

GUARDIAN

FALL PROTECTION



Product Name: Tux Harness

Part #: 02100; 02110; 02120; 02130; 02140; 02200; 02210; 02220; 02240; 02105; 02115; 02125; 02135; 02145; 02705; 02715; 02725; 02735; 02745; 02700; 02710; 02720; 02730; 02740; 13010; 13020; 13030; 13610; 13620; 13630; 13200; 13210; 13220; 13230; 13240; 13300; 13310; 13220; 13330; 13340; 12305; 12315; 12325; 12335; 12345; 02600; 02610; 02620; 02630; 02640; 02405; 02415; 02425; 02435; 02445; 02305; 02315; 02325; 02335; 02345; 02205; 02215; 02225; 02235; 02245; 03010; 03020; 03030; 03040; 02500; 02510; 02520; 02530; 02540; 02010; 02015; 02020; 02025; 02030; 02035; 02040; 02045; 02111; 02121; 02131; 02141; 02150; 02151; 02152; 02153; 02154; 02155; 02156; 02157; 02158; 02159; 02160; 02161; 02162; 02163; 02164; 02101; 02300; 02310; 02320; 02330; 02340; 02615; 02625; 02635; 02645; 02900; 02910; 02920; 02930; 02940; 05000; 05010; 05020; 05040; 06000; 06010; 06020; 06030; 06040; 06050; 06051; 06060; 06061; 06070; 06071; 06080; 06081; 06090; 06091; 062100; 062110; 062120; 062130; 062140; 062200; 062210; 062220; 062230; 062240; 062600; 062610; 062620; 062630; 062640; 06500; 06510; 06520; 06530; 12115; 12125; 12135; 12145; 13010; 13030; 13340; 20132; 20133; 20134; 20135; 20136; 20164; 20165; 20166; 20167; 20168; 20196; 20197; 22200; 22210; 22220; 22230; 22240; Custom

Instruction Manual

Do not throw away these instructions!
Read and understand these instructions before using equipment!

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Introduction

Thank you for purchasing a Guardian Fall Protection Tux Harness. This manual must be read and understood in its entirety, and used as part of an employee training program as required by OSHA or any applicable state agency.

This and any other included instructions must be made available to the user of the equipment. The user must understand how to safely and effectively use the Tux Harness, and all fall safety equipment used in combination with the Tux Harness.

User Information	
Date of First Use:	_____
Serial #:	_____
Trainer:	_____
User:	_____

Applicable Safety Standards

When used according to instruction specifications, this product meets or exceeds all applicable OSHA 1926 Subpart M, OSHA 1910, ANSI Z359.1-2007, and ANSI A10.32-2012 standards for fall protection. Applicable standards and regulations depend on the type of work being done, and also might include state regulations if applicable. Consult regulatory agencies for more information on personal fall arrest systems and associated components.

Worker Classifications



Understand the following definitions of those who work near or who may be exposed to fall hazards.

Qualified Person: A person with an accredited degree or certification, and with extensive experience or sufficient professional standing, who is considered proficient in planning and reviewing the conformity of fall protection and rescue systems.

Competent Person: A highly trained and experienced person who is ASSIGNED BY THE EMPLOYER to be responsible for all elements of a fall safety program, including, but not limited to, its regulation, management, and application. A person who is proficient in identifying existing and predictable fall hazards, and who has the authority to stop work in order to eliminate hazards.

Authorized Person: A person who is assigned by their employer to work around or be subject to potential or existing fall hazards.

It is the responsibility of a Qualified or Competent person to supervise the job site and ensure all applicable safety regulations are complied with.

Safety Information



Failure to understand and comply with safety regulations may result in serious injury or death. Regulations included herein are not all-inclusive, are for reference only, and are not intended to replace a Competent Person's judgment or knowledge of federal or state standards.

Do not alter equipment.

Do not misuse equipment.

