Walking and Working Surfaces



29 CFR 1910.21-30 Subpart D

NATIONAL STATS

 Slips, trips, and falls constitute the majority of general industry accidents.

 15% of all accidental deaths are related to slips, trips, and falls. These are second only to motor vehicles as a cause of fatalities. Slips, Trips and Falls are the second leading cause of injury in Riverside County and cost on average \$15,000 each

TOP 10 SLIP TRIP AND FALL HAZARDS

- × Contaminants on the Floor
- Indoor Walking Surface Irregularities
- × Outdoor Walking Surface Irregularities
- Weather Conditions: Ice and Snow
- × Inadequate Lighting
- × Stairs and Handrails
- × Stepstools and Ladders
- × Tripping Hazards: Clutter, Loose Cords, etc.
- Improper Use of Floor Mats and Runners
- × Poor Drainage: Pipes and Drains

1910.22 GENERAL REQUIREMENTS

- The OSHA standards apply to all places of employment. Employers must ensure:
- Passageways, storerooms, service rooms, and walking-working surfaces are kept clean, orderly, and in sanitary condition.

OSHA Walking and Working Surfaces Standard: Subpart D 1910.22: Housekeeping

Good housekeeping includes picking up, wiping up, and cleaning up.



Requires that all places of employment, passageways, storerooms, and service rooms shall be kept clean and orderly and in a sanitary condition.

CONTAMINANTS ON THE FLOOR



INDOOR WALKING SURFACE IRREGULARITIES





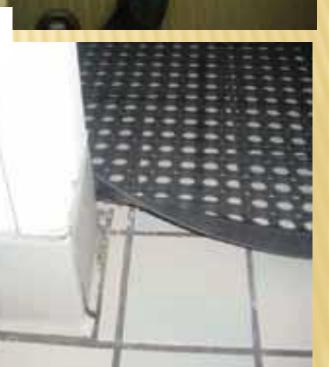


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MORE TRIPPING HAZARDS: CLUTTER, LOOSE WIRES, ETC.





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SIDEWALKS AND WALKWAYS 1910.22

- General Requirements
 - Sufficient safe
 clearance maintained
 where mechanical
 handling equipment is
 used
 - Aisles and passageways kept clear and in good repairs
 - No obstruction across or in aisles that could create a hazard





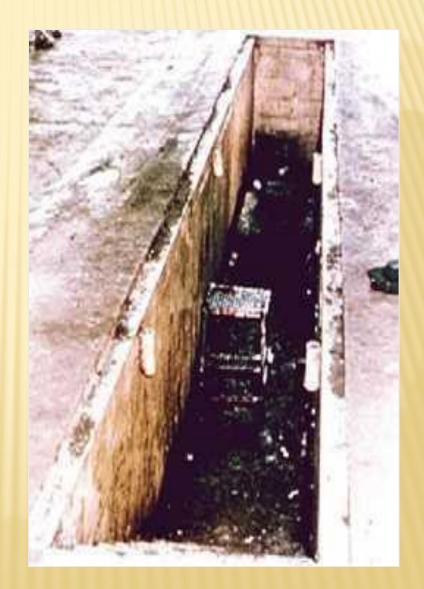
SLIP HAZARD



1910.30(b)(2) Aisles shall be provided of sufficient width to permit the free movement of employees bringing and removing material. This aisle space is to be independent of working and storage space.

COVERS AND GUARDRAILS 1910.22 (C)

 General Requirements
 + Shall be provided to protect workers from the hazards of open pits, tanks, vats, ditches, etc.



OPEN-SIDED FLOORS 1910.23 (C)(1)

- × General Requirements
 - + Every open-sided floor or platform 4 feet or more guarded on all open
 sides except where there
 is entrance to a ramp,
 stairway, or fixed ladder.



