

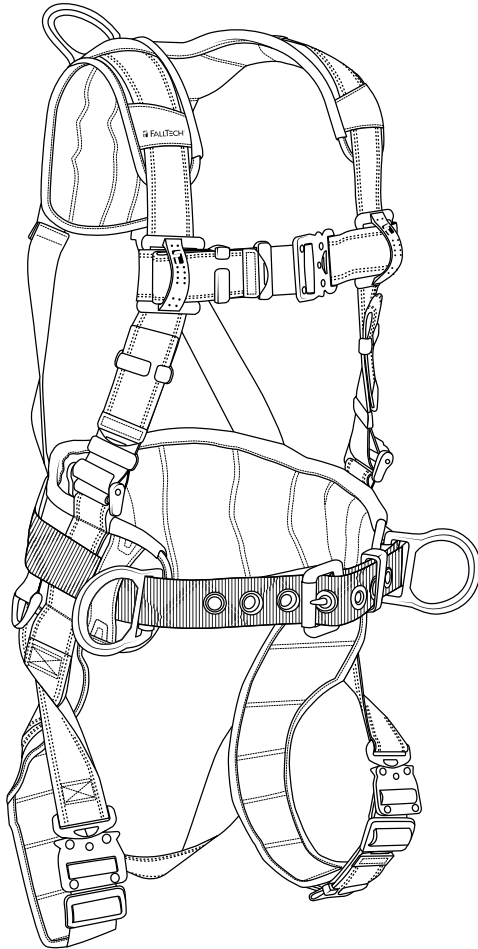


FALLTECH®

Fall Protection. Precision Engineered.

Full Body Harness

User Instruction Manual



This manual is intended to meet the Manufacturer's Instructions as required by the American National Standards Institute (ANSI) Z359 and Canadian Standards Association (CSA) Z259 and should be used as part of an employee training program as required by the Occupational Safety and Health Administration (OSHA).

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For purposes of this manual, the FallTech® Full Body Harnesses in all iterations may be referred to collectively as the FallTech FBH, the Full Body Harness, the FBH, the harness, the equipment, the product, or the unit. Throughout this manual, ANSI Z359.0-2012 fall protection words, phrases and terms are used. These terms are all formally defined in Section 9 of this manual.

1.0 Warnings and Important Information

WARNING

- Avoid moving machinery, thermal, electrical, and/or chemical hazards as contact may cause serious injury or death.
- Avoid swing falls.
- Follow the weight restrictions and recommendations in this manual.
- Remove from service any equipment subjected to fall arrest forces.
- Remove from service any equipment that fails inspection.
- Do not alter or intentionally misuse this equipment.
- Consult FallTech when using this equipment in combination with components or subsystems other than those described in this manual.
- Do not connect rebar hooks, large carabiners, or large snap hooks to the FBH dorsal D-rings as this may cause a roll-out condition and/or unintentional disengagement.
- Avoid sharp and/or abrasive surfaces and edges.
- Use caution when performing arc welding. Arc flash from arc welding operations, including accidental arcs from electrical equipment, can damage equipment and are potentially fatal.
- Examine the work area. Be aware of the surroundings and workplace hazards that may impact safety, security, and the functioning of fall arrest systems and components.
- Hazards may include but not be limited to cable or debris tripping hazards, equipment failures, personnel mistakes, moving equipment such as carts, barrows, fork lifts, cranes, or dollies. Do not allow materials, tools, or equipment in transit to contact any part of the fall arrest system.
- Do not work under suspended loads.

IMPORTANT

This product is part of a personal fall arrest, restraint, work positioning, suspension, or rescue system. A Personal Fall Arrest System (PFAS) is typically composed of an anchorage and a Full Body Harness (FBH), with a connecting device, i.e., an Energy Absorbing Lanyard (EAL), or a Self-Retracting Device (SRD), attached to the dorsal D-ring of the FBH.

These instructions must be provided to the worker using this equipment. The worker must read and understand the manufacturer's instructions for each component or part of the complete system. Manufacturer's instructions must be followed for proper use, care, and maintenance of this product. These instructions must be retained and be kept available for the worker's reference at all times. Alterations or misuse of this product, or failure to follow instructions, may result in serious injury or death.

A Fall Protection Plan must be on file and available for review by all workers. It is the responsibility of the worker and the purchaser of this equipment to assure that users of this equipment are properly trained in its use, maintenance, and storage. Training must be repeated at regular intervals. Training must not subject the trainee to fall hazards.

Consult a doctor if there is reason to doubt your fitness to safely absorb the shock of a fall event. Age and fitness seriously affect a worker's ability to withstand falls. Pregnant women or minors must not use this equipment.

ANSI limits the weight of fall protection equipment users to a maximum of 310 lbs (140kg), CSA limits the weight of fall protection equipment users to a maximum of 350 lbs (160 kg). Products in this manual may have a rated capacity exceeding ANSI and CSA capacity limits. Heavy users experience more risk of severe injury or death due to falls because of increased fall arrest forces placed on the user's body. Also, the onset of suspension trauma after a fall even may be accelerated for heavy users.

The user of the equipment discussed in this manual must read and understand the entire manual before beginning work.

NOTE: For more information consult the ANSI Z359/CSA Z259 body of standards.






2.0 Description

This Full Body Harness (FBH) comprises the Body Wear component of your Personal Fall Arrest System (PFAS). This manual will discuss the various connection points with their specific application. When properly worn and utilized, a FallTech® FBH will allow the user to work safely and comfortably. A FBH is part of a PFAS requiring a properly rated anchorage and anchorage connector that uses a compatible connecting device appropriate for the fall protection application.

2.1 Maximum Harness Rating: The FallTech® FBHs are ANSI Z359.11, CSA Z259.10, and OSHA compliant. ANSI user capacity is 310 lbs.(140.6 kg) including clothing, tools, etc., CSA user capacity is 350 lbs.(160 kg) including clothing, tools, etc., and OSHA rated capacity is 425lbs (192.8 kg) including clothing, tools, etc.

FallTech® Full Body Harnesses are available in a wide variety of configurations to address the specific needs in most workplaces. The suitability of a Full Body Harness for a specific application is determined primarily by the type and location of the D-ring or D-rings on the FBH. See Figure 1 for a summary of the approved applications for each D-ring located on a FBH.

If you have questions about whether this product is suitable for your application, please consult a competent person or contact FallTech® for further advice.

Figure 1 - Harness Connection Points			
CSA Class	Application	Pictogram	Explanation
Class A	Fall Arrest		The dorsal D-ring is the attachment point is located on the back of your full body harness (FBH). It is to be used for fall arrest or restraint only, connecting devices for these applications include Energy Absorbing Lanyards, Self-Retracting Lifelines, and Restraint lanyards.
Class P	Work Positioning		Work positioning D-rings are located adjacent to each hip, the intended use is with a positioning lanyard when positioning on a vertical surface (e.g. tower applications, rebar tying, etc.). This system is a primary system and should always be used in conjunction with a fall arrest system.
Class E	Rescue		Located on each shoulder of the FBH, these D-rings are intended for confined space entry and retrieval. They can also be used in other rescue applications where limited access is an issue.
Class D	Decent		May be located at the sternal position of the harness or have one or two D-rings located below the waist (e.g. bosun's chair).
Class L	Ladder Climbing		Harnesses with a sternal D-ring can be attached to a vertical ladder climbing system. The sternum location can be used in conjunction with a ladder climbing device which allows for no more than a 9-inch (22.5 cm) connection.

3.0 Application

3.1 Purpose: The FallTech® FBH is designed for use as a component in a PFAS, to provide a combination of worker mobility and fall protection as required for inspection work, general construction, maintenance work, oil production, confined space work, or any application where fall protection is required.

3.2 Personal Fall Arrest System: A PFAS is typically composed of an anchorage and a FBH, with an energy absorbing connecting device, i.e., an EAL, an SRD, or a Fall Arrester Connecting Subsystem (FACSS), attached to the dorsal D-ring of properly fitted and adjusted FBH. All uses and applications of a FBH with this equipment requires the FBH to be properly fitted and adjusted to the user. Failure to properly fit the FBH to the user could result in serious injury or death.

NOTE: PFAS components used in conjunction with this FBH should comply with ANSI Z359/CSA Z259 and applicable OSHA regulations.

3.3 Application Limits: Take action to avoid moving machinery, sharp edges, abrasive surfaces, and thermal, electrical and chemical hazards as contact may cause damage to fall protection equipment, or serious injury, or death.

3.4 Approved Applications: Figure 1 is a summary of the approved applications for each D-ring location on the FBH. This list is not all-inclusive, but is intended to anticipate the most common applications in which this product may be used. If you have questions about whether this product is suitable for your particular application, please consult a competent person or contact FallTech®.

3.5 Restricted Applications: Not all Full Body Harnesses are built alike, and each product has different features. There are some applications for which our products may not be ideally suited. Below are a few restrictions to consider before using your FallTech® Full Body Harness:

3.5.1 Harsh Chemical Environments: Acids and other caustic chemicals may cause damage to this FBH, its components and other elements for your Personal Fall Arrest System (PFAS). Damage from chemical exposure can be difficult to detect and FallTech® recommends inspection before each use and frequent replacement. FallTech® does manufacture products which are suited to harsh environments. For additional details, please contact Customer Service or your local FallTech® sales representative.

3.5.2 Arborist Applications: This product should never be used in arborist applications or tree trimming applications.

3.5.3 Welding: FallTech® recommends the use of Aramid webbing FBH's (Kevlar® or Nomex®) for welding and other applications where the harness may be exposed to extremely high temperatures.

3.5.4 Heavyweight: Most FallTech® FBH's are rated for a maximum capacity of 425 lbs (user, clothing, tools, and equipment), provided they are used in conjunction with other FallTech® EALs or FallTech® SRLs rated for a heavyweight user. Be sure to check the product label for the capacity of your specific FallTech® product.

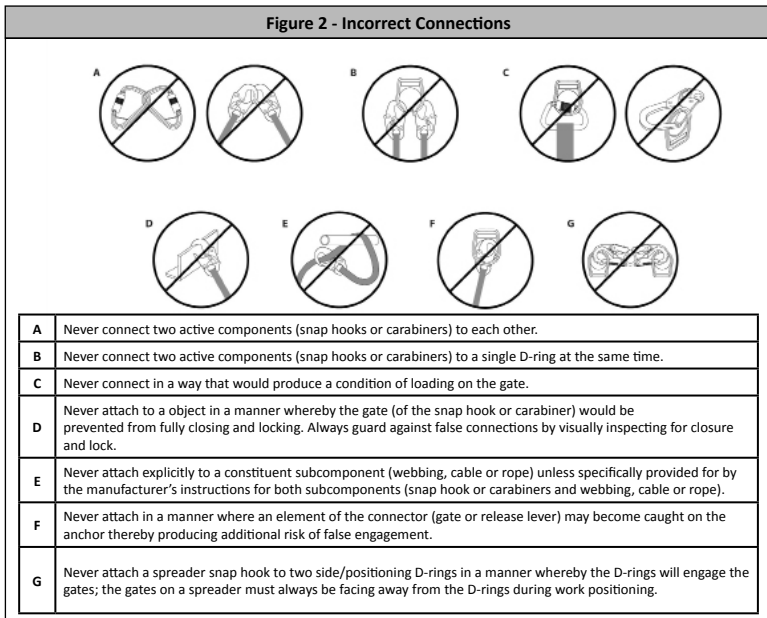
3.5.5 Extended Free Falls: FallTech® FBH's are rated for a maximum free fall of 6 feet. FallTech® FBH's may be used in applications where there may be exposure to free falls of up to 12 feet, provided that a properly rated FallTech® energy absorbing lanyard is used.

4.0 System Requirements

4.1 Capacity: To maintain ANSI Z359 compliance, limit user weight to a range of 130-310 lbs. (59-140 kg), including clothing, tools, etc. To maintain CSA Z259 compliance, limit user weight to a range of 120-350 lbs. (54-160 kg), including clothing, tools, etc.

4.2 Compatibility of Connectors: Connectors are considered to be compatible with connecting elements when they have been designed to work together in such a way that their sizes and shapes do not cause their gate mechanisms to open inadvertently regardless of how they become oriented. Connectors must be compatible with the anchorage or other system components. Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage, see Figure 2 for some examples of incorrect connections.

Equipment is designed for use with approved components and subsystems only. Substitutions or replacements made with non-ANSI Z359 or CSA Z259 compliant components or subsystems may jeopardize compatibility of equipment and may affect the safety and reliability of the complete system. Ensure a competent persons assess the compatibility between the connectors if non-FallTech components are used for fall protection.



4.3 Making Connections: Only use self-locking connectors with this equipment. Only use connectors that are suitable to each application. Ensure all connections are compatible in size, shape, and strength. Do not use equipment that is not compatible. Visually ensure all connectors are fully closed and locked. Connectors (snap hooks, rebar hooks, and carabiners) are designed for use only as specified in each product’s user instruction manual.

4.4 Personal Fall Arrest System Anchorage Strength: An anchorage selected for PFAS application must have the strength to sustain a static load applied in the direction permitted by the PFAS of at least:

- a. Two times the maximum arrest force permitted when the certification exists, or
- b. 5,000 lbs (22 kN) in the absence of certification

5.0 Installation and Use



Do not alter or intentionally misuse this equipment. Consult FallTech when using this equipment in combination with components or subsystems other than those described in this manual. All components or subsystems used with the FBH discussed in this manual must be in compliance with ANSI Z359, CSA Z259, and/or OSHA.

Do not use rebar hooks, large carabiners, or large snap hooks to connect to the FBH dorsal D-rings or to any small diameter non-compatible anchor point as this may cause a roll-out condition and/or unintentional disengagement. Use caution. Take action to avoid sharp and/or abrasive surfaces and edges when possible.

