

FAIR HOUSING ACT (1998) & ANSI 117.1 2009
ACCESSIBLE SPECIFICATIONS (ALL ACCESSIBLE UNITS)

GENERAL SITE AND BUILDING ELEMENTS CONTINUED

502 Parking Spaces
502.1 General. Accessible car and van parking spaces shall comply with Section 502.
502.2 Vehicle Space Size. Car parking spaces shall be 96 inches (2443 mm) minimum in width. Van parking spaces shall be 132 inches (3350 mm) minimum in width.
EXCEPTION: Van parking spaces shall be permitted to be 96 inches (2440 mm) minimum in width where the adjacent access aisle is 96 inches (2440 mm) minimum in width.

PARKING SPACES

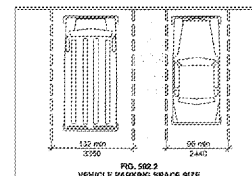


FIG. 502.2 VEHICLE PARKING SPACE SIZE
PARKING SPACE DIAGRAM

503 Passenger Loading Zones
503.1 General. Accessible passenger loading zones shall comply with Section 503.
503.2 Vehicle Pull-up Space Size. Passenger loading zones shall provide a vehicular pull-up space 96 inches (2440 mm) minimum in width and 20 feet (6095 mm) minimum in length.
PASSENGER LOADING ZONE



PASSENGER LOADING ZONE ACCESS AISLE

504 Stairways
504.1 General. Accessible stairs shall comply with Section 504.
504.2 Ramps and Risers. All steps on flight of stairs shall have uniform riser height and uniform tread depth. Riser height shall be 4 inches (102 mm) minimum and 7 inches (178 mm) maximum in height. Treads shall be 11 inches (280 mm) minimum in depth.

STAIRWAYS

504.3 Open Risers. Open risers shall not be permitted.
STAIR RISERS

504.4 Tread Surface. Stair treads shall comply with Section 302 and shall have a slope not steeper than 1:48.
STAIR TREADS

504.5 Nosings. The radius of curvature at the leading edge of the tread shall be 1/4 inch (13 mm) maximum. Nosings that project beyond treads shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall be 1 1/2 inches (38 mm) maximum over the tread or floor below.
504.5.1 Visual Contrast. The leading 2 inches (51 mm) of the tread shall have visual contrast of dark-on-light or light-on-dark from the remainder of the tread.
STAIR NOSINGS

504.6 Gripping Surfaces. Gripping surfaces shall be continuous, without interruption by newel posts, other construction elements, or obstructions.
EXCEPTIONS:
1. Handrail brackets or balusters attached to the bottom surface of the handrail shall not be considered obstructions, provided the brackets or balusters comply with the following criteria:
a. Not more than 20 percent of the handrail length is obstructed.
b. Horizontal projections beyond the sides of the handrail occur 1 1/2 inches (38 mm) minimum below the bottom of the handrail, and provided that for each 1/2 inch (13 mm) of additional handrail perimeter dimension above 4 inches (100 mm), the vertical clearance dimension of 1 1/2 inch (38 mm) can be reduced by 1/4 inch (6 mm), and
c. Edges shall be rounded.
2. Where handrails are provided along walking surfaces with slopes not steeper than 1:20, the bottoms of handrail gripping surfaces shall be permitted to be obstructed along their entire length where they are integral to crash rails or bumper guards.
HANDRAIL GRIPPING SURFACE

505.7 Cross Section. Handrails shall have a cross section complying with Section 505.7.1 or 505.7.2.
505.7.1 Circular Cross Section. Handrails with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.
505.7.2 Noncircular Cross Sections. Handrails with a noncircular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum.
HANDRAIL CROSS SECTION

505.8 Handrail Extensions. Handrails shall extend beyond and in the same direction of stair flights and ramp runs in accordance with Section 505.10.
EXCEPTIONS:
1. Continuous handrails at the inside turn of stairs and ramps.
2. Handrail extensions are not required in aisles serving seating where the handrails are discontinuous to provide access to seating and to permit crossovers within the aisle.
3. In alterations, full extensions of handrails shall not be required where such extensions would be hazardous due to plan configuration.
HANDRAIL EXTENSIONS



