



Prasar Bharati
Public service Broadcaster of India
O/o ADG(E), Research & Development, AIR & DD
14-B, I. P. Estate, Ring Road, New Delhi – 110002



Test Report No. - 13/2019-20

Testing Place: Acoustic Lab

Dated :27.08.2019

Description of test Specimen and Test Laboratory			
Client	M/s Star Comfort Industries	Type of Mounting	A Type
Representative	Mr. Sudarshan Vagale	Volume of RT Room	151.1 m ³
Sample name	50 mm Thick 'Star Absorb' polyester Insulation(1000 GSM)	Surface Area RT Room	191.1 m ²
Test combination	50 mm Thick 'Star Absorb' polyester Insulation(1000 GSM)	Temperature	31.5 °C
Surface area of Sample	12 m ²	Humidity	14 %
Sample fixed by	Lab Staff	Type of Noise	Pink
Thickness	50 mm.	Equipment	Building Acoustic Analyzer
Density	1000 GSM		

Prepared By

Approved by

V. K. Pal
27/8/19
Asstt. Engineer

WPL
27/8/19
Dy. Director (E)
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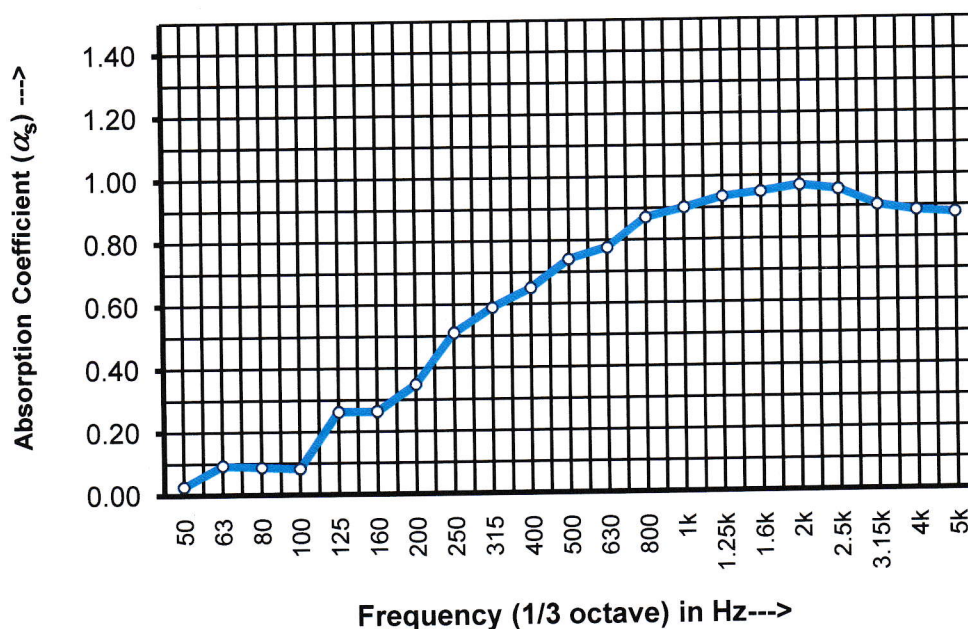
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Sample name: 50 mm Thick Star AbsorB polyester Insulation (1000 GSM)

Reverberation Time Data:

Freq (Hz)	50	63	80	100	125	160	200	250	315	400	500	630
Te (Sec)	11.04	6.54	6.47	6.22	5.87	5.36	4.50	4.87	4.39	4.54	4.77	4.70
Tm (Sec)	9.65	5.02	5.05	4.95	3.31	3.14	2.52	2.17	1.91	1.83	1.72	1.66
Freq (Hz)	800	1.00 K	1.25 K	1.60 K	2.00 K	2.50 K	3.15 K	4.00 K	5.00 K			
Te (Sec)	4.36	4.13	4.17	3.95	3.77	3.52	3.23	2.81	2.37			
Tm (Sec)	1.50	1.44	1.41	1.37	1.33	1.31	1.31	1.25	1.16			

Absorption Characteristics



MEASURED DATA:

0.779

NRC: 0.80

Freq (Hz)	50	63	80	100	125	160	200	250	315	400	500	630
ABS. Coef	0.03	0.09	0.09	0.08	0.26	0.26	0.35	0.51	0.59	0.65	0.74	0.78
Freq (Hz)	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k			
ABS. Coef	0.87	0.90	0.93	0.95	0.97	0.95	0.90	0.88	0.88			

Method of Measurement and Evaluation :

IS:8225/ ISO: 354/ ASTM 423C

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