equipment from service and contact Sky Genie about its return or repair.

CLEANING INSTRUCTIONS

Proper cleaning and storage of Sky Genie equipment will pay dividends in the form of added safety and longer product life. Take care that your storage area is clean and dry, and not exposed to damaging chemicals, fumes, or sunlight.

ROPE & WEBBING

- Dampen sponge in plain water and wipe off all surface dirt.
- Squeeze sponge dry.
- Dip sponge in solution of water and mild detergent.
- Rub down rope/webbing vigorously, working up a thick lather.
- Wipe dry with clean cloth.
- Hang away from heat to dry.

STORAGE

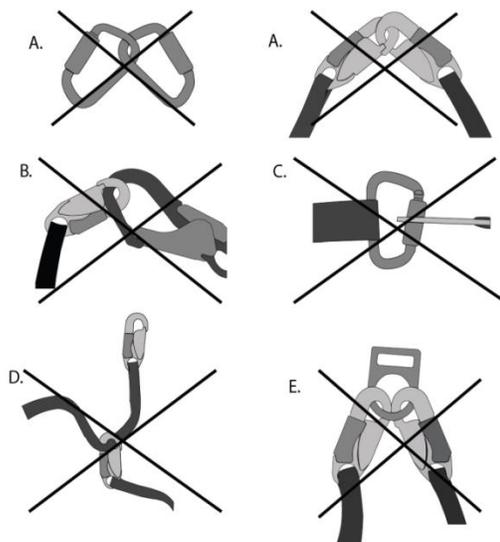
When not in use, store equipment out of direct sunlight in a cool, dry place where it will not be affected by heat, excessive moisture, or chemical vapors.

Life Expectancy of Sky Genie Harnesses, Belts, Bosun's Chairs, and Lanyards

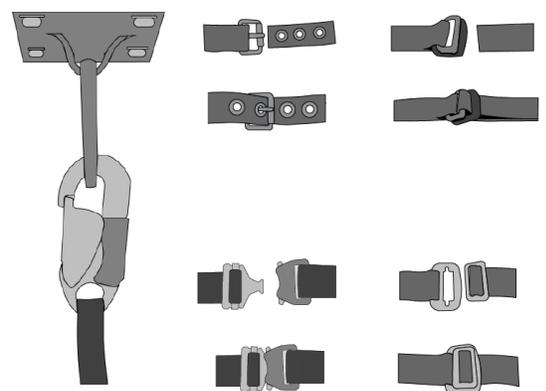
It is the position of Sky Genie to use a 5-year life expectancy from date of first use as a guideline on all harnesses, belts, bosun's chairs, and lanyards. Sky Genie provides this recommendation as a general guideline, and is not to be used in lieu of the **Inspection** section of this manual. This guideline only applies to product exhibiting no visual damage and that has not been exposed to chemicals, abnormal heat, or excessive ultra-violet light, or has been subjected to a fall arrest. It is possible that the equipment will last longer depending on the care and use the equipment may see.

Following these instructions may still necessitate removing the product from service prior to the expiration of the 5-year life expectancy guideline. Likewise, proper adherence to the inspection and maintenance criteria may extend the useful life beyond five years. Ultimately, it is the responsibility of the end-user to determine when the harness, belts, bosun's chair, or lanyard is unfit for use and should be removed from service. Products removed from service should be disposed of in a manner that prevents inadvertent further use.

Incompatible Connections



Compatible Connections



Full Body Harness Labels

Label Location



If equipment fails inspection IMMEDIATELY REMOVE FROM SERVICE												
YR	J	F	M	A	M	J	J	A	S	O	N	D
20												
20												
20												
20												
20												

DO NOT REMOVE LABEL

WARNING

You could be killed or seriously injured if you do not read thoroughly and understand this label and all instructions included with the equipment at time of shipment from the manufacturer before using this piece of equipment. Use and inspect the equipment only in accordance with the manufacturer's instructions.

Built By _____
Inspected By _____

Do Not Remove This Label

INSTRUCTIONS: READ DANGER LABEL BEFORE USE

MEETS ANSISASSE Z359.1
CONSTRUCTED OF 100% NYLON WITH STEEL CONNECTORS
-AVOID CONTACT WITH SHARP EDGE OR ABRASIVE SURFACE
-MAKE ONLY COMPATIBLE CONNECTIONS

INSTRUCTIONS: READ DANGER LABEL BEFORE USE

Sky Genie
3920 Ayers Rd
Fort Smith, AR
800-643-2539

Made in the USA

MODEL: ANSISASSE Z359.1

MANF. DATE: _____

MATERIAL: _____

CAPACITY: _____

LENGTH: _____

SERIAL #: _____

Do Not Remove This Label

Inspection: Prior to each use, Sky Genie equipment should be carefully inspected for indication of wear or deterioration. If evidence of excessive wear or deterioration is observed, it is recommended the equipment be replaced. In addition, inspection charts should be completed monthly and observed before each use.

Before each use, the user should perform a visual inspection for evidence of defects in or damage to hardware elements including cracks, sharp edges, deformation, corrosion, chemical attack, excessive heating, alteration, illegible or missing labels and excessive wear. 2) An inspection for evidence of defects in damage to straps or ropes including fraying, unsplicing, unlaying, kinking, knotting, roping, broken or pulled stitches, excessive elongation, chemical attack, excessive soiling, abrasion, alteration, needed or excessive lubrication, excessive aging and excessive wear **MUST** be performed before each use.

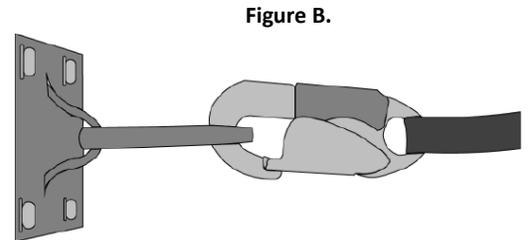
It is the position of Sky Genie to use a 5-year life expectancy from date of first use as a guideline on all harnesses, belts, bosun's chairs, and lanyards. Sky Genie provides this recommendation as a general guideline, and is not to be used in lieu of the **Inspection** section of the instructions. Following these instructions may still necessitate removing the product from service prior to the expiration of the 5-year life expectancy guideline. Likewise, proper adherence to the inspection and maintenance criteria may extend the useful life beyond five years. Ultimately, it is the responsibility of the end-user to determine when the harness, belts, bosun's chair, or lanyard is unfit for use and should be removed from service. Products removed from service should be disposed of in a manner that prevents inadvertent further use.

Cleaning Instructions: Proper cleaning and storage of Sky Genie equipment will pay dividends in the form of added safety and longer product life. Take care that your storage area is clean and dry, and not exposed to damaging chemicals, fumes, or sunlight.

ROPE & WEBBING: 1) Dampen sponge in plain water and wipe off all surface dirt. 2) Squeeze sponge dry. 3) Dip sponge in solution of water and mild detergent. 4) Rub down rope/webbing vigorously, working up a thick lather. 5) Wipe dry with clean cloth. 6) Hang away from heat to dry.

Sky Genie Full Body Harnesses are constructed from nylon and polyester webbing with steel or aluminum connectors. Only compatible connections should be made as illustrated in **Figure B**. The maximum arrest force of the shock-absorbing lanyard is 1800lbs; maximum elongation is 48".

Only the manufacturer or entities authorized in writing by the manufacturer shall make repairs to any Sky Genie Lanyards. If a Sky Genie Lanyard has been subjected to the forces of a fall arrest, it should be removed from field service immediately.



For further instructions on the use of Sky Genie Safety Products please visit our website at www.skygenie.us



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