FIGURE 505.7 HANDRAIL CROSS SECTION

502.3 Vehicle Space Marking. Car and van parking spaces shall be marked to define the width. Where parking spaces are marked with lines, the width measurements of parking spaces and adjacent access aisles shall be made from the centerline of the markings.
EXCEPTION: Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.
VEHICLE SPACE MARKING

VEHICLE SPACE MARKING

502.4 Access Aisle. Car and van parking spaces shall have an adjacent access aisle complying with Section 502.4.
502.4.1 Location. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle. Access aisles shall not overlap with the vehicular way. Parking spaces shall be permitted to have access aisles placed on either side of the car or van parking space. Van parking spaces that are angled shall have access aisles located on the passenger side of the parking space.
502.4.2 Width. Access aisles serving car and van parking spaces shall be 60 inches (1525 mm) minimum in width.
502.4.3 Length. Access aisles shall extend the full length of the parking spaces they serve.
502.4.4 Marking. Access aisles shall be marked as to discourage parking of the vehicle.
ACCESS AISLE

503.3 Access Aisle. Passenger loading zones shall have an adjacent access aisle complying with Section 503.3.
503.3.1 Location. Access aisles shall adjoin an accessible route. Access aisles shall not overlap the vehicular way.
503.3.2 Width. Access aisles serving vehicle pull-up spaces shall be 60 inches (1525 mm) minimum in width.
503.3.3 Length. Access aisles shall be 20 feet (6095 mm) minimum in length.
503.3.4 Marking. Access aisles shall be marked so as to discourage parking of the vehicle.
PASSENGER LOADING ZONE ACCESS AISLE

504.8 Lighting. Lighting for interior stairways shall comply with Section 504.8.
504.8.1 Illumination Level. Lighting facilities shall be capable of providing 10 foot-candles (108 lux) of illuminance measured at the center of tread surfaces and on landing surfaces within 24 inches (610 mm) of step nosings.
504.8.2 Lighting Controls. If provided, occupancy-sensing automatic controls shall activate the stairway lighting so the illuminance level required by Section 504.8.1 is provided on the entrance landing, each stair flight adjacent to the entrance landing, and on the landings above and below the entrance landing prior to any step being used.
STAIRWAY ILLUMINATION



STAIRWAY ILLUMINATION

504.9 Handrails. Handrails required by Section 405.6 for ramps, or Section 504.6 for stairs, shall comply with Section 505.
504.9.1 General. Handrails required by Section 405.6 for ramps, or Section 504.6 for stairs, shall comply with Section 505.
504.9.2 Location. Handrails shall be provided on both sides of stairs and ramps.
EXCEPTIONS:
1. In assembly seating areas, handrails shall not be required on both sides along aisle stairs, provided with a handrail either at the side or within the aisle.
2. In assembly seating areas, handrails shall not be required on the sides of ramped aisles serving seats.
HANDRAIL LOCATION

505.3 Continuity. Handrails shall be continuous within the full length of each stair flight or ramp run, inside handrails on switchbacks or dogleg stairs or ramps shall be continuous between flights or runs. Other handrails shall comply with Sections 505.10 and 507.
EXCEPTION: Handrails shall not be required to be continuous in aisles serving seating where handrails are discontinuous to provide access to seating and to permit crossovers within the aisles.
HANDRAIL CONTINUITY

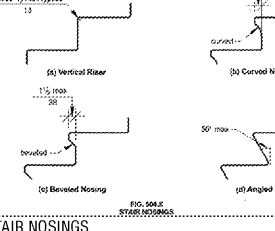


FIG. 504.9 HANDRAIL LOCATION

505.10.1 Top and Bottom Extension at Ramps. Ramp handrails shall extend horizontally above the landing 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or floor, or shall be continuous to the handrail of an adjacent ramp run.
505.10.2 Top Extension at Stairs. At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the landing nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.
HANDRAIL TOP EXTENSION



FIG. 505.10.2 TOP HANDRAIL EXTENSIONS AT STAIRS

505.10.3 Bottom Extension at Stairs. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance equal to one tread depth beyond the bottom tread nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.
HANDRAIL BOTTOM EXTENSION

