

# Chapter 296-876 WAC

## LADDERS, PORTABLE AND FIXED

**WAC**

- 296-876-099 Definitions.
- 296-876-100 Scope.
- 296-876-150 Training.
- 296-876-15005 Training.
- 296-876-200 Design and construction.
- 296-876-20005 Design and construction.
- 296-876-300 Ladder care.
- 296-876-30005 Condition and inspection.
- 296-876-30010 Repair.
- 296-876-30015 Storage.
- 296-876-30020 Transport.
- 296-876-400 Portable ladder use.
- 296-876-40005 Designed use.
- 296-876-40010 Workplace activities or traffic.
- 296-876-40015 Support.
- 296-876-40020 Set-up.
- 296-876-40025 Climbing and descending.
- 296-876-40030 Getting on and off ladders at upper levels.
- 296-876-40035 Exposed electrical hazards.
- 296-876-40040 Persons on ladders.
- 296-876-40045 Multisection ladders.
- 296-876-40050 Self-supporting ladders.
- 296-876-500 Fixed ladder design and construction installed on or after December 1, 2006.
- 296-876-50010 Design and construction—Fixed ladders installed on or after December 1, 2006.
- 296-876-600 Fixed ladder design and construction installed before December 1, 2006.
- 296-876-60005 Design and construction—Fixed ladders installed before December 1, 2006.
- 296-876-60010 Design loads.
- 296-876-60015 Pitch.
- 296-876-60020 Welding.
- 296-876-60025 Ladder surfaces.
- 296-876-60030 Rungs, cleats and steps.
- 296-876-60035 Side rails.
- 296-876-60040 Clearances.
- 296-876-60045 Step-across distance.
- 296-876-60050 Extensions and grab bars.
- 296-876-60055 Hatches.
- 296-876-60060 Platforms.
- 296-876-60065 Protective structures and equipment.
- 296-876-60070 Cages.
- 296-876-60075 Wells.
- 296-876-60080 Ladder safety devices.
- 296-876-700 Fixed ladders inspection and maintenance.
- 296-876-70005 Protection against corrosion and deterioration.
- 296-876-70010 Inspection and repair.
- 296-876-800 Fixed ladder use.
- 296-876-80005 Designed load.
- 296-876-80010 Climbing and descending.

**DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER**

- 296-876-50005 Training. [Statutory Authority: RCW 49.17.010, 49.17-040, 49.17.050, 49.17.060. WSR 05-20-068, § 296-876-50005, filed 10/4/05, effective 1/1/06.] Repealed by WSR 06-16-020, filed 7/24/06, effective 12/1/06. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060.
- 296-876-900 Definitions. [Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-900, filed 7/24/06, effective 12/1/06.] Repealed by WSR 14-09-095, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17-040, 49.17.050, 49.17.060, and chapter 49.17 RCW.

**WAC 296-876-099 Definitions.**

**Cage.** An enclosure that encircles the climbing space of a fixed ladder. It is fastened to the ladder side rails or to the structure and may also be called a cage or basket guard.

**Cleat.** A ladder crosspiece used in climbing or descending. Also called a step or rung.

**Equivalent.** Alternative design, material, or method to protect against a hazard. You have to demonstrate it provides an equal or greater degree of safety for employees than the method, material, or design specified in the rule.

**Extension ladder.** A nonself-supporting portable ladder consisting of two or more sections. The sections travel in guides or brackets that allow the length of the ladder to be changed. The size is designated by the sum of the lengths of each section, measured along the side rails.

**Failure.** The ladder or ladder component loses the ability to carry the load, breaks, or separates into component parts.

**Fastenings.** Devices to attach a ladder to a structure, building, or equipment.

**Fixed ladder.** A ladder permanently attached to a structure, building, or equipment.

**Grab bars.** Handholds placed adjacent to or as an extension above ladders for the purpose of providing access beyond the limits of the ladder.

**Job-made ladder.** A ladder that is made, not commercially manufactured, to fit a specific job situation. They are for temporary use until a particular phase of construction is completed or until permanent stairways or fixed ladders are ready to use.

**Individual-rung/step ladder.** A fixed ladder consisting of individual steps or rungs mounted directly to the side or wall of the structure, building, or equipment.

**Ladder.** A device having steps, rungs, or cleats that can be used to climb or descend.

**Ladder safety device.** Any device, other than a cage or well, designed to arrest the fall of a person using a fixed ladder.

**Ladder type.** The designation that identifies the maximum intended load (working load) of the ladder. Ladder types are as follows:

Duty Rating	Ladder Type	Use	Maximum Intended Load (pounds)
Extra Heavy-Duty	IA	Industry, utilities, contractors	300
Heavy-Duty	I	Industry, utilities, contractors	250

Duty Rating	Ladder Type	Use	Maximum Intended Load (pounds)
Medium-Duty	II	Painters, offices, light maintenance	225
Light-Duty	III	General household use	200

**Landing.** Any area such as the ground, roof, or platform that provides access or egress to a ladder.

**Maximum intended load.** The total load of all persons, equipment, tools, materials, transmitted loads, and other loads reasonably anticipated to be applied to a ladder or ladder component at any one time. Sometimes referred to as working load.