5.1. Plan the Personal Fall Arrest System (PFAS): Examine the work area and take action to address hazards. Falls are a serious hazard when working at height. Training and equipment are the tools of fall hazard management. There are several closely related facets of fall hazard management with a PFAS;

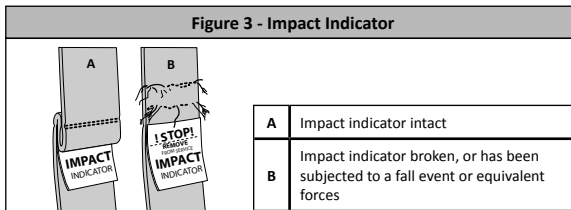
- Anchorage
- Minimum Required Fall Clearance (MRFC)
- Swing Fall and Expanded Work Zone
- Overhead (above the FBH D-ring) Anchorage
- Non-Overhead (below the FBH D-ring) Anchorage
- Rescue Plan

5.2 Minimum Required Fall Clearance: The MRFC is the minimum distance a user needs between himself and the nearest obstruction (or ground) below the walking/working surface to avoid serious injury or death in case of a fall event. The user of this equipment must determine the MRFC for units discussed in this manual to ensure adequate clearance exists. Connecting subsystems are Self-Retracting Lifelines (SRLs), Energy Absorbing Lanyards (EALs), and Fall Arresters. Refer to the user manuals to determine the specific MRFC for additional information. In addition to the fall clearance information of the connecting subsystem, the FBH will stretch during a fall event. FallTech® recommends using 1.5 ft (0.46m) to account for overall stretch and D-ring length added to the MRFC calculation. If a D-ring extension is being used, the length of the extender will need to be added to the overall fall clearance calculation.

5.3 Rescue Plan: Rescue operations require specialized equipment that is beyond the scope of this manual. See ANSI Z359.4-2013 or CSA Z259.2.3-16.

5.4 Pre-Use Inspection: FallTech requires that the following steps be taken during each inspection prior to use of this Full Body Harness.

1. Check the webbing for cuts, fraying, and signs of damage from excessive wear or abrasion. Also check for excessive dirt, grease, oil, paint, or other surface contamination or discoloring. If any of these conditions are discovered during the inspection, remove the FBH from service.
2. Check all stitch locations. Ensure that each stitch is intact with no loose, frayed, or torn threads. If any of the stitch locations shows signs of damage or excessive wear, remove the harness from service.
3. Look for signs that the harness has been exposed to fall arrest forces. Every FallTech FBH has two load-indicating safety pleats with labels stitched on the back torso straps, below the back D-ring. If these stitched pleats are torn or if the warning is exposed on the safety tabs, remove the harness from service. See Figure 3.
4. Ensure that the labeling is present and legible. If the labels and warnings are missing or illegible, remove the harness from service.



5. Inspect all metal hardware (D-rings, buckles, adjusters, grommets, etc.). Look for hardware that is bent, cracked, or deformed. Look for sharp edges and burrs. Also, check for signs of corrosion. Ensure that none of the metal hardware has an excessive build-up of dirt, grease, oil, paint, or any other substance or contaminant. If any of these conditions exist, remove the FBH from service.
6. Check the buckles and adjusters for proper function. Ensure that all buckles can be easily and securely fastened and that all adjusters can be operated allowing the webbing to pass through when loosened, and to be held tight when under tension. If the buckles and/or adjusters do not pass inspection, remove the FBH from service.
7. If the FBH fails to pass inspection on any of these points, or if there is any doubt as to whether it is in proper working order, remove the FBH from service.

5.5 Donning the Full Body Harness: A Full Body Harness must be worn with all fasteners and adjusters connected and should be adjusted to fit the user snugly. Failure to properly don, wear, and adjust the FBH can result in severe injury or death in the event of a fall. To ensure proper donning and adjustment, follow the steps in Figure 4.

Figure 4 - Donning Instructions

A	After inspecting the harness, grab the dorsal (back) D-ring and shake the harness to ensure all straps are tangle free.
B	Unfasten all buckles. Place one arm through the harness. Ensure the dorsal D-ring is on the back. Place the other arm through the other side of the harness and position all the straps.
C	Reach between the legs and pull one leg strap forward. Pass the end of the leg strap through the buckle. Repeat for the other leg strap. The leg straps are attached to the harness at the sub-pelvic strap. This strap is one of the main load bearing strap in the harness. Ensure the sub-pelvic strap fits snug under the buttocks.
D	Connect chest strap by attaching the mating buckle. Adjust torso straps, and readjust the leg straps and the chest strap if necessary. Ideal position for the chest strap is about six inches below the shoulders. Adjust waist belt to a snug fit, if applicable.
E	Ensure all appropriate buckles are fastened and that the strap ends are secured. Ensure the dorsal and sternal (if so equipped) D-rings are correctly positioned. The sternal D-ring should be in the center of the chest, between the pectoral muscles, above the solar plexus. The dorsal D-ring must be centered between the shoulder blades.

5.5.1 Buckles: FallTech® Full Body Harnesses uses different buckles for fastening different parts of the harness.

5.5.2 Tongue and Buckle: See Figure 5 for instructions.

Figure 5 - Tongue and Buckle Instructions

A	Grasp each end of the fastener.
B	Pass the tongue end of the strap through the buckle and find the proper hole for the desired tightness.
C	Fasten together.
D	To check proper fit, a flat hand may pass under the strap, but cannot form a fist.
E	Ensure all loose ends are properly tucked into webbing keepers so any loose webbing will not get tangled in equipment.

5.5.3 Pass Through and Slotted Pass Through Buckles: See Figure 6 for instructions.

Figure 6 - Pass Through and Slotted Pass Through Buckle Instructions

A and A1	Grasp each end of the fasteners.
B and B1	Turn the pass-through end of keeper sideways so it will pass into the keeper's holder.
C and C1	Allow the pass-through end to turn back to its correct angle so it will not dislodge from the keeper.
D and D1	To check proper fit, a flat hand may pass under the strap, but cannot form a fist.

Ensure all loose ends are properly tucked into webbing keepers so any loose webbing will not get tangled in equipment.

5.5.4 Quick Connect Buckles: See Figure 7 for instructions.

Figure 7 - Quick Connect Buckle Instructions

A and A1	Grasp the male end of the keeper and the receiver.
B and B1	Insert the male end into the receiver and push to ensure closure.
C and C1	Check the verification indicators to ensure the male end is properly seated.

Ensure all loose ends are properly tucked into webbing keepers so any loose webbing will not get tangled in equipment.

5.5.5 Confirmation of Proper Fit: Confirm torso length adjustment so the shoulder straps are not applying unnecessary pressure on the shoulders. Worker should be able to move around freely without the harness causing restriction in movement.

- Chest strap is six inches below the throat
- Torso length adjustment does not apply unnecessary pressure on the shoulders or allows leg straps to sag
- Dorsal D-ring is in between the shoulder blades
- Leg straps tightened to allow no more than a flat hand to pass through

6.0 Maintenance, Service, and Storage

6.1 Maintenance: Clean the FBH with water and mild detergent if necessary. Do not allow excessive build-up of dirt, paint, or other agents that may cause damage or hardening of the web fibers on any webbing. Hardening of the fibers of the web from external elements may result in a loss of strength or alter the properties of the web in a manner that could cause the FBH to fail or to perform incorrectly.

6.2 Proper Care:

- Keeping the FBH clean and free of contaminants will greatly increase the service life.
- Mold and mildew due to damp storage will reduce the service life.
- Use a damp rag and a mild soap and water solution to clean the hardware on this FBH (D-rings, buckles, adjusters, etc.). Wipe the hardware dry with a clean soft cloth.
- **DO NOT** use heat to dry.
- **DO NOT** use any solvents or petroleum products to clean this FBH.
- **DO NOT** attempt to repair or modify this FBH or any of its components. Such attempts will void the warranty and may result in serious injury or death.

6.3 Storage: Hang to store, out of direct sunlight. Avoid exposure to chemical agents and vapors, airborne debris, and water ingress. Store units tagged as “UNUSABLE” in a clearly marked area to prevent inadvertent use. Inspect any unit that has been stored for an extended time in accordance with the procedures detailed in Section 7.

7.0 Inspection

7.1 Pre-Use Inspection: Please review the Pre-Use Inspection guidelines in Section 5.4 for inspection requirements.

7.2 Inspection Frequency: FallTech requires all fall protection equipment to be inspected by a competent person other than the user at least once each year or more frequently if the conditions exist. FallTech strongly recommends that a competent person conducts a hazard assessment of the environment and determines the length of the inspection intervals due to the site conditions. The competent person inspection shall be recorded on an inspection log, including all deficiencies. This inspection should also be used as an opportunity to train any authorized persons with respect to deficiencies that they have failed to observe on their daily inspections.

Inspection and Revalidation				
Type of Use	Application Examples	Example Conditions of Use	Worker Inspection Frequency	Competent Person Inspection Frequency
Infrequent to Light Use	Rescue and confined space, factory maintenance	Good storage conditions, indoor or infrequent outdoor use, room temperature, clean environments	Before each use	Annually
Moderate to Heavy Use	Transportation, residential construction, utilities, warehouse	Fair storage conditions, indoor and extended outdoor use, all temperatures, clean or dusty environments	Before each use	Semi-annually to annually
Severe to Continuous Use	Commercial construction, oil and gas, mining, foundry	Harsh storage conditions, prolonged or continuous outdoor use, all temperatures, dirty environments	Before each use	Quarterly to semi-annually

7.3 Life Span: The Service Life is determined through a thorough inspection. Whenever the FBH fails to pass the inspection as outlined in this manual it should be removed from service.

7.3.1 Service Life: FallTech does not issue a fixed service life for its products. A product may be used indefinitely as long as it passes both the pre-use inspection and the competent person inspections described above. If the product fails inspection, it should be removed from service.

7.4 Inspection Results: If an inspection reveals defects in or damage to the equipment, inadequate maintenance or activated fall force indicators, mark as “UNUSABLE” and remove the equipment from service.

7.5 Inspection Document: Record inspection results on the Inspection Record provided on the following page, or on a similar document.

Inspection Record					
Model #: _____		Serial #: _____		Date of Manufacture: _____	
INSPECTION DATE	INSPECTOR	COMMENTS	PASS/ FAIL	CORRECTIVE ACTION NEEDED	APPROVED BY

8.0 Labels

The labels must be present and legible.

412-02785 Rev B Falltech Harnais / Imbricantes D'Arrière / De Derrière PAS À PAS / ÉCHELONNÉ	Style (estilo) #: 7008B	Serial No: No de Sér: 1234567
	Date of Mfr: Date de Fab: — MAY 2019	
	Date of Mfg: Fecha de Mfg:	
	Capacity: — OSHA 425 lbs	
	Capacité: — ANSI:130-310 lbs	Complies: Conforme:
	Material: — Polyester	OSHA 1926.502 ANSI Z359.11-2014 CSA Z259.10-2016
	Class/Classe: A	

Size / Grandeur / Taille
Universal

USER ID

! WARNING ! ADVERTENCIA !

USER MUST READ AND FOLLOW INSTRUCTIONS SUPPLIED WITH THIS PRODUCT AT TIME OF SHIPMENT. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY OR DEATH. INSPECT BEFORE EACH USE. SEE INSTRUCTIONS FOR INSPECTION PROCEDURES AND FOR RESTRICTIONS ON USE AND COMPATIBILITY.

VEA EL MANUAL DE INSTRUCCIONES DE ADVERTENCIAS DE USO. VOIR LE MANUEL DE GARDE D'UTILISATION.






! AVERTISSEMENT !

L'UTILISATEUR DOIT LIRE ET COMPRENDRE LES INSTRUCTIONS FOURNIES AVEC CE PRODUIT LORS DE L'EXPÉDITION. NE PAS LE FAIRE PEUT CAUSER DES BLESSURES SÉRIEUSES OU LA MORT. VOIR LES INSTRUCTIONS POUR LA COMPATIBILITÉ ET UTILISER LES RESTRICTIONS ET LES PROCÉDURES D'INSPECTION.

ANSI Z359.11-2014

ANSI Z359 Recognizes the use of this harness only within the capacity range of:
130-310 lbs.

412-00469 Rev A

Class A Full Arrest	Class P Work Positioning	Class D Suspension and Controlled Descent	Class L Ladder Climbing	Class E Limited Access
				
Arrêt Totalité de Classe A	Position de Travail	Suspension et Descente Contrôlée de Classe D	Montée en Echelle de Classe L	Espace Restreint Classe E

MARK OR PUNCH ON DATE GRID:
A) INITIAL IN-SERVICE DATE
B) DATE OF PASSED INSPECTION
MARQUER OU PONCIONNER SUR LA GRILLE DES DATES:
A) DATE DE MISE EN SERVICE INITIALE
B) DATE D'INSPECTION RÉUSSIE

Initials:									
Date:									

412-01612 Rev A

INSPECTION! INSPECT THIS PRODUCT BEFORE EACH USE. SEMI-ANNUAL INSPECTION BY A COMPETENT PERSON IS REQUIRED. DO NOT USE IF INSPECTION REVEALS UNSAFE OR DEFECTIVE CONDITIONS. REMOVE THE PRODUCT FROM SERVICE IMMEDIATELY IF IT HAS BEEN SUBJECTED TO FALL ARREST FORCES. SEE THE USER INSTRUCTION MANUAL FOR COMPLETE INSPECTION PROCEDURES.

412-00409 Rev A

INSPECTION! - INSPECTER CE PRODUIT AVANT CHAQUE UTILISATION. UNE INSPECTION SEMI-ANNUELLE PAR UNE PERSONNE COMPÉTENTE EST REQUISE. NE PAS UTILISER SI L'INSPECTION RÉVÈLE UNE CONDITION NON SÉCURITAIRE OU DÉFECTUEUSE. METTRE IMMÉDIATEMENT LE PRODUIT HORS SERVICE S'IL A ÉTÉ SOUMIS AUX FORCES D'UN ARRÊT DE CHÛTE. VOIR LE MANUEL D'INSTRUCTIONS DE L'UTILISATEUR POUR L'INTÉGRALITÉ DES PROCÉDURES D'INSPECTION.

9.0 Definitions

The following are general definitions of fall protection terms as defined by ANSI Z359.0-2012.

Anchorage - A secure connecting point or a terminating component of a fall protection system or rescue system capable of safely supporting the impact forces applied by a fall protection system or anchorage subsystem.

Anchorage Connector - A component or subsystem that functions as an interface between the anchorage and a fall protection, work positioning, rope access or rescue system for the purpose of coupling the system to the anchorage.

Arrest Distance - The total vertical distance required to arrest a fall. The arrest distance includes the deceleration distance and activation distance.

