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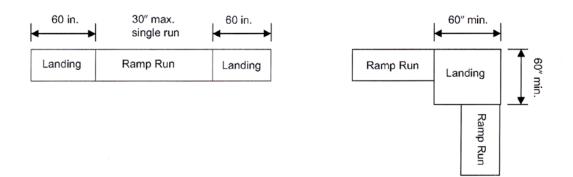
Reference: ICC/ANSI A117.1 2003

The following information provides specifications and requirements for the building of a ramp to be used by handicapped persons. This is for reference only.

RAMPS

Ramp: A walking surface that has a running slope steeper than 1 unit vertical in 20 units horizontal (5% slope).

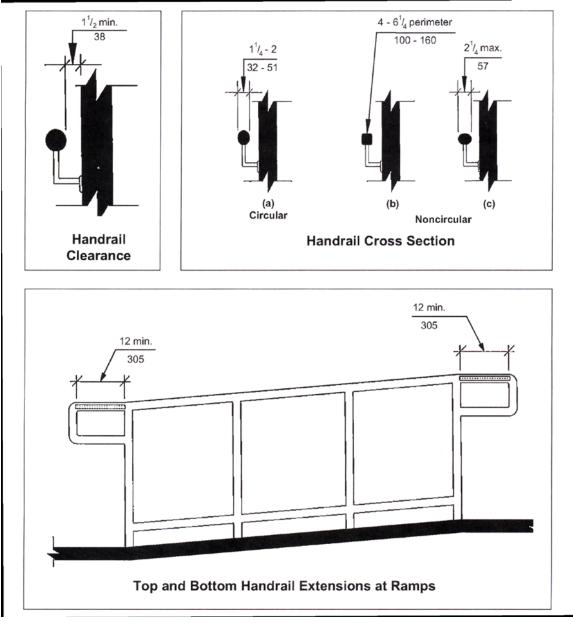
- **1. Ramps** should have a slope not greater than 1:12 ratio with a maximum rise of 30 inches for a single run, after which there should be a landing. In existing buildings, ramps shall be permitted to have slopes steeper than 1:12 where space is limited and shall comply with the 2021 International Building Code.
- 2. Cross Slope of ramp runs shall not exceed 1:48.
- 3. Ramp surfaces shall be stable, firm and slip resistant.
- 4. Clear width shall be 36 inches minimum between handrails.
- 5. Maximum rise shall be 30 inches in a single run before a landing is required.
- 6. Landings shall be at the top and the bottom of each ramp run.
 - Width. Clear width of the landing shall be at least as wide as the widest ramp run leading to the landing.
 - Length. Landing shall have a clear length of 60 inches.
 - **Change in direction.** When changing direction, ramp landings shall be 60 inches by 60 inches minimum.
 - **Doorways.** Where a landing has a doorway, there should be enough space on the landing to accommodate a wheelchair after the door is opened.





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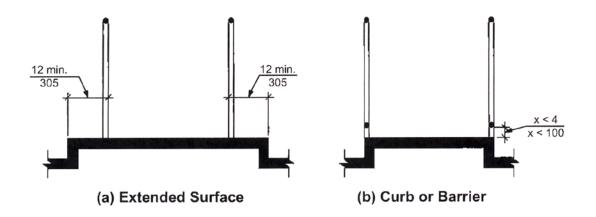
- 7. Handrails. A ramp with a rise greater than 6 inches shall have handrails on both sides.
 - **Continuity.** Handrails shall be continuous within the full length of the ramp run. Inside handrails on switchback ramps shall be continuous between runs.
 - **Height.** The top of the gripping surface shall be 34 inches minimum and 38 inches maximum.
 - Extensions. Handrail extensions shall extend horizontally 12 inches minimum beyond the top and bottom of the ramp.





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8. Edge protection. Edge protection shall comply with either (a) or (b) as shown below.



- 9. Guards. Ramps that are over 30 inches from grade shall also have guards installed.
 - Height. The guard height shall not be less than 42 inches in height.
 - **Openings.** Balusters shall be such that a 4 inch sphere cannot pass through any opening up to a height of 34 inches. From the height of 34 inches to 42 inches above the walking surface, a sphere of 8 inches in diameter shall not pass. Handrails are still required inside the guards.