**Pitch.** The included angle between the horizontal and the ladder, measured on the opposite side of the ladder from the climbing side.

**Portable ladder.** A ladder that can be readily moved or carried.

**Reinforced plastic.** A plastic that has high-strength fillers embedded in the base resin to increase strength.

**Reinforced plastic ladder.** A ladder whose side rails are reinforced plastic. The crosspieces, hardware, and fasteners may be made of metal or other suitable material.

**Rung.** A ladder crosspiece used in climbing or descending. Also called a cleat or step.

**Side-step ladder.** A fixed ladder that requires a person to step to the side of the ladder side rails to reach the landing.

**Single ladder.** A nonself-supporting portable ladder, nonadjustable in length, consisting of one section. The size is designated by the overall length of the side rail.

**Single-rail ladder.** A portable ladder with crosspieces mounted on a single rail. Single-rail ladders are prohibited from use.

**Special-purpose ladder.** A portable ladder that is made by modifying or combining design or construction features of the general-purpose types of ladders in order to adapt the ladder to special or specific uses.

**Step.** A ladder crosspiece used in climbing or descending. Also called a cleat or rung.

**Stepladder.** A self-supporting portable ladder, nonadjustable in length, with flat steps and hinged at the top. The size is designated by the overall length of the ladder measured along the front edge of the side rails.

**Through ladder.** A fixed ladder that requires a person to step between the side rails of the ladder to reach the landing.

**Trestle ladder.** A self-supporting portable ladder, nonadjustable in length, consisting of two sections hinged at the top to form equal angles with the base. The size is designated by the length of the side rails measured along the front edge.

**Well.** A walled enclosure around a fixed ladder that provides a person climbing the ladder with the same protection as a cage.

**Working length.** The length of a nonself-supporting ladder, measured along the rails, from the base support point of the ladder to the point of bearing at the top.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-099, filed 4/22/14, effective 7/1/14.]

**WAC 296-876-100 Scope.** This chapter applies to portable and fixed ladders, including job-made wooden ladders. For requirements related to mobile ladder stands or rolling ladders, please refer to WAC 296-874-20024 Make sure stairway-type ladders meet these requirements.

**EXEMPTION:** This chapter does not apply to:

1. Portable ladders used by the fire services for fire combat that are covered by safety standards for firefighters, chapter 296-305 WAC;
2. Agriculture activities covered by safety standards for agriculture, chapter 296-307 WAC.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, and 49.17.060. WSR 16-23-141, § 296-876-100, filed 11/22/16, effective 12/23/16. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-100, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-100, filed 7/24/06, effective 12/1/06; WSR 05-20-068, § 296-876-100, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-150 Training.**

**Your responsibility:** To train employees who use ladders.

You must meet the requirements...	in this section:
Training	WAC 296-876-15005

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-150, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-22-024, § 296-876-150, filed 10/24/06, effective 12/1/06.]

**WAC 296-876-15005 Training.** (1) You must train employees to recognize ladder hazards and the procedures to minimize these hazards.

(2) You must have a competent person train employees that use ladders in at least the following topics:

(a) The proper construction, use, placement, and care in handling ladders.

(b) The maximum intended load capacities of ladders that are used.

(c) The requirements of this chapter.

(3) You must retrain employees as necessary to make sure they know and understand the content of the original training.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-15005, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-22-024, § 296-876-15005, filed 10/24/06, effective 12/1/06.]

**WAC 296-876-200 Design and construction.**

**Summary**

**Your responsibility:** To make sure portable ladders meet design and construction requirements.

You must meet the requirements...	in this section:
Design and construction	WAC 296-876-20005

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-200, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 05-20-068, § 296-876-200, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-20005 Design and construction.**

**Important:**

Design and construction requirements of this section do not apply to special purpose ladders.

(1) You must make sure portable ladders and job-made wooden ladders manufactured **on or after January 1, 2006**, meet the design and construction requirements and specifications of the appropriate American National Standards Institute (ANSI) standard:

- (a) ANSI A14.1-2000, American National Standard for Ladders-Portable Wood-Safety Requirements.
- (b) ANSI A14.2-2000, American National Standard for Ladders-Portable Metal-Safety Requirements.
- (c) ANSI A14.5-2000, American National Standard for Ladders-Portable Reinforced Plastic-Safety Requirements.
- (d) ANSI A14.4-2002, American National Standard Safety Requirements for Job-Made Wooden Ladders.

(2) You must make sure portable ladders manufactured **before January 1, 2006**, meet the design and construction requirements and specifications of the appropriate ANSI standard in effect on the date of manufacture:

- (a) ANSI A14.1, American National Standard for Ladders-Portable Wood-Safety Requirements.
- (b) ANSI A14.2, American National Standard for Ladders-Portable Metal-Safety Requirements.
- (c) ANSI A14.5, American National Standard for Ladders-Portable Reinforced Plastic-Safety Requirements.

