

TEST REPORT

TEST REPORT AS PER: CUSTOMER REQUIREMENT

TEST REPORT NO. PEL/ED/11900325A			NAME & ADDRESS OF MANUFACTURER Diamond international index pvt ltd ,plot no 98,sec8,IMT Manesar, gurgaon Haryana 122050
ULR NO. TL0110125003121F			
DATE OF ISSUE OF TEST REPORT: 12/05/2025			
Customer Ref. & Date if any: Nil			
Date of Sample Receipt: 29/04/2025	Start of Test Date: 29/04/2025	End of Test Date: 12/05/2025	

PART A - PARTICULARS OF THE SAMPLE SUBMITTED

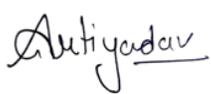
NATURE OF SAMPLE	GRG CEILING Tile
Grade/ Variety/ Type/ Class/ Size/Model.	Size: 595x595x12 mm
Declared Values, if any (declared by the manufacturer).	Nil
Sr. No	Nil
BIS Seal and IO's sign. If any.	Nil
Batch no., Date of manufacture	Nil
Brand Name /Model No.	Brand:  Main model – GRG CEILING TILES SERIES MODEL - 1117
Quantity of Samples	2 No.
Condition of the Sample when received.	OK
Standard Reference	As per customer requirement
Environmental Conditions.	Temperature 25 ± 1°C & Relative Humidity<65%

PART B - SUPPLEMENTARY INFORMATION

- a) Deviations from the test methods as per relevant specification/ work instructions, if any : NIL
b) Details of the drawings, graphs, tables, sketches or photographs as referred in the test report, if any : NIL

Notes:

- i) This report is not to be reproduced wholly or in part without our special permission in writing.
ii) This report refers only to the particular sample detailed above.
iii) The results reported in this certificate are valid at the time of and under the stipulated conditions of measurement.
iv) Sample will be disposed off after 30 days of issue of test report if no any further information is received.
v) Any recognition claim in the test report is solely for promotional/advertising purpose and has no relation with the content of the report.

Tested by	Reviewed and Authorized by	Issued By
		
Ms. ARTI YADAV TESTING ENGINEER Date:12/05/2025	MANEESH KUMAR GOLE HOD Date:12/05/2025	Durgesh Kumar Singh (I.C.S.) Date:12/05/2025

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Summary of the Procedure

- The test microorganism is prepared, usually by growth in a liquid culture medium.
- The suspension of test microorganism is standardized by dilution in a nutritive broth (this affords microorganisms the opportunity to proliferate during the test).
- Control and test surfaces are inoculated with microorganisms, and then the microbial inoculum is covered with a thin, sterile film. Covering the inoculum spreads it, prevents it from evaporating, and ensures close contact with the antimicrobial surface.
- Microbial concentrations are determined at "time zero" by elution followed by dilution and plating to agar.
- A control is run to verify that the neutralization/elution method effectively neutralizes the antimicrobial agent in the antimicrobial surface being tested.
- Inoculated, covered control and antimicrobial test surfaces are allowed to incubate undisturbed in a humid environment for 24 hours, usually at body temperature.
- After incubation, microbial concentrations are determined. Reduction of microorganisms relative to the control surface is calculated.

Criteria for Scientific Defensibility of a JISZ2801

For Antimicrobial Test Laboratories to consider a JISZ2801 study to be scientifically defensible, the following criteria must be met:

1. The average number of viable bacteria recovered from the time zero samples must be approximately 1×10^4 cells/cm² or greater.
2. Ordinary consistency between replicates must be observed for the time zero samples.
3. The number of viable bacteria recovered from the control surface after the contact time must not be significantly ($>2\text{-Log}_{10}$) less than the original inoculum concentration.
4. Positive/Growth controls must demonstrate growth of appropriate test microorganism.
5. Negative/Purity controls must demonstrate no growth of test microorganism.

