

INDUSTRIAL HERITAGE • MORBI, GUJARAT, INDIA

Architectural Surfaces

Engineered for Global Excellence

Direct factory manufacturer and international exporter of high-performance vitrified porcelain stoneware, monumental sintered slabs, and artisanal ceramic architectural surfaces. Serving specifiers, contractors, and distributors across 85+ worldwide markets.



2007

YEAR ESTABLISHED

1.4M+

SQ.M ANNUAL OUTPUT

85+

GLOBAL DESTINATIONS

< 0.05%

VITRIFICATION (GROUP BIA)

ABOUT PIXEL CERAMIC

Forging Vitrified Perfection From India's Ceramic Epicenter

Headquartered in Morbi, Gujarat—the world's second-largest ceramic tile manufacturing cluster—Pixel Ceramic is a powerhouse direct manufacturer and global export enterprise.

Company Overview & Vision

Since our inception in **2007**, Pixel Ceramic has pioneered the synthesis of India's supreme mineral wealth with state-of-the-art European production engineering. Operating high-tonnage hydraulic presses, ultra-long continuous gas kilns, and multi-channel high-definition digital inkjet decoration lines, we produce multi-format porcelain surfaces engineered to withstand extreme architectural demands.

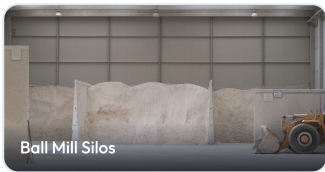
Our direct zero-intermediary supply chain empowers commercial developers, international importers, and prestigious architects across the USA, UK, Europe, Middle East, and Australia with unwavering batch consistency and direct factory pricing.

Purity-Controlled Ball Milling & Spray Drying

High-capacity continuous wet ball mills pulverize kaolin, feldspar, and quartz into micro-slurry before spray drying into homogeneous moisture-controlled granules.

Multi-Tonnage Hydraulic Compaction

Heavy tonnage stamping eliminates internal micro-voids, producing ultra-dense green bodies capable of zero edge curvature and precision orthogonal rectification.



Key Infrastructure Pillars

18+ Years

INDUSTRIAL HERITAGE

Established in 2007 with relentless focus on vitrified stoneware.

< 0.05%

WATER ABSORPTION

Full vitrification compliant with ISO 13006 Group B1a standards.

180 KM

PORT PROXIMITY

Direct multilane transit to Mundra Port for frictionless global shipping.

100% OEM

PRIVATE LABELING

Custom packaging, barcode labeling, and tailored collection designs.

PRODUCTION CYCLE

End-to-End Robotic Precision From Raw Clay to Finished Pallet

Combining European machinery standards with exacting quality controls at every stage of the vitrification cycle.

- 1

Selective Mineral Blending & Ball Milling
Finest kaolin, quartz, and potash feldspar are wet-milled in high-capacity ball mills to reach sub-45 micron slurry with precise specific gravity and rheology.
- 2

Spray Drying & Granulation Control
Hot gas atomization transforms slurry into micro-spherical powder with controlled 5-6% residual moisture, ensuring optimum density distribution.
- 3

Hydraulic Compaction (Up to 7,500 Tons)
Ultra-high pressure stamping guarantees uniform body compaction, sharp edges, and zero warping across small subway formats up to 120x240 cm slabs.
- 4

Ultra-HD Digital Inkjet Decoration
12-channel high-resolution digital printers apply organic marble veins, timber grains, and stone textures with up to 16 distinct non-repeating face variations.
- 5

High-Temperature Thermal Vitrification
Fired in continuous gas kilns exceeding 1200°C over an extended cycle to melt feldspar into an impervious crystalline porcelain matrix (<0.05% absorption).
- 6

Nano-Mirror Polishing & Optical Sorting
Multi-head abrasive lines impart >92 GU mirror gloss or tactile carving reliefs. Laser opto-electronic scanners grade planar flatness, tone, and dimensions.

Zero-Tolerance Quality Gates

Every production batch undergoes continuous in-line destructive and non-destructive laboratory testing to satisfy international building codes.

Thermal Shock Resistance:	10 Cycles Passed (ISO 10545-9)
Frost & Freeze-Thaw Resistance:	Zero Cracking (ISO 10545-12)
Stain & Chemical Resistance:	Class 5 Immunity (ISO 10545-14)
Slip Resistance Dynamic COF:	DCOF > 0.42 (ANSI A137.1)



COLLECTION CATALOG

Architectural Ceramic & Porcelain Surfaces Across 16 Formats

From large-format sintered porcelain slabs to handcrafted subway tiles, engineered for residential, commercial, and heavy civic projects.

PORCELAIN STONEWARE

Glazed Vitrified (CVT / PGVT)

High-traffic rectified floor and wall tiles available in Glossy, High Gloss, Carving, and Matt finishes.

Sizes: 60x120, 60x60, 80x160, 120x120 cm

MONUMENTAL ARCHITECTURE

Sintered Porcelain Slabs

Continuous seam-free luxury for kitchen countertops, vanity tops, building facades, and airport lobbies.

