

Job Made Ladders

Side Rails:

- · Side rails of single-cleat ladders up to 24 ft. long should be made with at least 2x6 in. lumber.
- Single-rung ladder width should be at least 16 in., but not more than 20 in. btw. • rails measured inside to inside.

24 f

nas 2'x6'

21/4 in. wire nails

iderails

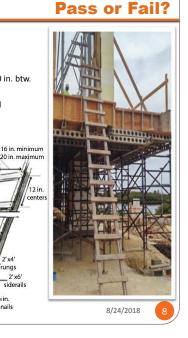
Rails should extend above the top landing between 36 in. (91.5 cm) and 42 in. to provide a handhold for mounting and dismounting, and cleats must be eliminated above the landing level.

Cleats:

- Must be equally spaced 12 inches on center from the top of one cleat to the top of the next cleat.
- Cleats should be fastened to each rail with three 12d common nails, nailed directly to the side rails.
- Cleats should be at least 1x4 in. for ladders 16 to 24 ft. long.

Filler Blocks:

- Minimum 2x2 in. wood strips inserted btw. cleats
- The ladder is complete when filler is nailed at the top of each rail.
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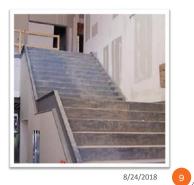


😥 Common Terms - Stairways

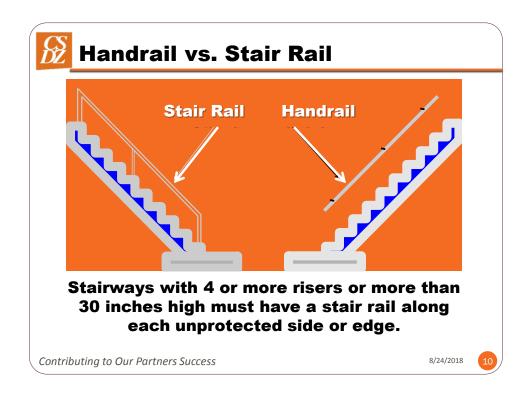
- Handrail used to provide employees with a handhold for support.
- **Stair rail system** a vertical barrier erected along the unprotected sides and edges of a stairway to prevent employees from falling to lower levels. The top surface of a stair rail system may also be a "handrail."

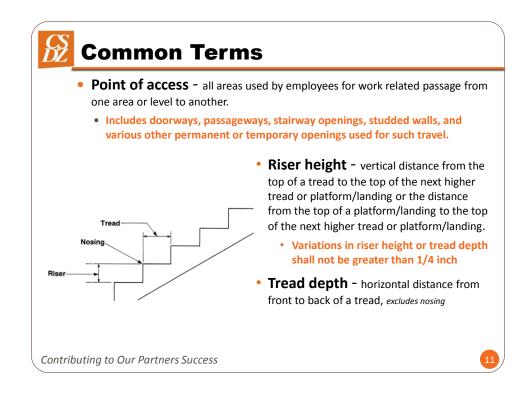
• Unprotected sides and edges

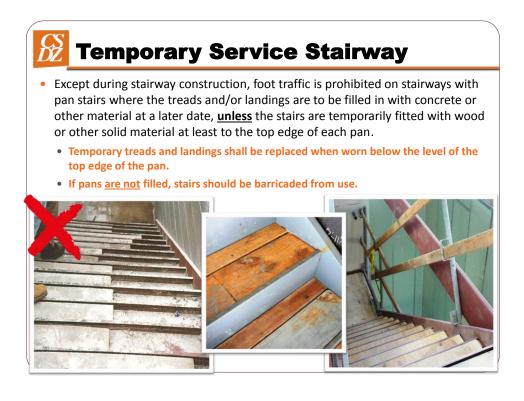
any side or edge (except at entrances to points of access) of a stairway where there is no stair rail system or wall 36 inches or more in height, and any side or edge (except at entrances to points of access) of a stairway landing, or ladder platform where there is no wall or guardrail system 39 inches or more in height.

