

# Slips, Trips, and Falls

Slips, trips and falls may seem like small hazards, however, for some employees these hazards could be deadly. According to the Bureau of Labor Statistics, over 1,000 workers die each year as a result of a slip, trip, or fall and countless other mild or serious injuries resulting in days away from work. In the construction industry, slips, trips, and falls account for 37 percent of all fatal injuries on a job site.

TOPICS of DISCUSSION
Managing Your Safety and Health
Case Study Incorporation
Background and Statistics
What is the difference between a Slip, Trip, and Fall?
Slip, Trip, and Fall – Factors
Your Slip, Trip, and Fall Hazards
OSHA Regulations
Benefits of Controlling Slip, Trip, and Fall Hazards
Roles and Responsibilities
Controlling Slips, Trips, and Falls
What to Do After a Slip, Trip, or Fall Incident
Questions and Comments



## Questions for You

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- Have you ever slipped? Tripped? Fell? \_\_\_\_\_
  - Did you get hurt? \_\_\_\_\_
  - Was it serious? \_\_\_\_\_
  - What part of your body struck the lower level first? \_\_\_\_\_
  - How far did you fall? \_\_\_\_\_
  - What did you fall on? \_\_\_\_\_
  - Do any of these questions/answers matter? Why or why not? \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

## Prevention versus Protection

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Prevention: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Protection: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

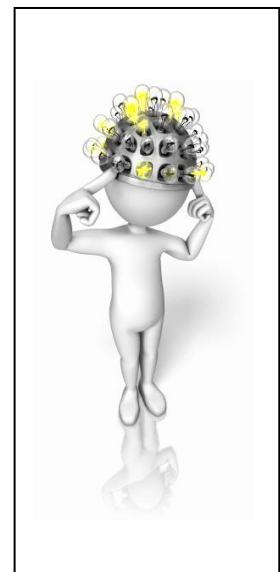
\_\_\_\_\_

How do you prevent a slip, trip, or fall? \_\_\_\_\_

\_\_\_\_\_

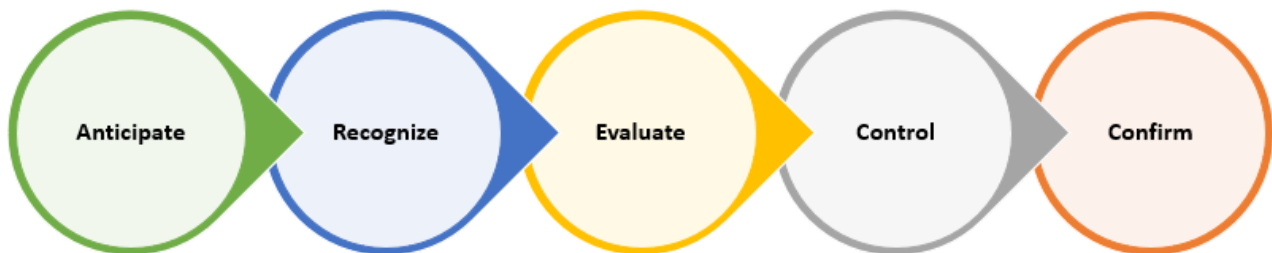
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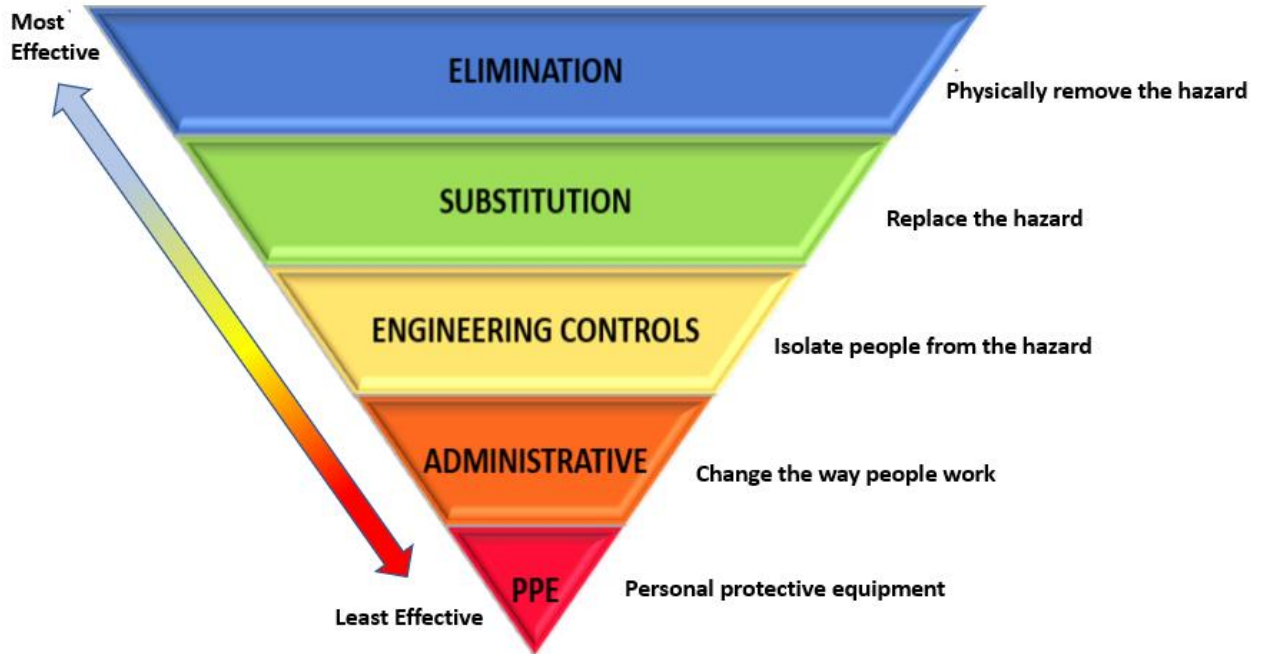