Note: A commercially manufactured portable ladder should have a label indicating it meets the requirements of the ANSI standard. If in doubt, check with the manufacturer.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-20005, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 05-20-068, § 296-876-20005, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-300 Ladder care.**

**Summary**

**Your responsibility:** To make sure portable ladders are inspected, maintained, stored, and transported properly.

You must meet the requirements...	in this section:
Condition and inspection	WAC 296-876-30005
Repair	WAC 296-876-30010
Storage	WAC 296-876-30015
Transport	WAC 296-876-30020

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-300, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 05-20-068, § 296-876-300, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-30005 Condition and inspection. (1)**

You must keep portable ladders in good, usable condition. Good, usable condition includes, but is not limited to:

- (a) Joints between the steps or rungs and the side rails are tight.
  - (b) Rungs, cleats, or steps are not bent, broken, or missing.
  - (c) Side rails are not bent, broken, or split.
  - (d) All bolts and rivets are in place and secure.
  - (e) Hardware, fittings, and accessories are securely attached and working properly.
  - (f) Ropes are not frayed or badly worn.
  - (g) Moveable parts operate freely without binding or excessive play.
  - (h) Safety feet and other auxiliary equipment are not excessively worn.
  - (i) Metal components are not corroded.
  - (j) There are no other faulty or defective components.
- (2) You must make sure wood ladders are not coated with an opaque covering except for the minimum amount necessary for identification and warning information which may be placed on one face only of a side rail.
- (3) You must have a competent person inspect a ladder:
- (a) When required by Table 1, Ladder Inspection Criteria; and
  - (b) After any other occurrence that could affect safe use.
- (4) You must make sure any ladder with structural damage or other hazardous defect is:
- (a) Marked to identify it as defective or tagged with "do not use" or similar language; and
  - (b) Removed from service.

Note: Ladders subjected to certain acids or alkali materials may experience chemical corrosion and a reduction in strength. Consult the manufacturer or a qualified person prior to use.

**Table 1  
Ladder Inspection Criteria**

When the ladder is:	Do the following:
First placed into service and periodically while in service	Inspect the ladder for visible defects, including, but not limited to: <ol style="list-style-type: none"> <li>1. Working parts; and</li> <li>2. Rung or step connections to the side rails.</li> </ol>
Damaged by impact or tips over	<ol style="list-style-type: none"> <li>1. Visually inspect the ladder for dents, bends, cracks or splits</li> <li>2. Check:                             <ol style="list-style-type: none"> <li>a. Rung or step connections to the side rails.</li> <li>b. Hardware connections.</li> <li>c. Rivets for shear damage.</li> <li>d. All other components.</li> </ol> </li> </ol>
Exposed to excessive heat such as a fire	<ol style="list-style-type: none"> <li>1. Visually inspect the ladder for damage.</li> <li>2. Test for deflection and strength characteristics using the "in-service use tests" contained in the appropriate ANSI.                             <p><b>EXEMPTION:</b> Job-made wooden ladders are not to be subjected to load or impact tests. Those tests may weaken lumber components or fasteners, causing hidden damage that could result in sudden failure during use.</p> </li> </ol>

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-30005, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 05-20-068, § 296-876-30005, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-30010 Repair.** (1) You must make sure repairs restore the ladder to a condition meeting its original design criteria.

(2) You must prohibit repairs to a defective side rail.

Note: A commercially manufactured ladder with a defective side rail cannot be repaired by the user. Side rail repair can only be done by the manufacturer.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-30010, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 05-20-068, § 296-876-30010, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-30015 Storage.** You must make sure material is not put on ladders in storage.

Note: Store portable ladders on racks designed to protect them when not in use. The racks should have enough supporting points to prevent the ladder from sagging. Do not store wood ladders near sources of heat, moisture, or dampness.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-30015, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 05-20-068, § 296-876-30015, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-30020 Transport.** (1) You must properly support ladders while transporting them on vehicles.

(2) You must make sure ladders transported in a truck rack are positively secured in a fixed position that prevents chafing or abrasion.

Note: Securing the ladder to each support point will greatly reduce damage due to road shock.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-30020, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 05-20-068, § 296-876-30020, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-400 Portable ladder use.**

**Summary**

**Your responsibility:** To use portable ladders safely.

You must meet the requirements...	in this section:
Designed use	WAC 296-876-40005
Workplace activities or traffic	WAC 296-876-40010
Support	WAC 296-876-40015
Set-up	WAC 296-876-40020
Climbing and descending	WAC 296-876-40025
Getting on and off ladders at upper levels	WAC 296-876-40030
Exposed electrical hazards	WAC 296-876-40035
Persons on ladders	WAC 296-876-40040
Multisection ladders	WAC 296-876-40045

You must meet the requirements...	in this section:
Self-supporting ladders	WAC 296-876-40050

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-400, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 05-20-068, § 296-876-400, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-40005 Designed use.** (1) You must use ladders only for their intended purpose.

