

# BEYOND

Z359.0 – Definitions and Requirements for Personal Fall Arrest Systems, Subsystems, and Components  
Z359.1 – Safety Requirements for Personal Fall Arrest Systems, Subsystems, and Components  
Z359.2 – Safety Requirements for a Comprehensive Managed Fall Arrest System  
Z359.3 – Safety Requirements for a Comprehensive Managed Fall Arrest System  
Z359.4 – Safety Requirements for a Comprehensive Managed Fall Arrest System, Subsystems, and Components

# the STANDARDS

ANSI Z359

**MILLER T.I.P.S.™**  
**FOR TOTAL COMPLIANCE**

- TRAINING
- INSPECTION
- PRODUCTS
- STANDARDS

**MILLER**

by Honeywell

Updated August 2012

# BEYOND the STANDARDS

ANSI Z359

Protecting workers at heights requires a holistic approach that extends beyond standards and regulations. Meeting new or established standards for safety requirements and product performance provides a starting point for safety on the job site. The introduction of the ANSI Z359 Fall Protection Code attempts to provide a solution to minimize serious injuries often caused by misuse, poor product selection, inadequate training or possibly damaged/worn equipment.

**Miller T.I.P.S.™ for Total Compliance** addresses other important considerations to assure a safe environment when working at heights.

Globally, Honeywell is committed to providing value-added Miller® fall protection products and services to those specifying, selecting and using our equipment. While safety at heights is our ultimate goal, enhancing worker comfort, trust and increased productivity are also qualities that products bearing the Miller name have strived to maximize for over 60 years.

The Miller brand name is more than a line of quality products. The name represents greater value-added services and expertise that only the leader in fall protection can provide.

▶ **Ask the Expert ...  
Ask Miller.**  
**800/873-5242**

## MILLER T.I.P.S.™ FOR TOTAL COMPLIANCE



### TRAINING

#### ***Professional Fall Protection Training***

Key to worker safety, on-site awareness, and proper selection & use of fall protection equipment.



### INSPECTION

#### ***Equipment Inspection & Maintenance***

Failure is not an option – when in doubt, throw it out!



### PRODUCTS

#### ***Proper Product Selection & Use***

All work environments differ, use the right equipment for the job!



### STANDARDS

#### ***Addressing the ANSI Z359 Fall Protection Code***

Meeting industry standards indicates that products pass accepted testing procedures.

Ask the experts at Miller to assist you in developing an effective fall protection safety plan. As a total compliance safety provider, Miller manufactures a comprehensive line of fall protection products, provides professional fall prevention and protection training, and employs global resources/services for designing and engineering solutions for complex fall protection applications.





# PRODUCTS

## PROPER PRODUCT SELECTION & USE

The employer must know the types of fall protection products that are available, and decide which would be most suitable for their workplace. Because all work environments differ, it is impossible for the manufacturer to determine exactly which fall protection products will provide maximum protection for each job. By understanding how fall protection products operate and knowing the differences in product functions, the employer can select products that are best suited for its workers.

Miller fall protection manufactures the most extensive line of fall protection, work positioning, travel restraint and rescue products, including products that meet the ANSI Z359 Fall Protection Code.

*The Miller 3.6K snap hooks and carabiners are proof-tested and meet the ANSI Z359.1-2007 Standard, HOWEVER, this standard also impacts other fall protection products, including:*

- Shock-absorbing lanyards
- Double-legged shock-absorbing lanyards
- Harnesses with front D-rings
- Self-retracting lifelines
- Anchorage connectors
- Carabiners; vertical lifelines
- Positioning & restraint lanyards
- Positioning assemblies
- Man-rated winches
- Self-retracting lifelines with retrieval



### A stronger snap hook ...

- Doesn't replace professional fall protection training
- Still requires inspection & maintenance
- Still requires proper product use
- Still requires calculating your fall clearance

### Current snap hooks are still safe when used properly ...

**CORRECT**

**INCORRECT**



## MILLER IS YOUR ONE-SOURCE PROVIDER FOR ALL FALL PROTECTION PRODUCTS THAT MEET ALL APPLICABLE STANDARDS.

The complete line of Miller fall protection products will continue to be available, in addition to a complementary line of products that specifically meet the ANSI Z359 Fall Protection Code.



