

**TEST REPORT**

**Report No. : MAN:HL:948006312**

**DATE : 30<sup>th</sup> November, 2018**



**SENSES AKUSTIK+™**  
 PLOT NO 744, NEW GIDC GUNDLAV,  
 GUJARAT  
 INDIA  
**CONTACT PERSON : MR. SUMIT SHARMA**

**THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :**

<b>SAMPLE DESCRIPTION</b>	THE TEST SPECIMEN CONSISTED OF 12mm THICK SENSES AKUSTIK+™ PANEL 25-ACOUSTIC WALL PANELS. THE 3000 mm BY 3600 mm SAMPLE CONSISTED OF 15 PANELS, EACH MEASURING 600 mm BY 1200 mm. THE SAMPLE WAS INSTALLED ON THE FLOOR OF OUR 16400 CUBIC FOOT REVERBERATION CHAMBER. THE POLYESTER FIBER PANELS WEIGHED 2400 grams/sq. METER
<b>SKU NO./ITEM NO.</b>	SENSES AKUSTIK+™ PANEL
<b>BUYER</b>	SENSES AKUSTIK+™
<b>COUNTRY OF DESTINATION</b>	INDIA
<b>COUNTRY OF ORIGIN</b>	INDIA
<b>SAMPLE RECD ON</b>	27/09/2018
<b>TEST PERFORMING DATE</b>	12/11/2018 TO 30/11/2018

**SUMMARY OF TEST RESULTS:**

TEST REQUESTED	CONCLUSION
ISO 354:2003 Acoustics - Measurement of sound absorption in a reverberation room	See Results

**TEST METHOD & RESULT(S)** PLEASE REFER TO NEXT PAGE(S)

Per Pro SGS India Pvt. Ltd.



**Sandip Bhushan (Asst. Manager)**  
**Authorized Signatory**

Email your Test Report Related Enquiries at [Feedback.HLT@sgs.com](mailto:Feedback.HLT@sgs.com)

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Test item: Sound absorption coefficient

I. Test method

ISO 354:2003 Acoustics - Measurement of sound absorption in a reverberation room

II. Sample Details

Dimensions	1200mm × 600mm × 12mm
Surface density	About 2.2kg/m <sup>2</sup>

III. Test condition

Ambient temperature	/	Relative humidity	/
Volume reverberation room	200m <sup>3</sup>	Test area	10.08m <sup>2</sup>
Description of test arrangement	The samples were installed on the center area of the test room used C50 steel furring. The back cavity is 50mm. The samples were used by 40mm thickness of reinforced concrete slab to enclosure.		

IV. Test result

Noise Reduction Coefficient: NRC=0.75

Average Absorption Coefficient  $\alpha_s$  (100Hz~5000Hz): 0.71

Note: NRC is the arithmetic average of absorption coefficient contained four octave frequency bands (250, 500, 1000, 2000 Hz).

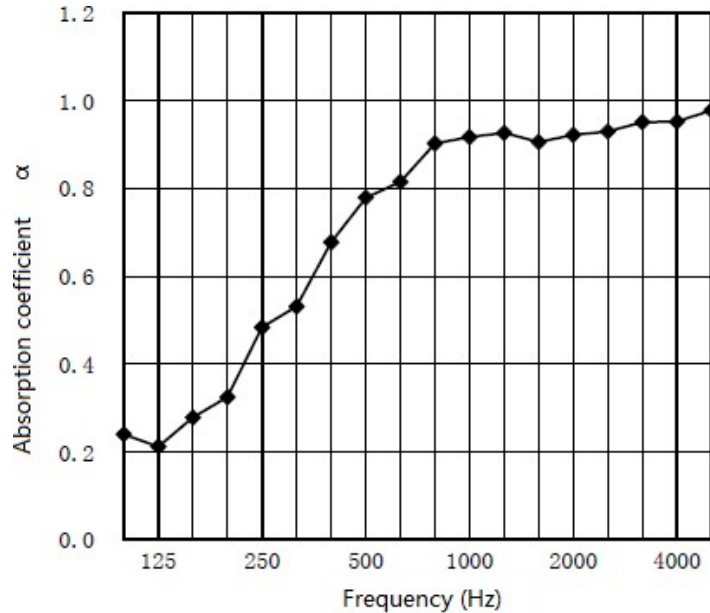
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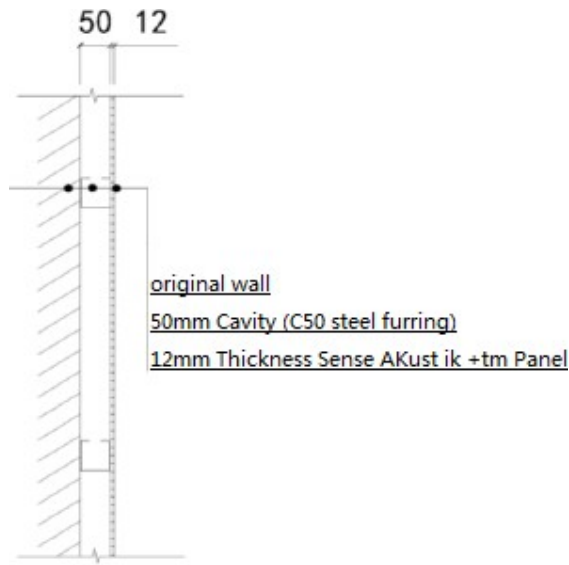
Frequency Hz	Absorption coefficient, $\alpha$
100	0.24
125	0.21
160	0.28
200	0.33
250	0.48
315	0.53
400	0.68
500	0.78
630	0.82
800	0.90
1000	0.92
1250	0.93
1600	0.91
2000	0.92
2500	0.93
3150	0.95
4000	0.95
5000	0.98
$\bar{\alpha}$	0.71
NRC	0.75



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Test schematic diagram:



Note : Testing has been performed as per client's request  
Testing has been subcontracted to SGS overseas lab.

Sample photo:

