

Section 505 Handrails

505.1 General.

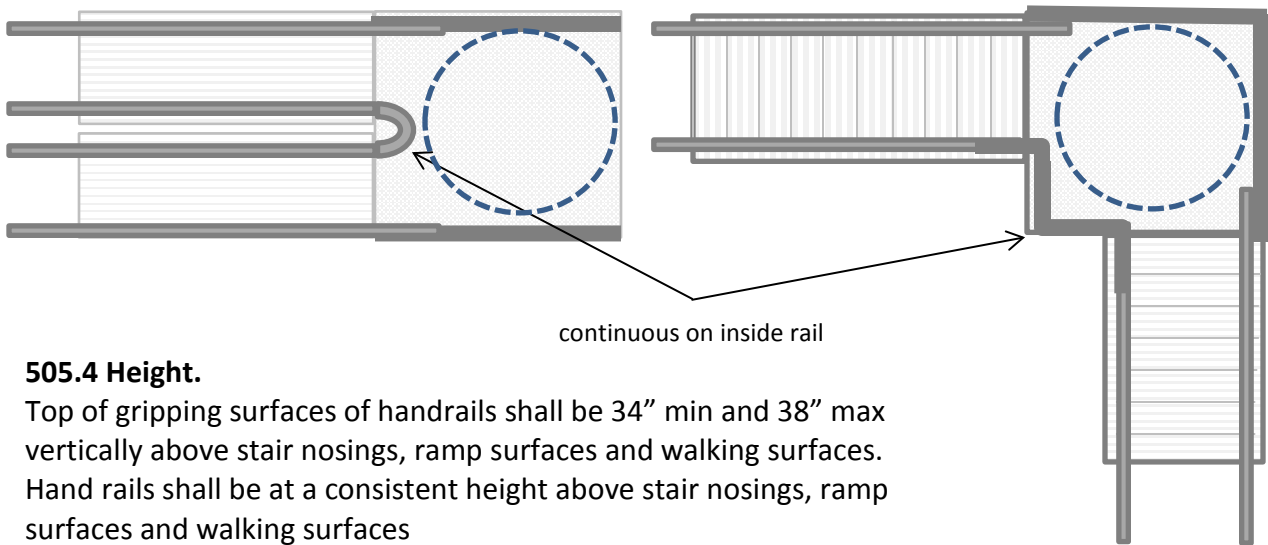
Handrails required by Section 405.8 for ramps or Section 504.6 for stairs, shall comply with Section 505

505.2 Location.

Handrails shall be provided on both sides of stairs and ramps

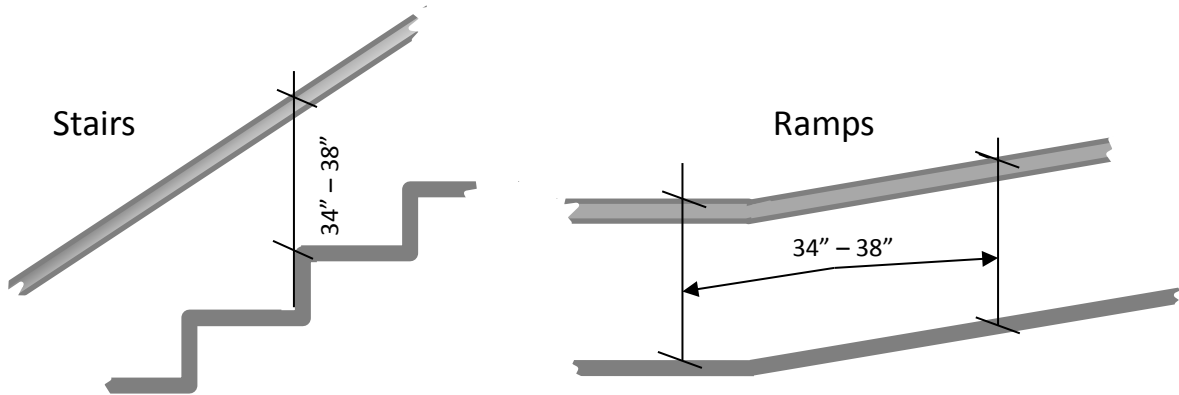
505.3 Continuity.

Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs or ramps shall be continuous between flights or runs. (see 405.5 and 405.7.4 for clear width and for landing dimensions)



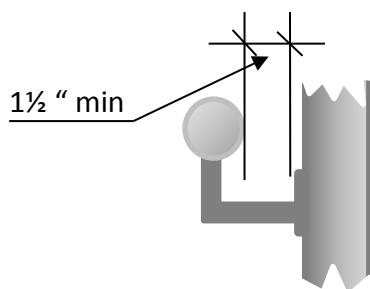
505.4 Height.

Top of gripping surfaces of handrails shall be 34" min and 38" max vertically above stair nosings, ramp surfaces and walking surfaces. Hand rails shall be at a consistent height above stair nosings, ramp surfaces and walking surfaces



505.5 Clearance.

Clearance between Handrail gripping surface and adjacent surfaces shall be 1½" minimum.



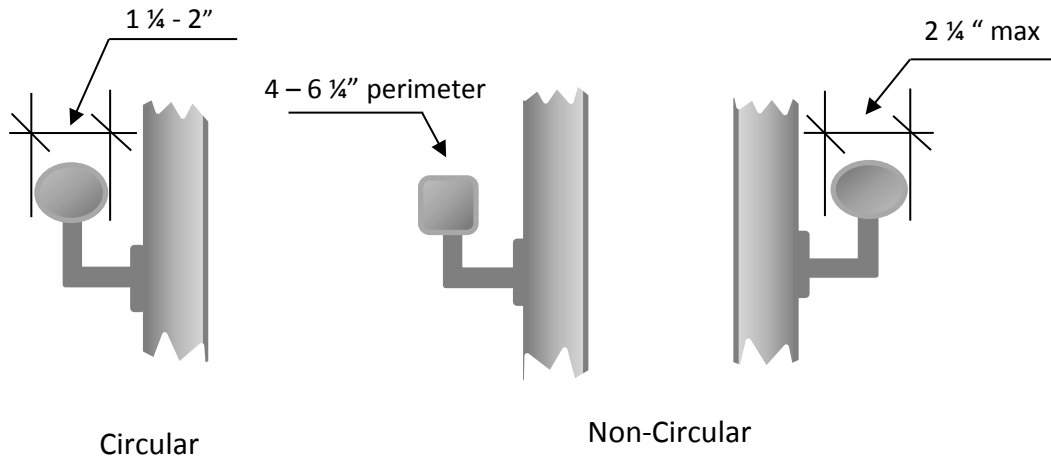
505.6 Gripping Surface.

Gripping surfaces shall be continuous, without interruption by newel posts, other construction elements or obstructions.

505.7 Cross Section.

505.7.1 Circular Cross Section. Outside diameter of 1 ¼ min and 2" max

505.7.2 Non-Circular Cross Section Perimeter dimension of 4" min and 6 ¼" max with a cross section dimension of 2 ¼" max



505.9 Fittings.

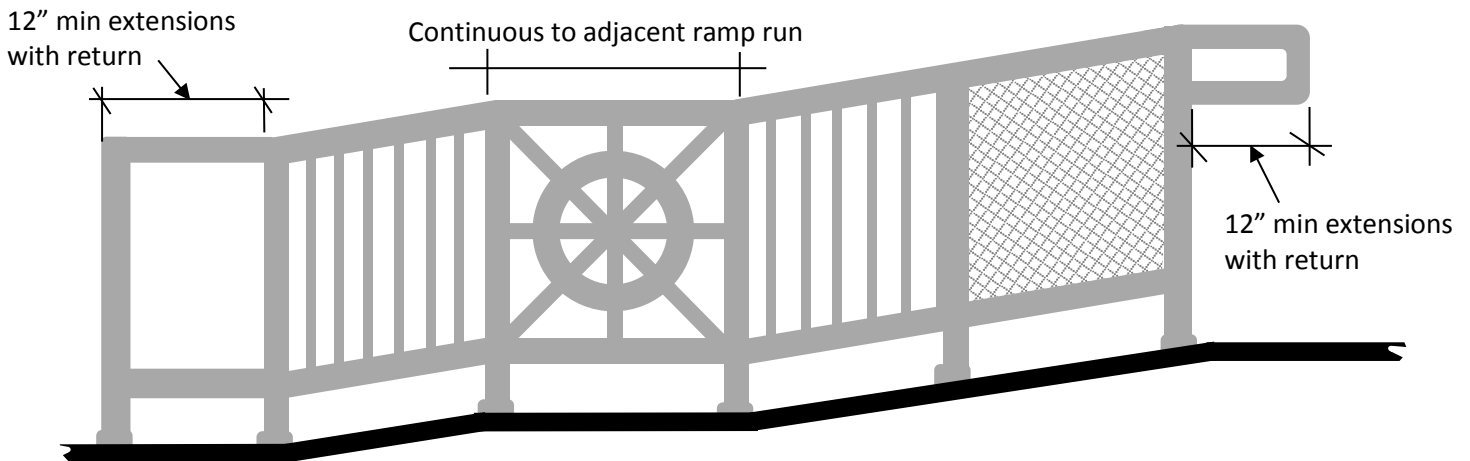
Handrails shall not rotate within their fittings