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# TRAINING

## PROFESSIONAL FALL PROTECTION TRAINING

While the American National Standards Institute (ANSI) focuses on product performance standards, the Occupational Safety and Health Administration (OSHA) enforces safe and healthy working conditions in the United States. **According to OSHA, employers must provide its employees working at heights with training for the proper selection and use of fall protection equipment.** Workers must be able to identify potential fall hazards, determine which products to use in specific work environments, demonstrate proper anchoring procedures, etc. Workers must also understand and perform proper product inspection and maintenance procedures.

**Training is an integral part of a fall protection program. To maintain a safe and productive work environment, it is essential that employees working at heights are properly trained to:**

- **RECOGNIZE FALL HAZARDS**
- **EVALUATE THE RISK POSED BY EACH HAZARD**
- **CONTROL THE HAZARD THROUGH PREVENTIVE OR PROTECTIVE MEASURES**

### PROFESSIONAL FALL PREVENTION & PROTECTION TRAINING

- State-of-the-art Honeywell Training & Development Center located in western Pennsylvania.
  - 40 ft. climbing structure
  - Confined space entry/egress
  - Elevated work platforms/catwalks
  - Rebar and concrete form walls
  - Wind Energy nacelle simulator
- Field-experienced professional instructors.
- Training programs that provide the awareness, knowledge and skills necessary to ensure safety on the job site; understanding OSHA Regulations and ANSI Standards.
- **Customized "on-your-site"** fall prevention and protection training available.
- A series of pre-scheduled Open Enrollment Training courses conducted annually in select cities throughout North America. The two-day *Competent Person* Training program is tailored to facility and site supervisors who must serve as the *competent person* required by OSHA 1926.32(f), 1926.500 and 1910 standards.
- For complete details, contact Honeywell Training at 888-232-7585.



**FREE  
ANSI Evaluations!**

For complete details  
or to arrange for an on-site visit,  
call Honeywell Technical Service  
or visit the Miller website  
([www.millerfallprotection.com](http://www.millerfallprotection.com))  
for an evaluation form.

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# INSPECTION

## EQUIPMENT INSPECTION & MAINTENANCE

According to Boston-based Liberty Mutual, the leading private provider of workers' compensation insurance in the United States, on-the-job injuries cost employers nearly \$1 billion per week in payments to injured employees and their medical care providers. Each year over 100,000 injuries and deaths are attributable to work-related falls.

According to the National Safety Council, falls are one of the leading causes of deaths in the workplace. In addition to permanent injuries and lost lives caused by falls, businesses lose billions of dollars each year from significant increases in insurance premiums, workers' compensation claims, product liability costs, and other related expenses.

### HAS ANYONE NOTICED?

The manufacture and sales of fall protection products have steadily grown over the past decade, however the number of injuries and deaths associated with falls from heights has also increased.

### WHAT'S THE PROBLEM?

Several factors have contributed to these alarming and disturbing statistics:

- Proper training is not provided – often, the wrong equipment is selected for a particular work application, and equipment is not worn properly.
- All fall protection equipment deteriorates with use and exposure over time, regardless of brand and/or manufacturer.
- Equipment is not inspected, properly or often enough, for wear and damage.



### HOW DO WE KNOW?

On any given day, a visit to any job site in the country will unveil fall protection equipment being used that is potentially dangerous because of wear, neglect, misuse or age/exposure. Over the past several months, shock-absorbing lanyards from a variety of manufacturers have been voluntarily removed from job sites for safety qualification, and 85% of the product samples FAILED standard safety tests (in accordance with ANSI Standards). These are surprising and alarming facts that the fall protection community has overlooked, while touting the many standards and regulations to which their products are tested and deemed safe.

The safety community must recognize these facts and take a proactive approach. Workers are being seriously injured in falls with equipment that initially passed industry safety standards. More troubling, worn and damaged equipment is still accessible even though it will not perform as designed in the event of a fall.

Reference the "Smart Policy MillerGuide" for smart solutions for fall protection programs.

View online at [www.millerfallprotection.com](http://www.millerfallprotection.com) or call Honeywell Technical Service.



