

# Healthcare Railing Systems

Technical Guide for NABH, PMC & EPC Hospital Programmes — Railings India

Document: RI-HC-TECH-GUIDE-2026 | Sun Corporation India | railingsindia.com

## 1. Scope

This guide supports specification of hospital handrails, glass balustrades and stainless steel railing systems for Indian healthcare facilities — hospitals, medical colleges, diagnostic centres, healthcare campuses and rehabilitation facilities. It aligns to NBC 2016, Harmonised Accessibility Guidelines (HAG) 2016, IS 875 Part 5, IS 4270, IS 16613 and NABH-compatible documentation frameworks.

## 2. Healthcare Zone Load Tiers (IS 875 Part 5)

- Public corridor and waiting area balustrades: 1.5 kN/m horizontal imposed load
- Stair and ramp handrails: 1.5 kN/m lateral load on graspable rail
- Atrium and mezzanine edges: 1.5 kN/m (confirm project-specific structural review)
- Rooftop utility walkways: 1.5 kN/m + 890 N point load where applicable

## 3. Handrail & Accessibility Specification (NBC / HAG)

- Corridor handrail height: 850–900 mm from finished floor (HAG dual-height on accessible ramps: 750 mm + 900 mm)
- Stair handrail: 900 mm from nosing per NBC 2016 Part 4
- Grip profile: 32–50 mm OD circular or oval per HAG; minimum 50 mm wall clearance
- Continuity: uninterrupted runs on accessible routes with return ends at terminations

## 4. Glass Balustrade Specification

- Public circulation: 10.38 mm toughened laminated glass (IS 16613) minimum
- Atria and waiting areas: frameless or semi-frameless systems with fragment-retention glazing
- Fixings: SS 304/316 with smooth, cleanable surfaces for infection-control wipe-down

## 5. Stainless Steel Grades

- SS 304: dry interior corridors, stair handrails, diagnostic centre circulation
- SS 316: wash-down zones, exterior ramps, coastal hospitals, high-chloride cleaning environments
- Finish: No.4 satin standard; electropolish optional for premium patient-facing zones

## 6. NABH / PMC Documentation Package

- NBC and HAG compliance statements by zone
- IS 875 Part 5 load confirmation
- Stamped shop drawings (DWG + PDF)
- Glass and SS batch MTCs (IS 16613 / IS 6911)
- Method statement; third-party inspection letter
- O&M manual with cleaning protocol for infection control

## 7. Contact

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