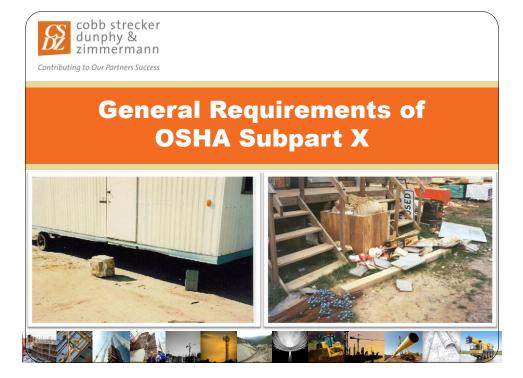


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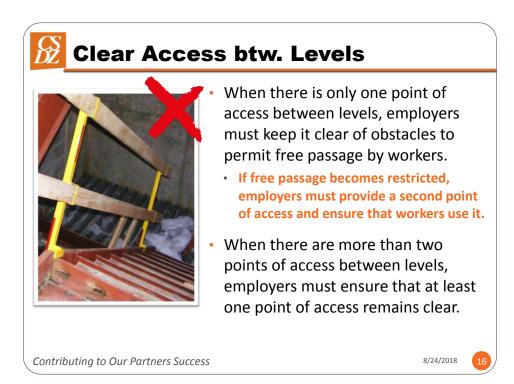






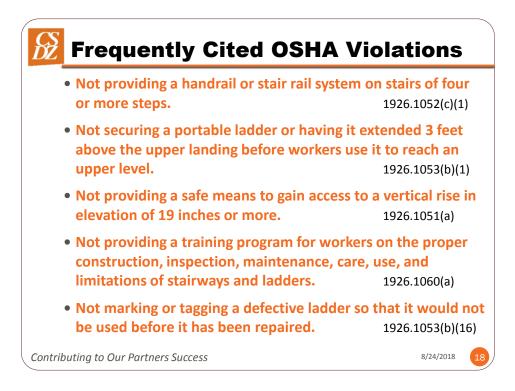


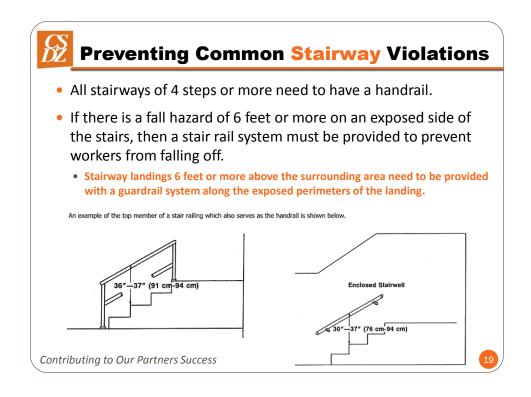


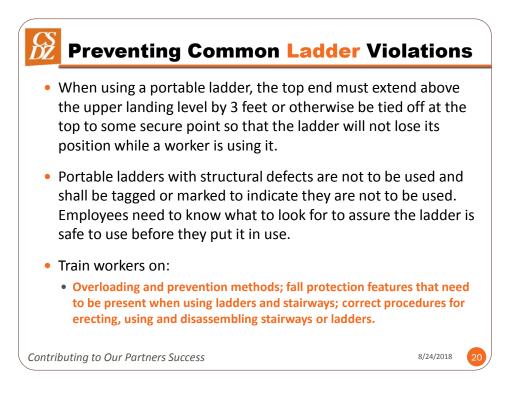


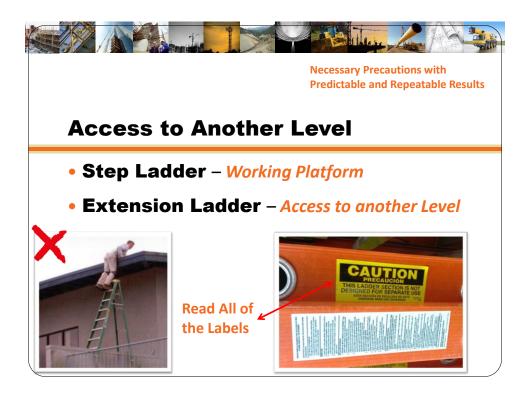
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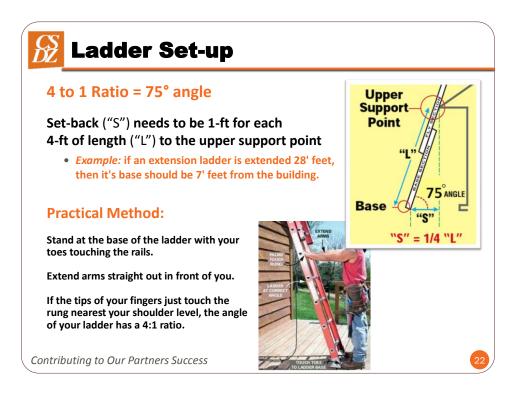


