

Why Trust Anyone Else?

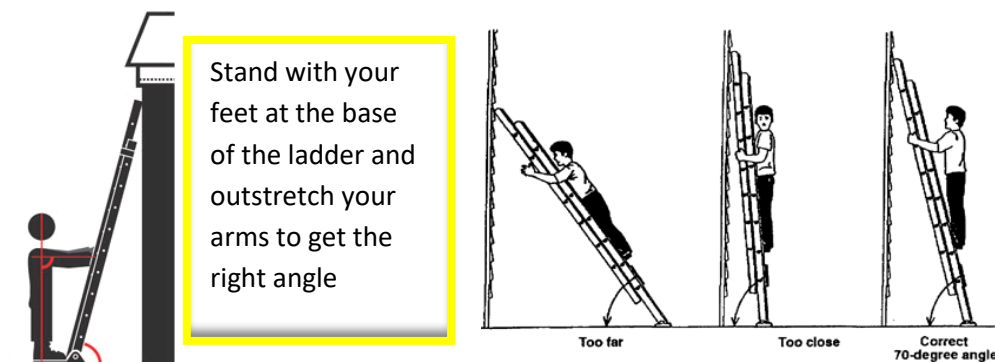
Ladder Safety

Both at work and at home, proper ladder selection, use, and maintenance are critical for your safety. Annually, ladder-related incidents cause over 500,000 injuries and approximately 300 deaths. In the workplace, these injuries cost U.S. employers \$11 billion annually. Lost work time, medical expenses, legal and liability costs, as well as pain and suffering.

How can you prevent ladder-related falls? It starts by understanding what causes these incidents.

According to National Institute for Occupational Safety and Health (NIOSH), the top 5 causes of ladder falls at home and in the workplace are:

- Incorrect extension ladder setup angle (see illustrations below)
- Inappropriate ladder selection
- Insufficient ladder inspection
- Improper ladder use
- Lack of access to ladder safety tools and information



If not set-up at the proper angle, a ladder can slide out at the base, causing falls and injuries. You should place the base a quarter of the working length of the ladder from the wall or vertical surface. Additionally, when accessing an elevated surface, straight or extension ladders should extend at least 3 feet above the point of support.

When using an extension ladder to gain access to the roof and you intend on leaving the ladder to walk the roof use a bungee cord to strap the ladder to the gutter. This will help to hold the ladder in place while you get off of the roof and onto the ladder. It will also help to keep the ladder from falling due to wind, which could strand you on the roof. Make sure your cell phone is with you if you are alone. If you fall you can call for help, I had to do this once.

Inappropriate Ladder Selection

Choosing the appropriate ladder for the task is important. Consider the type of ladder, load, material, and height.

Residential use Ladders come in 3 main types:



Step ladders



Extension ladders



Step stools

Extension ladders are typically only used outside to gain access to the roof, balcony, and/or gutters. Step ladders come in many heights and can be used both inside and outside based on your task. Every house should have a step stool it is an easy to carry and use ladder.

When choosing a ladder, you also need to take material into account. Although aluminum ladders are the most durable, as conductors they are unsuitable for use around electricity. Wood is a non-conductor but may rot if it gets wet or break if it is old. Fiberglass is the best option if you are looking for both durability and non-conductivity; however it is also the most expensive and fiberglass ladders are heavy.

Insufficient Ladder Inspection

Conducting regular inspection and maintenance can help prevent falls. Consider the following tips:

Regularly inspect ladders for breaks in the joints, rivets, and latches.

Check for cracks and broken welds in aluminum ladders.

Look for cracked wood, splinters, and rotten or broken hardware in wood ladders. Never paint wood ladders as this can conceal cracks, rot, or other imperfections. Discard any wooden extension ladders.

Fiberglass ladders come coated in a layer of clear sealant. If you notice any damage do not use it

Improper Ladder Use

Are you using ladders appropriately? Are you avoiding dangerous mistakes? Many ladder related-injuries can be avoided with proper use.

Set up the ladder according to the included safety instructions and warnings.

Wear shoes with non-slip soles. Really this is important especially with aluminum ladders. Be extra careful if your shoes or the ladder is wet
Before beginning to climb, align your body with the ladder, keeping your belt buckle between the rails, and firmly grip the rails with both hands.

Face the ladder as you climb, moving one step at a time. Secure one foot before moving the other.

If you are using a heavy ladder, ask another person to hold it while you are climbing or standing atop it.

Whenever possible, use a line to haul up materials instead of carrying them up the extension ladder. If you need to carry something, take extra care to avoid losing your balance or tipping the ladder.

Never use a ladder when you feel dizzy, tired, or otherwise unable to safely manage the task.

Always open a stepladder fully before climbing, and use its front. The stepladder top is not a seat.

Place the base of an extension ladder at a safe distance from the building or wall.

Only one person may use a single-sided stepladder or extension ladder at a time.

Always move the ladder to continue with a task rather than leaning to your side. Dismount before adjusting the ladder's position.

