



ACOUSTIC TEST REPORT – CSIR, INDIA.



सी एस आई आर - राष्ट्रीय भौतिक प्रयोगशाला
CSIR-NATIONAL PHYSICAL LABORATORY

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)

(Council of Scientific and Industrial Research)

राष्ट्रीय मापकी संस्थान (एनएमआई), सदस्य बीआईपीएम एवं हस्ताक्षरकर्ता सीआईपीएम - एमआरए
(National Metrology Institute (NMI), Member BIPM and Signatory CIPM - MRA)

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परीक्षण रिपोर्ट
TEST REPORT

Sound Transmission Loss

दिनांक/Date	रिपोर्ट संख्या/Report No.	पृष्ठ /Page	पृष्ठों की संख्या /No. of Pages
03-11-2021	21100806/D1.07/T-075	1	2

- Tested for : M/s. Greenlam Industries. Ltd.,
Plot No.: E/176-179, SP 2, Phase-II,
RIICO Industrial Area, P.O.-Behror,
Dist.-Alwar (Rajasthan)-301701
Customer Ref. No.: Nil
Dated 28/09/2021
- Description and Identification of Items : Engineering Door (Laminated Surface)
(Sample size - 930 mm x 630 mm x 44 mm),
- Environmental Conditions : Room Temperature: 25.0 ± 5.0 0C
Relative Humidity: 50.0 ± 20.0 %RH
- Standards used and Associated Uncertainty : Dual channel Acoustic Analyzer with
Working Standard Microphone
: ±0.4 dB to 0.6 dB
- Traceability of Standard Used : The standards used for testing are traceable to
National Standards which realize the units of quantities
according to the International System of Units (SI).
- Principle/Methodology of Testing Test Procedure No. : IS:9901 (Part III)-1981, DIN:52210 Part 1-1983-08,
ISO: 10140 (Part II) / ASTM-E-90,
"Measurement of Sound Insulation in Building
and of Building Elements"
Part III: Laboratory Measurements of Airborne
Sound Insulation in Building and of Building
Elements
Sub-Div # 1.07/Doc. 3/ TP # 15
- Results:

As requested by the party, the acoustical material was tested for its airborne sound insulation by using two reverberation chambers under existing environmental conditions. The sample was fixed in the common opening between the two chambers. The volume of the source room was 257 m³ and that of the receiver room was 271 m³. Adequate diffusion excited in both the chambers.

परीक्षणकर्ता:

Tested by :

(Dr. Chitra Gautam)

जाँचकर्ता:

Checked by :

(Dr. Naveen Garg)

प्रभारी वैज्ञानिक:

Scientist-in-charge:

(Dr. Naveen Garg)

जारीकर्ता:

Issued by:



डॉ० सुशील कुमार
Dr. Sushil Kumar



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Using filtered noise in 1/3-octave band, the airborne sound insulation index was evaluated by measuring the average sound pressure levels generated in the source room and the receiver room and by measuring the equivalent absorption in the receiver room. The results are given below:

1/3-Octave Band Center Frequency (Hz)	Airborne Sound Insulation Index (dB)
100	20
125	16
160	14
200	22
250	17
315	24
400	25
500	28
630	29
800	29
1000	32
1250	34
1600	34
2000	37
2500	39
3150	41
4000	41

Using the standard reference curve, the sound transmission class (STC) was found to be 31.

The evaluated expanded uncertainty in measurement is ± 1.6 dB in frequency range 100 Hz to 500 Hz and is ± 1.4 dB in frequency range 500 Hz to 4 kHz, which is at a coverage factor $k = 2$ and which corresponds to a coverage probability of approximately 95% for normal distribution.

8. Date of Testing : 02-11-2021

9. Remarks : Nil

परीक्षणकर्ता:
Tested by :

(Dr. Chitra Gautam)

जाँचकर्ता:

Checked by :

(Dr. Naveen Garg)

जारीकर्ता:

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