# Safety and Health Program

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# Hierarchy of Controls



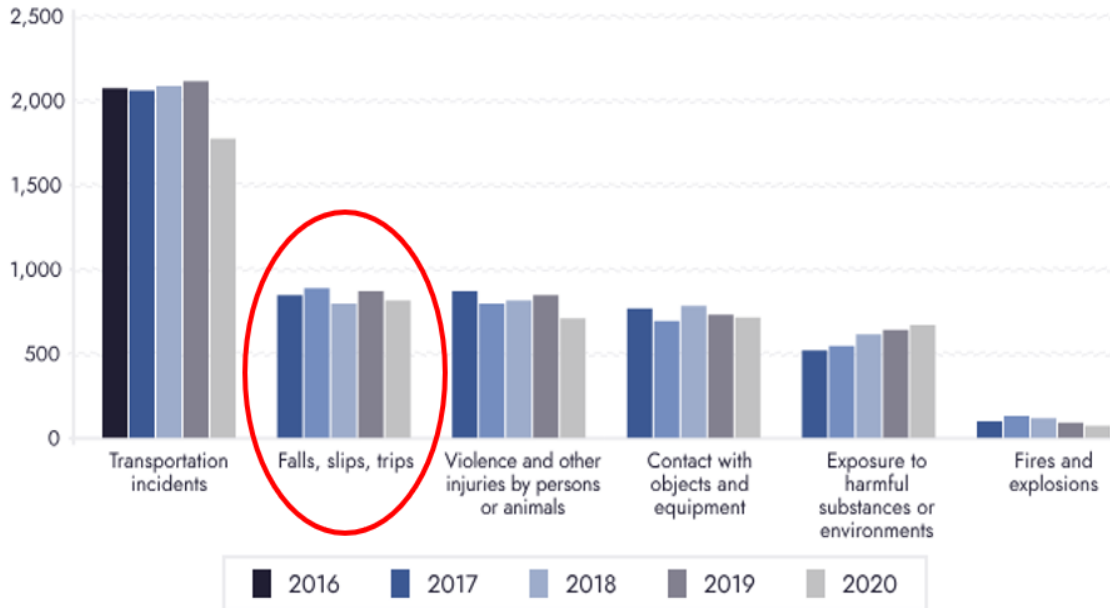
# Case Study Application



What do you think is happening here? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Statistics