505.10 Handrail Extensions.

Handrails shall extend beyond and in the same direction of stair flights and ramp runs in accordance with Section 505.10

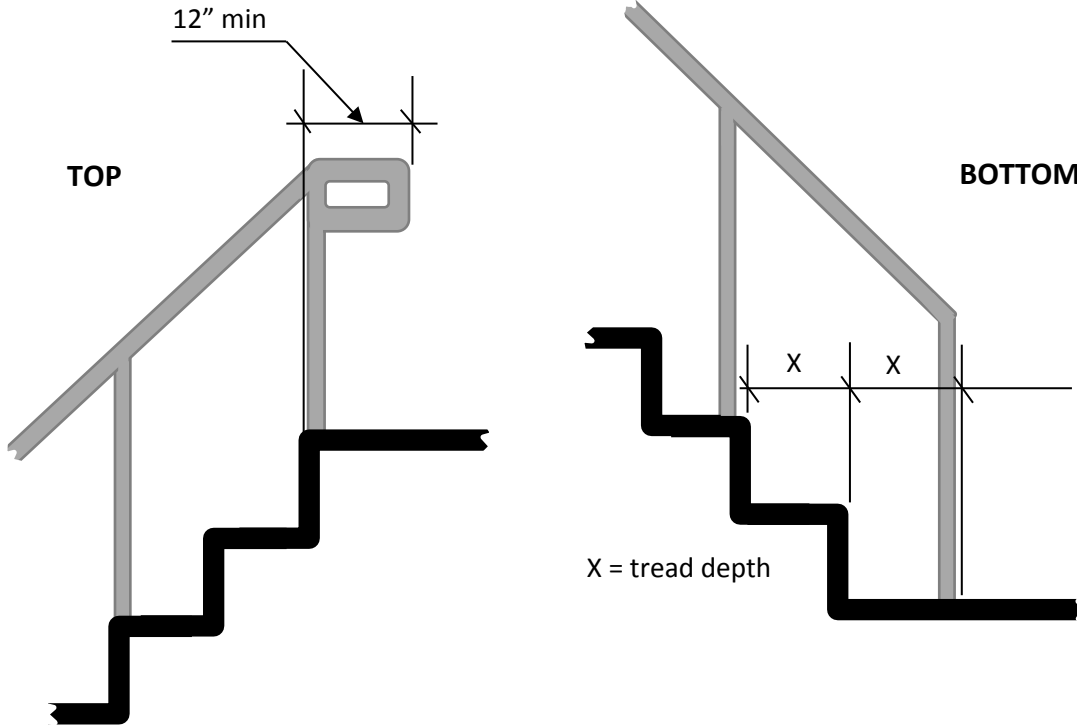
505.10.1 Top and Bottom Extension at Ramps

Ramp handrails shall extend horizontally above the landing 12 inches minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard or floor or shall be continuous to the the handrail of an adjacent ramp run



505.10.2 Top Extention at Stairs.

At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches minimum beginning directly above the stair nosing. Extensions shall return to a wall, guard or the landing surface or shall be continuous to the handrail of an adjacent stair flight.



505.10.3 Bottom Extention 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 of the 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.

NOTE: For Guarding and Edge Protection requirements see Section 405 handout