Authorized Person – A person assigned by the employer to perform duties at a location where the person will be exposed to a fall hazard.

Available Clearance - The distance from a reference point, such as the working platform, to the nearest obstruction that an authorized person might contact during a fall which, if struck, could cause injury.

Capacity - The maximum weight that a component, system or subsystem is designed to hold.

Certification - The act of attesting in writing that the criteria established by these standards or some other designated standard have been met.

Certified Anchorage - An anchorage for fall arrest, positioning, restraint or rescue systems that a qualified person certifies to be capable of supporting the potential fall forces that could be encountered during a fall.

Clearance - The distance from a specified reference point, such as the working platform or anchorage of a fall arrest system, to the lower level that a worker might encounter during a fall.

Clearance Requirement - The distance below an authorized person that must remain clear of obstructions in order to ensure that the authorized person does not make contact with any objects that would cause injury in the event of a fall.

Competent Person - An individual designated by the employer to be responsible for the immediate supervision, implementation and monitoring of the employer's managed fall protection program who, through training and knowledge, is capable of identifying, evaluating and addressing existing and potential fall hazards, and who has the employer's authority to take prompt corrective action with regard to such hazards.

Component - An element or integral assembly of interconnected elements intended to perform one function in the system.

Confined Space - OSHA defines a Confined Space as:

- Is large enough for an employee to enter fully and perform assigned work;
- Is not designed for continuous occupancy by the employee; and
- Has a limited or restricted means of entry or exit.

Connecting Subsystem - An assembly, including the necessary connectors, comprised of all components, subsystems, or both, between the anchorage or anchorage connector and the harness attachment point.

Connector - A component or element that is used to couple parts of the system together.

Deceleration Distance - The vertical distance between the user's fall arrest attachment at the onset of fall arrest forces during a fall, and after the fall arrest attachment comes to a complete stop.

Energy (Shock) Absorber - A component whose primary function is to dissipate energy and limit deceleration forces which the system imposes on the body during fall arrest.

Fall Arrest - The action or event of stopping a free fall or the instant where the downward free fall has been stopped.

Fall Hazard - Any location where a person is exposed to a potential free fall.

Free Fall - The act of falling before a fall protection system begins to apply forces to arrest the fall.

Free Fall Distance - The vertical distance traveled during a fall, measured from the onset of a fall from a walking working surface to the point at which the fall protection system begins to arrest the fall.

Harness, Full Body - A body support designed to contain the torso and distribute the fall arrest forces over at least the upper thighs, pelvis, chest and shoulders.

Horizontal Lifeline – A component of a horizontal lifeline subsystem, consisting of a flexible line with connectors or other coupling means at both ends for securing it horizontally between two anchorages or anchorage connectors.

Horizontal Lifeline Subsystem – An assembly, including the necessary connectors, comprised of a horizontal lifeline component and, optionally, of: a) An energy absorbing component or, b) A lifeline tensioner component, or both. This subsystem is normally attached at each end to an anchorage or anchorage connector. The end anchorages have the same elevation.

Lanyard - A component consisting of a flexible rope, wire rope or strap, which typically has a connector at each end for connecting to the body support and to a fall arrester, energy absorber, anchorage connector or anchorage.

Lanyard Connecting Subsystem - An assembly, including the necessary connectors, comprised of a lanyard only, or a lanyard and energy absorber.

Personal Fall Arrest System (PFAS) - An assembly of components and subsystems used to arrest a person in a free fall.

Positioning - The act of supporting the body with a positioning system for the purpose of working with hands free.

Positioning Lanyard - A lanyard used to transfer forces from a body support to an anchorage or anchorage connector in a positioning system.

Qualified Person - A person with a recognized degree or professional certificate and with extensive knowledge, training and experience in the fall protection and rescue field who is capable of designing, analyzing, evaluating and specifying fall protection and rescue systems.

Self-Retracting Device (SRD) - A device that contains a drum wound line that automatically locks at the onset of a fall to arrest the user, but that pays out from and automatically retracts onto the drum during normal movement of the person to whom the line is attached.

Snaphook - A connector comprised of a hook-shaped body with a normally closed gate or similar arrangement that may be opened to permit the hook to receive an object and, when released, automatically closes to retain the object.

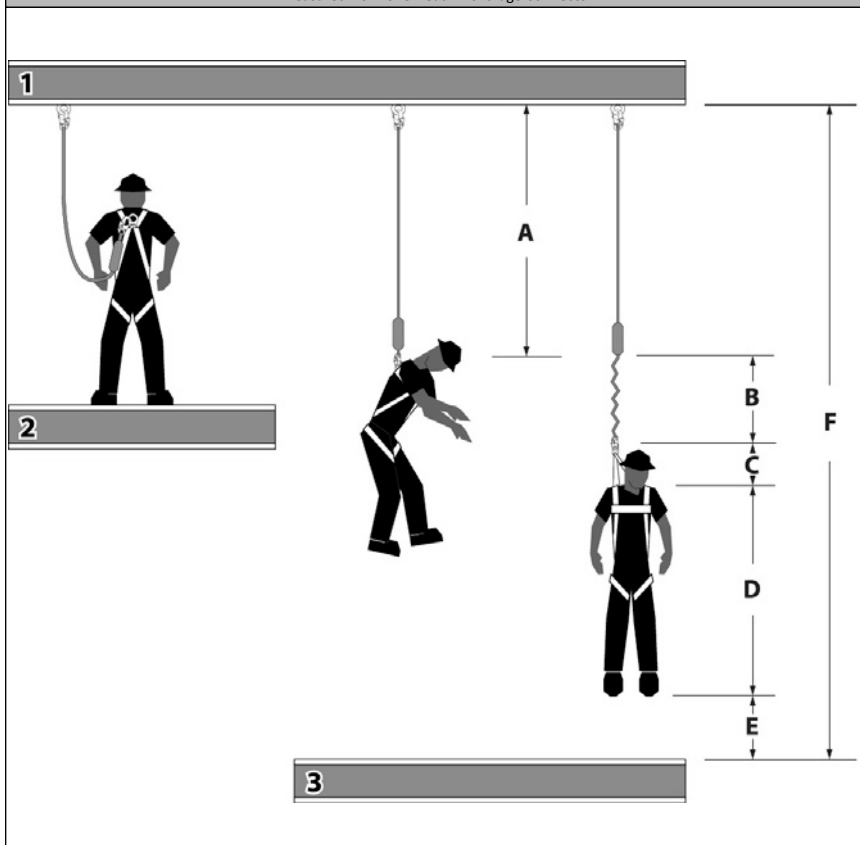
Swing Fall - A pendulum-like motion that occurs during and/or after a vertical fall. A swing fall results when an authorized person begins a fall from a position that is located horizontally away from a fixed anchorage.

Acronyms for Fall Protection and Fall Arrest			
ACTD	Activation Distance	HLL	Horizontal Lifeline
AD	Arrest Distance	MAF	Maximum Arrest Force
CSS	Connecting Subsystem	mm	Millimeter
DD	Deceleration Distance	PFAS	Personal Fall Arrest System
DDV	Deceleration Device	PPE	Personal Protective Equipment
FACSS	Fall Arrester Connecting Subsystem	SRD	Self-Retracting Device
FAS	Fall Arrest System	TFD	Total Fall Distance
FBH	Full Body Harness	VLL	Vertical Lifeline
FF	Free Fall	VLLSS	Vertical Lifeline Subsystem
FFD	Free Fall Distance	WPS	Work Positioning System
Other Acronyms for Fall Protection and Fall Arrest			
RGLS	Rope Grab Lanyard Set	ANSI	American National Standards Institute
EAL	Energy Absorbing Lanyard	CSA	Canadian Standards Association
SAL	Shock Absorbing Lanyard	OSHA	Occupational Safety and Health Administration
cm	Centimeters	ASTM	American Society for Testing and Materials
kN	Kilo-newtons	lbs	Pounds (Weight)
RPA	Rebar Positioning Assembly	TPA	Tower Positioning Assembly

APPENDIX A

Table 1A: Specifications for FallTech Full Body Harnesses		
Item #	Material Specifications	Capacity and Standards
<p>See Annex B for all Full Body Harness Part Numbers and Applicable Standards</p>	<p>Webbing: Polyester Coated Polyester Nylon Nomex Kevlar 22.2 kN (5,000 lbs) Min</p> <p>Connecting Elements: Plated Alloy Steel Aluminum Alloy Insulated Alloy Steel Overmold 22.2 kN (5,000 lbs) Min</p> <p>Adjusters/Buckles: Plated Alloy Steel Aluminum Alloy Insulated Alloy Steel Overmold 15 kN (3,375 lbs) Min</p>	<p>Single User Capacity:</p> <p>ANSI User Capacity: ANSI Z359.11-2014 59 to 140.6 kg Max (130 to 310 lbs Max) (combined weight of user, tools, clothing, etc.)</p> <p>OSHA User Capacity: OSHA 1926.502 OSHA 1910.66 59 to 192.8 kg Max (130 to 425 lbs Max) (combined weight of user, tools, clothing, etc.)</p> <p>CSA User Capacity: CSA Z259.10-2012 54.4 to 158.8 kg Max (120 to 350 lbs Max) (combined weight of user, tools, clothing, etc.)</p>

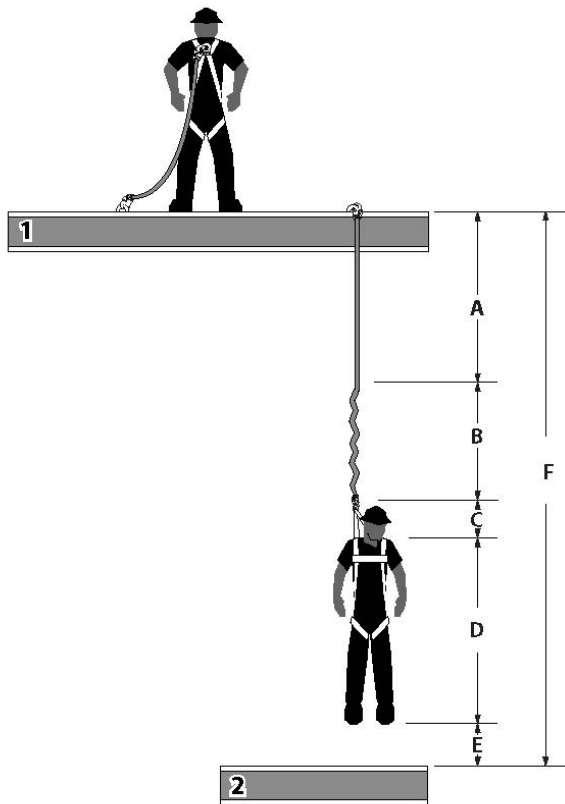
Figure 1 - Minimum Clear Fall Requirement: 6 ft Energy Absorbing Lanyard
Measured from Overhead Anchorage Connector



A	6 ft (1.8 m)	Length of Energy Absorbing Lanyard Original working length before a fall event occurs/before activation of energy absorber
B	4 ft (1.2 m)	Elongation/Deceleration Distance Maximum allowable amount of elongation that may payout from the energy absorber upon activation during a fall event
C	1 ½ ft (0.5 m)	Harness Stretch and Dorsal D-Ring Shift Combined amount of harness webbing elongation and dorsal back D-ring up-shift during entire fall event
D	5 ft (1.5 m)	Height of Dorsal D-ring Typical average height of the dorsal D-Ring on a user's full body harness measured from the walking/working surface up
E	1 ½ ft (0.5 m)	Safety Factor Added length to account for other factors such as an improperly adjusted harness, actual worker height or worker weight
F	18 ft (5.5 m)	Total Minimum Clear Fall Distance Required

1. Overhead Anchorage 2. Walking/Working Surface
3. Nearest Lower Level or Obstruction

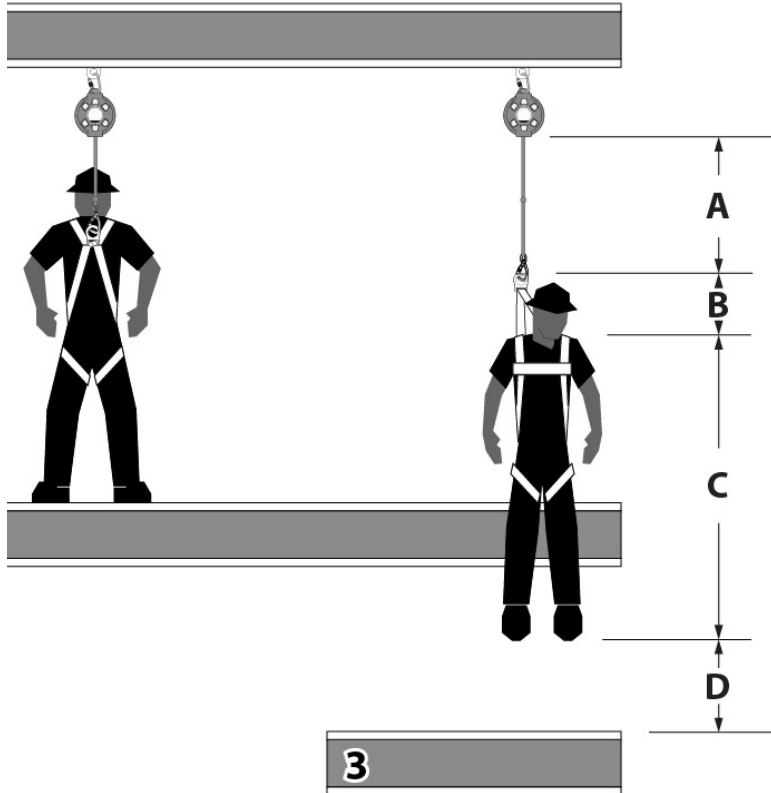
Figure 2 - Minimum Clear Fall Requirement: 12 ft Energy Absorbing Lanyard
 Measured from Foot Level Anchorage Connector