Fatal work injuries by major event or exposure, 2016-2020



Source: U.S. Bureau of Labor Statistics

## At Home and Work in U.S.

- Over 1,000,000 Americans suffer a slip, trip, or fall injury annually
- Over 17,000 slip, trip, and fall deaths annually
- Over 2,000 people need emergency medical care daily from a slip, trip, or fall incident

## In U.S. Workplaces

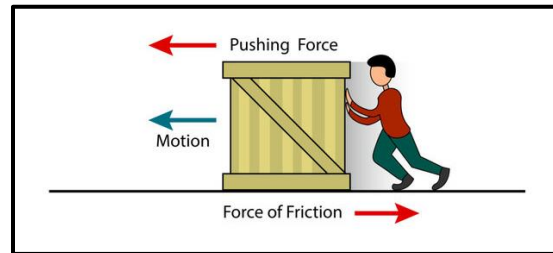
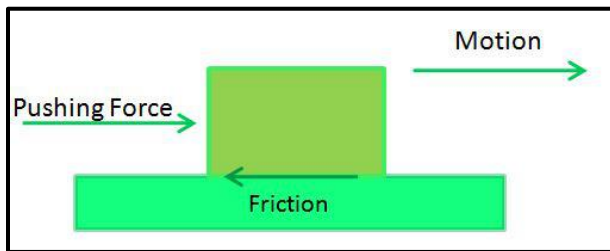
- Over 200,000 workers suffer a slip, trip, or fall injury annually
- Over 750 slip, trip, and fall deaths annually
- Over 2,500 slip, trip, or fall incidents daily

# Slips, Trips, and Falls

- What is a slip? \_\_\_\_\_
- What is a trip? \_\_\_\_\_
- What is a fall? \_\_\_\_\_



## Friction



## Momentum

As an object falls, it picks up speed. The increase in speed leads to an increase in the amount of air resistance. Eventually, the force of air resistance becomes large enough to balance the force of gravity.