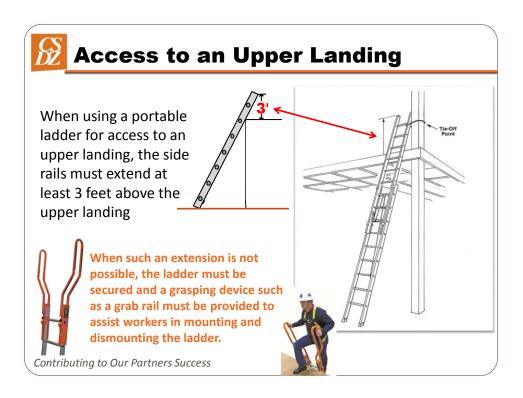


















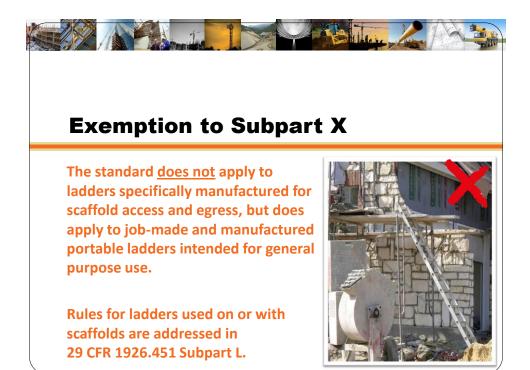
Use a double-cleated ladder *(with center rail)* or 2 or more ladders:

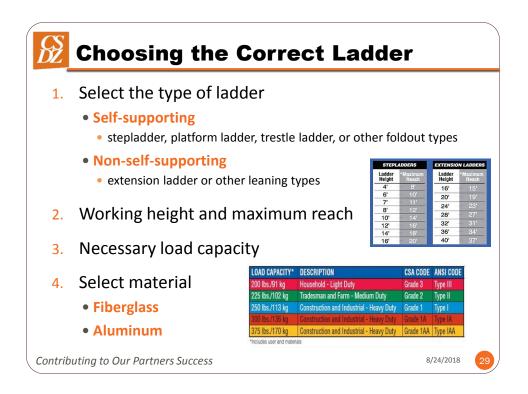
- When ladders are the only way to enter or exit a working area with
 25 or more employees
- When a ladder will serve simultaneous two-way traffic



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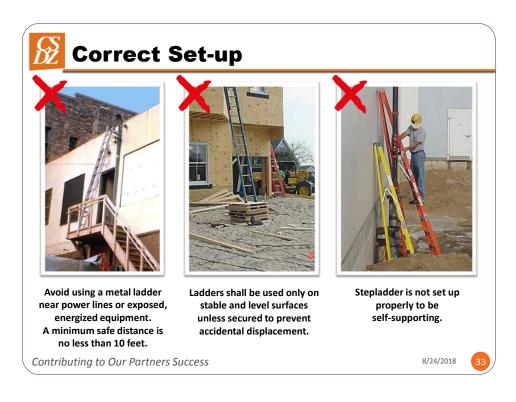


