



RAK  
luminos

TREND SETTERS



# RAK Luminos

Wonder tiles that glow in the dark

## Innovation & Illumination

RAK Ceramics has launched innovative tiles that create an impression for your projects even in the dark!

RAK Luminos 'Glow in the Dark' Tiles, get energized by surrounding light and store light energy. When it is dark or when the lights are put off, the tiles start glowing.

Once charged, RAK Luminos will glow several hours, depending on the previous exposure to sunlight or artificial light. These tiles are suitable for use in exteriors of high value buildings and also in interior places such as clubs, bars & restaurants and also in other interiors. An initial high luminescence later translates into a gentle glow, creating a visual delight.

RAK Luminos tiles are extremely effective in emergencies and for creating signs that glow in the dark.

*Create fancy interiors and exteriors  
for fun spots like discos and night  
clubs besides enabling safety and  
security of guests during power  
failures & emergencies*





## TILES

### WALL



Glossy Ceramic 25 x 33 cm\*



Matt Ceramic 25 x 33 cm\*

### FLOOR



Matt Gres Porcelanato 30 x 30 cm

\* Unrectified size : 25 x 33 cm  
Rectified size : 24 x 32 cm

## BORDER



B-1 5 x 33 cm



B-2 10 x 33 cm



B-3 15 x 33 cm

## DECOR



GD-1



GD-2



GD-3



GD-4



GD-5



GD-6



GD-7

## SIGNS



TD-1



TD-2



TD-3

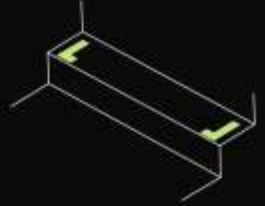
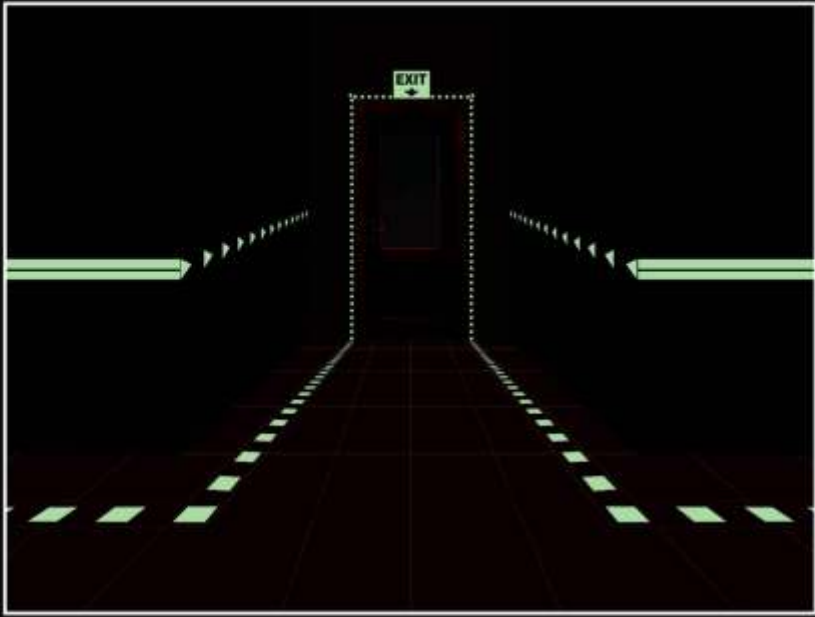


TD-4



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Some important areas of application



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Ensures safety of your guests during emergencies



TD -10



TD -9



TD -5



TD -6



TD -7



TD -8

www.rakceramics.com



## Some Frequently Asked Questions about RAK Luminos

### 1. What is Photo Luminous Technology & how does it apply to the ceramic industry?

Photo Luminous Technology or "Glow in the Dark" technology is the process of absorbing and releasing light energy. RAK Ceramics has mastered the process of incorporating this technology into its tile products. As one of the top most manufacturer of ceramic & porcelain tiles and sanitaryware, its continuous research in manufacturing with leading laboratories in Europe has enabled it to come out with reliable products in Photo Luminous Technology.

### 2. Where do you recommend the usage of these tiles?

The usage of these tiles is in the exteriors as well as interiors on the walls. You can clad complete or partial portion of the exteriors of buildings with these tiles, and once its dark, your building will "glow in the dark" making it a prime attraction or a landmark.

You can also use the tiles in the interiors as long as they can absorb natural light during the day in abundance and the light from electric sources. Use of these tiles in fun spots such as night clubs, discos, bars and restaurants will help such establishments create a different statement in their businesses. The tiles can also be used in locations that may encounter a power failure and the glow from the tiles can be used as an emergency measure to facilitate evacuation of people by indicating exit routes.

### 3. Are any special grouts recommended while laying these tiles?

We recommend the LATICRETE SpectraLOCK Grout, which when combined with the optional DAZZLE component produces several 'glow in the dark' colour choices, besides metallic & pearlescent colours. The grout will provide a glow effect for several hours.

