

# HONEYWELL MILLER FALL PROTECTION



### Miller is Celebrating 75 Years!



### **Honeywell Fall protection**



A comprehensive line of fall prevention and protection equipment, professional training, and engineered fall arrest systems providing the total solution for safety at height in jobs ranging from construction and utilities to wind energy and general manufacturing.



Anchors



Lifelines



**Rescue Equipment** 



Fall Arrest Systems



© 2016 by Honeywell International Inc. All rights reserved.

### Why The Need for Fall Protection

- Falls are the second leading cause of Deaths in the Workplace
- Falls From Heights are the # 1 Cause of Deaths in Construction
  - Average 2 Deaths Per Day Due to Falls
- Average cost of a fatality \$800K
- Average cost of disabling injury \$4,000,000

### #1 on OSHA Most Cited Violation List



The Top 10 most frequently cited workplace safety standards for FY 2021 are:

- 1. Fall Protection General Requirements (1926.501): 5,295 violations
- 2. Respiratory Protection (1910.134): 2,527
- 3. Ladders (1926.1053): 2,026
- 4. Scaffolding (1926.451): 1,948
- 5. Hazard Communication (1910.1200): 1,947
- 6. Lockout/Tagout (1910.147): 1,698
- 7. Fall Protection Training Requirements (1926.503): 1,666
- 8. Personal Protective and Lifesaving Equipment Eye and Face Protection (1926.102): 1,452
- 9. Powered Industrial Trucks (1910.178): 1,420
- 10. Machine Guarding (1910.212): 1,113



### **OSHA** and **MSHA**

- 1. Accumulation of combustible materials
- 2. Moving machine parts
- **3.**Electrical conductors
- 4. Mine ventilation plan; submission and approval
- 5.Safety defects; examination, correction and records
- 6.Preparation and submission of MSHA Form 7000–2—Quarterly Employment and Coal Production Report
- 7.Housekeeping
- 8.Horns and back-up alarms
- 9.0ther safeguards
- 10.Protection from falls of roof, face and ribs
- **11.Inspection and cover plates**
- 12.Permissible electric face equipment; maintenance
- 13. Electric equipment; examination, testing and maintenance
- 14. Maintenance of incombustible content of rock dust
- 15.Safe access
- 16.Construction and maintenance of guards
- 17.Roof control plan
- **18.**Testing grounding systems
- 19. Power wires and cables; insulation and protection
- **20.**Loading and haulage equipment



### When Do you Need Fall Protection?

- Worker is 4 feet above walking/working surface General Industry US
- Worker is 6 feet off the ground Construction US
- When persons work where there is danger of falling MSHA
- OSHA has much broader authority than MSHA.



### The ABC's of Fall Protection (System)

#### A – Anchorage/Anchorage Connector

Anchorage: Commonly referred to as a tie-off point (Ex: Ibeam, rebar, scaffolding, lifeline, etc.) Anchorage Connector: Used to join the connecting device to the anchorage (Ex: cross-arm strap, beam anchor, Dbolt, hook anchor, etc.)

#### **B** – Body Wear

*Body Wear:* The personal protective equipment worn by the worker (Ex: full-body harness)

•Only form of body wear acceptable for fall arrest is the fullbody harness

•Should be selected based on work to be performed and the work environment.

#### **C** – Connecting Device

*Connective Device:* The critical link which joins the body wear to the anchorage/anchorage connector (Ex: shock-absorbing lanyard, fall limiter, self-retracting lifeline, rope grab, etc.

•Potential fall distance must be calculated to determine type of connecting device to be used.

•Should also be selected based on work to be performed and the work environment.



### ANCHOR MUST SUPPORT HOW MANY





9065/BK















# **OSHA Definitions & MSHA**

#### 1926.502(d)(15)

Anchorages used for attachment of personal fall arrest equipment shall be independent of any anchorage being used to support or suspend platforms and capable of supporting at least 5,000 pounds (22.2 kN) per employee attached, or shall be designed, installed, and used as follows:

#### 1926.502(d)(15)(i)

as part of a complete personal fall arrest system which maintains **a safety factor of at least two**; and

#### 1926.502(d)(15)(ii)

under the supervision of a qualified person.

#### <u>1910.140(c)(13)</u>

• Anchorages, except window cleaners' belt anchors covered by paragraph (e) of this section, must be:

#### <u>1910.140(c)(13)(i)</u>

Capable of supporting at least 5,000 pounds (22.2 kN) for each employee attached; or

#### 1910.140(c)(13)(ii)

Designed, installed, and used, under the supervision of qualified person, as part of a complete personal fall protection system that maintains a safety factor of at least two.

**MSHA** - Anchor points must be stable and able to support the weight of a worker and the force of a fall. The American National Standards Institute (ANSI) sets quality standards for fall protection equipment, and ANSI standard Z359.18 governs the specifications for anchoring devices.



### **Miller Harness for Every Type of Worker**



### **BODY WEAR/ FULL BODY HARNESS**

# How often should be inspecting your harness?



### • BEFORE EACH USE (Cuts, Tears, Rips, Fraying ETC)

How to Properly Wear the Harness- If not worn properly can cause more harm to you than the actual fall-

- Chest Strap Prevents you from falling out of harness in headfirst fall.
- Leg Straps need to be tight, do the hand test





#### Honeywell

15

### Lanyards VS SRL Fall Clearances

#### Lanyards are the most affordable connecting devices, but are they always the right choice?

- External shock pack or stretch (bungee)
- EXAMPLE : 6ft Tall Man/ 6 Ft Long Lanyard
- Min. fall clearance for 6ft SA (shock-absorbing) lanyard is 18.5ft





#### Honeywell

913SS-Z7/6FTGN

16

© 2016 by Honeywell International Inc. All rights reserved.

**Calculating Your** 

## **Fall Clearance Requirements**

Honeywell

#### **Fall Clearance Calculation**





by Honeywell

ONFIDENTIAL

### **Questions???**





### Concerns





### **Honeywell Updates**





### **Honeywell Updates**



**Honeywell Contact Information Troy Mize & David Vesper Regional Sales Manager** WA, OR, ID, AK **PPE Specialist & Fall Specialist** Troy – 509-514-1345 David – 360-739-4041

Customer Service – 800-430-5490 Technical Support – 800-873-5242