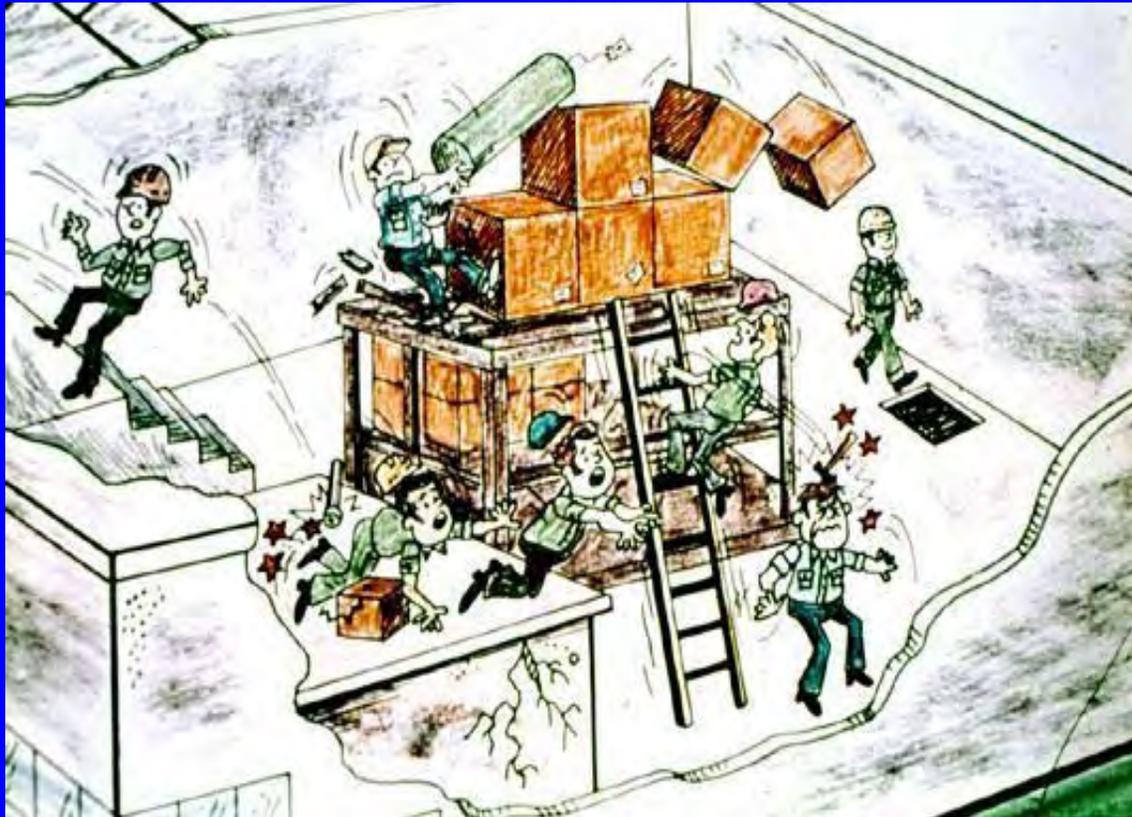


Walking-Working Surfaces



Introduction

 8 CCR, Article 2, section 3209 et sec.

 Slips, trips and falls cause:

-  15 percent of all accidental deaths

-  CA-62 deaths from falls and 10 from ladders

 OSHA's standards for walking and working surfaces apply to all permanent places of employment, except where only domestic, mining, or agricultural work is performed

General Requirements

Housekeeping

- ✎ Workplaces must be kept clean, orderly, and sanitary
- ✎ Workroom floors must be maintained as clean and dry as possible



General Requirements Aisles and Passageways

- ✎ Keep clear and move obstructions that could create a hazard
- ✎ Mark permanent aisles and passageways
- ✎ Aisles must be sufficiently wide where mechanical handling equipment is used



General Requirements

Covers and Guardrails

Provide covers and/or guardrails to protect workers from the hazards of open pits, tanks, vats, ditches, and the like.



General Requirements

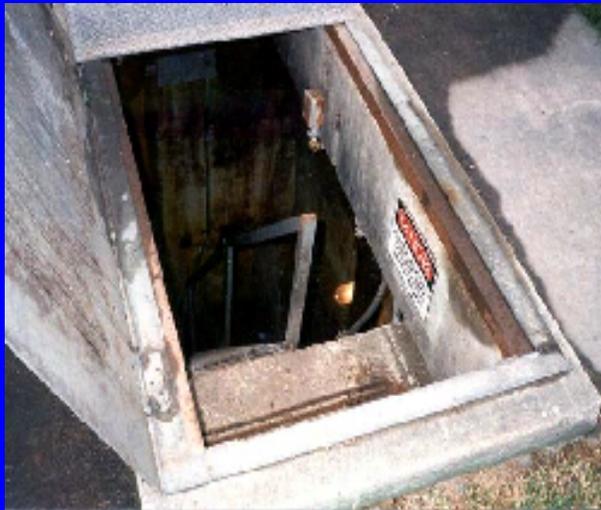
Floor Loading Protection

- ✎ Load ratings must be marked on plates and be conspicuously posted
- ✎ Do not exceed the load rating limit



Floor Opening

An opening measuring 12 inches or more in its least dimension in a floor, platform, pavement, or yard, through which persons may fall.