Workplace conditions, including, but not limited to, flame, corrosive chemicals, electrical shock, sharp objects, machinery, abrasive substances, weather conditions, and uneven surfaces, must be assessed by a Competent Person before fall protection equipment is selected.

The analysis of the workplace must anticipate where workers will be performing their duties, the routes they will take to reach their work, and the potential and existing fall hazards they may be exposed to.

Fall protection equipment must be chosen by a Competent Person. Selections must account for all potential hazardous workplace conditions.

All fall protection equipment should be purchased new and in an unused condition.

Fall protection systems must be selected and installed under the supervision of a Competent Person, and used in a compliant manner.

Fall protection systems must be designed in a manner compliant with all federal, state, and safety regulations.

Unless explicitly stated otherwise, the maximum allowable free fall distance for lanyards must not exceed 6'. No free fall allowed for non-LE SRLs. Class A SRLs must arrest falls within 24"; Class B SRLs must arrest falls within 54".

Forces applied to anchors must be calculated by a Competent Person.

Harnesses and connectors selected must be compliant with manufacturer's instructions, and must be of compatible size and configuration.

A pre-planned rescue procedure in the case of a fall is required. The rescue plan must be project-specific. The rescue plan must allow for employees to rescue themselves, or provide an alternative means for their prompt rescue.

Store rescue equipment in an easily accessible and clearly marked area.

Training of Authorized Persons to correctly erect, disassemble, inspect, maintain, store, and use equipment must be provided by a Competent Person.

Training must include the ability to recognize fall hazards, minimize the likelihood of fall hazards, and the correct use of personal fall arrest systems.

NEVER use fall protection equipment of any kind to hang, lift, support, or hoist tools or equipment, unless explicitly certified for such use.

Maintenance of equipment must be done according to manufacturer's instructions. Equipment instructions must be retained for reference.

Prior to EACH use, all equipment in a fall protection system must be inspected for any potential or existing deficiencies that may result in its failure or reduced functionality. IMMEDIATELY remove equipment from service if any deficiencies are found.

Equipment must be inspected by a Competent Person at least every six months. These inspections must be documented in equipment instruction manual and on equipment inspection grid label.

Equipment must be inspected for defects, including, but not limited to, the absence of required labels or markings, improper form/fit/function, evidence of cracks, sharp edges, deformation, corrosion, excessive heating, alteration, excessive wear, fraying, knotting, abrasion, and absence of parts.

Equipment that fails inspection in any way must immediately be removed from use, or repaired by an entity approved by the manufacturer.

No on-site repair of equipment unless explicitly permitted by Guardian Fall Protection.

Equipment subjected to forces of fall arrest must immediately be removed from use.

Snap hooks, carabiners, and other connectors must be selected and applied in a compatible fashion. All risk of disengagement must be eliminated. All snap hooks and carabiners must be self-locking and self-closing, and must never be connected to each other.

Age, fitness, and health conditions can seriously affect the worker should a fall occur. Consult a doctor if there is any reason to doubt a user's ability to withstand and safely absorb fall arrest forces or perform set-up of equipment.

Pregnant women and minors must not use this equipment.

Physical harm may still occur even if fall safety equipment functions correctly. Sustained post-fall suspension may result in serious injury or death. Use trauma relief straps to reduce the effects of suspension trauma.

Allowable individual worker weight limit (including all equipment), unless explicitly stated otherwise, is 130-310 lbs.

Maintenance, Cleaning, and Storage

Repairs to Tux Harnesses can only be made by a Guardian Fall Protection representative or an entity authorized by Guardian. Contact Guardian for all maintenance and repair needs at: 1-800-466-6385. If Tux Harness fails inspection in any way, immediately remove it from service, and contact Guardian to inquire about its return or repair.

Cleaning after use is important for maintaining the safety and longevity of Tux Harness. Remove all dirt, corrosives, and contaminants from Tux Harnesses before and after each use. If Tux Harness cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean Tux Harnesses with corrosive substances.