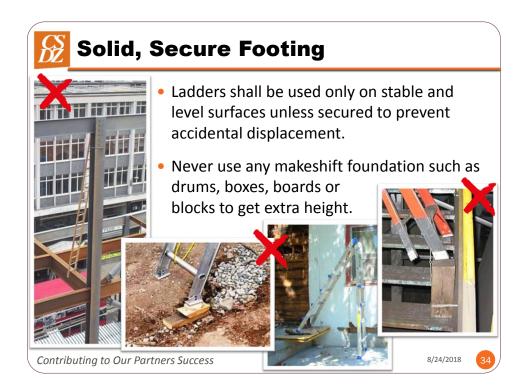








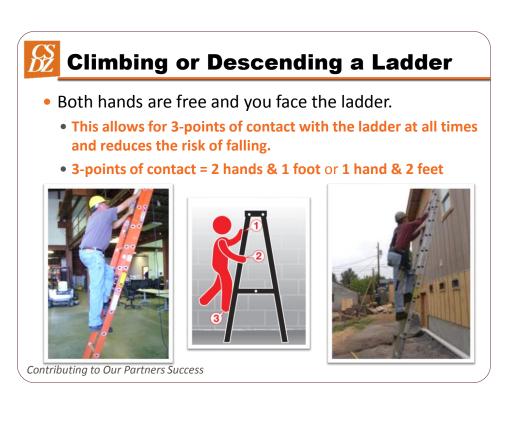


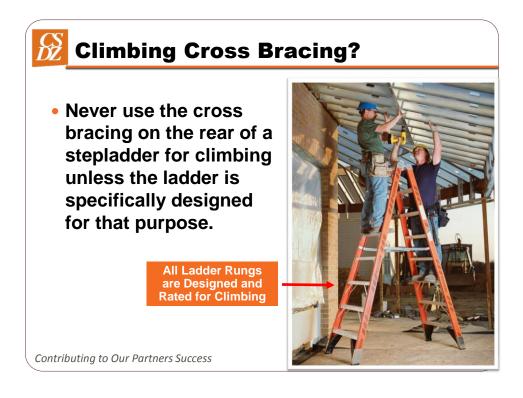


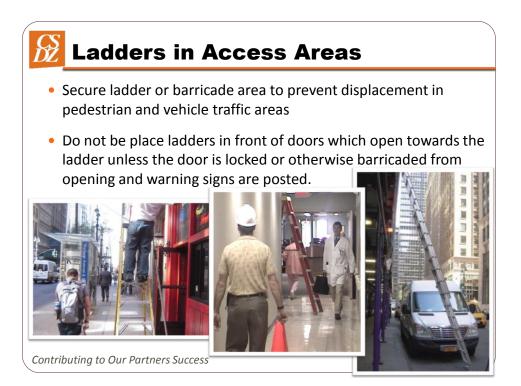




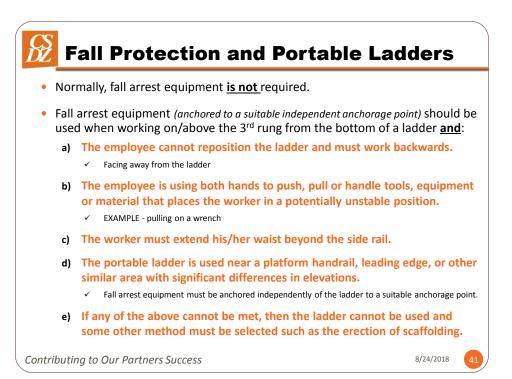
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😥 Misuse and Abuse



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Ladder designed for two people who follow directions. You can not stand on the first rung from the top

Only use step ladders when fully opened with spreader bars locked.



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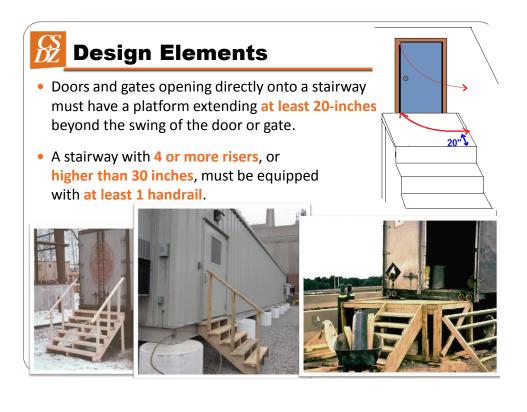


Stairways Used During Construction The following requirements apply to all stairways that <u>will not</u> be a permanent part of the building under construction: Landings must be at least 30 inches deep and 22 inches wide at every 12 feet or less of vertical rise. Installed at least 30° but no more than 50° from the horizontal. Variations in riser height or stair tread depth must not exceed 1/4 inch in any stairway system.

 Includes any Foundation Structure Used as One or More Treads of the Stairs.