Sizes: 120x240, 80x160, 120x180 cm (9mm)

BIOPHILIC DESIGN

Wooden Plank Porcelain

Authentic timber grains, tactile bark carving, and zero-splinter waterproof durability for indoor and outdoor living.

Sizes: 20x120, 15x90 cm Planks

WALL CLADDING

Ceramic Wall Concepts

Coordinated light, dark, and 3D relief highlighters for luxury master bathrooms, feature backdrops, and kitchens.

Sizes: 30x90, 30x60, 25x50, 20x60 cm

BOUTIQUE & VINTAGE

Artisanal Subway Tiles

Handcrafted bevel edges, diamond punch reliefs, and glossy artisanal glazes for cafes, restaurants, and kitchens.

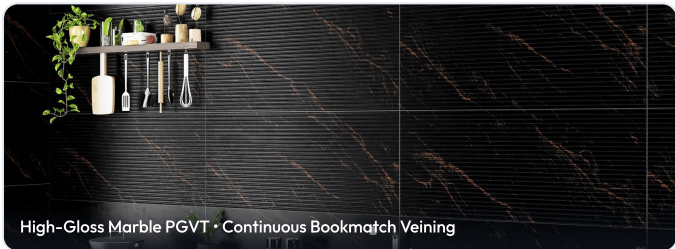
Sizes: 7.5x30, 10x30, 10x20 cm

POOLS & GEOMETRIC NICHES

Mesh Mosaics & Geometric

Hexagonal, penny-round, herringbone, and basketweave mesh-mounted porcelain sheets with high chemical resistance.

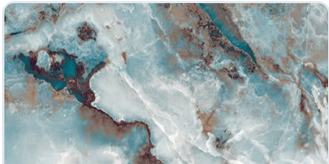
Sizes: 30x30 cm (12x12 Inch) Sheets



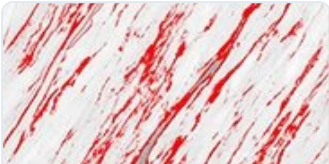
SURFACE ENGINEERING

Mastery of Tactile Glazes, Nano Polishing & Vein Carving

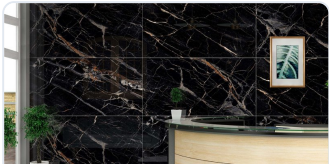
Representative flagship finishes curated from our 16 specialized collection ranges in Morbi, India.



Cobalto Aqua
60X120 • NANO GLOSSY



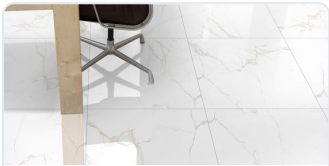
CV-246 Relief
60X120 • TACTILE CARVING



Amica Onyx
80X160 • SUPER HIGH GLOSS



Borgini White
80X160 • CARVING FINISH



Crown Statuario
60X60 • MIRROR POLISHED



Eureka Latte
30X90 • LUXURY WALL GLOSS



Acacia Beige
15X90 • WOOD PLANK MATT



Navy Diamond
10X20 • SUBWAY PUNCH

Specialized Finish Descriptions

- **Nano Mirror Gloss (>92 GU):** Multi-stage micro-abrasive polishing with protective anti-stain nanotechnology.
- **Synchronized Carving:** Mechanical vein embossing aligned with digital pigment channels for photorealistic natural stone depth.
- **Satin & Punch Matt (R10):** Smooth velvet touch with high dynamic slip resistance for commercial and residential floors.
- **Baby Satin & Rustic Patina:** Soft matte sheen ideal for minimalist, Nordic, and Mediterranean interior concepts.



High-Tonnage Vitrified Slab • Seamless Kitchen Countertop & Backsplash

LABORATORY COMPLIANCE

ISO 13006 • EN 14411 Group Bla Quality Benchmark Comparison

Pixel Ceramic Porcelain Vitrified Tiles surpass international regulatory benchmarks in structural strength and planar precision.