When not in use, store equipment where it will not be affected by heat, light, excessive moisture, chemicals, or other degrading elements.

Inspection

KEEP INSTRUCTIONS AVAILABLE FOR REFERENCE. Record Date of First Use.

Prior to EACH use, inspect Tux Harness for deficiencies, including, but not limited to, corrosion, deformation, pits, burrs, rough surfaces, sharp edges, cracking, rust, paint buildup, excessive heating, alteration, broken stitching, fraying, bird-caging, and missing or illegible labels. IMMEDIATELY remove Tux Harness from service if defects or damage are found, or if exposed to forces of fall arrest.

Ensure that applicable work area is free of all damage, including, but not limited to, debris, rot, rust, decay, cracking, and hazardous materials. Ensure that selected work area will support the application-specific minimum loads set forth in this instruction manual. Work area MUST be stable.

At least every 6 months, a Competent Person other than the user must inspect Tux Harnesses. **Competent Person inspections MUST be recorded in inspection log in instruction manual and on equipment inspection grid label. The Competent Person must sign their initials in the box corresponding to the month and year the inspection took place.**

During inspection, consider all applications and hazards Tux Harnesses have been subjected to.

Product Specific Applications



WARNING

Use of equipment in unintended applications may result in serious injury or death. Maximum 1 attachment per connection point.



Personal Fall Arrest: Tux Harness may be used in Personal Fall Arrest applications as a component of a Personal Fall Arrest System (PFAS). Structure must withstand loads applied in the directions permitted by the system of at least 5,000 lbs. Maximum free fall is 6', unless used in combination with equipment explicitly certified for extended free fall. Applicable D-ring: Dorsal.



Restraint: Tux Harness 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 lanyard/SRL. Structure must withstand loads applied in the directions permitted by the system of at least 1,000 lbs. No free fall is permitted. Restraint systems may only be used on surfaces with slopes up to 4/12 (vertical/horizontal). Applicable D-rings: Dorsal, Chest, Side, Shoulder.



Work Positioning: Tux Harness, configured with side or shoulder D-rings, may be used in Work Positioning applications. Work Positioning systems allow a worker to be supported while in suspension and work freely with both hands. Structure must withstand loads applied in the directions permitted by the system of at least 3,000 lbs. Maximum allowable free fall is 2'. Applicable D-rings: Side, Shoulder.



Rescue/Confined Space: Tux Harness may be used in Rescue/Confined Space applications. Rescue systems function to safely recover a worker from a confined location or after exposed to a fall. There are various configurations of Rescue systems depending on the type of rescue. Structure must withstand loads applied in the directions permitted by the system of at least 3,000 lbs. No free fall is permitted. Applicable D-rings: Dorsal, chest, shoulder.

For all applications: worker weight capacity range (including all clothing, tools, and equipment) is 130-310 lbs., or up to 420 lbs. if used in combination with equipment explicitly certified for such use.

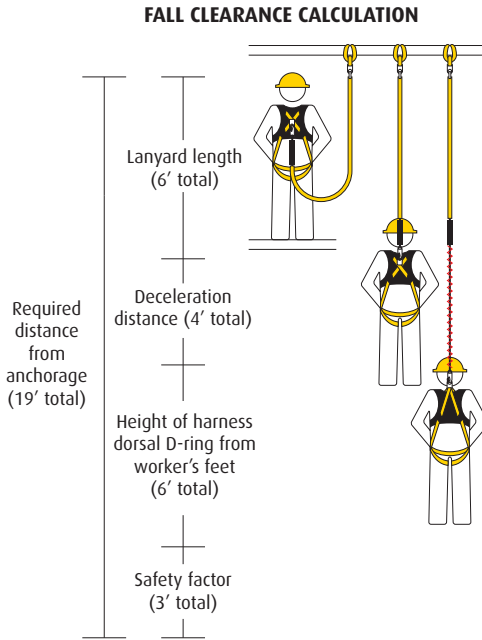


WARNING

Not all Tux Harnesses may be used in every application type. ALWAYS consider harness D-ring configuration and any other structural components. ALWAYS read and adhere to product labeling. A Competent Person MUST make a determination regarding correct harness application and compatibility.