Note: Unless specifically recommended by the manufacturer, do not use a ladder as a:

1. Brace.
2. Skid.
3. Lever.
4. Guy or gin pole.
5. Gangway.
6. Platform.
7. Scaffold plank.
8. Material hoist.

(2) You must make sure not to overload ladders. Do not exceed either the:

- (a) Maximum intended load; or
- (b) Manufacturer's rated capacity.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-40005, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 05-20-068, § 296-876-40005, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-40010 Workplace activities or traffic.**

(1) You must protect ladders that are set up in a location where they could be displaced by workplace activities or traffic by either:

- (a) Securing the ladder to prevent accidental displacement; or
- (b) Using a barricade to keep the activities or traffic away from the ladder.

(2) You must protect ladders that are set-up in front of doors that open towards the ladder by doing at least one of the following:

- (a) Block the door open.
- (b) Lock the door.
- (c) Guard the door to keep it from opening into the ladder.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-40010, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 05-20-068, § 296-876-40010, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-40015 Support.** (1) You must place the ladder either:

(a) With a secure footing on a firm, level support surface; or

(b) Secure the ladder to prevent accidental displacement.

(2) You must make sure a ladder is not placed on ice, snow, or other slippery surface unless the ladder is prevented from accidental displacement by either:

- (a) Securing it; or
- (b) Providing the ladder with slip-resistant feet.

**Note:** Slip-resistant feet are not a substitute for care in placing, lashing, or holding a ladder that is used on a slippery surface.

(3) You must make sure ladders are not placed on boxes, barrels, or other unstable bases to obtain additional height.

(4) You must place a straight ladder so the side rails are equally supported by the top support, unless the ladder is equipped with a single support attachment.

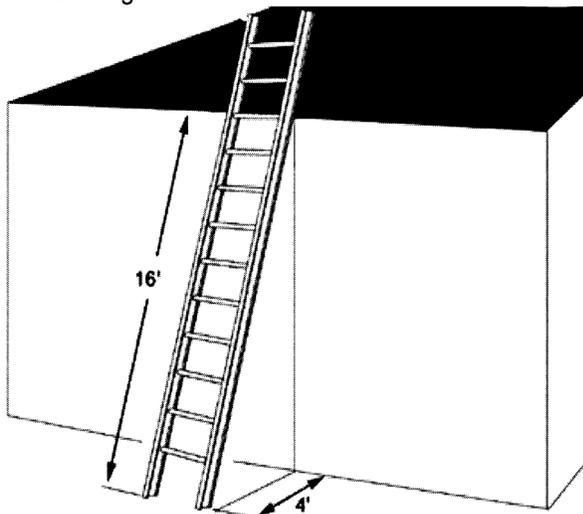
(5) You must make sure the top support of the ladder is reasonably rigid and able to support the load.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-40015, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.-050, 49.17.060. WSR 05-20-068, § 296-876-40015, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-40020 Set-up.** (1) You must set up non-self-supporting ladders at a safe angle. The ladder is set at the proper angle when the horizontal distance from the top support to the foot of the ladder is approximately one-quarter the working length of the ladder.

(2) You must set up job-made ladders with spliced side rails so that the horizontal distance from the top support to the foot of the ladder is not greater than one-eighth the working length of the ladder.

**Note:**  
Safe ladder angle.



[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-40020, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.-050, 49.17.060. WSR 05-20-068, § 296-876-40020, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-40025 Climbing and descending.** (1) You must have both hands free to hold on to the ladder.

(2) You must face the ladder when climbing or descending.

(3) You must keep ladders free of oil, grease, or other slippery materials.

(4) You must keep the area around the top and bottom of ladders clear.

(5) You must make sure single-rail ladders are not used.

(11/22/16)

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-40025, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.-050, 49.17.060. WSR 05-20-068, § 296-876-40025, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-40030 Getting on and off ladders at upper levels.** (1) You must make sure a ladder used to access an upper level has the side rails extended at least three feet (0.9 m) above the landing surface if the ladder length permits.

(2) You must do the following if a ladder used to access an upper level is not long enough to obtain a three-foot side rail extension above the landing surface:

(a) Secure the ladder at the top to a rigid support that will not deflect.

(b) Provide a grasping device, such as a grabrail, to assist in mounting and dismounting the ladder.

(c) Make sure the ladder deflection under a load would not, by itself, cause it to slip off its support.

(3) You must make sure, if two or more separate ladders are used to reach an elevated work area, that the ladders are offset with a platform or landing between them.

**EXEMPTION:** A platform or landing is not required when a portable ladder is used to reach a fixed ladder on structures such as utility towers and billboards where the bottom of the fixed ladder is elevated to limit access.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-40030, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.-050, 49.17.060. WSR 05-20-068, § 296-876-40030, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-40035 Exposed electrical hazards.** You must use ladders with nonconductive side rails where the ladder could contact uninsulated, energized electric lines or equipment. Metal ladders or other ladders specifically designed to permit grounding or dissipation of static electricity may be used around high-static electrical fields if all of the following are met:

(1) Using nonconductive ladders would present a greater hazard than using conductive ladders.

(2) Ladders are prominently marked and identified as being conductive.

(3) Ladders are grounded when used near energized lines or equipment.

