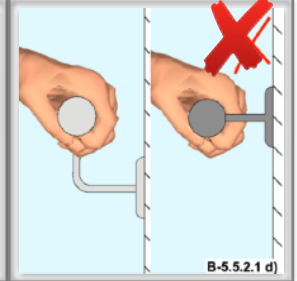
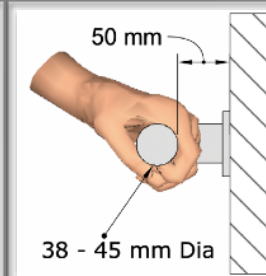
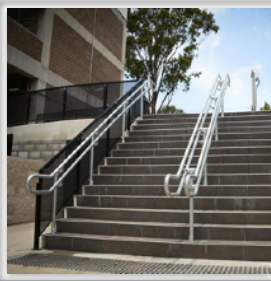


## Handrails on Stairs, Ramps & Walkways



### B-2.2.4 Support and Guidance by a Handrail on Paths

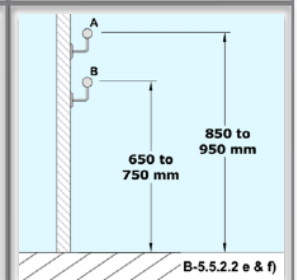
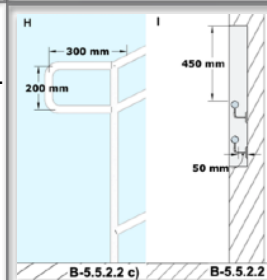
Support and guidance by a handrail shall be provided on stepped paths. A handrail shall be provided on each side of a flight of steps consisting of two or more risers and each riser shall be not more than **150mm high**. A handrail shall be provided on both sides of a channel that can subdivide a flight of steps. For requirements of handrails, reference shall be made to **B-5.5.2**.

#### B-5.5.2.1 Specific Requirements for Handrail

- a) be securely fixed and rigid; the fastenings and the materials shall be able to withstand a minimum point load, both vertical and horizontal of 1.7 kN;
- b) be slip-resistant with round ends;
- c) have a circular section of **38-45 mm** in diameter;
- d) be free of any sharp or abrasive elements; have continuous gripping surfaces, without interruptions or obstructions that may break a hand hold;
- e) contrast with the wall behind; and
- f) may be provided with Braille/tactile markings at the beginning and at the end to give information to people with visual impairment.

#### B-5.5.2.2 For stepped path, stairs and ramps, handrails shall meet the following requirements (see Figs. A to ):

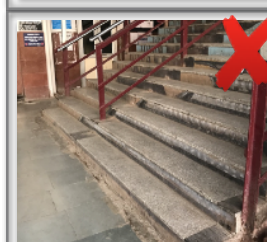
- a) They shall be provided on both the sides (G).
  - b) They shall be continuous, even at the landings; (G)
  - c) They shall extend at least **300mm** beyond the surface (H) of a landing. A second handrail, with a lower profile than the first one, shall be provided.
  - d) They shall have a minimum clear space of **50mm** from the walls. (C)
  - e) The height to the top of a handrail shall be between **850mm and 950mm above the surface** of a ramp, the **pitch line of a stair**, and the surface of a landing. A second handrail, with a lower profile than the first one, shall be provided.(A)
- The height to the top of the second handrail should be **between 650mm and 750mm above the surface** of a ramp, the **pitch line of a stair**, and the surface of a landing. There shall be sufficient distance between the two handrails (**approximately 200mm**).
- f) In case the handrail is enclosed in a recess, the recess shall extend at least **450mm** above the top of the rail.



No Handrail



No Handrail



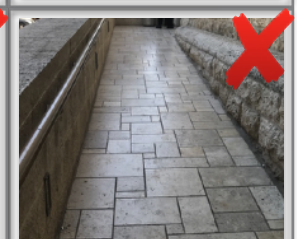
No Handrail Extension



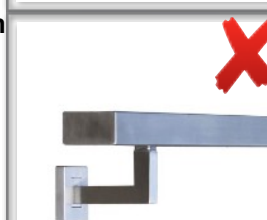
No Handrail Extension



One Side Handrail



One Side Handrail



Square handrail



Handrail too thick

Establishment Name Building Name		Address			
Description		Required	Y/N	Actual	Notes
02. 02. 01	Are there handrails on both side?	Both sides should have handrails			
02. 02. 02	Are there handrails at two heights	Lower 650-750 mm Upper 850-950 mm			
02. 02. 03	Are the grab rails are circular in cross	a) Circular b) Diameter 38-45 mm			
02. 02. 04	Are the handrails strong enough and firmly fixed)?	Will withstand 1.7kN force			
02. 02. 05	Without any sharp edges or obstructions?	a) No sharp edge b) No interruption			
02. 02. 06	The handrails are continuous around landings?	Continuous on landing			
02. 02. 07	The grab rails extend	300 mm extension			
02. 02. 08	Clearance between the handrail and any adjacent object or surface?	50 mm clearance			
02. 02. 09	If there is a handrail in a recess the recess is extended	Recess 450mm above the top rail?			
02. 02. 10	Other				