### BEST INTENTIONS.

Safety directors and supervisors need to make a concerted effort to keep unsafe and potentially life-threatening equipment out of the hands of those working at heights. Workers, through proper training and attentive daily inspection, will be safer and injury free. Taking equipment out of service too early is a better alternative than explaining to a worker's family that there has been a serious accident ...

**Adopt a Smart Policy – when in doubt, throw it out!**

### Return & Inspect Program

Miller fall protection offers a *Return-and-Inspect Program* for fall protection equipment. Call Honeywell Technical Service for complete details.

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# STANDARDS

## ADDRESSING THE ANSI Z359 FALL PROTECTION CODE

The fall protection industry has been bombarded with regulations and standards. Understanding these requirements is key to ensuring a safe work environment.

### WHO IS ANSI?

ANSI is the American National Standards Institute (ANSI) which coordinates the development and use of standards in the United States. An ANSI Standard implies a consensus of those substantially concerned with its scope and provisions, and is intended as a GUIDE to aid the manufacturer, the consumer, and the general public. The existence of an ANSI Standard does not in any respect preclude anyone, whether they have approved the standard or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the standard. ANSI Standards are subject to periodic review, and users are cautioned to obtain the latest editions.

### WHAT IS ANSI Z359.1?

ANSI Z359.1 "American National Standard Safety Requirements for Personal Fall Arrest Systems, Subsystems and Components" was originally published in 1992 and later revised in 1999 (editorial changes only). The purpose of this standard was to address the variety of equipment being developed in the rapidly growing field of Fall Protection. The Standard included the following equipment: harnesses, lanyards (including self-retracting lanyards & lifelines), energy absorbers, anchorage connectors, fall arresters, and components of the equipment including connectors, rope, straps, thread and thimbles. It is also important to note that this standard only applies to fall arrest equipment used in general industry and does not apply to the construction industry. The construction industry has their own set of standards.

### WHY THE CHANGES TO ANSI Z359.1?

The original standard was published in 1992 and later revised in 1999, and was intended to be the first in a series of standards to address a full comprehensive fall protection program. While the original standard only addressed the Fall Arrest Systems aspects, equipment used for positioning, travel restraint and rescue, which is quite different, was to be addressed later in the series. The changes being made at this time to the new ANSI Z359 Standards are the most recent additions to the ongoing development of the ANSI Fall Protection Code.

This equipment should only be used after reading the manufacturer's instructions. Failure to follow instructions could result in serious injury or fatality.

### WHAT ARE THE LATEST CHANGES TO THE STANDARD?

The original ANSI Z359.1-1992 Standard has been expanded and addressed in the new ANSI 359 Fall Protection Code that includes seventeen (17) separate Standards. The first five (5) Standards were introduced and effective **November 24, 2007:**

- **ANSI Z359.0** – Definitions and Nomenclature Used for Fall Protection and Fall Arrest
- **ANSI Z359.1** – Safety Requirements for Personal Fall Arrest Systems, Subsystems and Components
- **ANSI Z359.2** – Minimum Requirements for a Comprehensive Managed Fall Protection Program
- **ANSI Z359.3** – Safety Requirements for Positioning and Travel Restraint Systems
- **ANSI Z359.4** – Safety Requirements for Assisted Rescue and Self-Rescue Systems, Subsystems and Components

Three (3) Standards became effective **November 16, 2009:**

- **ANSI Z359.6** – Specifications and Design Requirements for Active Fall Protection Systems
- **ANSI Z359.12** – Connecting Components for Personal Fall Arrest Systems
- **ANSI Z359.13** – Personal Energy Absorbers and Energy Absorbing Lanyards

One (1) additional Standard went into effect **August 20, 2012:**

- **ANSI Z359.14** – 2012 Safety Requirements for Self-Retracting Devices for Personal Fall Arrest and Rescue Systems
- **ANSI Z359.7** – Requirements for Third-Party and Self-Certification for Personal Fall Arrest Systems is scheduled to become effective October 3, 2012.

The remaining seven (7) proposed Standards of the ANSI Z359 Fall Protection Code are in development by ANSI committees.

For detailed information on the ANSI Z359 Standards, reference the booklet "Understanding the ANSI Z359 Fall Protection Code."

View online at [www.millerfallprotection.com](http://www.millerfallprotection.com) or call Honeywell Technical Service.



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