**Note:** Examples of ladders with conductive side rails are metal ladders, and wood or reinforced plastic ladders with metal side rail reinforcement.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-40035, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.-050, 49.17.060. WSR 05-20-068, § 296-876-40035, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-40040 Persons on ladders.** (1) You must make sure a ladder is not moved, shifted, or adjusted while anyone is on it.

(2) You must secure the ladder at the top and bottom when working from it.

(3) You must use a safety belt with a lanyard that is secured to the ladder when doing any work that:

(a) Requires the use of both hands; and

[Ch. 296-876 WAC p. 5]

(b) Is done from a ladder more than twenty-five feet above the ground or floor.

(4) You must prohibit work being done from a ladder more than twenty-five feet above the ground or floor if the work requires wearing eye protection or a respirator.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-40040, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 05-20-068, § 296-876-40040, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-40045 Multisection ladders.** (1) You must make sure not to tie or fasten ladder sections together to make longer ladders unless:

(a) The ladder manufacturer endorses this type of use; and

(b) You have hardware fittings specifically designed for this purpose.

(2) You must make sure each section of a multisection ladder, when fully extended and locked in position to be used, overlaps the adjacent section as indicated in Table 2, Minimum Required Overlap for Extension Ladders.

**Table 2**

**Minimum Required Overlap for Extension Ladders**

If the ladder size (feet) is:	Minimum required overlap (feet) for a two-section ladder is:
Up to and including 36	3
Over 36 up to and including 48	4
Over 48 up to and including 60	5

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-40045, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 05-20-068, § 296-876-40045, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-40050 Self-supporting ladders.** (1) You must make sure self-supporting ladders are not used as single ladders or in the partially closed position.

(2) You must make sure stepladders are fully opened with the spreaders locked.

(3) You must make sure not to climb on the rear braces of a self-supporting ladder unless they are designed and recommended for that purpose by the manufacturer.

(4) You must prohibit standing or stepping on the:

(a) Top cap and top step of a step or trestle ladder.

(b) Bucket or pail shelf of a self-supporting ladder.

**EXEMPTION:** The restriction against using the top step is not applicable if it is eighteen inches or more below the top cap.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-40050, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 05-20-068, § 296-876-40050, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-500 Fixed ladder design and construction installed on or after December 1, 2006.**

**Summary**

**Your responsibility:** To make sure fixed ladders installed on or after December 1, 2006, meet design and construction requirements.

You must meet the requirements...	in this section:
Design and construction— Fixed ladders installed on or after December 1, 2006	WAC 296-876-50010

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-500, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-500, filed 7/24/06, effective 12/1/06; WSR 05-20-068, § 296-876-500, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-50010 Design and construction— Fixed ladders installed on or after December 1, 2006.** You must make sure fixed ladders installed on or after December 1, 2006, meet the design and construction requirements of ANSI A14.3-2002, American National Standard for Ladders-Fixed-Safety Requirements.

Note: Ladders will be considered to have met the requirements of this section if they meet the design and construction requirements of ANSI A14.3, American National Standard for Ladders-Fixed-Safety Requirements, in effect at the time they are installed.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-50010, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-50010, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-600 Fixed ladder design and construction installed before December 1, 2006.**

**Summary**

**Your responsibility:** To make sure fixed ladders installed before December 1, 2006, meet design and construction requirements.

You must meet the requirements...	in this section:
Design and construction— Fixed ladders installed before December 1, 2006.	WAC 296-876-60005
Design loads	WAC 296-876-60010
Pitch	WAC 296-876-60015
Welding	WAC 296-876-60020
Ladder surfaces	WAC 296-876-60025
Rungs, cleats and steps	WAC 296-876-60030
Side rails	WAC 296-876-60035
Clearances	WAC 296-876-60040
Step-across distance	WAC 296-876-60045
Extensions and grab bars	WAC 296-876-60050
Hatches	WAC 296-876-60055
Platforms	WAC 296-876-60060

You must meet the requirements...	in this section:
Protective structures and equipment	WAC 296-876-60065
Cages	WAC 296-876-60070
Wells	WAC 296-876-60075
Ladder safety devices	WAC 296-876-60080

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-600, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-600, filed 7/24/06, effective 12/1/06; WSR 05-20-068, § 296-876-600, filed 10/4/05, effective 1/1/06.]

**WAC 296-876-60005 Design and construction—Fixed ladders installed before December 1, 2006.** You must make sure fixed ladders installed before December 1, 2006, meet the requirements of WAC 296-876-60010 through 296-876-60080.

Note: Ladders will be considered to have met the requirements of this section if they meet the design and construction requirements of ANSI A14.3, American National Standard for Ladders-Fixed-Safety Requirements, in effect at the time they are installed.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-60005, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-60005, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-60010 Design loads.** (1) You must make sure each ladder is able to support, without failure, the total of the following loads:

(a) At least two loads of two hundred and fifty pounds each, concentrated between any two consecutive attachments.

(b) Any additional concentrated loads of two hundred and fifty pounds each determined from the anticipated use of the ladder.

(c) Anticipated loads caused by all of the following that apply:

(i) Ice buildup.

(ii) Winds.

(iii) Rigging attached to the ladder, including the load to be lifted.

