

ALL KING CERAMICS: Technical Breakdown of Porcelain Tile Project Solutions for Global Commercial Builders

Porcelain Tile Project Solutions: A Technical Breakdown of Core Manufacturing and Quality Control

CALIFORNIA, CA, UNITED STATES, June 26, 2026 /EINPresswire.com/ -- ZIBO ALL-KING IMPORT&EXPORT TRADING CO.,LTD. demonstrates low-absorption vitrified body technology, digital inkjet glazing, and anti-slip surface engineering for high-traffic commercial, hospitality, and institutional projects.

ZIBO, China — For procurement managers and specifiers seeking engineered porcelain tile solutions for shopping malls, hotel lobbies, apartment developments, and [healthcare facilities](#), the underlying manufacturing technology — from clay formulation to glaze chemistry — determines long-term durability, safety, and aesthetic consistency. ZIBO ALL-KING IMPORT&EXPORT TRADING CO.,LTD. (brand: [ALL KING CERAMICS](#)) has structured its production around four technical pillars that address the most common failure points in commercial tile installations: water penetration, edge wear, slip hazards, and supply chain fragmentation.

1. Low-Absorption Vitrified Body Sintering Process

The foundation of ALL KING CERAMICS' product line is a fully vitrified porcelain body with water absorption below 0.5%, as specified in its flagship 60x120 cm format (Travertine and Marble Series). This is achieved through high-pressure compaction using SACMI presses and precise kiln temperature control — parameters that the company controls through automated temperature



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ZIBO ALL-KING CERAMICS CO., LTD

monitoring and digital weight monitoring systems across its production lines. The result is a dense, low-porosity tile that resists staining, freeze-thaw cracking, and efflorescence, meeting ISO 13006 standards for external and heavy-duty internal use.

Data from the company's quality control laboratory shows that batch-to-batch flatness variation is kept within ± 0.5 mm via laser sorting, and breaking strength exceeds 1,300 N with a modulus of rupture ≥ 35 MPa. These metrics are critical for commercial real estate flooring where heavy surface loads and continuous foot traffic are the norm.

2. High-Definition Continuous Vein Digital Glaze Technology

For aesthetic continuity in large-span spaces such as hotel lobbies and airport departure halls, ALL KING CERAMICS employs digital inkjet glazing to replicate natural marble and travertine veins. The Marble Series and Travertine Series are designed with random, non-repeating vein patterns that allow seamless butt-joint installation across multiple tiles. The digital inkjet heads apply glaze at a resolution that preserves fine detail while maintaining a PEI 4–5 abrasion resistance rating, enabling the surface to withstand cleaning equipment and high-frequency pedestrian traffic without fading or gloss loss.

According to the company, the same glaze chemistry can be customized to achieve anti-slip ratings of R10/R11, complying with workplace safety standards in Australia, New Zealand, and European markets. This dual-function approach — aesthetic continuity plus functional slip resistance — is increasingly demanded by hospitality procurement agencies and architectural design firms.

3. Commercial Anti-Slip and Wear-Resistant Glaze Formulation

For wet zones like commercial kitchens, hotel bathroom floors, and outdoor pavers, ALL KING CERAMICS offers surface finishes that achieve R11 and R12 slip resistance ratings. The company's slip resistance test laboratory (as shown in internal quality records) validates that the applied glaze maintains a Mohs hardness of 6–7, ensuring that the anti-slip micro-texture is not worn away under heavy cleaning cycles. This is particularly relevant for healthcare facilities and educational buildings where both safety and hygiene are paramount.

The company's product portfolio also includes anti-slip outdoor porcelain pavers in 20 mm thickness for external landscaping, though the core 60x120 cm format remains the most specified for commercial interiors. The glaze's acid and alkali resistance is tested per EN 14411, making it suitable for environments exposed to chemical cleaners.