### 4. How do you clean RAK Luminos tiles?

The same way as you will clean regular ceramic or porcelain tiles, using non-abrasive cleansers. Avoid strong chemical cleaners. As in the case of any ceramic or porcelain tiles, avoid using any sharp abrasive material for cleaning the tiles. Use clear warm water or a neutral cleaner specific to ceramic tiles.

### 5. What shades and colours are available in RAK Luminos, and how long will the effectiveness last?

Initially plain shades in white & gres porcelein body will be offered. RAK Ceramics is undertaking several advanced tests to incorporate the glaze in various types of tiles already in production. The effectiveness of RAK Luminos can last extended periods in ideal conditions.

# RAK Luminos

How does RAK Luminos make a difference to your world, in the dark?

The essence of quality of luminescent products lies in the process of manufacturing, besides the raw materials such as special glazes & pigments. With over a decade's experience in making unique tiles in the ceramic & porcelain field, RAK Ceramics is in the best position to offer you extreme consistency and quality in the luminescent ceramic products category as well.

High quality research into selection of the glazes which work by absorbing and releasing light energy in a continuous cycle ensure that the tiles are able to effectively release the energy they have absorbed earlier. The manufacturing process superiority ensures that when you specify RAK Luminos, you have specified the best.

RAK Ceramics ensures that RAK Luminos tiles has a phosphorescent glaze that consists of chemically inert and stable silicates and aluminosilicates of calcium, magnesium, potassium and zinc. The glaze is neither toxic in any manner nor radioactive at all, and extremely safe.

RAK Luminos products are designed to last and only time will tell its superiority. RAK Ceramics can offer you these tiles in large quantities, on a commercial & professional manner that enhances your reputation as a specifier or a realtor.



<b>TEST DESCRIPTION</b>	<b>TEST METHOD</b>	<b>INTERNATIONAL STANDARD</b>	<b>R.A.K. CERAMICS SPECIFICATION</b>
 Length and Width	BS EN ISO 10545-2	± 0.5 %	± 0.3 %
 Thickness	BS EN ISO 10545-2	± 10 %	± 5 %
 Straightness of Sides	BS EN ISO 10545-2	± 0.3 %	± 0.3 %
 Rectangularity	BS EN ISO 10545-2	± 0.5 %	± 0.4 %
 Surface Flatness	BS EN ISO 10545-2	+ 0.5% - 0.3%	± 0.3%
 Water Absorption	BS EN ISO 10545-3	> 10 %	10-17 %
 Breaking Strength	BS EN ISO 10545-4	≥ 600N	≥ 700N
 Modulus of Rupture	BS EN ISO 10545-4	≥ 15 N/mm <sup>2</sup>	≥ 18 N/mm <sup>2</sup>
 Resistance to Surface Abrasion	BS EN ISO 10545-7	Manufacturer to state abrasion class	PEI Class 3
 Thermal Shock Resistance	BS EN ISO 10545-9	No visible defect	No visible defect
 Craze Resistance	BS EN ISO 10545-11	No crazing	No crazing
 Resistance to Chemicals (household chemicals, swimming pool salt, low concentrations acids & alkalis)	BS EN ISO 10545-13	No visible effect	No visible effect
 Resistance to Stains	BS EN ISO 10545-14	Manufacturer to state class	Stains removed Min. Class 4

 Length and Width	BS EN ISO 10545-2	+/- 0.6 %	+/- 0.3 %
 Thickness	BS EN ISO 10545-2	+/- 5.0%	+/- 5.0%
 Straightness of Sides	BS EN ISO 10545-2	+/- 0.5 %	+/- 0.4 %
 Rectangularity	BS EN ISO 10545-2	+/- 0.6 %	+/- 0.4 %
 Surface Flatness	BS EN ISO 10545-2	+/- 0.5 %	+/- 0.4 %
 Water Absorption	BS EN ISO 10545-3	<=0.5%	<=0.4%
 Breaking Strength	BS EN ISO 10545-4	>= 1300 N	>= 1400 N
 Modulus of Rupture	BS EN ISO 10545-4	>=35N/mm2	>= 40N/mm2
 Resistance to Surface Abrasion	BS EN ISO 10545-7	Manufacturer to state abrasion class	PEI Class 3
 Linear Thermal Expansion	BS EN ISO 10545 - 8	<=9 X 10 <sup>-6</sup> K <sup>-1</sup>	<=7 X 10 <sup>-6</sup> K <sup>-1</sup>
 Thermal Shock Resistance	BS EN ISO 10545 - 9	No visible defect	No visible defect
 Craze Resistance	BS EN ISO 10545 - 11	No crazing	No crazing
 Frost Resistance	BS EN ISO 10545 - 12	No visible damage	No visible damage
 Resistance to Chemicals	BS EN ISO 10545 - 13	No visible effect	No visible effect
 Resistance to Stain	BS EN ISO 10545 - 14	Manufacturer to state class	Stains removed Min. Class 4



## R.A.K. Ceramics

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