



सत्यमेव जयते

प्रसारभारती/PRASARBHARATI

भारतकालोकप्रसारक/INDIA'S PUBLIC SERVICE BROADCASTER

कार्यालयअपरमहानिदेशक)अनुसंधानएवंविकास/O/O ADDITIONAL DIRECTOR GENERAL (R&D)

अनुसंधानविभाग ,आकाशवाणीएवंदूरदर्शन/RESEARCH DEPARTMENT, ALL INDIA RADIO &DOORDARSHAN

14-बी,इन्द्रप्रस्थइस्टेट,रिंगरोड/14-B, I.P.ESTATE. RING ROAD,

नईदिल्ली-110002/NEW DELHI -110002



सत्यम् शिवम् सुन्दरम्

Test Report No.: 18/2024-25

File:RD (Acoustic) AIR/TV/2024-25)

Dated: 17.09.2024

To
M/s Diamond International Inex Pvt Ltd
Plot no.98,Sec.8,IMTManesar,Gurugram,
Haryana,122050
India

Testing Place: Acoustic Lab (R&D)

Description of Test Specimen		Description of Test Laboratory	
Company	M/s Diamond International Inex Pvt. Ltd	Type of Mounting	EType
Representative	Sh. Raman Mehta	Volume of RT room	151.1 m ³
Sample name	NRC Test for the product details are: 1. Metal Ceiling Tiles of Size: 595 x 595 MM with Perforation, Powder Coated. 2. Item No RA 24, Perforation Size 1.8 MM 3. Material is GI Coil 4. Material Thickness 0.5 MM Metal perforated ceiling Tiles with 400 mm air gap	Surface Area	191.1 m ²
Test Combination	As above	Temperature	27.5 ⁰ C
Sample assembled by	'Company' Staff	Humidity	63.6%
Surface area of Sample	10.8m ²	Type of noise used	Pink
Thickness	Mentioned as above	Measuring equipment	(B&K) Building Acoustic Analyzer 2270
Density	N.A.	Microphone & Preamp.	(B&K) 1/2" Free Field 4189 mike, ZC0032 (B&K) Preamp.
		Sound Source	(B&K) Omni Power 4292-L
		Power Amplifier	(B&K) Type 2734

(Signature)
17-09-2024
(ArunEkka)
अनुसंधान विभाग/Research Deptt.
अनुसंधान विभाग/All India Radio & Doordarshan
14-बी, इन्द्रप्रस्थ एस्टेट रिंग रोड, नई दिल्ली 110002
14-B, I.P. Estate, Ring Road, New Delhi 110002

Tel. 01144714793, E-mail: cerdaidd@gmail.com, acousticlabairdd@gmail.com.

(Signature)
19/9/2024
(Rajesh Kumar)
Deputy Director (Engg.)
उप निदेशक (अभि.)/Deputy Director (Engg.)
अनुसंधान विभाग/Research Department
आकाशवाणी एवं दूरदर्शन/AIR & Doordarshan
14-बी, इन्द्रप्रस्थ एस्टेट रिंग रोड, नई दिल्ली 110002
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Test Report No.:18/2024-25

Testing Place: Acoustics Lab (R&D)