Limitations

Fall Clearance: There must be sufficient clearance below the anchorage connector to arrest a fall before the user strikes the ground or an obstruction. When calculating fall clearance, account for a MINIMUM 3' safety factor, deceleration distance, user height, length of lanyard/SRL, and all other applicable factors. **Diagram shown is an example fall clearance calculation ONLY.**



Swing Falls: Prior to installation or use, make considerations for eliminating or minimizing all swing fall hazards. Swing falls occur when the anchor is not directly above the location where a fall occurs. Always work as close to in line with the anchor point as possible. Swing falls significantly increase the likelihood of serious injury or death in the event of a fall.

Compatibility: When making connections with Tux Harness, 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 connections must be selected and deemed compatible with Tux Harness by a Competent Person. All connector gates must be self-closing and self-locking, and withstand minimum loads of 3,600 lbs. See the following for examples of compatible/incompatible connections:

Connector closed and locked to D-ring. **OK.**



Connector to integral lanyard. **NO.**

Two or more snap hooks or carabiners connected to each other. **NO.**



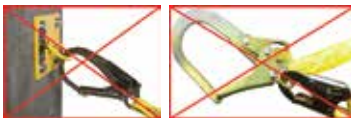
Connector directly to webbing. **NO.**

Two connectors to same D-ring. **NO.**



Application that places load on gate. **NO.**

Incompatible or irregular application, which may increase risk of roll-out. **NO.**



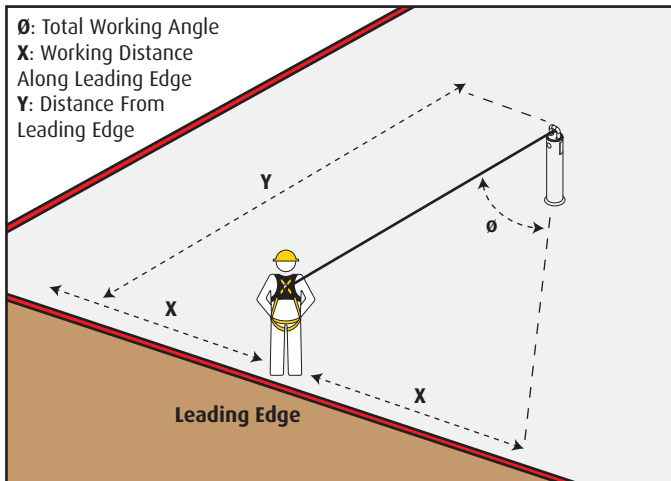
Connector directly to horizontal lifeline. **NO.**

Correct Anchorage Positioning:

This chart details allowable working zones required to reduce risk of swing falls and improper side loading.
ALWAYS adhere to information specified by chart.

Anchor Distance From Leading Edge (Y)	Working Distance Along Roof Edge (Either Direction) (X)	Working Angle From Perpendicular (θ)
6'	8'	53°
10'	9' - 9"	45°
15'	11' - 7"	38°
20'	13' - 3"	33°
25'	14' - 6"	30°
30'	16'	28°
35'	17' - 2"	26°
40'	18' - 3"	24°
45'	19' - 4"	23°
50'	19' - 10"	21°
55'	21' - 4"	21°
60'	22' - 3"	21°

For example, if the anchorage connector is 6' from the leading edge (Y), the working distance (X) is 8' in each direction from the perpendicular, which translates to a 53° working angle.



Components and Specifications

Materials: Banox FR3, Nylon Mesh, Cotton Duck, and Polyester.