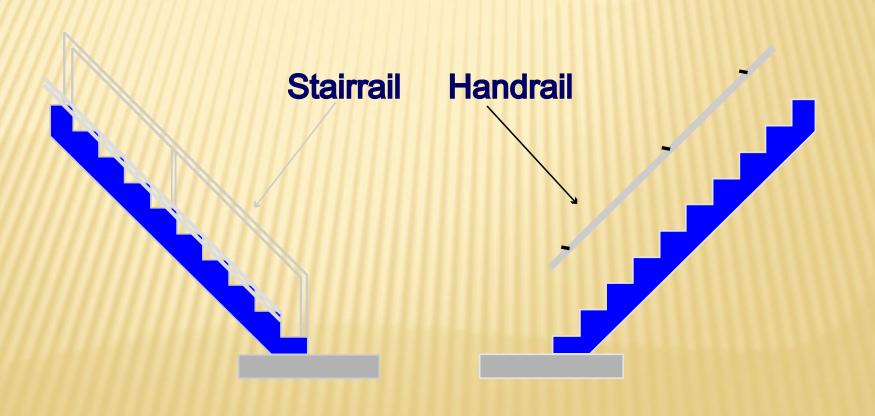
STAIRWAYS 1910.23 (D)(1)

- × General Requirements
 - + Every flight of stairs having four or more risers (4 feet or higher) shall be equipped with standard stair railings or standard handrails.



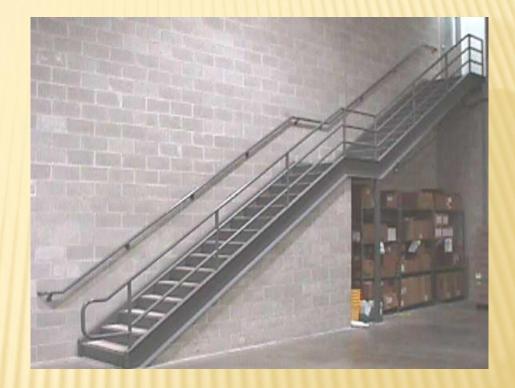
RAILINGS 1910.23 (E)(2)

- × General Requirements
 - A stair railing shall be not more than 34 inches nor less than 30 inches from upper surface of top rail to surface of tread in line with face of riser at forward edge of tread.



FIXED STAIRS 1910.24 (B)

- × General Requirements
 - Provided for regular travel between levels
 - + Where equipment requires attention routinely
 - Fixed stairs provided where access to elevations is daily
 - For work around acids, caustics, gases, or other harmful substances



USING HAND RAILS PREVENTS FALLS...

ALL STARS

FALL HAZARD?

FIXED STAIRS 1910.24 (F)

- General Requirements
 - + "Stair treads." All treads shall be reasonably slip-resistant and the nosings shall be of nonslip finish.
 - Rise height and tread width shall be uniform throughout any flight of stairs including any foundation structure used as one or more treads of the stairs.



FALL HAZARD?

FALL HAZARD?

ACCESS

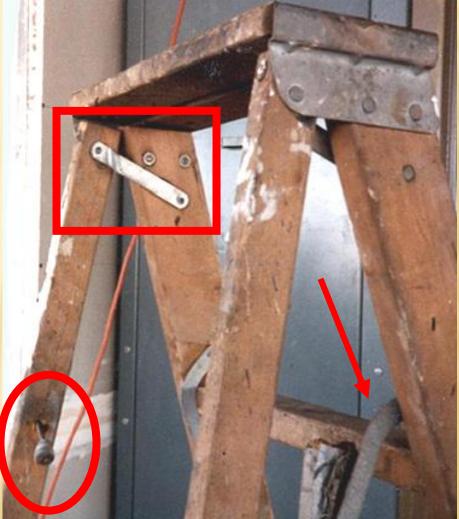
PORTABLE LADDERS 1910.25 AND 1910.26

- Types of Stepladders
 - Type I Industrial stepladder
 - 3 to 20 feet for heavy duty use, such as utilities, contractors, and industrial use
 - Type II Commercial stepladder
 - 3 to 12 feet for medium duty use, such as painters, offices, and light industrial use
 - Type III Household stepladder
 - 3 to 6 feet for light duty, such as light household use



PORTABLE LADDERS - INSPECTION 1910.25

- × General Requirements
 - + Ladders inspected frequently
 - + Those with defects withdrawn from service for repair or destruction and tagged or marked as "Dangerous, Do Not Use."