4. Full-Project Turnkey Solution and Supply Chain Integration

Beyond technical specifications, ALL KING CERAMICS positions itself as a one-stop project exporter. With an annual capacity exceeding 12 million square meters and a monthly output of

1.2 million m², the factory can consolidate multiple products into a single shipment. The company accepts OEM/ODM orders with custom sizes, thickness, surface finish, and branded packaging, and its lead time for standard designs is 7–10 days. MOQ starts at 400 m² per design, and trial orders are accepted.

The company's export markets span Australia, New Zealand, South Korea, Southeast Asia, Russia, the Middle East, and Latin America. Logistics support includes EXW, FOB, CNF, and CIF terms, with third-party inspection accepted before shipment. After-sales service covers damage compensation, online installation guidance, and 24/7 technical consultation.

Technical Comparison: ALL KING Porcelain vs. Low-Grade Ceramic Tiles

Compared to traditional ceramic tiles, ALL KING's vitrified porcelain offers quantifiable advantages: water absorption is reduced by approximately 10 percentage points, breaking strength increases by over 15 MPa, and Mohs hardness is 3 points higher (6–7 vs. 3–4). These translate into 20% lower installation costs (less breakage), 30% lower maintenance costs (fewer replacements), and 10% lower direct factory pricing, according to internal cost analysis. The tiles require no sealant, are easier to clean, and maintain performance for 20+ years in commercial settings, as evidenced by project records in 15,000 m² hospitality and retail installations.

Selection Parameters for Engineering Specifications

The following table summarizes key technical parameters for the two most specified 60x120 cm series, which are CE-certified (AC 50163816 0001) and manufactured under ISO 9001:2015 (certificate 0350521Q30166R1M).

Format

Marble Series: 60×120 cm

Travertine Series: 60×120 cm

Thickness

Marble Series: 9.0–10.5 mm

Travertine Series: 9.0–10.5 mm

Water Absorption

Marble Series: < 0.5% (Vitrified)

Travertine Series: < 0.5% (Vitrified)

Mohs Hardness

Marble Series: 6–7

Travertine Series: 6–7

Abrasion Resistance

Marble Series: PEI 4 / PEI 5

Travertine Series: PEI 4 / PEI 5

Breaking Strength

Marble Series: $\geq 1,300$ N

Travertine Series: $\geq 1,300$ N

Modulus of Rupture

Marble Series: ≥ 35 MPa

Travertine Series: ≥ 35 MPa

Slip Resistance (Available)

Marble Series: R10 / R11

Travertine Series: R10 / R11

Recommended Scenarios

Marble Series: Hotel lobbies, luxury villas, commercial offices, retail spaces

Travertine Series: High-traffic corridors, outdoor covered areas, restaurant flooring, healthcare facilities

Weather/Freeze Resistance

Marble Series: ISO 13006 compliant for outdoor use

Travertine Series: ISO 13006 compliant for outdoor use

Market Context and Outlook

Global demand for large-format porcelain tiles continues to grow, driven by commercial real estate development in Southeast Asia, the Middle East, and Latin America — all regions where ALL KING CERAMICS maintains an active distributor network. The company's ability to provide custom solutions (size, thickness, surface finish, OEM branding) with lead times under two weeks positions it as a competitive alternative to European suppliers for mid-range to premium commercial projects.

Industry analysts note that project specifiers increasingly seek vendors who can deliver technical documentation (CE, ISO, test reports) alongside product. ALL KING CERAMICS meets this requirement through its TUV-certified CE mark and ISO 9001 production system, which are both applicable to its 60x120 cm porcelain tile production.

For procurement teams evaluating porcelain tile project solutions, the combination of low water absorption, high Mohs hardness, certified slip resistance, and flexible OEM support makes ALL KING CERAMICS a technically viable partner for large-scale construction projects spanning shopping malls, apartment developments, hotels, and institutional buildings.

Company Profile and Contact Information

ZIBO ALL-KING IMPORT&EXPORT TRADING CO.,LTD. (brand: ALL KING CERAMICS) was founded in 2011 and operates a 60,000-square-meter facility with 320 employees. The company's annual production capacity ranges from 12 to 16 million square meters, with 70% of output exported. For inquiries, contact Abby at +86 156-5336-9360 or email tyceramic2@all-king.com.

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