Part #	Sizes	Description
02100, 02101, 02110, 02120, 02130, 02140	S, S, M, L, XL, 2XL	Orange Mesh Construction Tux
02200, 02210, 02220, 02230, 02240	S, M, L, XL, 2XL	Green Mesh Construction Tux
02105, 02115, 02125, 02135, 02145	S, M, L, XL, 2XL	Hi-VIS Construction Tux
02705, 02715, 02725, 02735, 02745	S, M, L, XL, 2XL	Surveyor's Construction Tux
13610, 13620, 13630	S, M, L, XL, 2XL	Sport Tux
02700, 02710, 02720, 02730, 02740	S, M, L, XL, 2XL	Red Mesh Construction Tux
13010, 13020, 13030	M, L, XL	Jacket Tux
13220, 13210, 13220, 13230, 13240	S, M, L, XL, 2XL	Green Hi-Viz Zip On/Off Long Sleeves Tux Harness
13300, 13310, 13320, 13330, 13340	S, M, L, XL, 2XL	Orange Hi-Viz Zip On/Off Long Sleeves Tux Harness
12305, 12315, 12325, 12335, 12345	S, M, L, XL, 2XL	Blue Duck Flex Construction Tux
02600, 02610, 02620, 02630, 02640	S, M, L, XL, 2XL	Black Mesh Construction Tux
02405, 02415, 02425, 02435, 02445	S, M, L, XL, 2XL	Black Duck w/Mesh Construction Tux
02305, 02315, 02325, 02335, 02345	S, M, L, XL, 2XL	Blue Duck w/Mesh Construction Tux
02205, 02215, 02225, 02235, 02245	S, M, L, XL, 2XL	Brown Duck w/Mesh Construction Tux
03010, 03020, 03030, 03040	M, L, XL, 2XL	Camouflage Construction Tux
02500, 02510, 02520, 02530, 02540	S, M, L, XL, 2XL	Fire Retardant Construction Tux
02111, 02121, 02131, 02141	M, L, XL, 2XL	Orange Mesh Construction Tux w/TB Legs
02010, 02020, 02030, 02040	M, L, XL, 2XL	Sleeveless Zip-In Fleece Liner for Tux Harness
02015, 02025, 02035, 02045	M, L, XL, 2XL	Zip-In Fleece Liner for Tux Harness w/Long Sleeves
02150, 02151, 02153, 02153, 02154	S, M, L, XL, 2XL	Deluxe Construction Mesh Tux w/PT Chest, TB Legs, & Side D-rings. Orange.
02155, 02156, 02157, 02158, 02159	S, M, L, XL, 2XL	Deluxe Construction Mesh Tux w/PT Chest, TB Legs, & Side D-rings. Black.
02160, 02161, 02162, 02163, 02164	S, M, L, XL, 2XL	Deluxe Construction Mesh Tux w/PT Chest, TB Legs, & Side D-rings. Green.
02300, 02310, 02320, 02330, 02340	S, M, L, XL, 2XL	Blue Duck w/Fleece Construction Tux
02615, 02625, 02635, 02645	M, L, XL, 2XL	Rescue/Retrieval Construction Tux
02900, 02910, 02920, 02930, 02940	S, M, L, XL, 2XL	Green Mesh Construction Tux (No Side D-rings)
05000, 05010, 05020, 05040	M, L, XL, 2XL	Orange Mesh Construction Tux (No Side D-rings)
06000, 06010, 06020, 06030, 06040	S, M, L, XL, 2XL	Black Mesh Construction Tux w/Chest D-ring
06050, 06060, 06070, 06080, 06090	S, M, L, XL, 2XL	Green Mesh Construction Tux w/Chest D-ring

