

RCI

ROYAL CERAMICS COMPANY LIMITED

Thai Producer Proudly to present

OUR-BRAND

Leading tile manufacturer and distributor in Thailand

3 factories, 84M sq.m./year capacity

23 million sq.m. ready for shipment

201 outlets nationwide

Wide variety of tile designs

Sales team with fast and responsive service

OUR-PRODUCT

RCI PORCELAIN

RCI FULL BODY HOMOGENEOUS

RCI CERAMIC

Elevated to world-class standards

MANUFACTURING PROCESS -

Raw Material Grinding

Spray Drying

Pressing

Drying

Engobe & Glaze Applying

Digital Printing

Firing

Sorting

Packaging

ALL PROCESS

Quality Assurance

Quality Control

Type	Glazed Wall Tile	Glazed Floor Tile	Glazed PORCELAIN	Homogeneous
Raw Material	<div>Other</div> <div>Feldspar</div> <div>Ball Clay</div> <div>Lime Stone</div>	<div>Red Clay</div> <div>Feldspar</div> <div>Ball Clay</div> <div>Other</div>	<div>Feldspar</div> <div>Other</div> <div>Ball Clay</div>	<div>Feldspar</div> <div>Ball Clay</div> <div>White Clay</div> <div>Other</div>
Firing Temperature	≈ 1,100-1,120°C	≈ 1,140-1,170°C	≈ 1,180-1,200°C	≈ 1,180-1,200°C
Breaking Strength	60 Kgs Modulus of Rupture > 120 Kgs/cm <sup>2</sup>	>90 Kg Modulus of Rupture > 250 Kgs/cm <sup>2</sup>	>250 Kg Modulus of Rupture > 400 Kgs/cm <sup>2</sup>	>250 Kg Modulus of Rupture > 400 Kgs/cm <sup>2</sup>
Water Absorption	High (15-22%)	Low to medium (6-10%)	Very low (<0.5%)	Very low (<0.5%)
Usage	Interior Wall Tile	Interior - Exterior Floor Tile	Interior - Exterior Floor Tile	Interior - Exterior Floor Tile

CLASSIFICATION

Ceramic Wall Tile—Group *BIII & BIb* ( High Water Absorption > 10% )  
25 cm x 40 cm (Sw 250 mm x 400 mm x 7.4 mm) GL, BIII, NON-RECTIFIED  
30 cm x 50 cm (Sw 300 mm x 500 mm x 9.5 mm) GL, BIb, NON-RECTIFIED

Ceramic Floor Tile—Group *BIb* ( Medium Water Absorption 6-10% )  
30 cm x 30 cm (Sw 301 mm x 301 mm x 7.2 mm) GL, BIb, NON-RECTIFIED  
40 cm x 40 cm (Sw 400 mm x 400 mm x 8.8 mm) GL, BIb, NON-RECTIFIED  
30 cm x 60 cm (Sw 300 mm x 600 mm x 9.5 mm) GL, BIb, RECTIFIED  
60 cm x 60 cm (Sw 600 mm x 600 mm x 9.5 mm) GL, BIb, RECTIFIED  
60 cm x 120 cm (Sw 600 mm x 1200 mm x 12.5 mm) GL, BIb, RECTIFIED

Porcelain and Full Body Tile—Group *Bia* ( Very Low Water Absorption <0.5% )  
30 cm x 60 cm (Sw 300 mm x 600 mm x 10.0 mm) GL, Bia, RECTIFIED  
60 cm x 60 cm (Sw 600 mm x 600 mm x 10.0 mm) GL, Bia, RECTIFIED  
60 cm x 120 cm (Sw 600 mm x 1200 mm x 9.5 mm) GL, Bia, RECTIFIED

OUR-TECHNICAL

Description กลุ่มสินค้า Product Classification	มาตรฐานสากล ISO International standard	Standard (Rectified ) (ISO 13006:2018,TIS 2508-2555 (2012) Group BI <sub>a</sub> , E <sub>v</sub> ≤ 0.5%	RCI PORCELAIN Standard (Rectified ) Rectified Glazed porcelain tile Group BI <sub>b</sub>		
		%	mm.	%	mm.
ขนาดของกระเบื้อง Dimension and surface quality	ISO 10545-2	± 0.3 %	± 1.0 mm.	Width ± 0.2 % Length ± 0.2 %	± 0.5 mm ± 1.0 mm
ความหนา Thickness	ISO 10545-2	± 0.5 %	± 0.5 mm.	Min : 9.5 mm. Max : 10.5 mm.	
ความตรงของ Straightness	ISO 10545-2	± 0.3 %	± 0.8 mm.	± 0.1 %	± 0.6 mm.
ความได้ฉาก Rectangularity	ISO 10545-2	± 0.3 %	± 1.5 mm.	± 0.2 %	± 1.2 mm.
ความราบของผิว Flatness: Convex (+) Concave (-) ความโค้งตรงกลาง (Center curvature) ความโค้งที่ขอบ (Edge curvature) ความบิดเบี้ยว (Warpage)	ISO 10545-2 ISO 10545-2 ISO 10545-2	± 0.4 % ± 0.4 % ± 0.4 %	± 1.8 mm. ± 1.8 mm. ± 1.8 mm.	± 0.2 % ± 0.2 % ± 0.2 %	± 1.2 mm. ± 1.2 mm. ± 1.2 mm.
การดูดซับน้ำ Water absorption	ISO 10545-3	E <sub>v</sub> ≤ 0.5 % Individual maximum 0.6%		E <sub>v</sub> ≤ 0.5 %	
ความต้านแรงกดแตก Breaking strength	ISO 10545-4	Thickness > 7.5 mm. : > 1300 N		Thickness = 10 mm. : ≥ 2500 N	
โมดูลัสแตกหัก Modulus of rupture: MOR	ISO 10545-4	≥ 35 N/mm <sup>2</sup> Individual maximum 32		≥ 40 N/mm <sup>2</sup>	
ความทนทานต่อการขีดข่วน Resistance to surface abrasion: Glazed tiles	ISO 10545-7	Reported Abrasion Class and cycles passed		Minimum Class 2 Cycle passed: 600 (Minimum)	

