

Airport Railing Systems

Technical Guide for AAI, PMC & EPC Programmes — Railings India

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1. Scope

This guide supports specification of glass balustrades, stainless steel handrails and industrial guardrails for Indian airport terminals, concourses, boarding bridges, cargo zones and aviation infrastructure. It aligns to NBC 2016, IS 875 Parts 3 and 5, IS 2553, IS 16613 and IS 4270.

2. Terminal Zone Load Tiers (IS 875 Part 5)

- Assembly public circulation (departure / arrival concourses): 3.0 kN/m horizontal imposed load
- Ramp and escalator handrails: 1.5 kN/m
- Cargo utility walkways: 1.5 kN/m + 890 N point load
- Wind: IS 875 Part 3 with Importance Factor 1.5 for essential airport facilities

3. Glass Balustrade Specification

- Landside concourse: 10.38 mm laminated (IS 16613) minimum; 12.38 mm SGP at high-traffic impact zones
- Airside / boarding bridge: 12.38 mm SGP laminated; SS 316 fixings
- Systems: RI-FG-01 frameless, RI-BS-01 base shoe, RI-SP-01 spigot — see railingsindia.com

4. Stainless Steel Grades

- SS 304: dry landside interior handrail runs
- SS 316: arrival/departure circuits, coastal airports, wash-down and airside exterior
- Finish: No.4 satin standard; electropolish optional for premium lounges

5. NBC Height Reference

- Assembly balustrades: 1100–1200 mm (project safety margin above 1050 mm NBC minimum)
- Stair handrails: 900 mm from nosing per NBC 2016
- 100 mm sphere rule on openings below guard

6. AAI / PMC Documentation Package

- IS 875 Part 3 wind calculation (IF 1.5)
- IS 875 Part 5 load confirmation
- Stamped shop drawings (DWG + PDF)
- Glass and SS batch MTCs
- Method statement; third-party inspection letter
- Mock-up protocol; O&M manual

7. Contact

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