FIG. 505.10.3 BOTTOM HANDRAIL EXTENSIONS AT STAIRS

502.5 Floor Surfaces. Parking spaces and access aisles shall comply with Section 302 and have surface slopes not steeper than 1:48. Access aisles shall be at the same level as the parking spaces they serve.
PARKING SPACE FLOOR SURFACE

502.6 Vertical Clearance. A vertical clearance of 68 inches (1730 mm) minimum shall be provided at the following locations:
1. Parking spaces for vans.
2. The access aisles serving parking spaces for vans.
3. The vehicular routes serving parking spaces for vans.
PARKING SPACE VERTICAL CLEARANCE

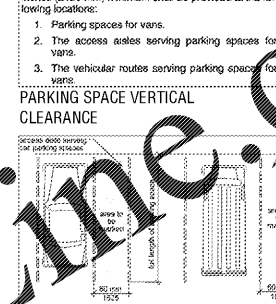


FIG. 502.6 PARKING SPACE VERTICAL CLEARANCE

503.5 Vertical Clearance. A vertical clearance of 114 inches (2895 mm) minimum shall be provided at the following locations:
1. Vehicle pull-up spaces.
2. The access aisles serving vehicle pull-up spaces.
3. A vehicular route from an entrance to the passenger loading zone, and
4. A vehicular route from the passenger loading zone to a vehicular exit serving vehicle pull-up spaces.
PASSENGER LOADING ZONE VERTICAL CLEARANCE

505.4 Handrails. Handrails required by Section 405.6 for ramps, or Section 504.6 for stairs, shall comply with Section 505.
505.4.1 General. Handrails required by Section 405.6 for ramps, or Section 504.6 for stairs, shall comply with Section 505.
505.4.2 Location. Handrails shall be provided on both sides of stairs and ramps.
EXCEPTIONS:
1. In assembly seating areas, handrails shall not be required on both sides along aisle stairs, provided with a handrail either at the side or within the aisle.
2. In assembly seating areas, handrails shall not be required on the sides of ramped aisles serving seats.
HANDRAIL LOCATION

505.5 Continuity. Handrails shall be continuous within the full length of each stair flight or ramp run, inside handrails on switchbacks or dogleg stairs or ramps shall be continuous between flights or runs. Other handrails shall comply with Sections 505.10 and 507.
EXCEPTION: Handrails shall not be required to be continuous in aisles serving seating where handrails are discontinuous to provide access to seating and to permit crossovers within the aisles.
HANDRAIL CONTINUITY



FIG. 504.9 HANDRAIL LOCATION

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HANDRAIL TOP EXTENSION



FIG. 505.10.2 TOP HANDRAIL EXTENSIONS AT STAIRS

505.10.3 Bottom Extension at Stairs. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance equal to one tread depth beyond the bottom tread nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.
HANDRAIL BOTTOM EXTENSION

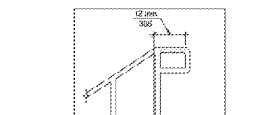


FIG. 505.10.3 BOTTOM HANDRAIL EXTENSIONS AT STAIRS

507 Identification. Where accessible parking spaces are required to be identified by signs, the signs shall include the International Symbol of Accessibility complying with Section 703.5.1.1. Signs identifying van parking spaces shall contain the designation "van accessible." Such signs shall be 60 inches (1525 mm) minimum above the top of the parking space, measured to the bottom of the sign.
PARKING SPACE IDENTIFICATION

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FIG. 507.0 PARKING SPACE IDENTIFICATION

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HANDRAIL CONTINUITY

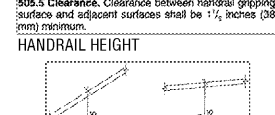


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HANDRAIL TOP EXTENSION

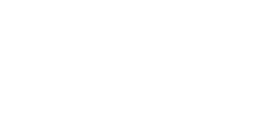


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HANDRAIL BOTTOM EXTENSION

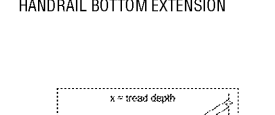


FIG. 505.10.3 BOTTOM HANDRAIL EXTENSIONS AT STAIRS

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