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Passing Criteria

JIS specifies a performance criteria for antimicrobial efficacy of greater than or equal to a 2 Log₁₀ or 99% reduction in the test microorganisms when comparing the treated surface to the control surface after the contact time. Alternatively, passing criteria may be determined by the Study Sponsor in accordance with pertinent governmental regulations.

Testing Parameters used in this Study

Sr. No.	Testing Parameters	Result
1.	Test Substance Size	595mmx595mmx12mm
2.	Film Used?(Size):	Yes(595mmx595mmx12mm)
3.	Culture Growth Media:	TSB and PDA
4.	Culture Growth Time	18 hours
5.	Culture Dilution Media:	1:500 Nutrient Broth
6.	Culture Dilution Supplement	N/A
7.	Inoculum Concentration	2.3x10 ⁵ CFU/Carrier
8.	Inoculum Volume	0.400mL
9.	Contact Time	24hours
10.	Contact Temp	36°C± 1°C
11.	Neutralizer	D/EBroth(10mL)
12.	Incubation Temperature	36°C ±1°C
13.	Incubation Time	24-48hours

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Control Result:

Sr. No.	Parameters	Result
1.	Neutralization Method	Validated
2.	Growth Confirmation	Confirmed
3.	Media Sterility	Sterile

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Calculations:

$$\text{Percent Reduction} = \left(\frac{B - A}{B} \right) \times 100$$

$$\text{Log}_{10} \text{Reduction} = \text{Log} \left(\frac{B}{A} \right)$$

Where:

A = Number of viable test microorganisms on the test carriers after the contact time

B = Number of viable test microorganisms on the control carriers after the contact time

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Results of the Study

Test Microorganism	Contact Time	Carrier Type	CFU/Carrier	Average CFU/Carrier	Percent Reduction Compared to Control at Contact Time	Log ₁₀ Reduction Compared to Control at Contact Time		
<i>S.aureus</i> 6538	Time Zero	Control	4.75E+05	5.87E+05	N/A			
			6.80E+05					
			6.05E+05					
	24Hours	Control	3.70E+06	2.82E+06				
			5.05E+06					
			3.40E+06					
		Urochem Moulding Compound	<5.00E+00	<5.00E+00			>99.9998%	>5.75
			<5.00E+00					
			<5.00E+00					

Test Microorganism	Contact Time	Carrier Type	CFU/Carrier	Average CFU/Carrier	Percent Reduction Compared to Control at Contact Time	Log ₁₀ Reduction Compared to Control at Contact Time		
<i>E.coli</i> 8739	Time Zero	Control	3.20E+05	3.50E+05	N/A			
			4.55E+05					
			2.75E+05					
	24Hours	Control	3.30E+05	8.27E+05				
			1.10E+06					
			1.06E+06					
		Urochem Moulding Compound	<5.00E+00	<5.00E+00			>99.9994%	>5.22
			<5.00E+00					
			<5.00E+00					

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Test Microorganism	Contact Time	Carrier Type	CFU/Carrier	Average CFU/Carrier	Percent Reduction Compared to Control at Contact Time	Log ₁₀ Reduction Compared to Control at Contact Time		
<i>C.albicans</i> 10231	Time Zero	Control	1.95E+05	2.18E+05	N/A			
			2.05E+05					
			2.55E+05					
	24Hours	Control	1.05E+05	6.68E+04				
			1.00E+03					
			9.50E+04					
		Urochem Moulding Compound	5.80E+04	2.92E+04			56.36%	0.36
			6.50E+03					
			2.30E+04					

Test Microorganism	Contact Time	Carrier Type	CFU/Carrier	Average CFU/Carrier	Percent Reduction Compared to Control at Contact Time	Log ₁₀ Reduction Compared to Control at Contact Time		
<i>E.faecalis</i> 19433	Time Zero	Control	3.75E+05	3.52E+05	N/A			
			3.05E+05					
			3.75E+05					
	24Hours	Control	4.90E+05	3.07E+05				
			3.75E+05					
			5.45E+04					
		Urochem Moulding Compound	2.92E+03	<2.21E+03			>99.28%	>2.14
			<5.00E+00					
			3.70E+03					