A	6 ft (1.8 m)	Length of Energy Absorbing Lanyard Original working length before a fall event occurs/before activation of energy absorber
B	5 ft (1.5 m)	Elongation/Deceleration Distance Maximum allowable amount of elongation that may payout from the energy absorber upon activation during a fall event
C	1 ½ ft (0.5 m)	Harness Stretch and Dorsal D-Ring Shift Combined amount of harness webbing elongation and dorsal back D-ring up-shift during entire fall event
D	5 ft (1.5 m)	Height of Dorsal D-ring Typical average height of the dorsal D-Ring on a user's full body harness measured from the walking/working surface up
E	1 ½ ft (0.5 m)	Safety Factor Added length to account for other factors such as an improperly adjusted harness, actual worker height or worker weight
F	19 ft (5.8 m)	Total Minimum Clear Fall Distance Required

1. Walking/Working Surface 2. Nearest Lower Level or Obstruction

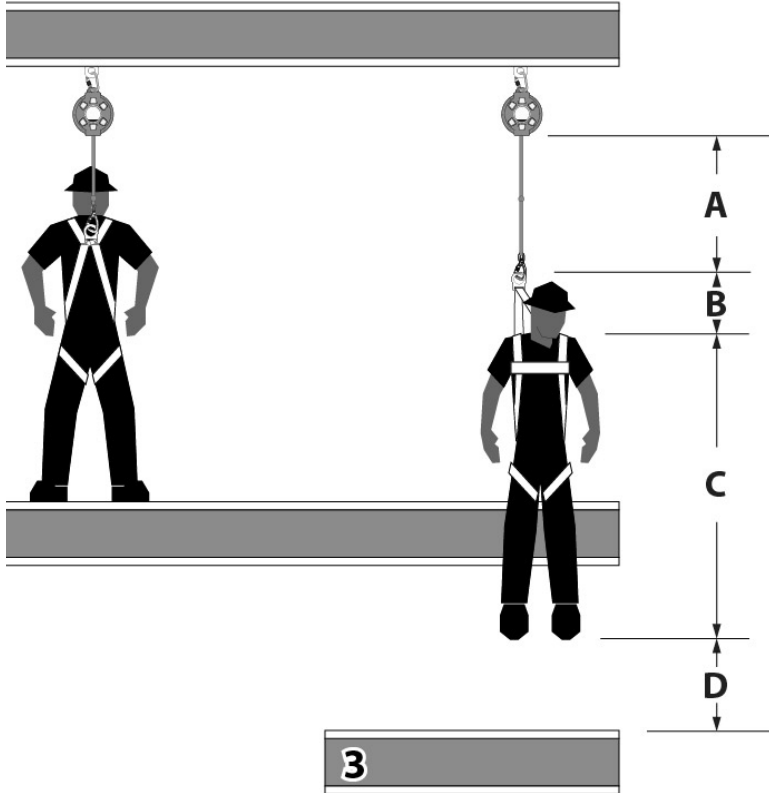
Figure 3 - Minimum Clear Fall Requirement: ANSI Class A Self Retracting Lanyard



A	2 ft (0.6 m)	Activation/Deceleration Distance Maximum allowable length of cable or web that may payout from the SRD once deceleration of the user has begun and after a fall event occurs
B	1 ½ ft (0.5 m)	Harness Stretch and Dorsal D-Ring Shift Combined amount of harness webbing elongation and dorsal D-ring up-shift during entire fall event
C	5 ft (1.5 m)	Height of Dorsal D-Ring Typical average height of the dorsal D-ring on a user's full body harness measured from the walking/working surface up
D	1 ½ ft (0.5 m)	Safety Factor Added length to account for other factors such as an improperly adjusted harness, actual worker height or worker weight
E	10 ft (3.1 m)	Total Minimum Clear Fall Distance Required

1. Overhead Anchorage 2. Walking/Working Surface 3. Nearest Lower Level or Obstruction

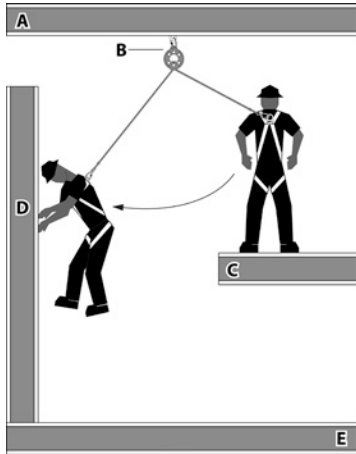
Figure 4 - Minimum Clear Fall Requirement: ANSI Class B Self Retracting Lanyard



A	4 ½ ft (1.4 m)	Activation/Deceleration Distance Maximum allowable length of cable or web that may payout from the SRD once deceleration of the user has begun and after a fall event occurs
B	1 ½ ft (0.5 m)	Harness Stretch and Dorsal D-Ring Shift Combined amount of harness webbing elongation and dorsal D-ring up-shift during entire fall event
C	5 ft (1.5 m)	Height of Dorsal D-Ring Typical average height of the dorsal D-ring on a user's full body harness measured from the walking/working surface up
D	1 ½ ft (0.5 m)	Safety Factor Added length to account for other factors such as an improperly adjusted harness, actual worker height or worker weight
E	12 ½ ft (3.9 m)	Total Minimum Clear Fall Distance Required

1. Overhead Anchorage 2. Walking/Working Surface 3. Nearest Lower Level or Obstruction

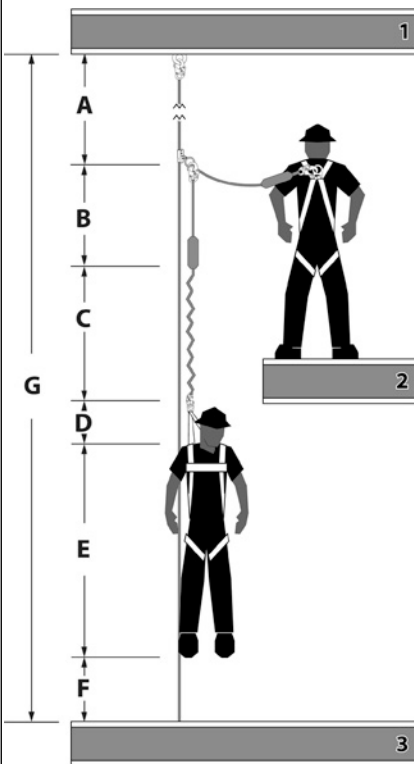
Figure 5 - Swing Fall Hazard



A	Anchorage
B	6' Single-leg Self-Retracting Device
C	Walking/Working Surface
D	Swing Fall Impact After Fall Event
E	Next Lower Level or Obstruction

Figure 6 - Managing Stretch

Minimum Clear Fall Requirement: Vertical Lifeline System

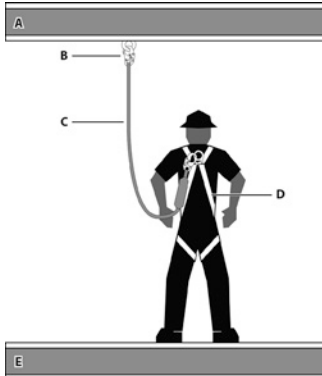


*A	Stretch	Stretch of Vertical Lifeline Stretch = Length of the VLL from the Anchorage Connector to Rope Grab position on the VLL multiplied by 10%
B	3 ft (0.9 m)	Length of Energy Absorbing Lanyard Original working length before a fall event occurs/before activation of energy absorber
C	4 ft (1.2 m)	Elongation/Deceleration Distance Maximum allowable amount of elongation that may payout from the energy absorber upon activation during a fall event
D	1 ½ ft (0.5 m)	Harness Stretch and Dorsal D-Ring Shift Combined amount of harness webbing elongation and dorsal back D-Ring up-shift during entire fall event
E	5 ft (1.5 m)	Height of Dorsal D-Ring Typical average height of the dorsal D-Ring on a user's full body harness, measured from the walking/working surface up
F	1 ½ ft (0.5 m)	Safety Factor Added length for other factors such as an improperly adjusted harness, actual worker height or worker weight
*G	Add A through F	Total Minimum Clear Fall Distance Required * Must calculate the distance for A

1. Overhead Anchorage 2. Walking/Working Surface
3. Nearest Lower Level or Obstruction

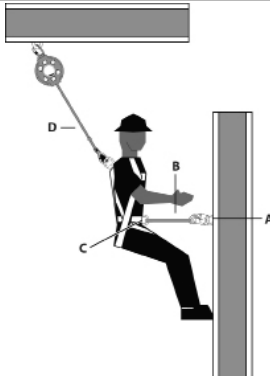
Common Fall Protection Applications

Figure 7 - Fall Arrest (PFAS)



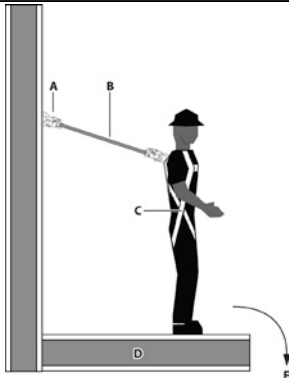
A	Anchorage
B	Anchorage Connector
C	Energy Absorbing Lanyard (EAL)
D	Full Body Harness (FBH)
E	Walking/Working Surface

Figure 8 - Work Positioning



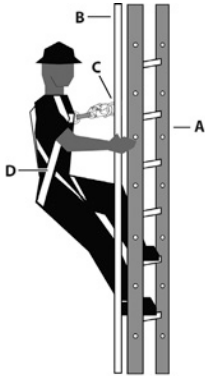
A	Positioning Anchor
B	Positioning Lanyard
C	Full Body Harness (FBH) with Side D-Rings
D	Back-up Fall Arrest

Figure 9 - Restraint



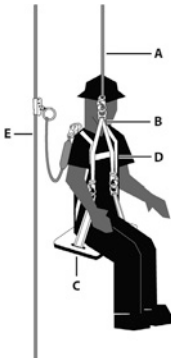
A	Restraint Anchor
B	Restraint Lanyard
C	Full Body Harness (FBH)
D	Walking/Working Surface
E	Fall Hazard Area

Figure 10 - Climbing



A	Fixed Ladder
B	Ladder Safety System
C	Carrier Sleeve/Grab/Trolley
D	Full Body Harness (FBH) with Front D-Rings

Figure 11 - Suspension/Personnel Riding



A	Suspension Line
B	Suspension Yoke
C	Boatswain (Bosun) Chair/Work Seat
D	Full Body Harness (FBH)
E	Back-up Fall Arrest

Figure 12 - Rescue/Retrieval



A	Retrieval Line
B	Retrieval Yoke
C	FBH Shoulder D-Rings
D	Full Body Harness (FBH)

Annex A

ANSI/ASSE Z359 Requirements for Proper Use and Maintenance of Full Body Harnesses

Note: These are general requirements and information provided by ANSI/ASSE Z359, the manufacturer of this equipment may impose more stringent restrictions on the use of the products they manufacture, see the manufacturer's instructions.

1. It is essential that the users of this type of equipment receive proper training and instruction, including detailed procedures for the safe use of such equipment in their work application. ANSI/ASSE Z359.2, Minimum Requirements for a Comprehensive Managed Fall Protection Program, establishes guidelines and requirements for an employer's managed fall protection program, including policies, duties and training; fall protection procedures; eliminating and controlling fall hazards; rescue procedures; incident investigations; and evaluating program effectiveness.
2. Correct fit of a Full Body Harness is essential to proper performance. Users must be trained to select the size and maintain the fit of their Full Body Harness.
3. Users must follow manufacturer's instructions for proper fit and sizing, paying particular attention to ensure that buckles are connected and aligned correctly, leg straps and shoulder straps are kept snug at all times, chest straps are located in the middle chest area and leg straps are positioned and snug to avoid contact with the genitalia should a fall occur.
4. Full Body Harnesses which meet ANSI/ASSE Z359.11 are intended to be used with other components of a Personal Fall Arrest system that limit maximum arrest forces to 1800 pounds (8 kn) or less.
5. Suspension intolerance, also called suspension trauma or orthostatic intolerance, is a serious condition that can be controlled with good harness design, prompt rescue and post fall suspension relief devices. A conscious user may deploy a suspension relief device allowing the user to remove tension from around the legs, freeing blood flow, which can delay the onset of suspension intolerance. An attachment element extender is not intended to be attached directly to an anchorage or anchorage connector for fall arrest. An energy absorber must be used to limit maximum arrest forces to 1800 pounds (8kn). The length of the attachment element extender may affect free fall distances and free fall clearance calculations.
6. Full Body Harness (FBH) Stretch, the amount the FBH component of a personal fall arrest system will stretch and deform during a fall, can contribute to the overall elongation of the system in stopping a fall. It is important to include the increase in fall distance created by FBH Stretch, as well as the FBH connector length, the settling of the user's body in the FBH and all other contributing factors when calculating total clearance required for a particular fall arrest system.
7. When not in use, unused lanyard legs that are still attached to a Full Body Harness D-ring should not be attached to a work positioning element or any other structural element on the Full Body Harness unless deemed acceptable by the competent person and manufacturer of the lanyard. This is especially important when using some types of "Y" style lanyards, as some load may be transmitted to the user through the unused lanyard leg if it is not able to release from the harness. The lanyard parking attachment is generally located in the sternal area to help reduce tripping and entanglement hazards.
8. Loose ends of straps can get caught in machinery or cause accidental disengagement of an adjuster. All Full Body Harnesses shall include keepers or other components which serve to control the loose ends of straps.
9. Due to the nature of soft loop connections, it is recommended that soft loop attachments only be used to connect with other soft loops or carabiners. Snaphooks should not be used unless approved for the application by the manufacturer.

Sections 10-16 provide additional information concerning the location and use of various attachments that may be provided on this FBH.

