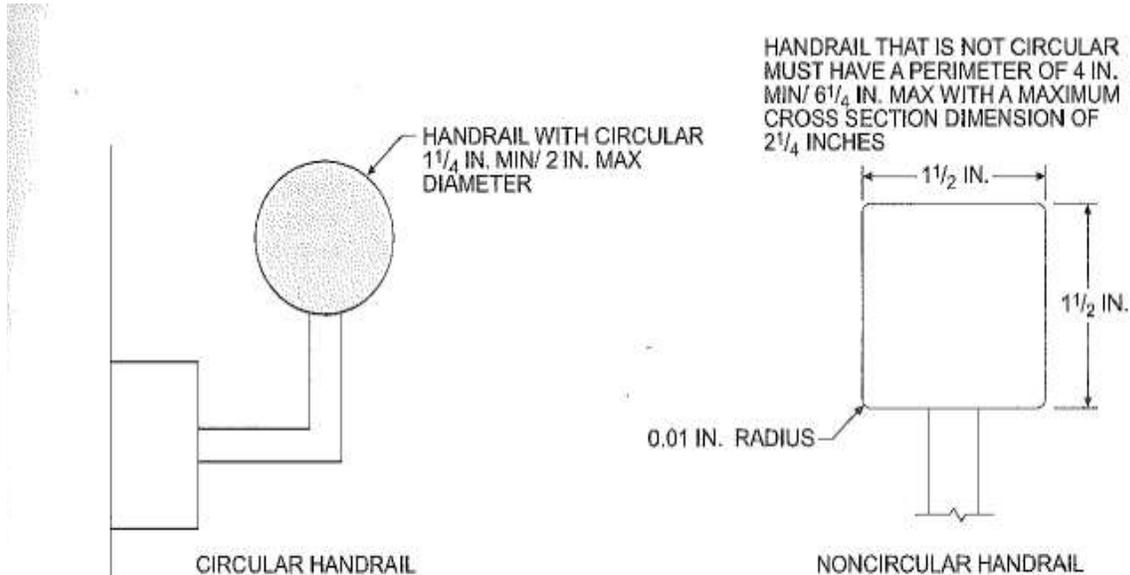


TYPE I & II HANDRAILS

2019 CALIFORNIA RESIDENTIAL CODE R311.7.8.5

TYPE I HANDRAILS

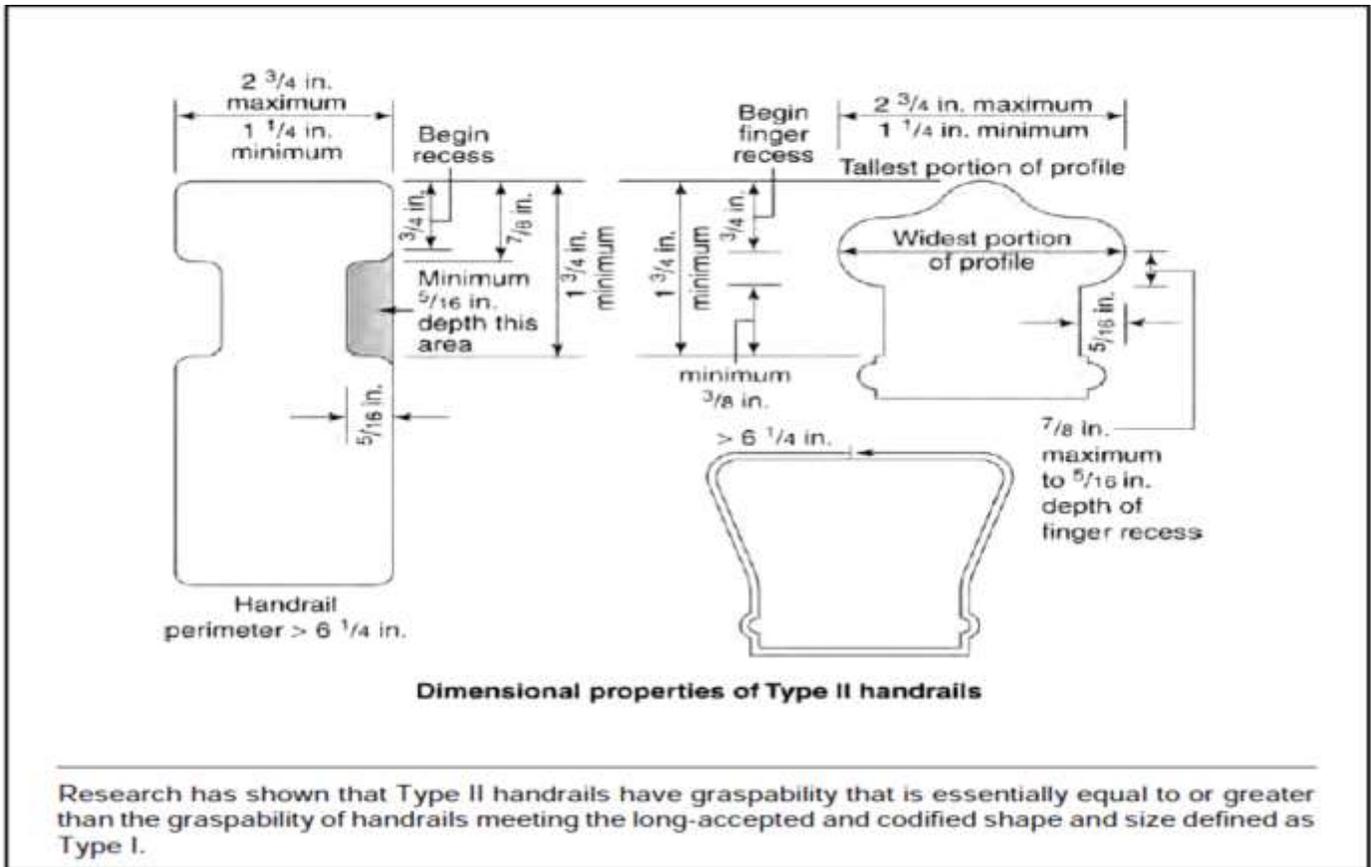


For SI: 1 inch = 25.4 mm.

Figure R311.7.8.3(1)
TYPE I HANDRAIL

Type I: Handrails with a circular cross section shall have an outside diameter of at least 1 ¼ inches (32 mm.) and not greater than 2 inches (51 mm). If the handrail is not circular, it shall have a perimeter dimension of at least 4 inches (102 mm) and not greater than 6 ¼ inches (160 mm) with a maximum cross section of dimension of 2 ¼ inches (57mm). Edges shall have a minimum radius of 0.01 inch (0.25 mm).

TYPE II HANDRAILS



Type II: Handrails with a perimeter greater than 6 ½ inches (160 mm) shall have a graspable finger recess area on both sides of the profile. The finger recess shall begin within ¾ inch (19mm) measured vertically from the tallest portion of the profile and have a depth of at least 5/16 inch (8 mm) within 7/8 inch (22 mm) below the widest portion of the profile. This required depth shall continue for at least 3/8 inch (10 mm) to a level that is not less than 1 ¾ inches (45 mm) below the tallest portion of the profile. The minimum width of the handrail above the recess shall be 1 ¼ inches (32 mm) to a maximum of 2 ¾ inches (70 mm).

Discussion and Commentary: The key features of the graspability of Type II handrails are graspable finger recess on both sides of the handrail. These recesses allow users to firmly grip a properly proportioned grasping surface on the top of the handrail, ensuring that the user can tightly retain a grip on the handrail for all forces that are associated with attempts to arrest a fall.