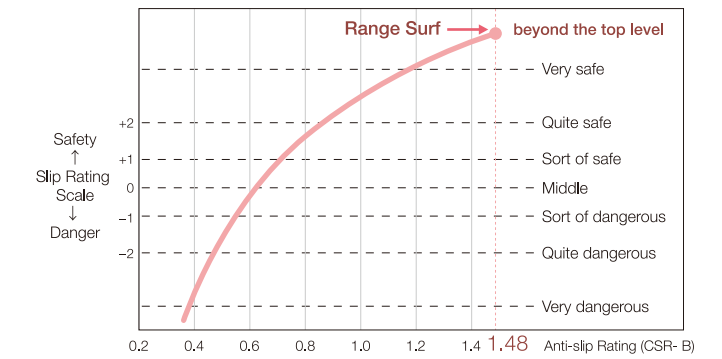


Characteristics of high-performance multi-function tile

1 Anti-slip effect

Slip-resistant special glaze achieved a high CSR and CSR-B score.

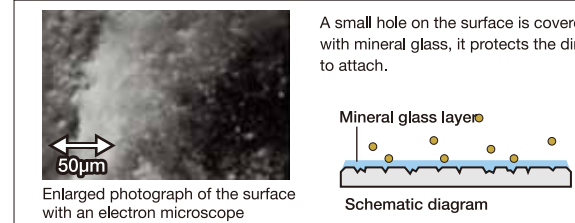
Result	
Item	RANGE SURF
Test Requirement	Test slip resistance
Test Method	Slip testing machine by OY-PSM
	(Inclusion : water + powder for test 1-4)
Slip resistance Result	C.S.R.-B 1.48
C.S.R. Rate	C.S.R 0.61



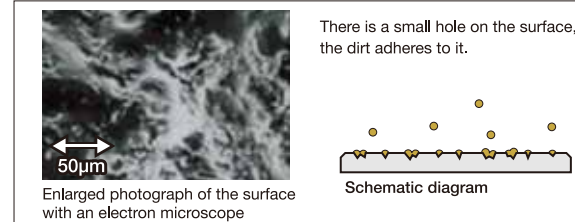
2 Antifouling effect

The mineral glass closes the fine pores of the tile surface to prevent dirt entering.

Range Surf



Regular tile



3 Anti-scratch effect

The mineral glass on the surface has Mohs Hardness 8 (same as Topaz, while Diamond has 10) will have very little scratches.

4 High wear resistance

The glaze satisfies CLASS IV(for heavy traffic) in European Standard, and best suitable for public space floors.

Test items	Standard	Result
Chemical Resistance	EN122	class AA
Abrasion strength (Morse strength)	EN101	8
Water absorption	JIS A 5209	0.02%
Wear resistance	EN154	class IV
Abrasion loss	JIS A 5209	0.03g
Bending fracture load	JIS A 5209	306N/cm×8

Added function CT processing (by custom order)

The characteristic of charge transfer type oxidation-reduction catalyst is excellent in self-cleaning and durability.

- Anti-bacteria, along with the deodorant effect can be expected. It has the effect of cleaning the surrounding environment, such as to decompose the NOx and formaldehyde in the air that touches the CT catalyst layer.

Deodorant effect	The rate of decrease after 24 hours after
Ammonia	99%
Formaldehyde	99%

Antibacterial performance	Escherichia coli	Staphylococcus aureus
Decrease percent bacteria	99.90%	99.90%
Antibacterial activity value	7.5	4.7

Deodorant effect will be recognized at 70% or more. Antibacterial performance is approved antibacterial effect at 2.0 or higher

- The oxidation-reduction reaction decomposes substances that cause stains and dirt. Even if the dirt is on the surface, you can wash it away easily with water due to the high water-repellent effect.
- Regardless of the brightness of the light, it can decompose the dirt and keep the self-cleaning function. The environment adaptive tile does not require any substance of environmental concern.
- After CT catalyst mixed with glaze and fired at high temperature of 1250 or more, the surface hardness can be achieved and be expected self-cleaning effect for a long time.



RGS-150 / R-401

RGS-150 / R-402

RGS-150 / R-403

RGS-150 / R-404



RGS-150 / R-405



RGS-150 / R-406



RGS-150 / R-407



RGS-150 / R-408

RGS-150/
R-401~408
144x144mm
(5.67"x5.67")
Thickness :
9mm (0.35")

Glazed Porcelain Tile

RANGE SURF