

THINK BEFORE YOU CLIMB

Helping Employees Use Ladders Safely

Our presentation begins soon



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Helping Employees Use Ladders Safely

ICW Group Risk Management

Today's presenter

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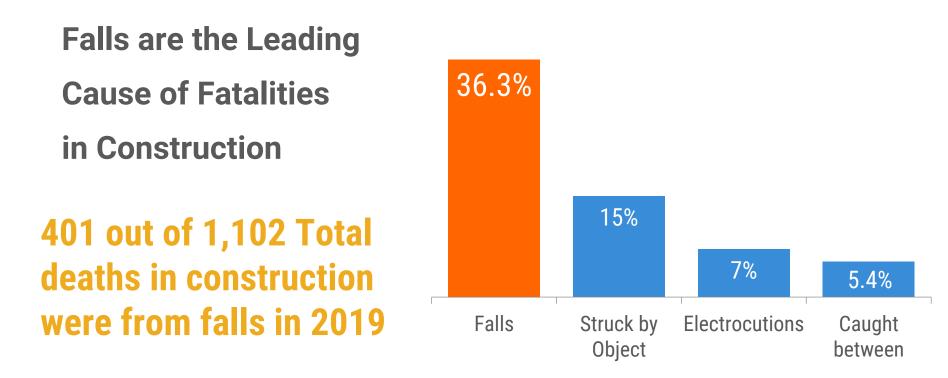


Today's Topics

- Importance of Ladder Safety
- The ICW Group Risk Framework
- Reducing Ladder Injuries
- 10 Critical Steps to Ladder Safety

Construction's "Fatal Four"





Source: U.S. Bureau of Labor Statistics



ALARMING TRENDS

Poor Ladder Safety accounts for:

- 20% of ALL work-related falls
- 81% of construction fall related injuries
- 16% of construction fatal injuries
- 24% of non-fatal involving days away

Source: Source: National Safety Council Safety and Health





Ladders Ranked #4 in OSHA violations

50% of Falls Requiring Medical Attention are from...

10 feet or Less

Source: OSHA Commonly Used Statistics

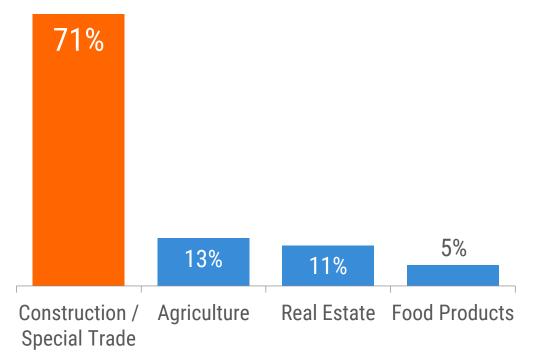
CUSTOMER DATA



Work Comp Insurance

Construction/Specialty Trades have the highest number of Fall from Elevation Injuries

Ladders safety is Important!

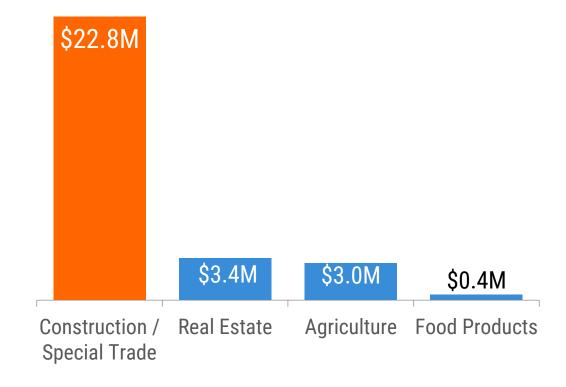


CUSTOMER DATA



ICW Group had nearly \$23 Million in Claim Costs from Falls in one year

Ex-mods are affected for three years





The ICW Group Risk Framework Working together to lower your risk

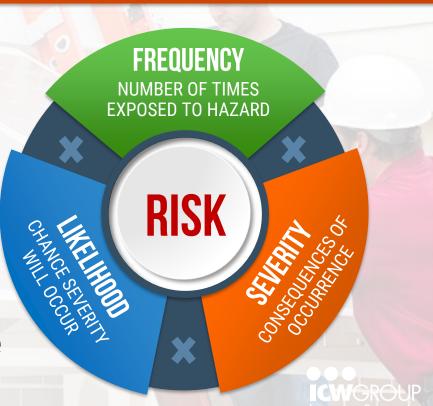


The ICW Group Risk Framework



Frequency

- Times exposed to hazard
 Likelihood
- Chance severity will occur
 Severity
 - Consequences of occurrence



Tips to Reduce Frequency



- Complete job assessment
- Store often-used items low
- Validate ladder is correct choice
 - Should I use a work platform?
 - Can I use an extension pole?
- Prefab work on ground
- Elevate materials with forklift





Tips to Reduce Likelihood



- Select the right ladder
- Secure and use properly
- Follow Safe Practices
- Keep ladders maintained

Conduct Ladder inspections and use ICW Ladder Stickers





Tips to Reduce Severity



- Use fall protection
- Ensure area is clear
- Clearly define safe height make it a "law"

FREQUENCY NUMBER OF TIMES EXPOSED TO HAZARD

RISK





Reducing Ladder Injuries

10 Critical Steps to Improve Your Culture of Safety



Is a Ladder Your Best Tool?

