

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

(वैज्ञानिक तथा औद्योगिक अनुसंघान परिषद्) (Council of Scientific and Industrial Research)

डॉ. के. एस. कृष्णन मार्ग, नई दिल्ली-110012, मारत

Dr. K.S. Krishnan Marg, New Delhi-110012, INDIA

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परीक्षण रिपोर्ट **TEST REPORT**

Sound Transmission Loss

	3000 - 100 00 - 100 00 00 00 00 00 00 00 00 00 00 00 00		परीक्षण रिपोर्ट संख्या/Tes	st Report No.	पृष्ठ/Page	पृष्ठों की संख्या / No. of Pages	
			18121156/D1.07/T-083		1	2	
	1.	1. Tested for		: M/s. Envirotech Systems Pvt. Ltd. B-1A/19, First Floor, Commercial Complex, Sector-51, Noida – 201 307 (UP) Customer Ref. No.: Nil dated 05/12/2018			
	2.		ription and fication of Items	: 86 mm thick, 'Environtech' Wooden Sandwitched Acoustic Door Panel, in filled with Acoustic Insulation Material			
				(Sample size - 93	0 mm x 630 m	nm x 86 mm),	
	3.	. Envir	onmental Conditions	: Room Temperature: 20.0 ± 5 0 C Relative Humidity: 50.0 ± 20 %RH			
	4.		ards used and ciated Uncertainty	: Working Standar ± 0.2 dB	d Microphone	,	
	5.	Trace	ability of Standard Used	: The standards use National Standard		are traceable to	
	6.		ple/Methodology of Testing est Procedure No.	: IS: 9901 (Part III IS0: 10140 (Part I "Measurement of and of Building E Part III: Laborato Sound Insulation	I) – 2016, Sound Insulat Elements" ry Measureme	ents of Airborne	

7. 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.

Sub-Div # 1.07/A/Doc. 3/ TP # 15

Elements

परीक्षणकर्ताः Tested by:

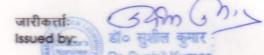
(Dr. Y. K. Yadav)

जाँचकर्ताः

Checked by (Dr. Kirti Soni)

प्रभारी वैज्ञानिकः

Scientist-in-charge: Mahavir Singh)





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परीक्षण रिपोर्ट **TEST REPORT**

Sound Transmission Loss

दिनांक/Date	परीक्षण रिपोर्ट संख्या/Test Report No.	पृष्ठ/Page	पृष्ठों की संख्या / No. of Pages
07-12-2018	18121156/D1.07/T-083	2	2

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	Airborne Sound Insulation Index
(Hz)	(dB)
100	21
125	21
160	27
200	31
250	31
315	36
400	43
500	45
630	45
800	48
1000	49
1250	51
1600	53
2000	54
2500	54
3150	54
4000	56

Using the standard reference curve, the sound transmission class (STC) was found to be 45.

The evaluated uncertainty in measurement is \pm 1.0 dB 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

: 06-12-2018

9. Remarks

: Nil

परीक्षणकर्ताः Tested by (Dr. Y. K. Yadav)

जाँचकर्ताः Checked byr. Kirti Soni) प्रभारी वैज्ञानिकः

Scientist-in-charge: Mahavir Singh)

जारीकर्ता