$$p = mv$$

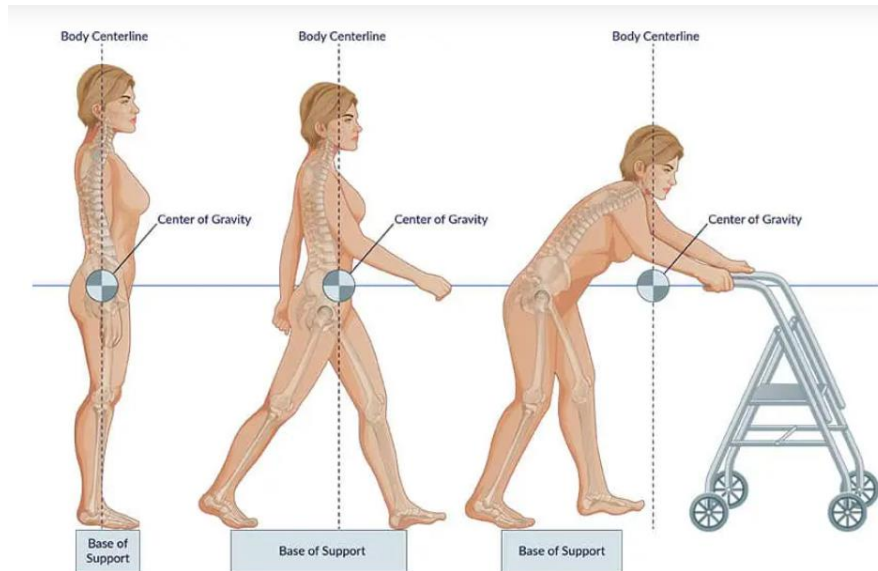
momentum  
 mass    velocity

## Gravity

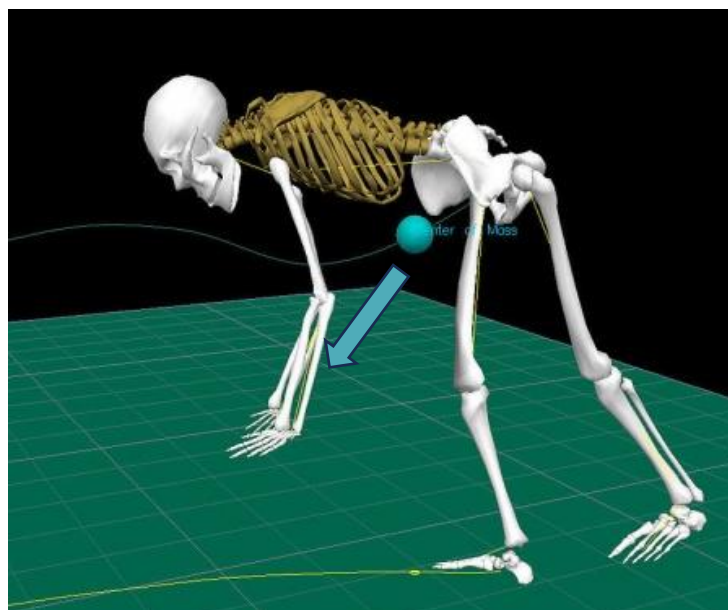
A force which tries to pull two objects toward each other



# Center of Gravity



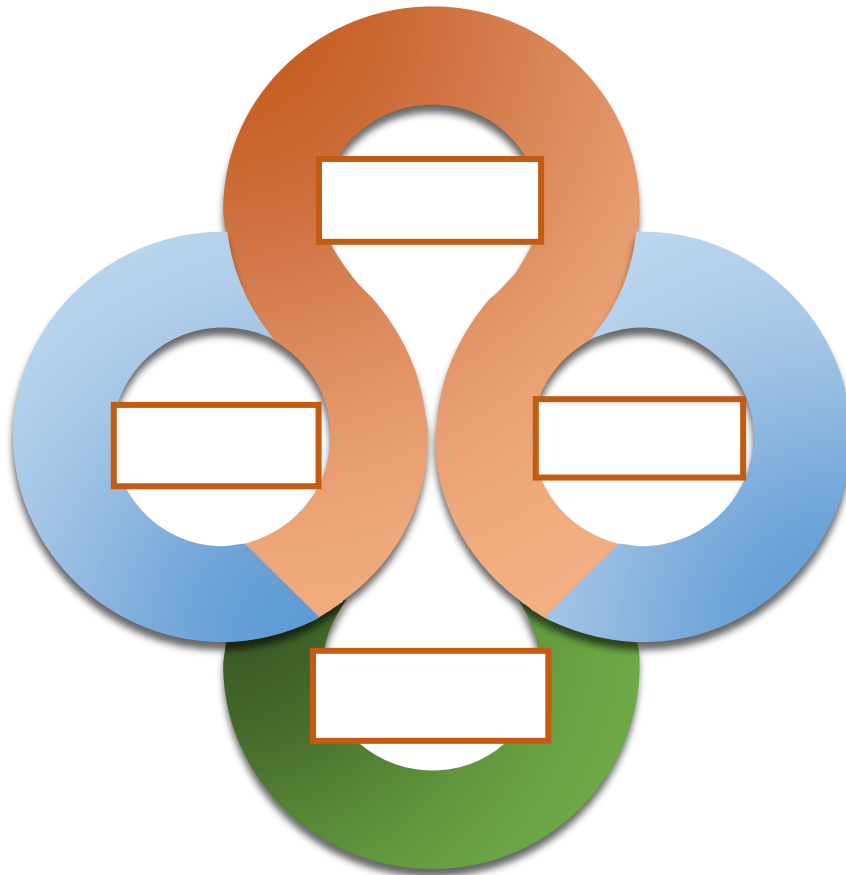
Where is Your Center of Gravity Going in a Fall?



# You and Your Working Environment

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**Label the Diagram:**







Identify 5 slip, trip, and fall hazards in your workplace






1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_










WHY DOES THIS EXIST?	HAZARD/S?	CORRECTIVE ACTION/S?
		
		
		
		





WHY DOES THIS EXIST?	HAZARD/S?	CORRECTIVE ACTION/S?
		
		
		
		

WHY DOES THIS EXIST?	HAZARD/S?	CORRECTIVE ACTION/S?
		