10. **Dorsal** – The dorsal attachment element shall be used as the primary fall arrest attachment, unless the application allows the use of an alternate attachment. The dorsal attachment may also be used for travel restraint or rescue. When supported by the dorsal attachment during a fall, the design of the Full Body Harness shall direct load through the shoulder straps supporting the user, and around the thighs. Supporting the user, post fall, by the dorsal attachment will result in an upright body position with a slight lean to the front with some slight pressure to the lower chest. Considerations should be made when choosing a sliding versus fixed dorsal attachment element. Sliding dorsal attachments are generally easier to adjust to different user sizes, and allow a more vertical rest position post fall, but can increase FBH Stretch.
11. **Sternal** – The sternal attachment may be used as an alternative fall arrest attachment in applications where the dorsal attachment is determined to be inappropriate by a competent person, and where there is no chance to fall in a direction other than feet first. Accepted practical uses for a sternal attachment include, but are not limited to, ladder climbing with a guided type fall arrester, ladder climbing with an overhead self-retracting lifeline for fall arrest, work positioning and rope access. The sternal attachment may also be used for travel restraint or rescue. When supported by the sternal attachment during a fall, the design of the Full Body Harness shall direct load through the shoulder straps supporting the user, and around the thighs. Supporting the user, post fall, by the sternal attachment will result in roughly a sitting or cradled body position with weight concentrated on the thighs, buttocks and lower back. Supporting the user during work positioning by this sternal attachment will result in an approximate upright body position. If the sternal attachment is used for fall arrest, the competent person evaluating the application should take measures to ensure that a fall can only occur feet first. This may include limiting the allowable free fall distance. It may be possible for a sternal attachment incorporated into an adjustable style chest strap to cause the chest strap to slide up and possibly choke the user during a fall, extraction, suspension, etc. The competent person should consider Full Body Harness models with a fixed sternal attachment for these applications. This may include limiting the allowable free fall distance. It may be possible for a sternal attachment incorporated

into an adjustable style chest strap to cause the chest strap to slide up and possibly choke the user during a fall, extraction, suspension, etc. The competent person should consider Full Body Harness models with a fixed sternal attachment for these applications.

12. **Frontal** – The frontal attachment serves as a ladder climbing connection for guided type fall arresters where there is no chance to fall in a direction other than feet first, or may be used for work positioning. Supporting the user, post fall or during work positioning, by the frontal attachment will result in a sitting body position, with the upper torso upright, with weight concentrated on the thighs and buttocks. When supported by the frontal attachment the design of the Full Body Harness shall direct load directly around the thighs and under the buttocks by means of the sub-pelvic strap. If the frontal attachment is used for fall arrest, the competent person evaluating the application should take measures to ensure that a fall can only occur feet first. This may include limiting the allowable free fall distance.
13. **Shoulder** – The shoulder attachment elements shall be used as a pair, and are an acceptable attachment for rescue and entry/retrieval. The shoulder attachment elements shall not be used for fall arrest. It is recommended that the shoulder attachment elements be used in conjunction with a yoke which incorporates a spreader element to keep the Full Body Harness shoulder straps separate.
14. **Waist, Rear** – The waist, rear attachment shall be used solely for travel restraint. The waist, rear attachment element shall not be used for fall arrest. Under no circumstances is it acceptable to use the waist, rear attachment for purposes other than travel restraint. The waist, rear attachment shall only be subjected to minimal loading through the waist of the user, and shall never be used to support the full weight of the user.
15. **Hip** – The hip attachment elements shall be used as a pair, and shall be used solely for work positioning. The hip attachment elements shall not be used for fall arrest. Hip attachments are often used for work positioning by arborists, utility workers climbing poles and construction workers tying rebar and climbing on form walls. Users are cautioned against using the hip attachment elements (or any other rigid point on the Full Body Harness) to store the unused end of a fall arrest lanyard, as this may cause a tripping hazard, or, in the case multiple leg lanyards, could cause adverse loading to the Full Body Harness and the wearer through the unused portion of the lanyard.
16. **Suspension Seat** – The suspension seat attachment elements shall be used as a pair, and shall be used solely for work positioning. The suspension seat attachment elements shall not be used for fall arrest. Suspension seat attachments are often used for prolonged work activities where the user is suspended, allowing the user to sit on the suspension seat formed between the two attachment elements. An example of this use would be window washers on large buildings.

User Inspection, Maintenance, and Storage of Equipment

Users of personal fall arrest systems shall, at a minimum, comply with all manufacturer instructions regarding the inspection, maintenance and storage of the equipment. The user's organization shall retain the manufacturer's instructions and make them readily available to all users. See ANSI/ASSE Z359.2, Minimum Requirements for a Comprehensive Managed Fall Protection Program, regarding user inspection, maintenance and storage of equipment.

1. In addition to the inspection requirements set forth in the manufacturer's instructions, the equipment shall be inspected by the user before each use and, additionally, by a competent person, other than the user, at interval of no more than one year for:
 - **Absence** or illegibility of markings.
 - **Absence** of any elements affecting the equipment form, fit or function.
 - **Evidence** of defects in, or damage to, hardware elements including cracks, sharp edges, deformation, corrosion, chemical attack, excessive heating, alteration and excessive wear.
 - **Evidence** of defects in or damage to strap 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.
2. Inspection criteria for the equipment shall be set by the user's organization. Such criteria for the equipment shall equal or exceed the criteria established by this standard or the manufacturer's instructions, whichever is greater.
3. When inspection reveals defects in, damage to, or inadequate maintenance of equipment, the equipment shall be permanently removed from service or undergo adequate corrective maintenance, by the original equipment manufacturer or their designate, before return to service.

Maintenance and Storage

1. Maintenance and storage of equipment shall be conducted by the user's organization in accordance with the manufacturer's instructions. Unique issues, which may arise due to conditions of use, shall be addressed with the manufacturer.
2. Equipment which is in need of, or scheduled for, maintenance shall be tagged as unusable and removed from service.
3. Equipment shall be stored in a manner as to preclude damage from environmental factors such as temperature, light, UV, excessive moisture, oil, chemicals and their vapors or other degrading elements.

Annex B

Item Number	ANSI Compliance	CSA Compliance	Item Number	ANSI Compliance	CSA Compliance
7006	ANSI Z359.11-2014	CSA Z259.10-2018	7010T	OSHA 1926.502	
7007	ANSI Z359.11-2014	CSA Z259.10-2018	7010XL	ANSI Z359.11-2014	CSA Z259.10-2018
7008	ANSI Z359.11-2014	CSA Z259.10-2018	7010XXL	ANSI Z359.11-2014	CSA Z259.10-2018
7009	ANSI Z359.11-2014	CSA Z259.10-2018	70152X	ANSI Z359.11-2014	
7010	ANSI Z359.11-2014	CSA Z259.10-2018	70152X3XL	ANSI Z359.11-2014	
7015	ANSI Z359.11-2014	CSA Z259.10-2018	70152X3XO	ANSI Z359.11-2014	CSA Z259.10-2018
7016	ANSI Z359.11-2014	CSA Z259.10-2018	70153X	ANSI Z359.11-2014	CSA Z259.10-2018
7017	ANSI Z359.11-2014	CSA Z259.10-2018	7015B	ANSI Z359.11-2014	CSA Z259.10-2018
7018	ANSI Z359.11-2014	CSA Z259.10-2018	7015BX/2X	ANSI Z359.11-2014	CSA Z259.10-2018
7021	ANSI Z359.11-2014	CSA Z259.10-2018	7015LXL	ANSI Z359.11-2014	CSA Z259.10-2018
7023	ANSI Z359.11-2014	CSA Z259.10-2018	7015LXO	ANSI Z359.11-2014	CSA Z259.10-2018
7027	ANSI Z359.11-2014	CSA Z259.10-2018	7015SML	ANSI Z359.11-2014	CSA Z259.10-2018
7028	ANSI Z359.11-2014	CSA Z259.10-2018	7015SMO	ANSI Z359.11-2014	CSA Z259.10-2018
7029	ANSI Z359.11-2014	CSA Z259.10-2018	7015XL	ANSI Z359.11-2014	CSA Z259.10-2018
7037	ANSI Z359.11-2014	CSA Z259.10-2018	7015XS	ANSI Z359.11-2014	CSA Z259.10-2018
7039	ANSI Z359.11-2014	CSA Z259.10-2018	70162X3XL	ANSI Z359.11-2014	
7047	ANSI Z359.11-2014		70163X	ANSI Z359.11-2014	CSA Z259.10-2018
7049	OSHA 1926.502		7016B	ANSI Z359.11-2014	CSA Z259.10-2018
7051	OSHA 1926.502		7016B3X	ANSI Z359.11-2014	
8026	OSHA 1926.502		7016BDL/X	ANSI Z359.11-2014	
8076	ANSI Z359.11-2014		7016BDQ2X	ANSI Z359.11-2014	
8087	ANSI Z359.11-2014		7016BDQL/X	ANSI Z359.11-2014	
7006B	ANSI Z359.11-2014	CSA Z259.10-2018	7016BDQS/M	ANSI Z359.11-2014	
7006BQCS	ANSI Z359.11-2014		7016BDS/M	ANSI Z359.11-2014	
7006BX/2X	ANSI Z359.11-2014	CSA Z259.10-2018	7016BE2X	ANSI Z359.11-2014	
7006XL	ANSI Z359.11-2014	CSA Z259.10-2018	7016BEL/X	ANSI Z359.11-2014	
7006XXL	ANSI Z359.11-2014	CSA Z259.10-2018	7016BEQ2X	ANSI Z359.11-2014	
70073X	ANSI Z359.11-2014	CSA Z259.10-2018	7016BEQL/X	ANSI Z359.11-2014	
7007XL	ANSI Z359.11-2014	CSA Z259.10-2018	7016BEQS/M	ANSI Z359.11-2014	
7007XX	ANSI Z359.11-2014	CSA Z259.10-2018	7016BES/M	ANSI Z359.11-2014	
70083X	ANSI Z359.11-2014	CSA Z259.10-2018	7016BX/2X	ANSI Z359.11-2014	CSA Z259.10-2018
7008B	ANSI Z359.11-2014	CSA Z259.10-2018	7016BXS	ANSI Z359.11-2014	
7008B3X	ANSI Z359.11-2014	CSA Z259.10-2018	7016L	ANSI Z359.11-2014	
7008BHVD	ANSI Z359.11-2014		7016LX/2X	ANSI Z359.11-2014	
7008BHVD3X	ANSI Z359.11-2014		7016LXL	ANSI Z359.11-2014	CSA Z259.10-2018
7008BHVDX/2X	ANSI Z359.11-2014		7016PC	ANSI Z359.11-2014	
7008BHVDXS	ANSI Z359.11-2014		7016QC	ANSI Z359.11-2014	CSA Z259.10-2018
7008BX/2X	ANSI Z359.11-2014	CSA Z259.10-2018	7016QC3X	ANSI Z359.11-2014	CSA Z259.10-2018
7008BXS	ANSI Z359.11-2014	CSA Z259.10-2018	7016QCX/2X	ANSI Z359.11-2014	CSA Z259.10-2018
7008PC	ANSI Z359.11-2014		7016QCXS	ANSI Z359.11-2014	CSA Z259.10-2018
7008T	OSHA 1926.502		7016X/2X	ANSI Z359.11-2014	CSA Z259.10-2018
7008XL	ANSI Z359.11-2014	CSA Z259.10-2018	7016XLPC	ANSI Z359.11-2014	
7008XX	ANSI Z359.11-2014	CSA Z259.10-2018	7016XS	ANSI Z359.11-2014	CSA Z259.10-2018
70092X	ANSI Z359.11-2014	CSA Z259.10-2018	70172X	ANSI Z359.11-2014	CSA Z259.10-2018
7009B	ANSI Z359.11-2014	CSA Z259.10-2018	70173X	ANSI Z359.11-2014	CSA Z259.10-2018
7009BX/2X	ANSI Z359.11-2014	CSA Z259.10-2018	7017B	ANSI Z359.11-2014	
7009XL	ANSI Z359.11-2014	CSA Z259.10-2018	7017BX/2X	ANSI Z359.11-2014	
7010B	ANSI Z359.11-2014	CSA Z259.10-2018	7017SMFD	ANSI Z359.11-2014	CSA Z259.10-2018
7010BX/2X	ANSI Z359.11-2014	CSA Z259.10-2018	7017XL	ANSI Z359.11-2014	CSA Z259.10-2018
7010E	ANSI Z359.11-2014		70182X	ANSI Z359.11-2014	CSA Z259.10-2018