Part #	Sizes	Description
06051, 06061, 06071, 06081, 06091	S, S, M, L, XL, 2XL	Green Mesh Construction Tux w/Chest D-ring
062100, 062110, 062120, 062130, 062140	S, M, L, XL, 2XL	Orange Mesh Construction Tux w/Die-Electric D-rings & Powder-Coated Buckles
062200, 062210, 062220, 062230, 062240	S, M, L, XL, 2XL	Green Mesh Construction Tux w/Die-Electric D-rings & Powder-Coated Buckles
062200, 062210, 062220, 062230, 062240	S, M, L, XL, 2XL	Black Mesh Construction Tux w/Die-Electric D-rings & Powder-Coated Buckles
06500, 06510, 06520, 06530	S, M, L, XL	Fire Retardant Tux w/Front D-ring
12115, 12125, 12135, 12145	S, M, L, XL	Super Hi-Viz Tux - Special Class 2 Design
20132, 20133, 20134, 20135, 20136	S, M, L, XL, 2XL	Black Mesh Construction Tux w/Tapered Shoulders & Extra Belt Loop
20164, 20165, 20166, 20167, 20168, 20196, 20197	XXS, XS, S, M, L, XL, 2XL	Blue Flex Tux
22200, 22210, 22220, 22230, 22240	S, M, L, XL, 2XL	Fire Retardant Green Mesh Construction Tux w/D51 Fabric & RF Silver Reflective Lining

Installation and Use

ALL PFAS equipment must be selected and deemed compatible with Tux Harness by a Competent Person.

ALWAYS follow all instructions of all equipment used in combination with Tux Harness.

ALWAYS ensure all product-specific application specifications are met and adhered to.

NEVER attach connector to any place on harness other than D-ring. Connector gate must be self-closing and self-locking, and must withstand minimum load of 3,600 lbs.

To connect Pass-Through Buckle, angle male buckle so it is positioned to pass up and through female buckle. Fully insert male buckle so that it lies flat on top of female buckle.



To connect Tongue Buckle, pull webbing strap through framed tongue component, and insert framed tongue through grommet to secure.



Roller and Friction Adjustments allow the user to make adjustments to Velocity Harness straps. Feed webbing through buckle, and slide the buckle down on the strap to tighten, or slide the buckle up on the strap to loosen.



To adjust dorsal D-ring, slide placard up or down webbing. Dorsal D-ring must rest between the middle of the shoulder blades.

Dorsal D-ring, chest strap, shoulder straps, and leg straps MUST be fitted for each individual user.



1. Hold at dorsal D-ring, and Fully inspect harness according to specifications of this instruction manual. Ensure all straps are not twisted and all buckles are unfastened.



2. Place harness shoulder straps over shoulders. Ensure dorsal D-ring faces out, and is adjusted to rest between the middle of the shoulder blades.



3. Connect leg straps around thighs. Ensure there is no twisting of webbing. Leg straps should never dangle or hang loose.



4. Adjust chest strap height to lower chest level, approximately 6" from top of shoulders. Connect chest strap. Ensure there is no twisting of webbing.



5. Adjust chest, leg, and shoulder straps so they fit snugly, but still allow for a full range of movement.

Some steps of adorning a harness may require assistance from another person.

Upon completely adorning a harness, Guardian Fall Protection recommends that another person, with knowledge of the safe and correct use of the harness, inspect to ensure the harness is being worn correctly.

WARNING

Any twisting of webbing, or straps that are fitted too loose or too tight, can significantly increase the risk of serious injury or death in the event of a fall.

Labels



Size:

SM S-M MED LG

XL-XXL M-XL L-XL

XL XXL S-L M-L

Material: Polyester

Part #: XXXXXXXXXX DOM: XXXXXXXXXX

Serial #: XXXXXXXXXX

Meets ANSI Z359.1-2007.A10.32-2012

Capacity including tools: 130-310 lbs.
Max Capacity 420lbs. when used with a GFP Big Boss extended capacity lanyard. Contact GFP for details.