		
		
 <p data-bbox="337 1472 548 1503"><b>Capacity 200 lbs.</b></p>		
		




WHY DOES THIS EXIST?	HAZARD/S?	CORRECTIVE ACTION/S?
		
		
		
		

WHY DOES THIS EXIST?	HAZARD/S?	CORRECTIVE ACTION/S?
		
		
		
		
		

WHY DOES THIS EXIST?	HAZARD/S?	CORRECTIVE ACTION/S?
		
		
		
		





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# OSHA Regulations

## 29 CFR 1910 Subpart D Walking-Working Surfaces 1910.22 General Requirements

STANDARD	DESCRIPTION
1910.22(a) <b>Surface conditions.</b>	The employer must ensure:
1910.22(a)(1)	All places of employment, passageways, storerooms, service rooms, and walking-working surfaces are kept in a clean, orderly, and sanitary condition.
1910.22(a)(2)	The floor of each workroom is maintained in a clean and, to the extent feasible, in a dry condition. When wet processes are used, drainage must be maintained and, to the extent feasible, dry standing places, such as false floors, platforms, and mats must be provided.
1910.22(a)(3)	Walking-working surfaces are maintained free of hazards such as sharp or protruding objects, loose boards, corrosion, leaks, spills, snow, and ice.
1910.22(b)	<b>Loads.</b> The employer must ensure that each walking-working surface can support the maximum intended load for that surface.
1910.22(c)	<b>Access and egress.</b> The employer must provide, and ensure each employee uses, a safe means of access and egress to and from walking-working surfaces.





**1926.250(a)(2)(ii)**

Employers shall conspicuously post maximum safe load limits of floors within buildings and structures, in pounds per square foot, in all storage areas, except when the storage area is on a floor or slab on grade.

STANDARD	DESCRIPTION
1910.22(d)	<b>Inspection, maintenance, and repair.</b> The employer must ensure:
1910.22(d)(1)	Walking-working surfaces are inspected, regularly and as necessary, and maintained in a safe condition;
1910.22(d)(2)	Hazardous conditions on walking-working surfaces are corrected or repaired before an employee uses the walking-working surface again. If the correction or repair cannot be made immediately, the hazard must be guarded to prevent employees from using the walking-working surface until the hazard is corrected or repaired; and
1910.22(d)(3)	When any correction or repair involves the structural integrity of the walking-working surface, a qualified person performs or supervises the correction or repair

## Other OSHA – Subpart D Regulations

### 1910 Subpart D - Walking-Working Surfaces

- 1910.21 - Scope and definitions.
- 1910.22 - General requirements.
- 1910.23 - Ladders.
- 1910.24 - Step bolts and manhole steps.
- 1910.25 - Stairways.
- 1910.26 - Dockboards.
- 1910.27 - Scaffolds and rope descent systems.
- 1910.28 - Duty to have fall protection and falling object protection.
- 1910.29 - Fall protection systems and falling object protection-criteria and practices.
- 1910.30 - Training requirements.

### Do You Have A Distracted Walking Policy?

**COMMUNITY ALERT**  
OPERATIONS - WEST BUREAU  
LOS ANGELES POLICE DEPARTMENT  
OFFICIAL PUBLICATION OF THE OWB CRIME ANALYSIS DETAIL

**DISTRACTED WALKING**  
ARE YOU AT RISK?

STOP TEXTING & WALKING

LOLZ  
SEEMS GOOD  
SEE YOU THERE  
OMG NO WAY!

- TEXTING WHILE WALKING MAKES YOU LESS AWARE OF YOUR SURROUNDINGS.
- TEXTING WHILE WALKING MAKES YOU MORE VULNERABLE TO BECOMING A VICTIM OF A CRIME. YOUR PHONE CAN EASILY BE REMOVED FROM YOUR HAND.
- IF YOU DON'T PAY ATTENTION, YOU CAN INJURE YOURSELF BY TRIPPING, FALLING OR WALKING INTO TRAFFIC.
- CRIMINALS TARGET DISTRACTED PERSONS. CELLPHONES AND MUSIC DEVICES ARE OFTEN STOLEN DURING USE.