PORTABLE LADDERS – INSPECTION 1910.25



General Requirements

- Ladders with broken or missing steps, rungs, or cleats, broken side
 rails, or other faulty
 equipment shall not be
 used;
- Improvised repairs shall not be made

PORTABLE LADDERS 1910.25

× General Requirements + Ladders must not be placed in front of doors opening toward the ladder unless the door is blocked upon, locked, or guarded.



PORTABLE LADDERS 1910.25

× General Requirements + Ladders shall not be placed on boxes, barrels, or other unstable bases to obtain additional height;

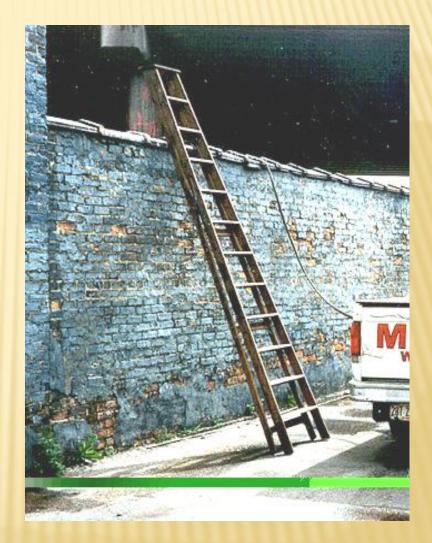


PORTABLE LADDERS 1910.25

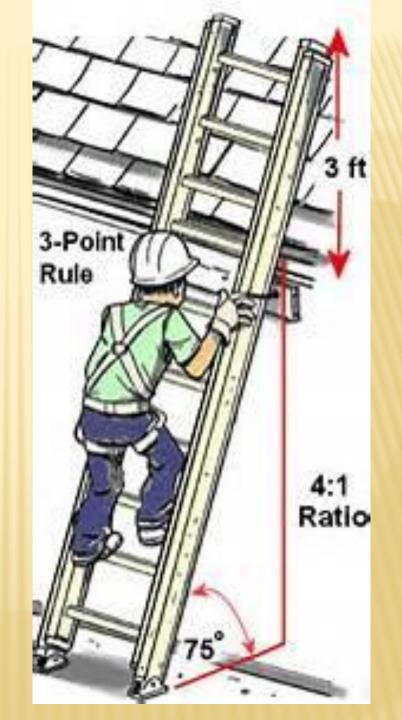
× General Requirements + Extension ladders used to access roof must clear roof line by minimum of three feet + Extension ladders used to access roofs and overhead working heights must be secured.



- General Requirements
 - Portable ladders are designed as a one-man working ladder based on a 200-pound load minimum.
 - The ladder base section must be placed with a secure footing.
 - The top of the ladder must be placed with the two rails supported, unless equipped with a single support attachment.



- General Requirements
 - 4:1 Ratio
 - When ascending or descending the climber must face the ladder.
 - Maintain three points of contact when climbing up and down



- General Requirements
- Use the right ladder for the job
- Never use a step ladder as an extension ladder



Never stand on the top of a step ladder



Summary

- Slips, trips and falls can be prevented
- Watch where you are walking
- Always use stair hand rails
- Practice good housekeeping
- Identify slip, trip and fall hazards inside and outside during inspections
- Sign, mark off, barricade hazards
- Report hazards in writing
- Inspect the hazard until eliminated or mitigated





