



# SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

(A unit of Shriram Scientific and Industrial Research Foundation)

19, University Road, Delhi – 110007 (India)  
An ISO - 9001, 14001 & OHSAS 18001 Certified Institute

Website : [www.shriraminstitute.org](http://www.shriraminstitute.org)  
E-mail id : [customercare@shriraminstitute.org](mailto:customercare@shriraminstitute.org)

## TEST CERTIFICATE

NO : C1/0000214744

### Issued To :

Client Code : (RRDT01A2139)  
AEROLITE INDUSTRIES PVT. LTD.  
SY NO. 918/A, PART 918/C PART 918/B/I PART 919/C PART  
919/B/4, MEKAGUDA VILLAGE, NANDIGAMA MANDAL  
RANGAREDDI DISTRICT  
TELANGANA-509223  
Kind Attn: MR. SHREYANS KHEMKA, MD

Date : 21-03-2020  
Job No : 2003-1-111-245  
Booking No : RG1920/1/15022  
Booking Date : 03-03-2020  
Customer Ref No. : JOB ORDER NO. - AIPL/JOB/178  
Customer Ref Dt. : 25-02-2020

### Sample Particulars:

One sample of Calcium Silicate False Ceiling Tiles brand "AEROLITE" full size tile of 595 x 595 mm of nominal thickness - 15 mm (with Bio-Safe), marked as 'Sample A', Ref No: Aerolite Ceiling, Systems/21012020 was received.

"The sampling was not carried out by Shriram Institute for Industrial Research. The sample details provided in test certificate are based on declaration by the party."

**Product Details-** Calcium Silicate False Ceiling Tiles brand "AEROLITE"  
**Test-** Determination of Anti Bacterial Activity and Efficacy of Calcium Silicate False Ceiling Tiles brand "AEROLITE"  
**Protocol-** As per JIS-Z2801-2010  
**Test Organisms-**  
**a) Bacteria-** *Escherichia coli* and *Staphylococcus aureus*  
**Sample Size** 50 mm x 50 mm each piece

### A) Antibacterial Activity and Efficacy against *Escherichia coli*

| S. No. | Untreated sample                                                                 | Count per piece of control (in cfu/piece) | Conc. of Inoculum (Average count, in cfu/piece) |
|--------|----------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------|
| 1      | Number of bacteria inoculated per piece at 0 hrs (U <sub>0</sub> )               | 6.7 x 10 <sup>4</sup>                     | 6.9 x 10 <sup>4</sup>                           |
|        |                                                                                  | 7.0 x 10 <sup>4</sup>                     |                                                 |
|        |                                                                                  | 6.9 x 10 <sup>4</sup>                     |                                                 |
| 2      | Number of bacteria inoculated per piece after 24 hrs incubation(U <sub>t</sub> ) | 6.2 x 10 <sup>5</sup>                     | 6.3 x 10 <sup>5</sup>                           |
|        |                                                                                  | 6.6 x 10 <sup>5</sup>                     |                                                 |
|        |                                                                                  | 6.2 x 10 <sup>5</sup>                     |                                                 |

AUTHORISED SIGNATORY  
EMPLOYEE CODE: (5419)

GC-01(Rev-05)

1/2

Scanned copies/photocopies or any other copies should be authenticated by reference to the original report.

Phone : 91-11-27000100, 27667267, 27667860

Fax : 91-11-27667207

See overleaf for terms & conditions



# SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

(A unit of Shriram Scientific and Industrial Research Foundation)

19, University Road, Delhi – 110007 (India)  
An ISO - 9001, 14001 & OHSAS 18001 Certified Institute

Website : [www.shriraminstitute.org](http://www.shriraminstitute.org)  
E-mail id : [customercare@shriraminstitute.org](mailto:customercare@shriraminstitute.org)

## TEST CERTIFICATE

NO : C1/0000214744

| S. No. | Treated sample (Tile)                                       | Count per piece of control (in cfu/piece) | Conc. of Inoculum (Average count in cfu) (At) | Antibacterial Activity after 24 hrs ( $U_t - A_t$ ) |
|--------|-------------------------------------------------------------|-------------------------------------------|-----------------------------------------------|-----------------------------------------------------|
| 3      | Number of bacteria inoculated per piece at 24 hrs ( $A_t$ ) | Less than 1<br>Less than 1<br>Less than 1 | Less than 1                                   | 5.80                                                |

### B) Antibacterial Activity and Efficacy against *Staphylococcus aureus*

| S. No. | Untreated sample                                                          | Count per piece of control (in cfu/piece)                   | Conc. of Inoculum (Average count, in cfu/piece) |
|--------|---------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------|
| 1      | Number of bacteria inoculated per piece at 0 hrs ( $U_0$ )                | $5.0 \times 10^4$<br>$5.4 \times 10^4$<br>$5.4 \times 10^4$ | $5.3 \times 10^4$                               |
| 2      | Number of bacteria inoculated per piece after 24 hrs incubation ( $U_t$ ) | $4.6 \times 10^5$<br>$5.0 \times 10^5$<br>$4.7 \times 10^5$ | $4.8 \times 10^5$                               |

| S. No. | Treated sample (Tile)                                       | Count per piece of control (in cfu/piece) | Conc. of Inoculum (Average count in cfu) (At) | Antibacterial Activity after 24 hrs ( $U_t - A_t$ ) |
|--------|-------------------------------------------------------------|-------------------------------------------|-----------------------------------------------|-----------------------------------------------------|
| 3      | Number of bacteria inoculated per piece at 24 hrs ( $A_t$ ) | Less than 1<br>Less than 1<br>Less than 1 | Less than 1                                   | 5.68                                                |

**Interpretation:** The antibacterial activity and Efficacy of Calcium Silicate False Ceiling Tiles brand "AEROLITE" was found 5.80 against *Escherichia coli* and 5.68 against *Staphylococcus aureus*, which are above the value of 2.0 as per JIS-Z2801, Hence we confirm the sample passes the test in this regard.

\*\*\*\*\*

DOR: 03.03.2020

DOC: 21.03.2020

AUTHORISED SIGNATORY

EMPLOYEE CODE: (5419)

GC-01(Rev-05)

2/2

Scanned copies/photocopies or any other copies should be authenticated by reference to the original report.

Phone : 91-11-27000100, 27667267, 27667860

Fax : 91-11-27667207

See overleaf for terms & conditions