Review the task at hand and ask:

- Will I work at height for long period?
- Do I need to hold heavy tools and materials?
- Could a ladder become unstable?



Is a Ladder Your Best Tool?

- Can I get a ladder long enough?
- Can it be set-up properly?
- Is it possible to stay off top steps?
- Does the job demand standing sideways or reaching beyond side rails?



Check Your Surroundings

- What are environment impacts?
- Are there items in my way?
- Am I working by electricity, overhead power lines?
- Are there uneven work surfaces?
- Stairways?



Verify the Duty Rating

Will usage be within duty rating limits?

Ladder Type	Load Capacity	
Type III (Light Duty)	200 pounds	
Type II (Medium Duty)	225 Pounds	
Type I (Heavy Duty)	250 Pounds	
Type IA (Extra Heavy Duty)	300 Pounds	
Type IAA (Special Duty)	375 Pounds	
	E C	

Verify the Duty Rating

Remember – include your weight PLUS:

- Clothing and PPE
- Tools and supplies you're carrying
- Any tools and supplies stored on ladder

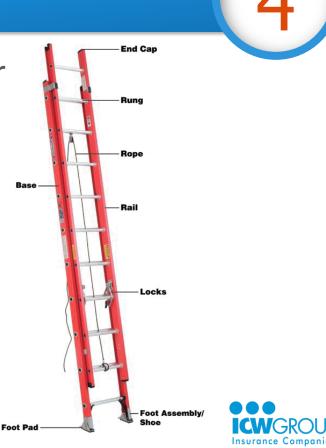
When should you use a stepladder?

- It's a small job
- Under X feet
- There is stable ground
- Level all 4 rails are even
- Able to fully open and lock
- No need to use top step or top cap.



When should you use an extension or straight ladder?

- Need longer length
- Ground stable enough for 2 feet
- Able to lean against safe surface
- Can set up with at least 75.5°
- Ladder rails can extend 3' above landing



Consider Extension / Straight Duty ratings and maximum heights

Ladder Type	2 Sections	3 Sections
Type III (Light Duty)	32 feet	N/A
Type II (Medium Duty)	48 feet	60 feet
Type I (Heavy Duty)	60 feet	72 feet
Type IA (Extra Heavy Duty)	60 feet	72 feet

When should you use a combination ladder?

- Need a multi-level platform, such as a stairwell ladder
- Can be used as a step or straight ladder



4

When should you use an articulating ladder?

- Need a work platform
- Can use as scaffold



Inspect for Defects

Check ladder is well maintained

- Lubricate moving parts
- Test hardware and fittings
- Replace worn ropes on extension ladders
- Clean rungs and steps



Inspect for Defects

Inspect regularly

- Rungs loose, cracked, broken
- Rails cracked, bent, frayed
- Labels missing, not readable
- Locks broken, missing



Inspect for Defects

Inspect regularly

- Hardware loose, broken
- Feet (shoes) worn, broken
- Other depending on type

Use Ladder Inspection Form Doesn't pass? Remove!



Insurance Companies

Carry Ladders Carefully

Injuries can occur when moving ladders!

- Store ladders close to the work area
- Check path is clear of hazards
- Use good lifting techniques
- When in doubt, ask for help.



Safely Secure Your Setup

Survey area before setting up

- Place on firm, level surface
- Check all locking devices
- Ensure proper angle
- Extend 3 feet above upper landing
- Double check stability



Safely Secure Your Setup

Consider ladder leveling devices

- Manufacturer approved
- Maximum 8 ½ inches extension
- Duty rating remains the same if installed properly



Safely Secure Your Setup

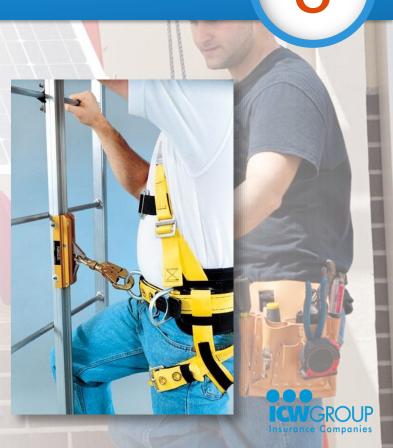
- Securely fasten straight or extension ladders to upper support
- Guard doorways near ladder



Need Fall Protection?

- Required for fixed ladders above 24'
- Note updated OSHA ruling on cages
- Other ladder type considerations





Read and Follow Labels

- Review usage directions
- Be sure to follow!