Item Number	ANSI Compliance	CSA Compliance	Item Number	ANSI Compliance	CSA Compliance
70182X3XL	ANSI Z359.11-2014	CSA Z259.10-2018	70232X	ANSI Z359.11-2014	CSA Z259.10-2018
70182X3XO	ANSI Z359.11-2014	CSA Z259.10-2018	70233X	ANSI Z359.11-2014	CSA Z259.10-2018
70183X	ANSI Z359.11-2014	CSA Z259.10-2018	70234X	ANSI Z359.11-2014	CSA Z259.10-2018
7018B	ANSI Z359.11-2014	CSA Z259.10-2018	7023B	ANSI Z359.11-2014	CSA Z259.10-2018
7018BX/2X	ANSI Z359.11-2014	CSA Z259.10-2018	7023B2X	ANSI Z359.11-2014	
7018LXL	ANSI Z359.11-2014	CSA Z259.10-2018	7023B3X	ANSI Z359.11-2014	
7018LXO	ANSI Z359.11-2014	CSA Z259.10-2018	7023BFD2X	OSHA 1926.502	
7018SML	ANSI Z359.11-2014	CSA Z259.10-2018	7023BFDL	OSHA 1926.502	
7018SMO	ANSI Z359.11-2014	CSA Z259.10-2018	7023BFDM	OSHA 1926.502	
7018XL	ANSI Z359.11-2014	CSA Z259.10-2018	7023BFDS	OSHA 1926.502	
7018XS	ANSI Z359.11-2014	CSA Z259.10-2018	7023BFDXL	OSHA 1926.502	
7019A	ANSI Z359.11-2014	CSA Z259.10-2018	7023BL/X	ANSI Z359.11-2014	
7019AX/2X	ANSI Z359.11-2014	CSA Z259.10-2018	7023BQC	ANSI Z359.11-2014	CSA Z259.10-2018
7019B	ANSI Z359.11-2014	CSA Z259.10-2018	7023BQCCLXL	ANSI Z359.11-2014	CSA Z259.10-2018
7019BX/2X	ANSI Z359.11-2014	CSA Z259.10-2018	7023BQCSCM	ANSI Z359.11-2014	CSA Z259.10-2018
70212XL	ANSI Z359.11-2014	CSA Z259.10-2018	7023BQCXL	ANSI Z359.11-2014	CSA Z259.10-2018
70213X	ANSI Z359.11-2014	CSA Z259.10-2018	7023BS/M	ANSI Z359.11-2014	
70214X	ANSI Z359.11-2014	CSA Z259.10-2018	7023BXL	ANSI Z359.11-2014	CSA Z259.10-2018
7021B	ANSI Z359.11-2014	CSA Z259.10-2018	7023FD2X	ANSI Z359.11-2014	
7021B2X	ANSI Z359.11-2014	CSA Z259.10-2018	7023FDL	ANSI Z359.11-2014	
7021BCS	ANSI Z359.11-2014		7023FDM	ANSI Z359.11-2014	
7021BCS2X	ANSI Z359.11-2014		7023FDS	ANSI Z359.11-2014	
7021BCSXL	ANSI Z359.11-2014		7023FDXL	ANSI Z359.11-2014	
7021BFD2X	OSHA 1926.502		7023QC	ANSI Z359.11-2014	CSA Z259.10-2018
7021BFDL	OSHA 1926.502		7023XL	ANSI Z359.11-2014	CSA Z259.10-2018
7021BFDM	OSHA 1926.502	CSA Z259.10-2018	7026B2L	ANSI Z359.11-2014	
7021BFDS	OSHA 1926.502		7026B2M	ANSI Z359.11-2014	
7021BFDXL	OSHA 1926.502		7026B2S	ANSI Z359.11-2014	
7021BFQC	ANSI Z359.11-2014		7026B2XL	ANSI Z359.11-2014	
7021BFQC2X	ANSI Z359.11-2014		7026BL	ANSI Z359.11-2014	CSA Z259.10-2018
7021BFQC3X	ANSI Z359.11-2014		7026BM	ANSI Z359.11-2014	CSA Z259.10-2018
7021BFQCXL	ANSI Z359.11-2014		7026BS	ANSI Z359.11-2014	CSA Z259.10-2018
7021BQC	ANSI Z359.11-2014	CSA Z259.10-2018	7026BXL	ANSI Z359.11-2014	CSA Z259.10-2018
7021BQC2X	ANSI Z359.11-2014	CSA Z259.10-2018	70272XL	ANSI Z359.11-2014	CSA Z259.10-2018
7021BQCXL	ANSI Z359.11-2014	CSA Z259.10-2018	70273X	ANSI Z359.11-2014	CSA Z259.10-2018
7021BXL	ANSI Z359.11-2014	CSA Z259.10-2018	7027B	ANSI Z359.11-2014	CSA Z259.10-2018
7021FD2X	ANSI Z359.11-2014	CSA Z259.10-2018	7027BXL	ANSI Z359.11-2014	CSA Z259.10-2018
7021FD3X	ANSI Z359.11-2014	CSA Z259.10-2018	7027XL	ANSI Z359.11-2014	CSA Z259.10-2018
7021FDL	ANSI Z359.11-2014	CSA Z259.10-2018	7028X/2X	ANSI Z359.11-2014	CSA Z259.10-2018
7021FDM	ANSI Z359.11-2014	CSA Z259.10-2018	70292X	ANSI Z359.11-2014	CSA Z259.10-2018
7021FDS	ANSI Z359.11-2014	CSA Z259.10-2018	70293X	ANSI Z359.11-2014	CSA Z259.10-2018
7021FDXL	ANSI Z359.11-2014	CSA Z259.10-2018	7029B	ANSI Z359.11-2014	CSA Z259.10-2018
7021LX	ANSI Z359.11-2014		7029BXL	ANSI Z359.11-2014	CSA Z259.10-2018
7021QC	ANSI Z359.11-2014	CSA Z259.10-2018	7029XL	ANSI Z359.11-2014	CSA Z259.10-2018
7021QC2X3X	ANSI Z359.11-2014	CSA Z259.10-2018	7029XS	ANSI Z359.11-2014	CSA Z259.10-2018
7021QC2X3X	ANSI Z359.11-2014	CSA Z259.10-2018	70343X	ANSI Z359.11-2014	CSA Z259.10-2018
7021QCXL	ANSI Z359.11-2014	CSA Z259.10-2018	7034L	ANSI Z359.11-2014	CSA Z259.10-2018
7021SM	ANSI Z359.11-2014		7034M	ANSI Z359.11-2014	CSA Z259.10-2018
7021XL	ANSI Z359.11-2014	CSA Z259.10-2018	7034S	ANSI Z359.11-2014	CSA Z259.10-2018
7021XS	ANSI Z359.11-2014	CSA Z259.10-2018	7034XL	ANSI Z359.11-2014	CSA Z259.10-2018

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7034XX	ANSI Z359.11-2014	CSA Z259.10-2018	70473X	ANSI Z359.11-2014	
70353XL	ANSI Z359.11-2014	CSA Z259.10-2018	7047BFDL	ANSI Z359.11-2014	
70354XL	ANSI Z359.11-2014	CSA Z259.10-2018	7047BFDM	ANSI Z359.11-2014	
7035B2X	ANSI Z359.11-2014	CSA Z259.10-2018	7047BFDS	ANSI Z359.11-2014	
7035B3X	ANSI Z359.11-2014	CSA Z259.10-2018	7047BFDL	ANSI Z359.11-2014	
7035BL	ANSI Z359.11-2014	CSA Z259.10-2018	7047CQC	ANSI Z359.11-2014	
7035BM	ANSI Z359.11-2014	CSA Z259.10-2018	7047CQC2X	ANSI Z359.11-2014	
7035BQCL	ANSI Z359.11-2014	CSA Z259.10-2018	7047CQC3X	ANSI Z359.11-2014	
7035BQCM	ANSI Z359.11-2014	CSA Z259.10-2018	7047CQC2D2X	ANSI Z359.11-2014	
7035BQCS	ANSI Z359.11-2014	CSA Z259.10-2018	7047CQC2DL	ANSI Z359.11-2014	
7035BQCXL	ANSI Z359.11-2014	CSA Z259.10-2018	7047CQC2DML	ANSI Z359.11-2014	
7035BS	ANSI Z359.11-2014	CSA Z259.10-2018	7047CQC2DMS	ANSI Z359.11-2014	
7035BXL	ANSI Z359.11-2014	CSA Z259.10-2018	7047CQC2DML	ANSI Z359.11-2014	
7035FD2X	ANSI Z359.11-2014		7047CQCXL	ANSI Z359.11-2014	
7035FD3X	ANSI Z359.11-2014		7047FDL	ANSI Z359.11-2014	
7035FDL	ANSI Z359.11-2014	CSA Z259.10-2018	7047FDM	ANSI Z359.11-2014	
7035FDM	ANSI Z359.11-2014	CSA Z259.10-2018	7047FDS	ANSI Z359.11-2014	
7035FDS	ANSI Z359.11-2014	CSA Z259.10-2018	7047FDL	ANSI Z359.11-2014	
7035FDXL	ANSI Z359.11-2014	CSA Z259.10-2018	7047QC2X	ANSI Z359.11-2014	
7035L	ANSI Z359.11-2014	CSA Z259.10-2018	7047QC3X	ANSI Z359.11-2014	
7035M	ANSI Z359.11-2014	CSA Z259.10-2018	7047QCL	ANSI Z359.11-2014	
7035QC2X	ANSI Z359.11-2014	CSA Z259.10-2018	7047QCM	ANSI Z359.11-2014	
7035QC3X4X	ANSI Z359.11-2014	CSA Z259.10-2018	7047QCS	ANSI Z359.11-2014	
7035QC2DL	ANSI Z359.11-2014	CSA Z259.10-2018	7047QCXL	ANSI Z359.11-2014	
7035QCL	ANSI Z359.11-2014	CSA Z259.10-2018	7047R2X	ANSI Z359.11-2014	
7035QCM	ANSI Z359.11-2014	CSA Z259.10-2018	7047R3X	ANSI Z359.11-2014	
7035QCS	ANSI Z359.11-2014	CSA Z259.10-2018	7047RL	ANSI Z359.11-2014	
7035QCXL	ANSI Z359.11-2014	CSA Z259.10-2018	7047RLM	OSHA 1926.502	
7035S	ANSI Z359.11-2014	CSA Z259.10-2018	7047RLM	OSHA 1926.502	
7035XL	ANSI Z359.11-2014	CSA Z259.10-2018	7047RLXL	OSHA 1926.502	
7035XS	ANSI Z359.11-2014	CSA Z259.10-2018	7047RM	ANSI Z359.11-2014	
7035XXL	ANSI Z359.11-2014	CSA Z259.10-2018	7047RS	ANSI Z359.11-2014	
7036A	ANSI Z359.11-2014	CSA Z259.10-2018	7047RXL	ANSI Z359.11-2014	
7036A2X	ANSI Z359.11-2014		7047XL	ANSI Z359.11-2014	
7036AXL	ANSI Z359.11-2014		7048L	ANSI Z359.11-2014	CSA Z259.10-2018
70372X	ANSI Z359.11-2014	CSA Z259.10-2018	7048M	ANSI Z359.11-2014	CSA Z259.10-2018
70373X	ANSI Z359.11-2014	CSA Z259.10-2018	7048S	ANSI Z359.11-2014	CSA Z259.10-2018
7037XL	ANSI Z359.11-2014	CSA Z259.10-2018	7048XL	ANSI Z359.11-2014	CSA Z259.10-2018
7038QC2X	ANSI Z359.11-2014		7049XL	OSHA 1926.502	
7038QCL	ANSI Z359.11-2014		70512X	OSHA 1926.502	
7038QCM	ANSI Z359.11-2014		7051XL	OSHA 1926.502	
7038QCS	ANSI Z359.11-2014		7052B	OSHA 1926.502	
7038QCXL	ANSI Z359.11-2014		7052C	OSHA 1926.502	
70392X	ANSI Z359.11-2014	CSA Z259.10-2018	7053BL	ANSI Z359.11-2014	CSA Z259.10-2018
7039XL	ANSI Z359.11-2014	CSA Z259.10-2018	7053BM	ANSI Z359.11-2014	CSA Z259.10-2018
7042L	ANSI Z359.11-2014	CSA Z259.10-2018	7053BS	ANSI Z359.11-2014	CSA Z259.10-2018
7042M	ANSI Z359.11-2014	CSA Z259.10-2018	7053BXL	ANSI Z359.11-2014	CSA Z259.10-2018
7042S	ANSI Z359.11-2014	CSA Z259.10-2018	7066BL	ANSI Z359.11-2014	CSA Z259.10-2018
7042XL	ANSI Z359.11-2014	CSA Z259.10-2018	7066BM	ANSI Z359.11-2014	CSA Z259.10-2018
70472X	ANSI Z359.11-2014		7066BS	ANSI Z359.11-2014	CSA Z259.10-2018

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7066BXL	ANSI Z359.11-2014	CSA Z259.10-2018	7080B3X	ANSI Z359.11-2014	CSA Z259.10-2018
70672D	ANSI Z359.11-2014		7080BFDL	OSHA 1926.502	
70672DX/2X	ANSI Z359.11-2014		7080BFDM	OSHA 1926.502	
70674D	ANSI Z359.11-2014		7080BFDS	OSHA 1926.502	
70674DX/2X	ANSI Z359.11-2014		7080BFDXL	OSHA 1926.502	
70732X	ANSI Z359.11-2014	CSA Z259.10-2018	7080BL	ANSI Z359.11-2014	CSA Z259.10-2018
70733X	ANSI Z359.11-2014	CSA Z259.10-2018	7080BM	ANSI Z359.11-2014	CSA Z259.10-2018
7073B2X	ANSI Z359.11-2014	CSA Z259.10-2018	7080BRL	ANSI Z359.11-2014	CSA Z259.10-2018
7073BD2X	ANSI Z359.11-2014		7080BRM	ANSI Z359.11-2014	CSA Z259.10-2018
7073BDL/X	ANSI Z359.11-2014		7080BRS	ANSI Z359.11-2014	CSA Z259.10-2018
7073BD5/M	ANSI Z359.11-2014		7080BRXL	ANSI Z359.11-2014	CSA Z259.10-2018
7073BLX	ANSI Z359.11-2014	CSA Z259.10-2018	7080BRS	ANSI Z359.11-2014	CSA Z259.10-2018
7073BSM	ANSI Z359.11-2014	CSA Z259.10-2018	7080BRL	ANSI Z359.11-2014	CSA Z259.10-2018
7073BX2X	ANSI Z359.11-2014		7080LFD	OSHA 1926.502	
7073BXSM	ANSI Z359.11-2014		7080LX	ANSI Z359.11-2014	CSA Z259.10-2018
7073LX	ANSI Z359.11-2014	CSA Z259.10-2018	7080MFD	OSHA 1926.502	
7073SM	ANSI Z359.11-2014	CSA Z259.10-2018	7080SFD	OSHA 1926.502	
7074B2X	ANSI Z359.11-2014		7080SM	ANSI Z359.11-2014	CSA Z259.10-2018
7074BLX	ANSI Z359.11-2014		7080SM3D	ANSI Z359.11-2014	CSA Z259.10-2018
7074BSM	ANSI Z359.11-2014		7080XLFD	OSHA 1926.502	
70782X	ANSI Z359.11-2014	CSA Z259.10-2018	70812X	ANSI Z359.11-2014	CSA Z259.10-2018
7078B2X	ANSI Z359.11-2014	CSA Z259.10-2018	70812XFD	ANSI Z359.11-2014	CSA Z259.10-2018
7078BHVD2X	ANSI Z359.11-2014		70812XR	ANSI Z359.11-2014	
7078BHVDLX	ANSI Z359.11-2014		70813X	ANSI Z359.11-2014	CSA Z259.10-2018
7078BHVD5M	ANSI Z359.11-2014		7081B2X	ANSI Z359.11-2014	CSA Z259.10-2018
7078BLX	ANSI Z359.11-2014	CSA Z259.10-2018	7081B3X	ANSI Z359.11-2014	CSA Z259.10-2018
7078BSM	ANSI Z359.11-2014	CSA Z259.10-2018	7081BFDL	OSHA 1926.502	
7078LX	ANSI Z359.11-2014	CSA Z259.10-2018	7081BFDM	OSHA 1926.502	
7078LXT	ANSI Z359.11-2014		7081BFDR2X	OSHA 1926.502	
7078SM	ANSI Z359.11-2014	CSA Z259.10-2018	7081BFDR3X	OSHA 1926.502	
7078SMT	ANSI Z359.11-2014		7081BFDRL	OSHA 1926.502	
7079B2X	ANSI Z359.11-2014	CSA Z259.10-2018	7081BFDRM	OSHA 1926.502	
7079BLX	ANSI Z359.11-2014	CSA Z259.10-2018	7081BFDRS	OSHA 1926.502	
7079BSM	ANSI Z359.11-2014	CSA Z259.10-2018	7081BFDRXL	OSHA 1926.502	
70802X	ANSI Z359.11-2014	CSA Z259.10-2018	7081BFDRXS	OSHA 1926.502	
70802XFD	OSHA 1926.502		7081BFDS	OSHA 1926.502	
70803X	ANSI Z359.11-2014	CSA Z259.10-2018	7081BFDXL	OSHA 1926.502	
70803XFD	OSHA 1926.502		7081BL	ANSI Z359.11-2014	CSA Z259.10-2018
7080B2X	ANSI Z359.11-2014	CSA Z259.10-2018	7081BM	ANSI Z359.11-2014	CSA Z259.10-2018
7080B3DL	ANSI Z359.11-2014	CSA Z259.10-2018	7081BRL	ANSI Z359.11-2014	CSA Z259.10-2018
7080B3DM	ANSI Z359.11-2014	CSA Z259.10-2018	7081BRM	ANSI Z359.11-2014	CSA Z259.10-2018
7080B3DS	ANSI Z359.11-2014	CSA Z259.10-2018	7081BRS	ANSI Z359.11-2014	CSA Z259.10-2018
7080B3DXL	ANSI Z359.11-2014	CSA Z259.10-2018	7081BRXL	ANSI Z359.11-2014	CSA Z259.10-2018
7080B3FDR2X	OSHA 1926.502		7081BS	ANSI Z359.11-2014	CSA Z259.10-2018
7080B3FDR3X	OSHA 1926.502		7081BXL	ANSI Z359.11-2014	CSA Z259.10-2018
7080B3FDRL	OSHA 1926.502		7081BXS	ANSI Z359.11-2014	
7080B3FDRM	OSHA 1926.502		7081LFD	ANSI Z359.11-2014	CSA Z259.10-2018
7080B3FDRS	OSHA 1926.502		7081LX	ANSI Z359.11-2014	CSA Z259.10-2018
7080B3FDRXL	OSHA 1926.502		7081LXR	ANSI Z359.11-2014	
7080B3FDRXS	OSHA 1926.502		7081MFD	ANSI Z359.11-2014	CSA Z259.10-2018