**REMAIN ALERT - DON'T BECOME A VICTIM!**

**LOOK UP - PHONE DOWN**

Prepared by: OWB Crime Analysis Detail      Date: 7/19/17      CASE: OWB17019-1

# Preventing Slips, Trips, and Falls

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## Benefits

- Increase productivity
- Prevent injuries and illnesses
- Reduce workers' compensation costs
- Improve morale
- Improvements in facilities, processes, and services
- To be effective, management must support this process



## Responsibilities

- Managers
- Supervisors
- Employees
- Contractors
- The Public



## Your Workers

- Job titles
- Job descriptions
- Work locations
- Points of access
- Environment
- Tools of trade
- Equipment
- Footwear

## The Public

- Structures
- Buildings
- Bridges
- Schools
- Roads
- Areas of congregation
- Transfer station
- Playgrounds
- Beaches
- Parks



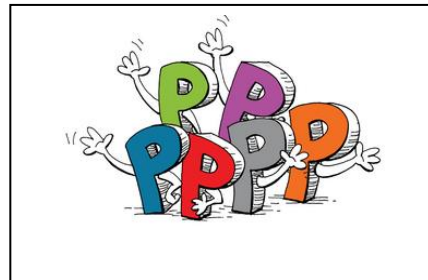
**Your Town**

- Facilities
- Buildings
- Roads
- Parks
- Towers
- Tanks
- Structures
- Inspections
- Observations
- Work practices
- Housekeeping
- Material storage
- Floor maintenance
- Footwear
- More!



**What are the Six P's? Do they exist within your Town, City, or Municipality?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_



**What do you have in place within your town, city, or municipality to prevent and/or control slips, trips, and falls?**

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# Prevention and Control of Slips, Trips, and Falls



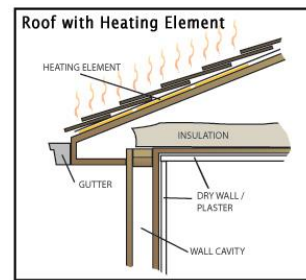


**Snow removal in Highlands Ranch**

<p><b>STREETS</b></p> <p><b>RESIDENTIAL SIDEWALKS</b></p> <p>3000+ RESIDENTIAL SIDEWALKS</p> <p>2,400+ HOMEOWNERS</p> <p><b>PRIORITIES</b></p> <ul style="list-style-type: none"> <li>• Safety</li> <li>• Access</li> <li>• Liability</li> <li>• Property</li> <li>• Environment</li> </ul>	<p><b>TRAILS &amp; PARKWAY SIDEWALKS</b></p> <p>150+ MILES OF SIDEWALKS</p> <p><b>PRIORITIES</b></p> <ul style="list-style-type: none"> <li>• Safety</li> <li>• Access</li> <li>• Liability</li> <li>• Property</li> <li>• Environment</li> </ul>	<p><b>RESIDENTIAL SIDEWALKS</b></p> <p><b>HOMEOWNER</b></p> <p><b>FOR MORE INFORMATION OR TO REPORT A PROBLEM</b></p> <p>Call the City of Highlands Ranch at 303.791.2181 or visit <a href="http://highlandsranch.org">highlandsranch.org</a></p>	<p><b>SNOW FACTS</b></p> <ul style="list-style-type: none"> <li>• Snow is a slippery surface.</li> <li>• Snow is a heavy load.</li> <li>• Snow is a poor conductor of heat.</li> <li>• Snow is a poor insulator.</li> <li>• Snow is a poor reflector of light.</li> <li>• Snow is a poor reflector of sound.</li> <li>• Snow is a poor reflector of radio waves.</li> <li>• Snow is a poor reflector of infrared radiation.</li> <li>• Snow is a poor reflector of ultraviolet radiation.</li> <li>• Snow is a poor reflector of gamma rays.</li> <li>• Snow is a poor reflector of X-rays.</li> <li>• Snow is a poor reflector of cosmic rays.</li> </ul>
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**WINTER IS COMING**

Consider a Metal Roof with Snow Guards







## A Slip, Trip, or Fall Occurs – What Next?

- Identify the incident
- Evaluate the situation
- Is the scene safe to enter?
- Communicate to necessary personnel
- Render aid, if trained and as needed
- Secure and document scene
- Incident investigation