Make only compatible connections:
Dorsal D-ring for fall arrest attachment.
If present:
Side D-rings for positioning only.
Front Loop for use with ladder systems.
Retrieval D-rings for rescue kit retrieval.

Before use inspect equipment for rips, tears, fraying, or any possible structural deficiency that might compromise the equipment in a fall. See instruction manual for installation procedures. Avoid contact with sharp and abrasive surfaces.

WARNING

REMOVE FROM SERVICE if subject to a fall arrest or if unit fails inspection.

ADVERTENCIA

QUITE DE SERVICIO si s'bdito a una caída accesorio o si la unidad falla la inspección.

DO NOT REMOVE LABEL
NO QUITE ESTE ETIQUETA

Size Tag



WARNING: Follow the manufacturer's instructions included with the equipment at time of shipment from the manufacturer before using. Improper use of this equipment could result in serious injury or death.

ADVERTENCIA: Seguir las instrucciones de fabricación incluidas con el equipo, al tiempo del transporte, de la fábrica, antes de usar. Uso impropio de este equipo puede resultar en heridas serias o muerte.

WARNING: REMOVE FROM SERVICE if subject to a fall arrest or if unit fails inspection.

ADVERTENCIA: QUITE DE SERVICIO si s'bdito a una caída accesorio o si la unidad falla la inspección

Guardian Fall Protection
6305 S. 231st St.
Kent, WA 98032

Cumple ANSI Z359.1-2007.A10.32-2012

Máximo Capacidad: 310 libras (incluye herramientas).

Máxima capacidad 420 libras con uso de GFP Big Boss lanyard comunicarse a GFP para detalles.

Nomás haga compatible conexiones:
El anillo D Dorsal para punto de caída accesorio. Si presente:
D-anillo de lado, nomás para posicionar.
El rizo de frenos para usar con escalera sistemas.
D-anillo de recuperar para salvar y recuperar.

Inspeccione el equipo antes de usar, que no este desgarrado, deshilachado, deshebrado o cual es quiere estructural incapacidad que pueda comprometer el equipo en una caída. Mere el manual de instrucción para instalaci procedimiento. Evitar contacto con orillas filosas o abrasivo.

90044 (Rev. E)

INSPECTION GRID

NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

DO NOT REMOVE LABEL

GUARDIAN
FALL PROTECTION
PERFORMANCE SAFETY GEAR

Fire Resistant Construction Tux Harness

• 1-800-466-6385 • 6305 S. 231st St., Kent, WA 98032 • www.guardianfall.com

Prior to use, read and understand all manufacturer's instructions provided with equipment at time of shipment.

Compliant with ANSI Z359.1-07, ANSI A10.32-12, OSHA 1910, and OSHA 1926 Subpart M.

Materials: Banox FR3, Nylon Mesh, Cotton Duck, and Polyester.

Capacity Range: 130-310 lbs., or up to 420 lbs. if used in combination with equipment explicitly certified for such use.

Only make compatible connections. Refer to instructions for proper connections and use.

Maximum 1 connection per Construction Tux Harness. Only make connection to harness D-ring.

Machine wash hot with mild, non-corrosive detergent. Tumble dry warm. Ok to dry-clean.

WARNING

Immediately remove from use if exposed to forces of fall arrest.

Improper use of this product could result in serious injury or death. Avoid contact with sharp edges and abrasive surfaces that can cut or damage the webbing or components.

Made in USA

INSPECTION GRID

User must inspect prior to EACH use. Competent Person must complete formal inspection every 6 months. Competent Person to inspect and initial.

Date of First Use: _____

Product lifetime is 5 years from Date of First Use, or, if not recorded, from Date of Manufacture, as long as equipment passes pre-use and Competent Person inspections.

YR	MO	20	20	20	20	20
J						
F						
M						
A						
M						
J						
J						
A						
S						
O						
N						
D						

If equipment fails inspection IMMEDIATELY REMOVE FROM SERVICE

DO NOT REMOVE LABELS