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7081SFD	ANSI Z359.11-2014	CSA Z259.10-2018
7081SM	ANSI Z359.11-2014	CSA Z259.10-2018
7081SMRD	ANSI Z359.11-2014	
7081XLFD	ANSI Z359.11-2014	CSA Z259.10-2018
7081XS	ANSI Z359.11-2014	CSA Z259.10-2018
7081XSFD	ANSI Z359.11-2014	CSA Z259.10-2018
70822X	ANSI Z359.11-2014	CSA Z259.10-2018
70823X	ANSI Z359.11-2014	CSA Z259.10-2018
7082B2X	ANSI Z359.11-2014	CSA Z259.10-2018
7082B3DL	ANSI Z359.11-2014	CSA Z259.10-2018
7082B3DM	ANSI Z359.11-2014	CSA Z259.10-2018
7082B3DS	ANSI Z359.11-2014	CSA Z259.10-2018
7082B3DXL	ANSI Z359.11-2014	CSA Z259.10-2018
7082B3X	ANSI Z359.11-2014	CSA Z259.10-2018
7082BFDL	OSHA 1926.502	
7082BFDM	OSHA 1926.502	
7082BFDS	OSHA 1926.502	
7082BFDXL	OSHA 1926.502	
7082BL	ANSI Z359.11-2014	CSA Z259.10-2018
7082BM	ANSI Z359.11-2014	CSA Z259.10-2018
7082BS	ANSI Z359.11-2014	CSA Z259.10-2018
7082BXL	ANSI Z359.11-2014	CSA Z259.10-2018
7082LFD	OSHA 1926.502	
7082LX	ANSI Z359.11-2014	CSA Z259.10-2018
7082LXRD	ANSI Z359.11-2014	
7082MFD	OSHA 1926.502	
7082S3DFD	OSHA 1926.502	
7082SFD	OSHA 1926.502	
7082SM	ANSI Z359.11-2014	CSA Z259.10-2018
7082SMRD	ANSI Z359.11-2014	
7082XL3DFD	OSHA 1926.502	
7082XLFD	OSHA 1926.502	
7082XS	ANSI Z359.11-2014	CSA Z259.10-2018
7083B2X	ANSI Z359.11-2014	CSA Z259.10-2018
7083B3X	ANSI Z359.11-2014	CSA Z259.10-2018
7083BFDL	OSHA 1926.502	
7083BFDM	OSHA 1926.502	
7083BFDS	OSHA 1926.502	
7083BFDXL	OSHA 1926.502	
7083BL	ANSI Z359.11-2014	CSA Z259.10-2018
7083BM	ANSI Z359.11-2014	CSA Z259.10-2018
7083BS	ANSI Z359.11-2014	CSA Z259.10-2018
7083BXL	ANSI Z359.11-2014	CSA Z259.10-2018
7083BXS	ANSI Z359.11-2014	
7083LFD	ANSI Z359.11-2014	
7083LX	ANSI Z359.11-2014	CSA Z259.10-2018
7083MFD	ANSI Z359.11-2014	
7083SFD	ANSI Z359.11-2014	
7083XLFD	ANSI Z359.11-2014	
7084L	ANSI Z359.11-2014	

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7084M	ANSI Z359.11-2014	
7084S	ANSI Z359.11-2014	
7084XL	ANSI Z359.11-2014	
7085S	ANSI Z359.11-2014	
7086B2X	ANSI Z359.11-2014	
7086BFD2X	OSHA 1926.502	
7086BFDL	OSHA 1926.502	
7086BFDM	OSHA 1926.502	
7086BFDS	OSHA 1926.502	
7086BFDXL	OSHA 1926.502	
7086BL	ANSI Z359.11-2014	
7086BM	ANSI Z359.11-2014	
7086BRL	ANSI Z359.11-2014	
7086BRM	ANSI Z359.11-2014	
7086BRS	ANSI Z359.11-2014	
7086BRXL	ANSI Z359.11-2014	
7086BS	ANSI Z359.11-2014	
7086BXL	ANSI Z359.11-2014	
7086L	ANSI Z359.11-2014	
7086M	ANSI Z359.11-2014	
7086MFD	OSHA 1926.502	
7086S	ANSI Z359.11-2014	
7086XL	ANSI Z359.11-2014	
7087B2X	ANSI Z359.11-2014	
7087B3X	ANSI Z359.11-2014	
7087BFD2X	OSHA 1926.502	
7087BFDL	OSHA 1926.502	
7087BFDM	OSHA 1926.502	
7087BFDS	OSHA 1926.502	
7087BFDXL	OSHA 1926.502	
7087BL	ANSI Z359.11-2014	
7087BM	ANSI Z359.11-2014	
7087BQ2X	ANSI Z359.11-2014	
7087BQL	ANSI Z359.11-2014	
7087BQM	ANSI Z359.11-2014	
7087BQS	ANSI Z359.11-2014	
7087BQXL	ANSI Z359.11-2014	
7087BS	ANSI Z359.11-2014	
7087BXL	ANSI Z359.11-2014	
7087L	ANSI Z359.11-2014	
7087M	ANSI Z359.11-2014	
7087S	ANSI Z359.11-2014	
7087XL	ANSI Z359.11-2014	
70882X	ANSI Z359.11-2014	
7088B2X	ANSI Z359.11-2014	
7088B3X	ANSI Z359.11-2014	
7088BFDL	OSHA 1926.502	
7088BFDM	OSHA 1926.502	
7088BFDS	OSHA 1926.502	
7088BFDXL	OSHA 1926.502	

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7088BL	ANSI Z359.11-2014		7099BL	ANSI Z359.11-2014	
7088BM	ANSI Z359.11-2014		7099BM	ANSI Z359.11-2014	
7088BRL	ANSI Z359.11-2014		7099BS	ANSI Z359.11-2014	
7088BRM	ANSI Z359.11-2014		7099BXL	ANSI Z359.11-2014	
7088BRS	ANSI Z359.11-2014		8001BL	OSHA 1926.502	
7088BRXL	ANSI Z359.11-2014		8001BM	OSHA 1926.502	
7088BS	ANSI Z359.11-2014		8001BS	OSHA 1926.502	
7088BXL	ANSI Z359.11-2014		8001BXL	OSHA 1926.502	
7088L	ANSI Z359.11-2014		8001S	OSHA 1926.502	
7088M	ANSI Z359.11-2014		8001XL	OSHA 1926.502	
7088S	ANSI Z359.11-2014		8006L	OSHA 1926.502	
7088XL	ANSI Z359.11-2014		8006M	OSHA 1926.502	
70892X	ANSI Z359.11-2014		8006S	OSHA 1926.502	
7089B2X	ANSI Z359.11-2014		8006XL	OSHA 1926.502	
7089B3X	ANSI Z359.11-2014		8007BQCL	OSHA 1926.502	
7089BFDL	OSHA 1926.502		8007BQCM	OSHA 1926.502	
7089BFDM	OSHA 1926.502		8007BQCS	OSHA 1926.502	
7089BFDS	OSHA 1926.502		8007BQCXL	OSHA 1926.502	
7089BFDXL	OSHA 1926.502		8007L	OSHA 1926.502	
7089BL	ANSI Z359.11-2014		8007S	OSHA 1926.502	
7089BM	ANSI Z359.11-2014		8007XL	OSHA 1926.502	
7089BQL	ANSI Z359.11-2014		8021BT2X	OSHA 1926.502	
7089BQM	ANSI Z359.11-2014		8021BTM	OSHA 1926.502	
7089BQS	ANSI Z359.11-2014		8021BTXL	OSHA 1926.502	
7089BQXL	ANSI Z359.11-2014		8021FN2X	ANSI Z359.11-2014	
7089BS	ANSI Z359.11-2014		8021FN3X	ANSI Z359.11-2014	
7089BXL	ANSI Z359.11-2014		8021FNL	ANSI Z359.11-2014	
7089L	ANSI Z359.11-2014		8021FNM	ANSI Z359.11-2014	
7089M	ANSI Z359.11-2014		8021FNS	ANSI Z359.11-2014	
7089S	ANSI Z359.11-2014		8021FNXL	ANSI Z359.11-2014	
7089XL	ANSI Z359.11-2014		8021L	OSHA 1926.502	
7091BFDL	OSHA 1926.502		8021M	OSHA 1926.502	
7091BFDXL	OSHA 1926.502		8021S	OSHA 1926.502	
7091SFD	OSHA 1926.502		8021XL	OSHA 1926.502	
7092BFDR2X	OSHA 1926.502		8026X/2X	OSHA 1926.502	
7092BFDRL	OSHA 1926.502		8060B	OSHA 1926.502	
7092BFDRM	OSHA 1926.502		8063B	OSHA 1926.502	
7092BFDRS	OSHA 1926.502		8070L	ANSI Z359.11-2014	
7092BFDRXL	OSHA 1926.502		8070M	ANSI Z359.11-2014	
7092BL	ANSI Z359.11-2014		8070RL	ANSI Z359.11-2014	
7092BM	ANSI Z359.11-2014		8070RM	ANSI Z359.11-2014	
7092BS	ANSI Z359.11-2014		8070RS	ANSI Z359.11-2014	
7092BXL	ANSI Z359.11-2014		8070RXL	ANSI Z359.11-2014	
7093B2X	ANSI Z359.11-2014		8070S	ANSI Z359.11-2014	
7093B3X	ANSI Z359.11-2014		8070XL	ANSI Z359.11-2014	
7093BL	ANSI Z359.11-2014		8073FDL	ANSI Z359.11-2014	
7093BM	ANSI Z359.11-2014		8073FDM	ANSI Z359.11-2014	
7093BS	ANSI Z359.11-2014		8073FDS	ANSI Z359.11-2014	
7093BXL	ANSI Z359.11-2014		8073FDXL	ANSI Z359.11-2014	
7099B2X	ANSI Z359.11-2014		8073L	ANSI Z359.11-2014	