CHARACTERISTIC & PROPERTY	ISO 13006 / EN 14411 (GROUP BIA)	PIXEL CERAMIC VALUE	TEST METHOD
DIMENSIONAL & SURFACE REGULATORY PROPERTIES			
Deviation in Length & Width	± 0.50%	± 0.10% (Precision Rectified)	ISO 10545-2
Deviation in Thickness	± 5.0%	± 4.0%	ISO 10545-2
Straightness in Sides	± 0.50%	± 0.10%	ISO 10545-2
Rectangularity (Squareness)	± 0.50%	± 0.10%	ISO 10545-2
Surface Flatness (Warpage / Curvature)	± 0.50%	± 0.20%	ISO 10545-2
Surface Quality (Visual Flawless)	Min. 95% Defect Free	> 98% Flawless Batch	ISO 10545-2
Glossiness (Nano Polished Finish)	> 90 GU	> 92 GU (Mirror Finish)	Gloss Meter 60°
STRUCTURAL & MASSIVE MECHANICAL PROPERTIES			
Water Absorption	≤ 0.50%	< 0.05% (Impervious Stoneware)	ISO 10545-3 / ASTM C373
Apparent Density	> 2.00 g/cc	> 2.20 g/cc	DIN 51082
Modulus of Rupture (Bending Strength)	> 35.0 N/mm²	> 40.0 N/mm²	ISO 10545-4
Breaking Strength (9mm body)	> 1,300 N	> 1,800 N (Up to 2,200 N)	ISO 10545-4
Impact Resistance (COR)	> 0.55	> 0.55	ISO 10545-5
SURFACE, THERMAL & CHEMICAL RESISTANCE			
Surface Scratch Hardness (Mohs Scale)	Min. 5	Mohs 5 to 7 (Carving / Matt)	EN 101
Thermal Shock & Frost Resistance	Test Passed (10 Cycles)	100% Passed (Zero Cracking)	ISO 10545-9 / 12
Stain Resistance & Chemical Immunity	Min. Class 3	Class 5 (Stain Shield Technology)	ISO 10545-14 / 13
Slip Resistance Dynamic COF	Declared Value	DCOF > 0.42 (R10 for Matt)	ANSI A137.1 / DIN 51130
Reaction to Fire	Class A1 / A1fl	Class A1 Non-Combustible	EN 13501-1

WORLDWIDE MARITIME NETWORK

Mundra Port Gateway & Multimodal Freight Management

Strategically situated 180 km from Mundra Mega Port on India's western coast with direct weekly container vessel sailings.

4-Tier Export Palletizing System

- **Heavy-Duty 3-Ply / 5-Ply Cartons:** Custom printed with customer private branding, batch IDs, and barcode labels.
- **ISPM-15 Heat-Treated Pallets:** Certified phytosanitary wooden pallets conforming to US, EU, and Australian import quarantine.
- **Moisture Barrier & Plastic Shrink:** Complete moisture-proof thermal wrap protecting glazes during ocean transit.
- **Airbag Dunnage & Container Lashing:** High-tensile polyester strapping prevents shifting under rough ocean swells.



Standard Export Container Packing Specifications (20' FCL)

PRODUCT CATEGORY	SIZE (CM)	THICK.	PCS / BOX	AREA / BOX	KG / BOX	BOXES / PLT	PLTS / FCL	TOTAL BOXES	TOTAL AREA (SQ.M)
Glazed Vitrified (GVT)	60 x 120	9 mm	2	1.44 Sq.M	29.5 kg	32	29	928	1,336.32 Sq.M
Glazed Vitrified (GVT)	60 x 60	9 mm	4	1.44 Sq.M	28.5 kg	40	24	960	1,382.40 Sq.M
Glazed Vitrified (GVT)	80 x 160	9 mm	2	2.56 Sq.M	54.0 kg	28	18	504	1,290.24 Sq.M
Sintered Porcelain Slab	120 x 240	9 mm	1	2.88 Sq.M	62.0 kg	20	6	120	345.60 Sq.M
Wooden Plank Strip	15 x 90	9 mm	8	1.08 Sq.M	21.5 kg	48	26	1,248	1,347.84 Sq.M
Wooden Plank Strip	20 x 120	9 mm	5	1.20 Sq.M	24.7 kg	42	26	1,092	1,310.40 Sq.M
Ceramic Wall Tiles	30 x 90	9 mm	4	1.08 Sq.M	18.5 kg	48	26	1,248	1,347.84 Sq.M
Ceramic Wall Tiles	30 x 60	9 mm	8	1.44 Sq.M	23.0 kg	40	29	1,160	1,670.40 Sq.M
Artisanal Subway Tiles	7.5 x 30	8 mm	44	0.99 Sq.M	12.5 kg	96	24	2,304	2,280.96 Sq.M
Heavy Outdoor Paver	60 x 120	20 mm	1	0.72 Sq.M	32.5 kg	32	26	832	599.04 Sq.M

DIRECT FACTORY ALLIANCE

Partner Directly With Morbi's Premier Porcelain Manufacturer

Whether ordering full container loads (FCL) for regional wholesale distribution or specifying bespoke porcelain stoneware for architectural developments, our export office provides prompt commercial and technical assistance.

MANUFACTURING PLANTS & HEAD OFFICE

Pixel Ceramic Pvt. Ltd.

8-A National Highway, Morbi - 363642,
Gujarat, India.
Direct Highway corridor to Mundra & Kandla Ports.

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B2B IMPORTER & SPECIFIER SERVICES

- **Free Architectural Sample Kits:** Air-couriered directly to your international design firm or wholesale office.
- **Comprehensive Price Lists (FOB / CIF / CFR):** Instant commercial export pricing for 20' and 40' FCL containers.
- **Private OEM Box Branding:** Customized 3-ply carton art with your company logo, barcode, and language text.
- **Laboratory Certificate Dossier:** Complete ISO 13006, CE, ASTM, and VOC test reports for project submittals.

MANUFACTURED • VITRIFIED • ENGINEERED IN MORBI, INDIA FOR GLOBAL ARCHITECTURE

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