(iv) Impact loads resulting from the use of ladder safety devices.

(2) You must make sure the design of rails, supports, and fastenings includes:

(a) Live loads to be supported by the ladder; and

(b) The weight of the ladder and everything attached to it.

(3) You must consider all live loads to be concentrated at the point or points that will cause the maximum stress on the ladder or structural member.

(4) You must make sure each step or rung is capable of supporting a single concentrated load of at least two hundred fifty pounds applied in the middle of the step or rung.

(5) You must make sure the design stresses for wood components of ladders meet the requirements and specifications of ANSI A14.1, American National Standard for Lad-

ders-Portable Wood-Safety Requirements, in effect when the ladder was installed.

(6) You must make sure fastenings are designed to meet the ladder load requirements.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-60010, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-60010, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-60015 Pitch.** You must make sure the pitch of the ladder is no greater than ninety degrees from the horizontal.

Notes:

1. The preferred pitch of fixed ladders is within the range of seventy-five to ninety degrees from the horizontal. Ladders with a pitch range of sixty to seventy-five degrees from the horizontal are considered substandard and are only permitted if necessary to meet the installation requirements.
2. Fixed stairs are an alternative for installations where a pitch angle of less than sixty degrees is necessary. See Fixed industrial stairs, WAC 296-24-765, in the General Safety and Health Standards, chapter 296-24 WAC.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-60015, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-60015, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-60020 Welding.** You must make sure welding meets the requirements of the ANSI A14.3, American National Standard for Ladders-Fixed-Safety Requirements, in effect at the time the ladder was installed.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-60020, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-60020, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-60025 Ladder surfaces.** You must make sure all parts and surfaces of the ladder are free of splinters, sharp edges, burrs, or projections that may be hazardous to persons using the ladder.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-60025, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-60025, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-60030 Rungs, cleats and steps.** (1) You must make sure rungs have a minimum diameter as follows:

(a) Rungs of wood ladders are at least one and one-eighth inches.

(b) Rungs of metal ladders subject to unusually corrosive exposures, such as individual metal rungs imbedded in concrete which serve as access to pits and to other areas under floors, are at least one inch.

(c) Rungs of all other metal ladders are at least three-quarters inch.

(2) You must make sure rungs, cleats, and steps are all of the following:

(a) Parallel.

(b) Level.

(c) Uniformly spaced throughout the length of the ladder.

(d) Spaced so the distance from the centerline of one rung to the centerline of the next rung does not exceed twelve inches.

**EXEMPTION:** The vertical distance from the ground, floor, or roof at the access level to the first rung may be adjusted within a range of fourteen inches.

(3) You must make sure the minimum inside clear width of the stepping surface of rungs, steps, or cleats is sixteen inches.

(4) You must make sure individual rung or step-type ladders have rungs or steps that are shaped so that a person's foot cannot slide off the end.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-60030, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.-050, 49.17.060. WSR 06-16-020, § 296-876-60030, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-60035 Side rails.** (1) You must make sure the shape of the side rail:

- (a) Provides an adequate gripping surface; and
- (b) Is uniform throughout the length of climb.

(2) You must make sure a side rail that has been spliced to obtain a longer length is at least equivalent in strength to a one-piece side rail made of the same material.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-60035, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.-050, 49.17.060. WSR 06-16-020, § 296-876-60035, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-60040 Clearances.** (1) You must make sure ladders without wells or cages are at least thirty inches from the nearest permanent object on the climbing side, measured perpendicular to the ladder from the centerline of the rungs, cleats, or steps.

**EXEMPTION:** When unavoidable obstructions are encountered, the minimum perpendicular clearance between the centerline of the rungs, cleats, or steps and an obstruction on the climbing side may be reduced to twenty-four inches if a deflection device is installed to guide persons around the obstruction.

(2) You must make sure ladders without wells or cages have a clear width from the nearest permanent object on each side of the ladder of at least fifteen inches, measured from the center of the rungs, cleats, or steps.

(3) You must make sure the distance from the centerline of the rungs, cleats, or steps to the nearest permanent object in back of the ladder is at least seven inches.

**EXEMPTION:** Fixed ladders in elevator pits may reduce the minimum clearance from the ladder to the nearest permanent object in back of the ladder to four and one-half inches.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-60040, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.-050, 49.17.060. WSR 06-16-020, § 296-876-60040, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-60045 Step-across distance.** (1) You must make sure a through ladder at the point of access or egress has a step-across distance, measured from the centerline of the steps or rungs to the nearest edge of the landing area, that is:

(a) Not less than seven inches; or

(b) Greater than twelve inches.

(2) You must make sure a side-step ladder at the point of access or egress has a step-across distance, measured from the side rail of the ladder to the nearest edge of the landing area, that is:

(a) Not less than seven inches; or

(b) Greater than twelve inches.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-60045, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.-050, 49.17.060. WSR 06-16-020, § 296-876-60045, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-60050 Extensions and grab bars.** (1)

You must make sure the side rails of through or side-step ladders extend forty-two inches above the top of the access level or landing platform.