Stairway Floor Openings

Must be guarded by a standard railing on all exposed sides (except at entrance).



Floor Hole

- ✎ An opening measuring less than 12 in. but more than 1 in. in its least dimension, in a floor, platform, pavement or yard, through which materials but not persons may fall
- ✎ Every floor hole into which persons can accidentally walk must be guarded by either:
 - ⊗ standard railing with toeboard
 - ⊗ cover



Wall Openings

- ✎ Opening at least 30 in. high and 18 in. wide, in a wall or partition, through which persons may fall
- ✎ Wall openings from which there is a drop of more than 4 feet must be guarded



Open-Sided Floors, Walkways, Platforms, and Runways

Regardless of height, a standard railing and toeboard must be used to guard:

- open-sided floors
- walkways
- platforms, or
- runways

above or adjacent to dangerous equipment, pickling or galvanizing tanks, degreasing units, and similar hazards.

Stairways

Flights of stairs with four or more risers must have standard stair railings or handrails.



Fixed Industrial Stairs

- ✎ Treads must be slip resistant with uniform rise height and tread width
- ✎ Must be able to carry 5 times expected load; minimum of 1000 pounds
- ✎ Minimum width of 22 inches



Violation here – several steps bent and damaged

Portable Ladders

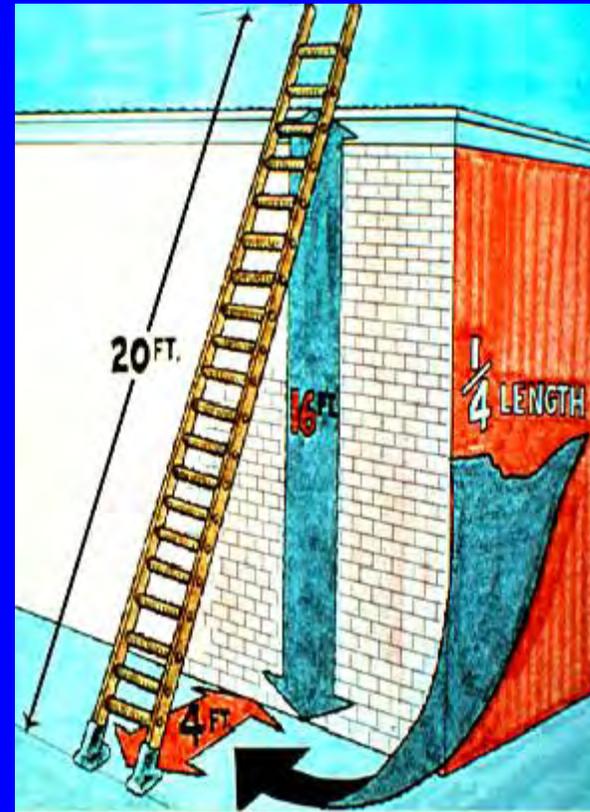
- ✎ Ladders used to gain access to a roof or other area must extend at least 3 feet above the point of support
- ✎ Withdraw defective ladders from service and tag or mark "Dangerous, Do Not Use"
- ✎ Never use ladders in a horizontal position as scaffolds or work platforms
- ✎ Never use metal ladders near electrical equipment



Ladder Angle

Portable Rung and Cleat Ladders

Use at angle where the horizontal distance from the top support to the foot of the ladder is $\frac{1}{4}$ the working length of the ladder (length along ladder between the foot and top support).



Fixed Ladders

- ✎ Permanently attached to a structure, building or equipment
- ✎ Cages or wells required if longer than 20 ft. to a maximum unbroken length of 30 ft.
- ✎ Ladder safety devices may be used on tower, water tank and chimney ladders over 20 ft. in unbroken length instead of cage protection



Summary

- ✎ Slips, trips, and falls constitute the majority of general industry accidents
- ✎ OSHA's standards for walking and working surfaces include requirements for housekeeping, guarding floor and wall openings and holes, industrial stairs and ladders
- ✎ Keeping working surfaces clean, dry, and uncluttered can prevent many workplace accidents

Most Frequently Cited Serious Violations FY 2005

