



RAMP REQUIREMENTS

Community Development Department
Building Division
1600 First St. PO Box 650
Napa, CA 94559-0660
707-257-9540

CITY OF NAPA

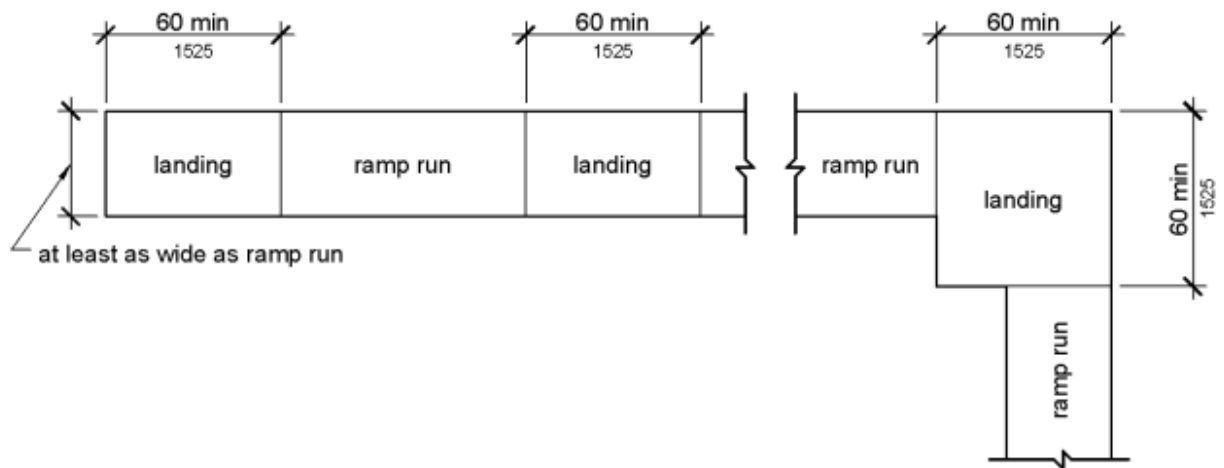
RAMP REQUIREMENTS (based on 2016 CBC 11B-405)

RAMP

- Slope: not steeper than 1:12 (8.33%)
- Cross slope: not steeper than 1:48 (2%)
- Floor or ground surface: stable, firm, slip-resistant
- Clear width: ramp run clear width not less than 48 inches
 - Handrails may project into clear width 3-1/2 inches at each side at handrail height
 - Clear width may be 36 inches between handrails in residential uses serving an occupant load of 50 or less
- Rise: 30 inches max for any ramp run
- Edge Protection: required on each side of ramp run and at each side of ramp landings
- Curb or barrier: to prevent wheel entrapment, a 2-inch min curb is required anywhere that a 4-inch sphere could pass through in the first 4 inches from the ground
- Handrails: must be provided on both sides of ramps if rise is greater than 6 inches

LANDINGS

- Required at the top and bottom of each ramp run
- Clear width: at least as wide as the widest ramp run leading to the landing
- Top landing: 60 inches wide min
- Clear length: 60 inches long min
- Bottom landing: 72 inches min in the direction of the ramp run
- Changes in direction: clear landing 60 inches by 72 inches in the direction of downward travel from the upper ramp run
- Doorways: maneuvering clearances are permitted to overlap with landing area
- Doors – fully open: must not reduce required ramp landing width by more than 3 inches
- Doors – any position: must not reduce the minimum dimension of the ramp landing to less than 42 inches



HANDRAILS

- Must be continuous the full length of each ramp run
- Height: 34" min to 38" max measured from the walking surface
- Clearance: 1-1/2 inches min between gripping surface and adjacent surfaces
- Surfaces: must be free of sharp or abrasive elements and must have rounded edges
- Handrails must not rotate within their fittings
- Handrails must extend horizontally above the landing for 12 inches minimum
- Handrails not required on ramp runs less than 6 inches in rise or 72 inches in length

EDGE PROTECTION

- Edge protection required on each side of ramp runs and at each side of ramp landings
- Edge protection is not required for the following:
 - ramps where handrails are not required
 - ramp landings serving adjoining ramp or stairs
 - ramp landings with a vertical drop of 1/2" max within 10 inches horizontally
- Curb or barrier must be 2 inches high or prevent the passage of a 4 inch sphere