**Note:** For a parapet ladder, the access level is:

- 1. The roof if the parapet is cut to permit passage through it; or
- 2. The top of the parapet if it is continuous and uncut.

(2) You must make sure the extension of a through ladder above the access level or landing platform has:

- (a) Steps or rungs omitted from the extension; and
- (b) Clearance between the side rails that is:
  - (i) Not less than twenty-four inches; or
  - (ii) Greater than thirty inches.

**EXEMPTION:** The maximum clearance between side rails of the extension may be increased to thirty-six inches if the ladder has a ladder safety device.

(3) You must make sure side-step ladders have the steps or rungs and the side rails continuous in the extension.

(4) You must make sure individual rung-step ladders are extended at least forty-two inches above the access level or landing platform by:

- (a) Continuing the rung spacings as horizontal grab bars; or
- (b) Providing vertical grab bars that have the same lateral spacing as the vertical legs of the rungs.

**EXEMPTION:** Extensions are not required for individual rung-step ladders with access openings through a manhole or hatch.

(5) You must make sure grab bars:

- (a) Are at least four inches from the nearest permanent object in back of the grab bar, measured from the centerline of the grab bar; and
- (b) Do not extend beyond the rungs on the climbing side of the ladder.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, and 49.17.060. WSR 16-23-141, § 296-876-60050, filed 11/22/16, effective 12/23/16. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-60050, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.-050, 49.17.060. WSR 06-16-020, § 296-876-60050, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-60055 Hatches.** (1) You must make sure counterbalanced hatch covers open at least seventy degrees from the horizontal.

(2) You must make sure the inside clear width of the hatch is a nominal thirty inches.

(3) You must make sure the distance from the centerline of the rungs or cleats to the edge of the hatch opening on the climbing side, measured perpendicular to the ladder, is:

- (a) Not less than twenty-four inches; or
- (b) Greater than thirty inches.

(4) You must make sure hatches with clearance on the climbing side of the ladder that is between twenty-four and twenty-seven inches are fitted with a deflector plate mounted at an angle of sixty degrees from the horizontal.

Note: The springs or other counterbalance mechanisms for the hatch may project into the hatch opening provided they do not reduce clearance to less than twenty-four inches and a deflector plate is installed to guide persons around the obstruction.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-60055, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-60055, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-60060 Platforms.** (1) You must make sure landing platforms for side-step ladders extend at least thirty inches on the climbing side of the ladder.

(2) You must make sure landing platforms are:

- (a) At least thirty inches wide; and
- (b) Equipped with standard railings and toeboards placed to allow safe access to the ladder.

Reference: Requirements for standard railings and toeboards are in Railing, toeboards, and cover specifications, WAC 296-24-75011, the General Safety and Health Standards, chapter 296-24 WAC.

(3) You must make sure the top rung or step of the ladder is level with the landing served by the ladder.

(4) You must make sure the spacing from the landing platform to the first rung below the platform of a through ladder is the same as the rung spacing of the ladder.

(5) You must make sure, if two or more separate ladders are used to reach an elevated work area, that the ladders are offset with a platform or landing between them.

**EXEMPTION:** A platform or landing is not required when a portable ladder is used to reach a fixed ladder on structures such as utility towers and billboards where the bottom of the fixed ladder is elevated to limit access.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-60060, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-60060, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-60065 Protective structures and equipment.** (1) You must make sure a cage, well, or ladder safety system is provided if:

- (a) The length of climb is less than twenty-four feet; and
- (b) The top of the ladder is more than twenty-four feet above the ground, floor, or roof.

(2) You must make sure a ladder with a single length of climb that is equal to or greater than twenty-four feet is either:

- (a) Equipped with a ladder safety device; or
- (b) Uses multiple ladder sections and meets all of the following:
  - (i) Each section is provided with a cage or well.
  - (ii) The length of climb of any ladder section is not greater than fifty feet.

(11/22/16)

(iii) Each ladder section is offset from adjacent sections.

(iv) Landing platforms are provided at maximum intervals of fifty feet.

**EXEMPTION:** During construction activities, a self-retracting lifeline with landing platforms provided at maximum intervals of one hundred fifty feet may be used instead of a ladder safety device or multiple ladder sections.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-60065, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-60065, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-60070 Cages.** (1) You must make sure the cage meets all of the following:

(a) Extends at least forty-two inches above the top of the platform or above the point of access and egress at the top of the ladder.

(b) Has provisions for accessing and egressing the platform or the point of access or egress of the ladder.

(c) There is at least twenty-seven inches, but not more than thirty inches, from the cage to the centerline of the step or rung at all points except where the cage flares at the bottom of the ladder.

(d) The cage is at least twenty-seven inches wide.

(e) There are no projections inside the cage.

(2) You must make sure the bottom of the cage is:

(a) At least seven feet but not more than eight feet above the point of access to the bottom of the ladder; and

(b) Flared at least four inches all around within the distance between the bottom horizontal band and the next higher band.

(3) You must make sure vertical bars are:

(a) Spaced at intervals of nine and one-half inches or less on center around the circumference of the cage; and

(b) Fastened to the inside of the horizontal bands.

