

## Community Development Department

Engineering Division  
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Planning Division  
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CITY of NAPA

### RAMPS

**General.** Any path of travel shall be considered a ramp if its slope is greater than 1:20 feet (5 percent) of horizontal run. The least possible slope shall be used for any ramp.

**Width.** The width of ramps shall be as required for stairways and exits.

**Primary Entrance and Special Occupancy.** Pedestrian ramps serving primary entrances to buildings having an occupant load of 300 or more shall have a minimum clear width of 60 inches. All other pedestrian ramps shall have a minimum width of 48 inches.

**EXCEPTION:**

Ramps serving Group R Occupancies may be 36 inches clear width when the occupant load is 50 or less.

**Slope.** The maximum slope of a ramp that serves any exit-way, provides handicap access, or is in the path of travel shall be 1:12 (8.33 percent) of horizontal run.

**Cross Slope.** The cross slope of ramp surfaces shall not be greater than 1:50.

**Location of Landings.** Landings shall be provided at the top and bottom of each ramp. Intermediate landings shall be provided at intervals not exceeding 30 inches of vertical rise and at each change of direction. Landings are not considered in determining the maximum horizontal distance of each ramp.

**Size of Top Landings.** Top landings shall be not less than 60 inches wide and shall have a length of not less than 60 inches in the direction of ramp run.

**Encroachment of Doors.** Doors in any position shall not reduce the minimum dimension of the ramp landing to less than 42 inches and shall not reduce the required width by more than 3 inches when fully open.

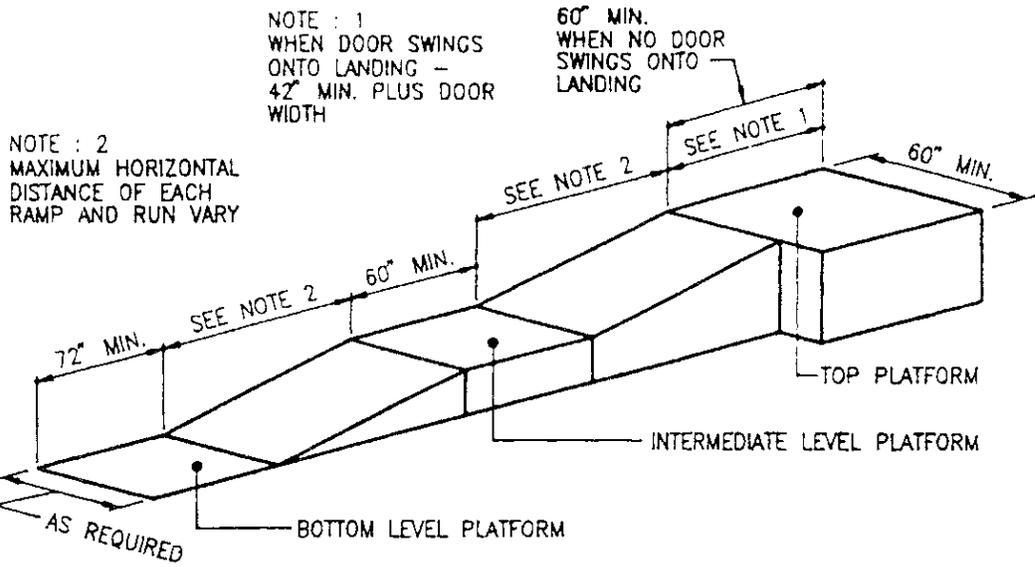
**Strike Edge Extension.** The width of the landing shall extend 24 inches past the strike edge of any door or gate for exterior ramps and 18 inches past the strike edge for interior ramps.

**Landing Width.** At bottom and intermediate landings, the width shall be at least the same as required for the ramp.

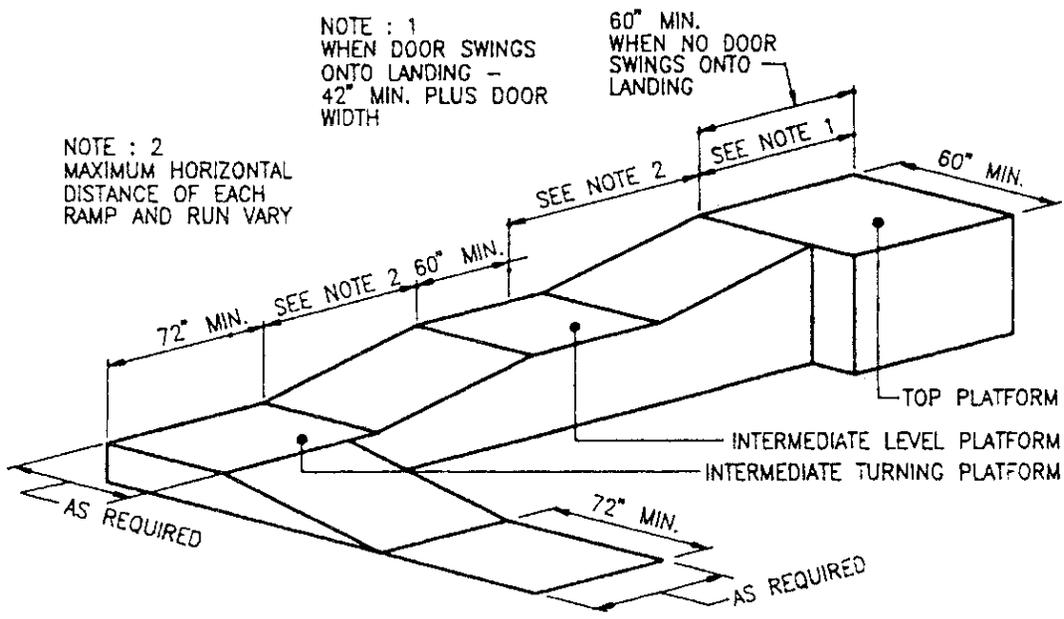
**Change of Direction.** Intermediate and bottom landings at a change of direction in excess of 30 degrees shall have a dimension in the direction of ramp run of not less than 72 inches.

