



Blue Onyx – Technical Data Sheet

Stone Type: Natural Onyx (translucent calcite stone)

Origin: Commonly sourced from Pakistan, Iran, India, and Afganistan

Finishes Available

Polsihed (intensifies its brightness and translucency)

Honed (subtle, matte finish)

Resin-treated (to improve durability)

Backlit (ideal for feature walls and decorative panels)

Recommended Uses

Interior wall cladding

Accent pieces and furniture inlays

Decorative bathroom vanities

Backlit bars and panels

Fireplace surrounds

Low-traffic countertops and artistic installations

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Physical & Mechanical Properties

Color: Light to deep blue tones with White, cream, gold, and sometimes rust or grey veining; highly decorative and translucent

Petrography: Banded cryptocrystalline calcitic onyx

Water Absorption (by weight): ~ 0.36%

Apparent Density: ~2,680 kg/m³

Open Porosity: ~ 0.9%

Compressive Strength: ~ 80-90 MPa

Flexural Strength: ~ 8 MPa

Abrasion Resistance: ~ 2.6 mm

Mohs Hardness: 3

Thermal Expansion Coefficient: ~ 6.1×10^{-6} /°C

Frost Resistance: Low (not recommended for outdoor use or freeze-thaw climates)

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