Company: M/s Diamond InternationalInex Pvt. Ltd

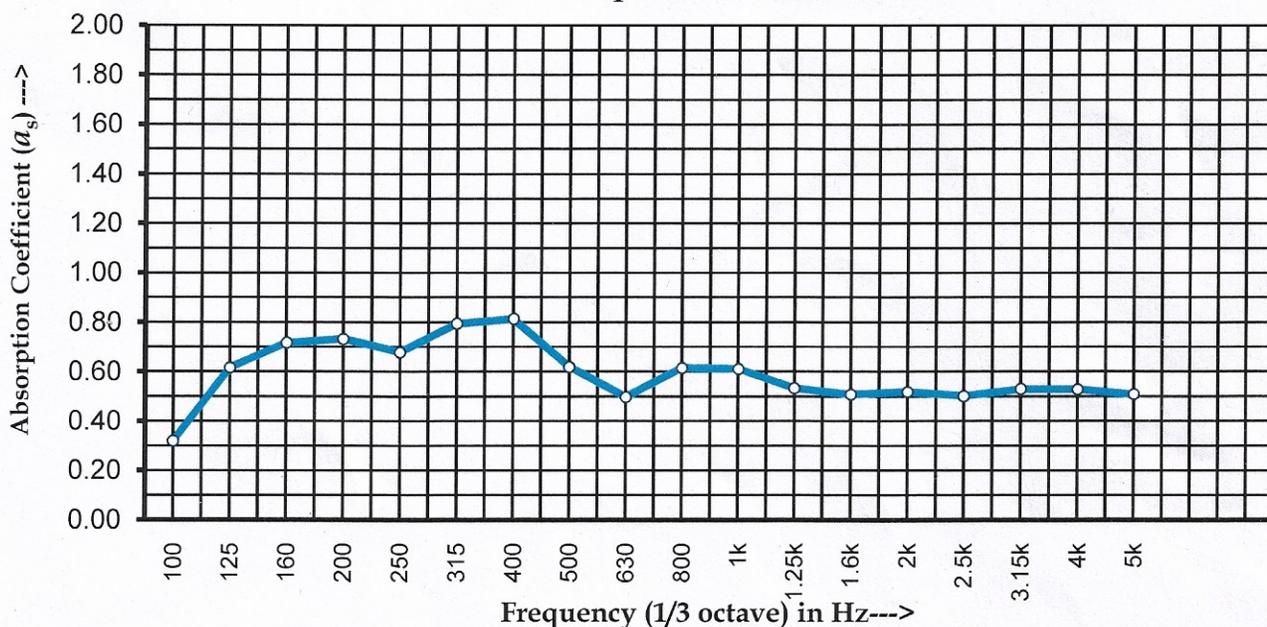
Sample:1. Metal Ceiling Tiles of Size: 595 x 595 MM with Perforation, Powder Coated. 2. Item No RA 24, Perforation Size 1.8 MM

3. Material is GI Coil4. Material Thickness 0.5 MM, Metal perforated ceiling Tiles with 400 mm airgap

Measured Data:

Freq (Hz)	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k
Te (Sec)	5.84	5.61	5.15	4.23	3.98	4.37	4.54	4.65	4.64	4.46	4.38	4.18	3.99	3.81	3.57	3.33	2.99	2.57
Tm (Sec)	3.18	2.20	1.94	1.77	1.80	1.71	2.03	2.28	2.00	1.99	2.09	2.09	2.02	1.98	1.86	1.75	1.62	1.49

Absorption Characteristics



NRC: 0.6

Method of Measurement and Evaluation:IS: 8225/ ISO: 354/ ASTM 423C

Freq (Hz)	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k
ABS. Coef	0.32	0.62	0.72	0.73	0.68	0.79	0.81	0.62	0.50	0.61	0.61	0.53	0.51	0.52	0.50	0.53	0.53	0.51

(ArunEkka)
Assistant Director (E)

अनुसंधान विभाग / Arun Ekka
अनुसंधान विभाग / Research Dept.
आकाशवाणी एवं दूरदर्शन / All India Radio & Doordarshan
14-बी, इन्द्रप्रस्थ एस्टेट रिंग रोड, नई दिल्ली 110002
14-B, I.P. Estate, Ring Road, New Delhi 110002

Tel. 01144714792 E-mail: ardaidd@gmail.com, acousticslabairdd@gmail.com.

(Rajesh Kumar)
राजेश कुमार / RAJESH KUMAR
उप-निदेशक (इंजी.) / Deputy Director (Engg.)
अनुसंधान विभाग / Research Department
आकाशवाणी एवं दूरदर्शन / AIR & Doordarshan
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