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Test Microorganism	Contact Time	Carrier Type	CFU/Carrier	Average CFU/Carrier	Percent Reduction Compared to Control at Contact Time	Log ₁₀ Reduction Compared to Control at Contact Time		
<i>A.baumannii</i> 19606	Time Zero	Control	2.85E+05	3.23E+05	N/A			
			3.55E+05					
			3.30E+05					
	24Hours	Control	2.41E+07	1.62E+07				
			5.50E+06					
			1.90E+07					
		Urochem Moulding Compound	1.00E+01	<6.67E+00			>99.99996%	>3.89
			<5.00E+00					
			<5.00E+00					

Test Microorganism	Contact Time	Carrier Type	CFU/Carrier	Average CFU/Carrier	Percent Reduction Compared to Control at Contact Time	Log ₁₀ Reduction Compared to Control at Contact Time		
<i>P.aeruginosa</i> 9027	TimeZero	Control	3.35E+05	3.57E+05	N/A			
			3.25E+05					
			4.10E+05					
	24Hours	Control	2.56E+07	2.08E+07				
			1.84E+07					
			1.84E+07					
		Urochem Moulding Compound	<5.00E+00	<5.00E+00			>99.99998%	>3.62
			<5.00E+00					
			<5.00E+00					

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Test Microorganism	Contact Time	Carrier Type	CFU/Carrier	Average CFU/Carrier	Percent Reduction Compared to Control at Contact Time	Log ₁₀ Reduction Compared to Control at Contact Time		
<i>S.marcescens</i> 13880	Time Zero	Control	1.20E+06	1.23E+06	N/A			
			1.25E+06					
			1.25E+06					
	24Hours	Control	1.99E+08	1.34E+08				
			1.26E+08					
			7.60E+07					
		Urochem Moulding Compound	<5.00E+00	<5.00E+00			>99.999996%	>3.604
			<5.00E+00					
			<5.00E+00					

Test Microorganism	Contact Time	Carrier Type	CFU/Carrier	Average CFU/Carrier	Percent Reduction Compared to Control at Contact Time	Log ₁₀ Reduction Compared to Control at Contact Time		
<i>S.aureus</i> 33592	Time Zero	Control	5.10E+05	4.42E+05	N/A			
			4.75E+05					
			3.40E+05					
	24Hours	Control	4.85E+06	2.77E+06				
			1.05E+06					
			2.40E+06					
		Urochem Moulding Compound	<5.00E+00	<5.00E+00			>99.99982%	>3.6
			<5.00E+00					
			<5.00E+00					

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Test Microorganism	Contact Time	Carrier Type	CFU/Carrier	Average CFU/Carrier	Percent Reduction Compared to Control at Contact Time	Log ₁₀ Reduction Compared to Control at Contact Time		
<i>E. faecalis</i> 13048	Time Zero	Control	5.10E+05	4.52E+05	N/A			
			5.60E+05					
			2.85E+05					
	24Hours	Control	2.12E+07	2.98E+07				
			2.66E+07					
			4.16E+07					
		Urochem Moulding Compound	<5.00E+00	<5.00E+00			>99.99998%	>3.54
			<5.00E+00					
			<5.00E+00					

Summary: The **Urochem Moulding Compound** was evaluated in accordance with the **JIS Z 2801 standard**, which is designed to assess the antimicrobial efficacy of treated surfaces. The test involved inoculating the material with a variety of bacterial and fungal strains and measuring the reduction in viable microorganisms after a **24-hour contact period at 36 °C ±1 °C** in a controlled, humid environment.

These results meet and exceed the minimum passing requirement outlined in the JIS Z 2801 standard, confirming the product's strong antibacterial performance.

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PHOTOGRAPH



*****The End of Report*****

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