Practice Safe Ladder Use

Improper use is #4 on OSHA's most frequent offenders

- Side rails not 3' above upper level
- Not using as designed
- Using top cap as a step
- Not removing defective ladders
- Not on stable, level surface
- Not properly secured



Practice Safe Ladder Use

Remember to:

- Always face ladder when using
- Maintain three-point contact
- Move ladder instead of over-reaching
- Only one person on ladder
- Stop 3 rungs from top
- Never get off ladder from side

Practice Safe Ladder Use

Remember to:

- Keep body between rails
- Hips square to rungs
- Wear anti-slip shoes
- Don't climb while carrying tools
- Clean ladder after each use
- Store carefully



Reduce the RISK of Ladder Injuries

Follow safe practice "Do's" and Don'ts

Post in employee area



Ladder Safety - Do's & Don'ts Think before you climb!

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Ladder Do's...

- 1. Only one person on a ladder.
- 2. Avoid electrical hazards.
- 3. Set-up on level, stable surfaces.
- 4. Read and follow labels/markings.
- 5. Always face the ladder when climbing.
- 6. Wear anti-slip shoes; free of mud, ice, oil etc.
- 7. Maintain three-point contact climbing and descending.
- 8. Keep your body between rails; hips square to rungs. 9. Secure working area around ladder.

Ladder Don'ts...

- 1. Use If impaired by alcohol/drugs/medication/illness. 2. Lean too far outside rails in either direction.
- 3. Move or shift a ladder while on it.
- 4. Use a self-supporting ladder in a closed position. 5. Use the top step/rung of a ladder as a step/rung.
- 6. Place on box or unstable base for additional height. 7. Exceed maximum load rating.
- 8. Carry tools and materials in your hands.
- 9. Fasten two ladders together for additional height.

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Involve Your Safety Culture

Work as a team to:

- Identify ladders users
- Provide safety training
- Identify ways to reduce ladder use
- How often and for what purpose?



NUMBER OF TIMES EXPOSED TO HAZARD

RISK

Involve Your Safety Culture

- Observe use in the field
- Coach on correct use
- Educate on choosing correct ladder
- Check ladder labels add if needed
- Post helpful reminders



NUMBER OF TIMES

RISK

Involve Your Safety Culture

- 10 Critical Steps to Ladder Safety
- Ladder Safety Do's and Don'ts

Think before you climb

Ladder Do's...

1. Only one person on a ladder. 2. Avoid electrical hazards.

Set-up on level, stable surfaces.

4. Read and follow labels/markings.

5. Always face the ladder when climbing.

9. Secure working area around ladder.

3. Move or shift a ladder while on it.

7. Exceed maximum load rating.

Ladder Don'ts...

Ladder Inspection Guide

Type: Distension Step Construction: D				LADD	In	spect eac	h ladd
Type: Extension Step Construction: I IMPORTANT: Remove and discard any lado	Nood 🗖	Metal Fil	perglass	Ladder #			
IMPORTANT: Remove and discard any lade Date Date Date Date Date Date Date Dat	lers ident	ified as need	ling repai	r, unless repa	aired with	manufacture	
						101010101	er-appr
Inspected By Date repaired/Repaired By							
GENERAL GENERAL							
Side rails are in good condition	OK	Needs Repair	OK	Needs			
Steps or running are kinded		Nepar		Repair	OK	Needs Repair	OK
Steps or rungs are tight and can't be wiggled by hand Nails, screas, boits and other metal parts in good condition Uprights, braces and other metal parts in good condition	-						
Uprights, braces and rungs are in working order							_
Ladder is free from oil, grease or slippery materials							
Non-slip bases or feet are in good condition		-					
STEP LADDERS			_				
Not wobbly or loose (i.e. won't wobble from side-to-side) Hinges, spreader, and sta	_						
Hinges, spreaders and stop aren't loose or broken All steps are in good condition	_					_	
Ladder deer and	_					_	-
Ladder does not exceed 20 feet in height						_	
ATTENSION LADDERS	-				-		_
Extension locks are not loose, broken or missing					_		_
				_	_		
Pulley, rung locks and rope are in good condition					-	_	
			- F		-		
2-section ladders don't exceed 48' for metal, 60' for wooden				_			
					-	_	
Provided by ICW Group Worker	N' Compene	ation, Rick Ma	Terra Insura		_		



FREQUENCY NUMBER OF TIMES EXPOSED TO HAZARD

RISK

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Your Safety Resources icwgroup.com/safety

ICW Group Policyholder Website!

icwgroup.com/safety

- Go to Safety Webinars page
- Click on the topic to find the presentation & resources
- BONUS MATERIALS!
 - List of Safety OnDemand® ladder safety materials



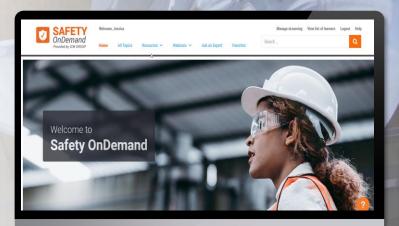
ICW Group Policyholder Website!



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QUESTIONS?

CONTACT US:

riskmanagement@icwgroup.com

877-289-1644



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SAFETY MATERIALS:

icwgroup.com/safety