OUR-QUALITY TESTING

Breaking strength test

Granito Tile (Imported) RCI CERAMIC RCI PORCELAIN

Marker resistance test

Granito Tile (Imported) RCI CERAMIC RCI PORCELAIN

Household and chemical resistance test

Household Chemicals

24 Hours

4 Day

Citric acid

RCI PORCELAIN

Granito Tile (Imported)

RCI PORCELAIN

Granito Tile (Imported)



OUR-  
TEXTURE  
Finishing



DIFFERENT

Key Point	Granito	RCI PORCELAIN
Design	Restricted color schemes and patterns	A wide range of textures, patterns, and sizes. Suitable for every design
Surface	Scratches on a polished surface may cause stains	Glazed ceramic and porcelain for enhanced surface protection
Repair	Impossible to order same shade.	Locally produced and stocked
Cleaning	Need particular chemicals for maintenance	Easy to maintain, durable, no need for special care
Delivery time	Waiting time: up to 6 months	Ready to ship, complete project on time

OUR-  
CUSTOMIZING



Finishing	Definition	Surface Gloss Level	Surface Roughness	Slip Resistance	Recommended Application Areas
Crystal Polished	A polished glazed surface that is smooth and glossy, achieved through a polishing process after firing.	High gloss level, with a gloss meter reading of no less than 80.	The surface is smooth and even, with no roughness.	The surface has a high level of slipperiness.	Dry indoor areas, especially wall surfaces.
Opaque Honed	A smooth, reflectionless glazed surface achieved through a polishing process after glazing.	High gloss level, with a gloss meter reading of no less than 10.	The surface is smooth and even, with no roughness or irregularities.	The surface has a medium level of slipperiness.	Dry indoor flooring
Satin	A smooth and soft-finish surface created by glazing, with a possibility of light reflection or mild sheen.	Medium gloss level, with a gloss meter reading of no less than 50°. The surface may exhibit some light reflection.	The surface is smooth and level, with no roughness.	The surface has a moderate level of slipperiness.	Dry indoor floor
Matte	A smooth, non-rough surface created by color glazing; dull and non-shiny finish.	Medium gloss level, with a gloss meter reading of no less than 30°, and a non-reflective surface.	The surface texture can be physically felt by touch.	The surface has a low to moderate level of slipperiness.	Occasionally wet areas without standing water, either indoors or outdoors.
Molded Structure	A textured or patterned surface created by the pressing mold process, resulting in an uneven finish.	The level of gloss or matte finish depends on the glazing surface.	The level of smoothness or roughness depends on the surface glaze.	The level of friction or slipperiness depends on the surface glaze.	Various applications depending on the surface finish.
Special Texture	Special textured surface effects, such as glossy sugar crystals, matte granules, shimmering particles, or reflective glister finishes.	The level of gloss or matte finish depends on the surface glaze.	The degree of smoothness or roughness depends on the surface glaze.	The degree of friction or slipperiness depends on the surface glaze.	Versatile application areas depending on the tile surface.
Anti-Slip	Anti-slip tile surface with grip to enhance safety.	The level of slip resistance depends on the surface glaze.	The level of surface smoothness or roughness depends on the glaze.	The surface maintains relatively high friction when wet.	Wet area

Granito Tile (Imported)



VOCs & GWP

Uses natural inorganic raw materials in tile production, with a high-temperature firing process that results in zero VOC (Volatile Organic Compounds) emissions.



GWP (Global Warming Potential): Reduces environmental impact by using solar energy, natural gas firing to lower CO2 emissions, and incorporating water treatment and raw material recycling in the production process.



Report Testing

RCI CERAMIC

REPORT NUMBER : ATT/ELN/24/2475-D  
DATE REPORTED : 9 January 2025  
COMPANY :THE ROYAL CERAMIC INDUSTRY PUBLIC Co.,Ltd.



Appendix A



ELN-2475-D: PEARL WHITE ( MATT )( PORCELAIN )

RCI PORCELAIN

REPORT NUMBER : ATT/ELN/24/2476-D  
DATE REPORTED : 9 January 2025  
COMPANY :THE ROYAL CERAMIC INDUSTRY PUBLIC Co.,Ltd.



Appendix A



ELN-2479-D: GLOSSY WHITE ( CERAMIC )



LIFE-  
SAVING  
108+  
PERSON



TILE-DONATION  
35+  
PLACES

3D SERVICE  
• MOCK UP ROOM

