

KAKEN**Kaken Test Center** GENERAL INCORPORATED FOUNDATION

2-5-19, Edobori, Nishi-ku, Osaka, 550-0002/ Japan

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Kaken Test Center is formerly named as "Japan Synthetic Textile Inspection Institute Foundation(JSTIIF)".

No.1/2

Test Report No. : OS-15-033450-2

Date : August 27, 2015

TEST REPORT

Requested : Grespania
 Test Sample : Tile 2 Samples
 Test Items : Antibacterial Activity
 Received : August 20, 2015

This is to report that the results of laboratory test applied on the sample are as follows:**1. Test Results****1. *Staphylococcus aureus***

Test Sample *1	The number of viable cells			Photocatalyst Antibacterial activity value (R _L)	Antibacterial activity value in the dark (R _D) (informative)	ΔR
	Immediately after inoculation (A)	After irradiating the UV for 8 hours*2 (B _L , C _L)	After keeping the dark place for 8 hours (B _D , C _D)			
Grespania H&C tile	—	<1.0E+01	<1.0E+01	4.0	4.5	-0.5
Control (Glass plate)	1.7E+05	1.1 E+05	3.9E+05	—	—	—

2. *Escherichia coli*

Test Sample *1	The number of viable cells			Photocatalyst Antibacterial activity value (R _L)	Antibacterial activity value in the dark (R _D) (informative)	ΔR
	Immediately after inoculation (A)	After irradiating the UV for 8 hours*2 (B _L , C _L)	After keeping the dark place for 8 hours (B _D , C _D)			
Grespania H&C tile	—	<1.0E+01	4.9E+02	4.3	2.9	1.4
Control (Glass plate)	2.3E+05	2.2E+05	4.0E+05	—	—	—

*1 Specimens were irradiated with UV ray at an irradiance of 1mw/cm² for 24hours just before the test.*2 UV irradiance : 0.25mW/cm²

(To be continued on No.2/2)

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No.2/2

Test Report No. : OS-15-033450-2

Date : August 27, 2015

TEST REPORT

(continued from No.1/2)

2. Test Method: JIS R 1702 :2012(Film adhesion method)
Test Bacteria : *Staphylococcus aureus* NBRC 12732
Escherichia coli NBRC 3972

3. Sample:

Sample Omitted

Kaken Test Center General Incorporated Foundation
Osaka Laboratories
Biological Test Laboratory

Inspector : 中曾根寿明
T.Nakasone

Period.