(4) You must make sure the horizontal bands meet all of the following:

(a) The vertical intervals between horizontal bands are not more than four feet on center.

(b) The horizontal bands of ladders with side rails are fastened to the side rails.

(c) The horizontal bands of individual-rung ladders are fastened directly to the structure, building, or equipment.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-60070, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-60070, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-60075 Wells.** (1) You must make sure there is at least twenty-seven inches, but not more than thirty inches, from the centerline of the step or rung to the inside face of the well on the climbing side of the ladder.

(2) You must make sure the inside clear width is at least thirty inches.

(3) You must make sure the well:

(a) Completely encircles the ladder; and

(b) Is free of projections.

(4) You must make sure the bottom of the wall on the access side is at least seven feet, but not more than eight feet, above the point of access to the bottom of the ladder.

[Ch. 296-876 WAC p. 9]

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-60075, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-60075, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-60080 Ladder safety devices.** (1) You must make sure ladder safety devices and related support systems meet all of the following:

(a) Are capable of withstanding, without failure, the test drop of a five-hundred-pound weight for a free-fall distance of eighteen inches.

(b) The device does not require a person to continually hold, push, or pull any part of the device and allows them to have both hands free to grip the ladder.

(c) In the event of a fall, the device:

(i) Is activated within two feet; and

(ii) Limits the fall velocity to seven feet per second or less.

(d) Uses a connection between the carrier or lifeline and the point of attachment on the full body harness that is not longer than nine inches.

(2) You must make sure ladder safety devices with rigid carriers have mountings that:

(a) Are attached at each end of the carrier; and

(b) Have intermediate mountings that are all of the following:

(i) Spaced along the entire length of the carrier in accordance with the manufacturer's recommendations.

(ii) Installed within one foot below each splice on the carrier.

(iii) Have a maximum distance between mountings that is twenty-five feet or less.

(3) You must make sure ladder safety devices with flexible carriers have:

(a) Mountings that are attached at each end of the carrier; and

(b) Cable guides that are spaced at least twenty-five feet, but no further than forty feet, apart along the entire length of the carrier.

(4) You must make sure the design and installation of mountings and cable guides does not reduce the design strength of the ladder.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-60080, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-60080, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-700 Fixed ladders inspection and maintenance.**

**Summary**

**Your responsibility:** To make sure fixed ladders are inspected and maintained properly.

You must meet the requirements...	in this section:
Protection against corrosion and deterioration	WAC 296-876-70005
Inspection and repair	WAC 296-876-70010

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-700, filed 4/22/14, effective 7/1/14.]

7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-700, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-70005 Protection against corrosion and deterioration.** (1) You must paint or otherwise treat metal ladders or metal parts to resist rust and corrosion if they are:

(a) Exposed to the elements; or

(b) Located where rust or corrosion could be expected.

(2) You must treat wood ladders used in conditions where decay may occur with a nonirritating preservative.

(3) You must make sure wood ladders are not coated with an opaque covering except for the minimum amount necessary for identification and warning information which may be placed on one face only of a side rail.

(4) You must treat the interface between different materials or use other means to prevent:

(a) One material from damaging or having a harmful effect on another material; and

(b) Electrolytic action between dissimilar metals.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-70005, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-70005, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-70010 Inspection and repair.** (1) You must keep ladders in safe condition.

(2) You must have a competent person inspect a ladder for visual defects:

(a) Periodically; and

(b) After any occurrence that could affect safe use.

(3) You must make sure any ladder with structural damage or other hazardous defect is immediately removed from service.

- Notes:
1. Structural damage includes, but is not limited to, any of the following:
    - a. Broken or missing rungs, cleats, or steps.
    - b. Broken or split rails.
    - c. Corroded components.
    - d. Bolts and welds missing or not secure.
  2. A ladder is considered to be removed from service if any of the following are done:
    - a. It is marked to identify it as defective.
    - b. It is tagged with "do not use" or similar language.
    - c. It is blocked so that it cannot be used, for example, by using a plywood attachment that spans several rungs.

(4) You must make sure repairs restore the ladder to a condition meeting its original design criteria.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-70010, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-70010, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-800 Fixed ladder use.**

**Summary**

**Your responsibility:** To use fixed ladders safely.

You must meet the requirements...	in this section:
Design load	WAC 296-876-80005

<b>You must meet the requirements...</b>	<b>in this section:</b>
Climbing and descending	WAC 296-876-80010

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-800, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-800, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-80005 Designed load.** You must make sure not to overload ladders. Do not exceed either the:

- (1) Maximum intended load; or
- (2) Manufacturer's rated capacity.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-80005, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-80005, filed 7/24/06, effective 12/1/06.]

**WAC 296-876-80010 Climbing and descending.** (1) You must have both hands free to hold on to the ladder.

(2) You must face the ladder when climbing or descending.

(3) You must keep ladders free of oil, grease, or other slippery materials.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060, and chapter 49.17 RCW. WSR 14-09-095, § 296-876-80010, filed 4/22/14, effective 7/1/14. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-16-020, § 296-876-80010, filed 7/24/06, effective 12/1/06.]