

Kota Stone Staircases

Structural Strength · Natural Safety · Enduring Architecture

APPLICATION GUIDE

Built for a lifetime of confident use. Kota Stone stair treads and risers combine 70+ MPa structural strength with natural anti-slip grip and enduring aesthetic beauty.

ISO 9001:2015 Certified

Grade A Quality

Direct from Quarry

Custom Sizing

Pan-India Delivery

Export Quality

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OVERVIEW

Kota Stone Staircases — Built to Last the Lifetime of the Building

Staircases are among the highest-stress elements in any building — subjected to continuous concentrated point loads at nosing zones, heavy repetitive foot impact, edge abrasion, and the structural demand of spanning across a void or cantilever. Materials that perform well in these conditions are rare. Kota Stone, with its exceptional 70+ MPa compressive strength and inherent resistance to edge chipping, has been the proven material of choice for Indian staircases for centuries.

Kota Stone stair treads are specified at 40–50 mm structural slab thickness — providing the structural depth required to safely span across a stair nosing without risk of cracking, flexure failure, or chipping at the leading edge under concentrated heel impact. At this thickness, Kota Stone treads comfortably meet and exceed all structural staircase requirements in the National Building Code of India.

Beyond structural performance, Kota Stone staircases are chosen by architects for their natural beauty and enduring aesthetic quality. The distinctive blue-green or warm brown natural stone creates a staircase element that becomes a architectural feature — complementing premium interior design across residential, hospitality, and institutional building types.

70+ MPa Compressive Strength	40–50 mm Structural Tread Thickness	R10–R11 Anti-Slip Traction	Lifetime Service Duration
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KEY ADVANTAGES

Why Kota Stone Outperforms Alternatives

■ Exceptional Structural Strength

70+ MPa compressive strength means tread slabs do not crack, split, or deflect under concentrated point loads at nosing zones — even in the highest-traffic commercial staircase applications.

■ Natural Anti-Slip Grip

All finishes except mirror-polished provide R10–R11 anti-slip traction on stair treads — naturally meeting and exceeding Indian NBC staircase safety requirements without applied coatings.

■ No Edge Chipping

The dense, fine-grained limestone matrix resists edge chipping at nosing zones under repetitive heel impact — a critical requirement that inferior materials fail to meet over time.

◆ Structural Lifetime Serviceability

Unlike timber stairs that warp and loosen, or ceramic tile treads that crack and detach, Kota Stone stair treads maintain their structural integrity and surface condition indefinitely.

▲ Architectural Beauty

The distinctive natural stone creates staircase elements of genuine architectural quality — complementing luxury interior design and contributing to the building's long-term character.

■ Zero Maintenance

Sweep and damp mop only. No polishing, staining, periodic sealing, or retreatment required. Treads can be spot-reground and re-honed on-site if required in the future.

TECHNICAL SPECIFICATIONS

Product Selection Guide

Component	Specification	Notes
Tread Thickness	40–50 mm	Structural slab — resists nosing impact
Riser Thickness	20–25 mm	Vertical face panel
Standard Tread Length	900 mm	Custom lengths available
Standard Tread Depth	300 mm	Up to 450 mm on request
Recommended Tread Finish	Honed or Natural	R10–R11 for safe grip
Riser Finish	Polished or Honed	Contrast or matching to tread
Nosing Profile	Bullnose, Square, or Chamfered	As per architect spec
Slip Resistance	R10 – R11	DIN 51130 (Honed/Natural)
Compressive Strength	≥ 70 MPa	IS 1121
Installation Method	Full Mortar Bed	Minimum 25 mm bed
Available Variants	Kota Blue & Kota Brown	Both in stock

PROJECT TYPES

Where We Supply

■ Luxury Residential Staircases

Grand entrance staircases, internal floor-to-floor staircases, and external approach steps in premium homes and villas — where structural performance meets interior design quality.

■ Hotel & Resort Grand Staircases

Sweeping hotel entrance and lobby staircases in polished or honed Kota Blue are a signature architectural element in premium hospitality design across India.

■ Corporate & Commercial Buildings

Internal fire escapes, reception-area feature staircases, and mezzanine steps all benefit from Kota Stone's combination of durability, safety, and professional aesthetic.

◆ Educational Institutions

Schools, colleges, and universities across India have trusted Kota Stone stair treads for generations — safe for children, durable under extreme foot traffic, and easily maintained.

▲ Healthcare & Hospital Staircases

Non-slip, easy to sanitise, chemical-resistant, and structurally proven under heavy use — Kota Stone stair treads exceed all healthcare facility safety and hygiene requirements.

■ Heritage & Temple Staircases

Natural Kota Stone steps on temple plinths, haveli entrances, heritage building approaches, and institutional steps carry traditional authenticity and structural longevity.

GET STARTED

Request Samples - Get a Quote

Premium Kota Stone stair treads and risers — structurally proven to 70+ MPa, naturally anti-slip to R10–R11, and architecturally beautiful in both Kota Blue and Kota Brown. Free samples available. Bulk project pricing provided within 24 hours of enquiry.

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