**Other Intermediate Landings.** Other intermediate landings shall have a dimension in the direction of ramp run of not less than 60 inches.

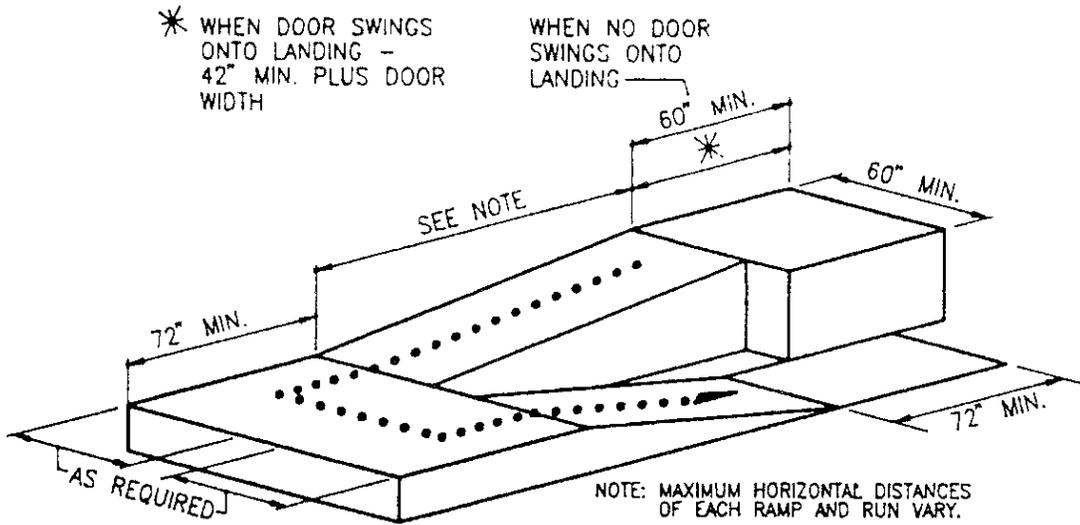
Examples of Ramp Dimensions		
Slope	Maximum Rise (inches)	Maximum Horizontal Projection (feet)
1:12	30	30
1:15	30	37.5
1:16	30	40
1:20	30	50



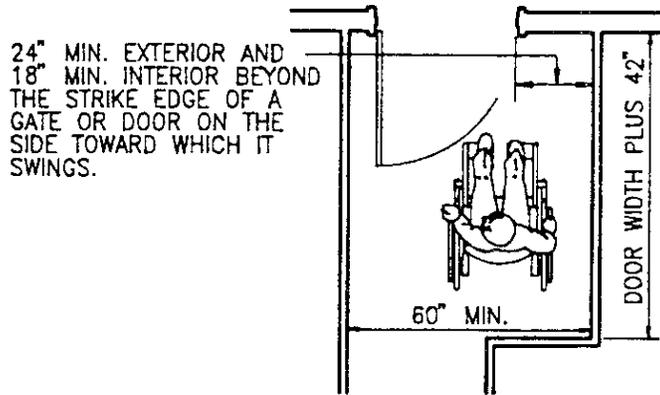
STRAIGHT RAMP RUN



RAMP WITH TURNING PLATFORM



RAMP WITH INTERMEDIATE SWITCH-BACK PLATFORM



RAMP LANDING AT DOORWAY

## Ramp Handrail and Wheel Guides

**General.** Handrails are required on ramps that provide access if the slope exceeds 1:20 (5 percent) of horizontal run. Handrails shall be placed on each side of each ramp. .

### EXCEPTIONS:

1. Handrails at ramps immediately adjacent to fixed seating in assembly areas are not required.
2. Ramps that require handrails and that serve one individual dwelling unit in Group R, Division 1 or 3 Occupancies may have one handrail except that such ramps open on one or both sides shall have handrails provided on the open side or sides.
3. Curb ramps do not require handrails.
4. In Group I, Division 1 Occupancies, all ramps shall be provide with handrails.

**Handrails and Guardrails.** Ramps more than 30 inches above the adjacent ground or floor shall be provided with guardrails as required in Section 1711 .

Such guardrails shall be continuous from the top or the ramp to the bottom of the ramp.

**Handrail Placement.** Handrails shall be continuous the full length of the ramp and shall extend a minimum of 1 foot beyond the top and bottom of the ramp and the ends shall be returned.

**Handrail Height.** Handrails shall be placed 34 to 38 inches above the ramp surface.