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No more than 1/4 inch variation in any stairway system



Temporary Stairs



- Except during construction of the stairway, do not use stairways with metal pan landings and treads if the treads and/or landings have not been filled in with concrete or other material.
- Do not use skeleton metal frame structures and steps (where treads/landings will be installed later) unless the stairs are fitted with secured temporary treads and landings.

 Temporary treads must be made of wood or other solid material and installed the full width and depth of the stair.

• All treads and landings must be replaced when worn below the top edge of the pan.

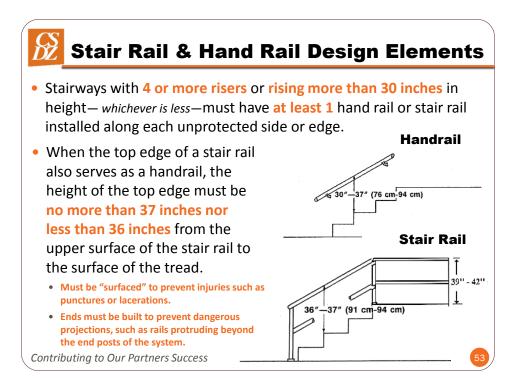
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Stair Rail and Hand Rail Requirements





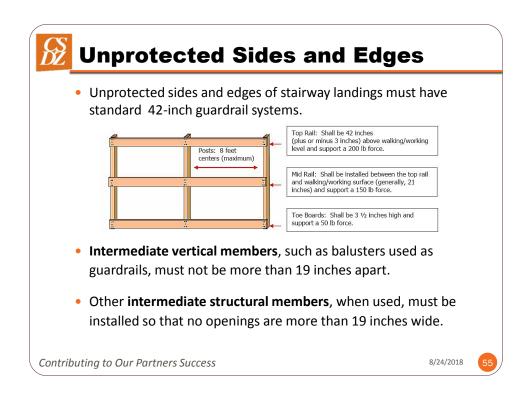
Midrails and Stair Rail Systems

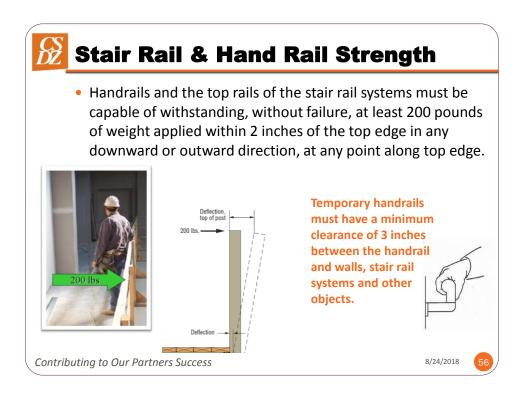
- Midrails, screens, mesh, intermediate vertical members or equivalent intermediate structural members must be provided between the top rail and stairway steps to the stair rail system.
- When midrails are used, they must be located midway btw. the top of the stair rail system and the stairway steps.



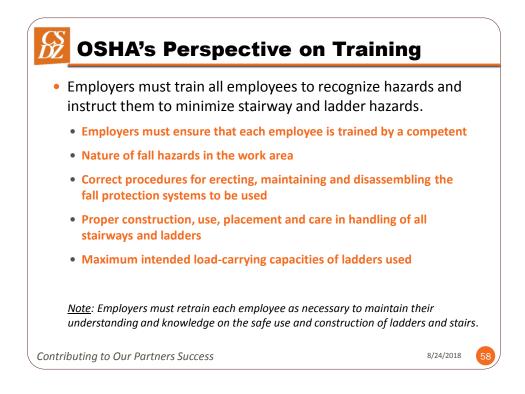
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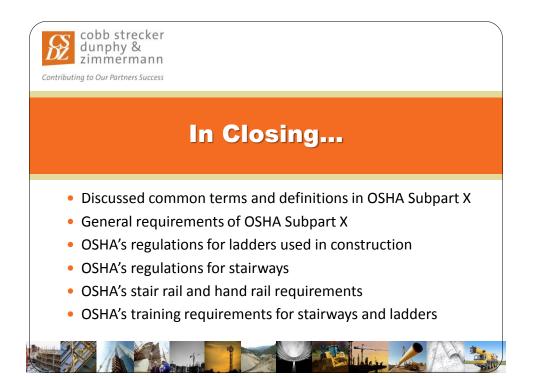
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