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8073M	ANSI Z359.11-2014		8092AS	ANSI Z359.11-2014	
8073QCL	ANSI Z359.11-2014		8092AXL	ANSI Z359.11-2014	
8073QCM	ANSI Z359.11-2014		8092BL	ANSI Z359.11-2014	
8073QCS	ANSI Z359.11-2014		8092BM	ANSI Z359.11-2014	
8073QCXL	ANSI Z359.11-2014		8092BS	ANSI Z359.11-2014	
8073R2X	ANSI Z359.11-2014		8092BXL	ANSI Z359.11-2014	
8073RFDL	ANSI Z359.11-2014		8097XL	ANSI Z359.11-2014	
8073RFDM	ANSI Z359.11-2014		8099BL	ANSI Z359.11-2014	
8073RFDS	ANSI Z359.11-2014		8099BM	ANSI Z359.11-2014	
8073RFDL	ANSI Z359.11-2014		8099BS	ANSI Z359.11-2014	
8073RL	ANSI Z359.11-2014		8099BXL	ANSI Z359.11-2014	
8073RM	ANSI Z359.11-2014		A7016	ANSI Z359.11-2014	CSA Z259.10-2018
8073RS	ANSI Z359.11-2014		A7016X/2X	ANSI Z359.11-2014	CSA Z259.10-2018
8073RXL	ANSI Z359.11-2014		AG7023	ANSI Z359.11-2014	
8073S	ANSI Z359.11-2014		AG70232X	ANSI Z359.11-2014	
8073XL	ANSI Z359.11-2014		AG7023XL	ANSI Z359.11-2014	
8076B	ANSI Z359.11-2014		CC7021B	ANSI Z359.11-2014	
8076B2X	ANSI Z359.11-2014		CC7021B2X	ANSI Z359.11-2014	
8076CRL	ANSI Z359.11-2014		CC7021BXL	ANSI Z359.11-2014	
8076CRM	ANSI Z359.11-2014		CC7035B2X	ANSI Z359.11-2014	
8076CRS	ANSI Z359.11-2014		CC7035B3X	ANSI Z359.11-2014	
8076CRXL	ANSI Z359.11-2014		CC7035BL	ANSI Z359.11-2014	
8076DR2X	ANSI Z359.11-2014		CC7035BM	ANSI Z359.11-2014	
8076DRL	ANSI Z359.11-2014		CC7035BS	ANSI Z359.11-2014	
8076DRM	ANSI Z359.11-2014		CC7035BXL	ANSI Z359.11-2014	
8076DRS	ANSI Z359.11-2014		DS7007	ANSI Z359.11-2014	
8076DRXL	ANSI Z359.11-2014		DS7016	ANSI Z359.11-2014	
8076FR2X	ANSI Z359.11-2014		DS7078LX	ANSI Z359.11-2014	
8076FRL	ANSI Z359.11-2014		DS7078SM	ANSI Z359.11-2014	
8076FRM	ANSI Z359.11-2014		A7008	ANSI Z359.11-2014	CSA Z259.10-2018
8076FRS	ANSI Z359.11-2014		A7008XL	ANSI Z359.11-2014	CSA Z259.10-2018
8076FRXL	ANSI Z359.11-2014		70063X	ANSI Z359.11-2014	CSA Z259.10-2018
8076FRXS	ANSI Z359.11-2014		7016SML	ANSI Z359.11-2014	CSA Z259.10-2018
8076R2X	ANSI Z359.11-2014		7010BSM	ANSI Z359.11-2014	
8076R3X	ANSI Z359.11-2014		7047DQC2X	ANSI Z359.11-2014	
8076RL	ANSI Z359.11-2014		7047DQCL	ANSI Z359.11-2014	
8076RM	ANSI Z359.11-2014		7047DQCM	ANSI Z359.11-2014	
8076RS	ANSI Z359.11-2014		7047DQCS	ANSI Z359.11-2014	
8076RXL	ANSI Z359.11-2014		7047DQCXL	ANSI Z359.11-2014	
8076XL	ANSI Z359.11-2014		7008XS	ANSI Z359.11-2014	CSA Z259.10-2018
8081L	OSHA 1926.502		7006B2X	ANSI Z359.11-2014	
8081M	OSHA 1926.502		7006B3X	ANSI Z359.11-2014	
8081S	OSHA 1926.502		7006BLX	ANSI Z359.11-2014	
8081XL	OSHA 1926.502		7006BSM	ANSI Z359.11-2014	
8084L	OSHA 1926.502		7006BXS	ANSI Z359.11-2014	
8084M	OSHA 1926.502		7008B2X	ANSI Z359.11-2014	
8084S	OSHA 1926.502		7008BLX	ANSI Z359.11-2014	
8084XL	OSHA 1926.502		7008BSM	ANSI Z359.11-2014	
8092AL	ANSI Z359.11-2014		7009B2X	ANSI Z359.11-2014	
8092AM	ANSI Z359.11-2014		7009BLX	ANSI Z359.11-2014	

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7009BSM	ANSI Z359.11-2014		7047FQCXL	ANSI Z359.11-2014	
7009BXS	ANSI Z359.11-2014		70482X	ANSI Z359.11-2014	
7010B2X	ANSI Z359.11-2014		7086B3X	ANSI Z359.11-2014	
7010B3X	ANSI Z359.11-2014		7092BFDR3X		
7010BLX	ANSI Z359.11-2014		8073QC2X	ANSI Z359.11-2014	
7010BXS	ANSI Z359.11-2014		8073QC3X	ANSI Z359.11-2014	
7078B3X	ANSI Z359.11-2014		8073R3X	ANSI Z359.11-2014	
7008BE	ANSI Z359.11-2014		8073R4X	ANSI Z359.11-2014	
7016BFD2X	ANSI Z359.11-2014		8123BQC2X	ANSI Z359.11-2014	
7016BFD3X	ANSI Z359.11-2014		8123BQC3X	ANSI Z359.11-2014	
7016BFDL	ANSI Z359.11-2014		8123BQCL	ANSI Z359.11-2014	
7016BFDM	ANSI Z359.11-2014		8123BQCM	ANSI Z359.11-2014	
7016BFDS	ANSI Z359.11-2014		8123BQCS	ANSI Z359.11-2014	
7016BFDXL	ANSI Z359.11-2014		8123BQCXL	ANSI Z359.11-2014	
7016BFDXS	ANSI Z359.11-2014		8123BQCXS	ANSI Z359.11-2014	
7021BFD3X		CSA Z259.10-2018	8123QC2X	ANSI Z359.11-2014	
7035B4X	ANSI Z359.11-2014		8123QC3X	ANSI Z359.11-2014	
7035DM	ANSI Z359.11-2014		8123QCL	ANSI Z359.11-2014	
7035DXL	ANSI Z359.11-2014		8123QCM	ANSI Z359.11-2014	
7035FDXS	ANSI Z359.11-2014		8123QCS	ANSI Z359.11-2014	
7035G2X	ANSI Z359.11-2014		8123QCXL	ANSI Z359.11-2014	
7035G3X	ANSI Z359.11-2014		8123QCXS	ANSI Z359.11-2014	
7035GL	ANSI Z359.11-2014		81243DQC2X	ANSI Z359.11-2014	
7035GM	ANSI Z359.11-2014		81243DQC3X	ANSI Z359.11-2014	
7035GS	ANSI Z359.11-2014		81243DQCL	ANSI Z359.11-2014	
7035GXL	ANSI Z359.11-2014		81243DQCM	ANSI Z359.11-2014	
70402X3X	ANSI Z359.11-2014		81243DQCS	ANSI Z359.11-2014	
70403D2X3X	ANSI Z359.11-2014		81243DQCXL	ANSI Z359.11-2014	
70403DLXL	ANSI Z359.11-2014		81243DQCXS	ANSI Z359.11-2014	
70403DSM	ANSI Z359.11-2014		8124B3DQC2X	ANSI Z359.11-2014	
70403DXS	ANSI Z359.11-2014		8124B3DQC3X	ANSI Z359.11-2014	
7040LXL	ANSI Z359.11-2014		8124B3DQCL	ANSI Z359.11-2014	
7040SM	ANSI Z359.11-2014		8124B3DQCM	ANSI Z359.11-2014	
7040XS	ANSI Z359.11-2014		8124B3DQCS	ANSI Z359.11-2014	
7047BFD2X	ANSI Z359.11-2014		8124B3DQCXL	ANSI Z359.11-2014	
7047BFD3X	ANSI Z359.11-2014		8124B3DQCXS	ANSI Z359.11-2014	
7047BFD4X	ANSI Z359.11-2014		8124BQC2X	ANSI Z359.11-2014	
7047BFDQC2X	ANSI Z359.11-2014		8124BQC3X	ANSI Z359.11-2014	
7047BFDQC3X	ANSI Z359.11-2014		8124BQCL	ANSI Z359.11-2014	
7047BFDQC4X	ANSI Z359.11-2014		8124BQCM	ANSI Z359.11-2014	
7047BFDQCL	ANSI Z359.11-2014		8124BQCS	ANSI Z359.11-2014	
7047BFDQCM	ANSI Z359.11-2014		8124BQCXL	ANSI Z359.11-2014	
7047BFDQCS	ANSI Z359.11-2014		8124BQCXS	ANSI Z359.11-2014	
7047BFDQCXL	ANSI Z359.11-2014		8124QC2X	ANSI Z359.11-2014	
7047BFDQCXS	ANSI Z359.11-2014		8124QC3X	ANSI Z359.11-2014	
7047FQC2X	ANSI Z359.11-2014		8124QCL	ANSI Z359.11-2014	
7047FQC3X	ANSI Z359.11-2014		8124QCM	ANSI Z359.11-2014	
7047FQCL	ANSI Z359.11-2014		8124QCS	ANSI Z359.11-2014	
7047FQCM	ANSI Z359.11-2014		8124QCXL	ANSI Z359.11-2014	
7047FQCS	ANSI Z359.11-2014		8124QCXS	ANSI Z359.11-2014	

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81272X	ANSI Z359.11-2014	
81273X	ANSI Z359.11-2014	
8127B2X	ANSI Z359.11-2014	
8127B3X	ANSI Z359.11-2014	
8127BL	ANSI Z359.11-2014	
8127BM	ANSI Z359.11-2014	
8127B5	ANSI Z359.11-2014	
8127BXL	ANSI Z359.11-2014	
8127BXS	ANSI Z359.11-2014	
8127L	ANSI Z359.11-2014	
8127M	ANSI Z359.11-2014	
8127S	ANSI Z359.11-2014	
8127XL	ANSI Z359.11-2014	
8127XS	ANSI Z359.11-2014	
81282X	ANSI Z359.11-2014	
81283D2X	ANSI Z359.11-2014	
81283D3X	ANSI Z359.11-2014	
81283DL	ANSI Z359.11-2014	
81283DM	ANSI Z359.11-2014	
81283DS	ANSI Z359.11-2014	
81283DXL	ANSI Z359.11-2014	
81283DXS	ANSI Z359.11-2014	
81283X	ANSI Z359.11-2014	
8128B2X	ANSI Z359.11-2014	
8128B3D2X	ANSI Z359.11-2014	
8128B3D3X	ANSI Z359.11-2014	
8128B3DL	ANSI Z359.11-2014	
8128B3DM	ANSI Z359.11-2014	
8128B3DS	ANSI Z359.11-2014	
8128B3DXL	ANSI Z359.11-2014	
8128B3DXS	ANSI Z359.11-2014	
8128B3X	ANSI Z359.11-2014	
8128BL	ANSI Z359.11-2014	
8128BM	ANSI Z359.11-2014	
8128B5	ANSI Z359.11-2014	
8128BXL	ANSI Z359.11-2014	
8128BXS	ANSI Z359.11-2014	
8128L	ANSI Z359.11-2014	
8128M	ANSI Z359.11-2014	
8128S	ANSI Z359.11-2014	
8128XL	ANSI Z359.11-2014	
8128XS	ANSI Z359.11-2014	
81412X3X	ANSI Z359.11-2014	
8141LXL	ANSI Z359.11-2014	
8141SM	ANSI Z359.11-2014	
8141XS	ANSI Z359.11-2014	
81422X3X	ANSI Z359.11-2014	
8142LXL	ANSI Z359.11-2014	
8142QC2X3X	ANSI Z359.11-2014	
8142QCLXL	ANSI Z359.11-2014	

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8142QC5M	ANSI Z359.11-2014	
8142QCXS	ANSI Z359.11-2014	
81425M	ANSI Z359.11-2014	
8142XS	ANSI Z359.11-2014	
81432X3X	ANSI Z359.11-2014	
8143LXL	ANSI Z359.11-2014	
8143SM	ANSI Z359.11-2014	
8143XS	ANSI Z359.11-2014	
7027C	ANSI Z359.11-2014	
7027C2X	ANSI Z359.11-2014	
7027CXL	ANSI Z359.11-2014	
7027CXS	ANSI Z359.11-2014	
8144BXS	ANSI Z359.11-2014	
8144BLXL	ANSI Z359.11-2014	
8144B2X3X	ANSI Z359.11-2014	
8141BXS	ANSI Z359.11-2014	
8144BSM	ANSI Z359.11-2014	
8141BSM	ANSI Z359.11-2014	
8141BLXL	ANSI Z359.11-2014	
8141B2X3X	ANSI Z359.11-2014	
8143BXS	ANSI Z359.11-2014	
8143BSM	ANSI Z359.11-2014	
8143B2X3X	ANSI Z359.11-2014	
8143BLXL	ANSI Z359.11-2014	

Discontinued Items

7021QCFD2X	7027QC	7051XS	8081ERL
7079	7028QC	7073BXLX	8081ERM
7021BFD	7028QCX/2X	7079BH	8081ERS
7029MBX2PC	7029QC	7082L3DFD	8081ERXL
7042A2X	7029QCXL2X	7082M3DFD	8081RL
7042AL	7034QCL	7083LXRD	8081RM
7042AM	7034QCM	7083SMRD	8081RS
7042AS	7034QCS	7085L	8081RXL
7042AXL	7034QCXL2X	7085M	8084RL
7081LXFD	7035QCFDM	7085XL	8084RM
7082SMFD	7035QCDFS	7086LFD	8084RS
7083LXQC	7035QCFDXL	7086SFD	8084RXL
7083Q2X	7080LX3D	7086XLFD	8087BRL
7088LFD	7082LX3D	7087LFD	8087BRM
7088MFD	7082SM3D	7087MFD	8087BRS
7088SFD	70832X	7087SFD	8087BRXL
7088XLFD	70833X	7087XLFD	8087RL
7089LFD	7083SM	7091BFD2X	8087RM
7089MFD	7098	7091BFD3X	8087RS
7089SFD	8095	7091BFDX	8087RXL
7089XLFD	8096	7091BFDS	8095X/2X
8011L	8098	7091LFD	8096X/2X
8011M	7006T	7091MFD	8097L
8011S	7008T2X	7091XLFD	8097M
8011XL	7008TXL	7092L	8097S
8016L	70162XPC	7092LFD	8098X/2X
8016M	7023C	7092M	AP7016B
8016S	7023C2X	7092MFD	AP7016B3X
8016XL	7023CXL	7092S	AP7016BX/2X
8021EN2X3X	7023MBFDPCPL	7092SFD	AP7016BXS
8021ENL/M	7023MBFDPCM	7092XL	CC7018B
8021ENL/XL	7023MBFDPCS	7092XLFD	CC7018BX/2X
8021ENM/L	7023MBFDPCXL	7093L	CC7073B2X
8021ENM/M	7029MBPC	7093M	CC7073BLX
8021ENS/M	7029T	7093S	CC7073BSM
8021ENX/2X	7035C2X	7093XL	DS70162X
8021ENXL/L	7035C3X	7097L	DS70163X
8093BL	7035CL	7097M	DS7016XL
8093BM	7035CM	7097S	
8093BS	7035CS	7097XL	
8093BXL	7035CXL	7098X/2X	
A7023BLX	7047RL2X	8001L	
A7023BSM	7047RL3X	8001M	
CC7016B	7047RLS	8021BTL	
CC7016BX/2X	7051R2X	8021BTS	
FD7016	7051RL	8070ERL	
FD70162X	7051RM	8070ERM	
7021QCFDL	7051RS	8070ERS	
7021QCDFS	7051RXL	8070ERXL	
7021QCFDXL	7051S	8076BXL	