India's Best Sound-proofing Elastomers

MAKE IN INDIA

MAKE IN INDIA

SOUND TIGHT™

Silence must be heard

DATA SHEET FOR SOUND TIGHT - STI SERIES

Test Component

Sound Tight STI-306 & Sound Tight STI-612

Test Requirement & Standards

Thickness, Specific Gravity, Hardness, Tensile Strength, Elongation, Compression, & Temperature Stability.

As per ASTM D792, ISO 1183, ASTM D412, ISO 37, ASTM D395, ASTM D575, ASTM D2000 standards.

Observed Results

Sr.No.	Description	Observed Value
01.	Polymer Content	NR/SBR
02.	Specific Gravity	1.9 ± 0.10 gm/cc
03.	Hardness	70 ± 5 Shore A
04.	Thickness	3mm & 6mm ± 0.30
05.	Tensile	18.5 kg/cm^2
06.	Elongation	150%
07.	Temperature Stability	Up to 70^0 Celsius
08.	Compression Set	82%
09.	Surface Finish	One Side Fabric Finish One Side Smooth Finish

* These tests are carried out under laboratory conditions in the manufacturing facility, and are true to the best of our knowledge

APPLICATION

- Sound insulation for light constructions with sheet metal, plasterboard, bricks, plastic sheets, wood, HVAC ducting, pipes etc.
- Sound insulation for Applications like doors, floating floors, partition walls, machine enclosures, vehicle floors, etc.
- Vibration damping of metal sheets, plastic sheets, HVAC ducting, drain pipes, vehicle walls and floors, etc.
- Absorption of Low Frequency Sound Waves for specialised application as limp membranes / Bass Traps in Recording Studios, Cinema Halls, Home Theatres etc.

INSTALLATION

- Applied on any surface – either flat or curved.
- No special tools for handling & installation.
- Can be cut in any size and shape with utility knife or scissor.
- Can be applied with synthetic rubber adhesive or mechanical fixing.

ADDITIONAL INFORMATION

- This soundproofing material is produced from high-density elastomeric viscoelastic Natural / Neoprene / Blended - Recycled Rubber
- Custom made premium fire resistant material with flame retardants can be requested on order. (Minimum Order Quantities will be applicable)
- Custom made premium fabric reinforced material can be requested on order. (Minimum Order Quantities will be applicable)
- Custom made premium sizes can be requested on order. (Minimum Order Quantities will be applicable)
- The material has minimum one sided matte finish surface to ensure strong adhesion using synthetic rubber adhesive on various application surfaces.

Sound Tight STI Series is purely an isolation & damping material.
Sound Tight STI series is not an absorptive material and hence is not rated for NRC.
Sound Tight STI Series should be used only where airborne isolation, impact isolation and vibration damping is required.
Sound Tight STI series is not a surface finish material; and hence should be used only as layers behind any finishing material in wall panelling or partitions.

Storage Norms:

- Store in a cool dry place away from all sort of oils, acids & Alkalis, water and other liquids.
- Do not expose to direct sunlight. Store in a cool dry place.
- Use the material with FIFO (Fist In First Out) method.
- Store rolls in Vertical Orientation.
- Do not pile up rolls in horizontal state.
- Store between temperature 20°c & 40°c.

Available in:
1220mm x 2440mm Sheets.

CONFIDENTIAL

TEST REPORT ON DETERMINATION OF AIRBORNE SOUND TRANSMISSION LOSS OF SOUND TIGHT - STI 306 ELASTOMER MEMBRANE

ULR-TC508521050000015F
NVH/3100010965/2021-22/0015

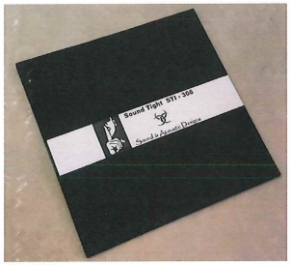
1st October 2021

1.0 CUSTOMER NAME : Sound & Acoustic Designs
Ground Floor, Shop No 1-4,
Shikhar Apartment, Behind Sahakari Hat.,
Near Daxinamurti School,
Bhavnagar – 364 002, Gujarat.

2.0 LETTER REF. : E-mail dated 15th September 2021

3.0 TEST COMPONENT : Test sample details given by customer is as follows,

3.1 Brand Name : Sound Tight
3.2 Product name : STI 306 Elastomer Membrane
3.3 Density : 2000 kg/m^3
3.4 Thickness : 3 mm



Sound & Acoustic Designs.

Sound Tight -STI 306 Elastomer Membrane

4.0 TEST REQUIREMENTS :

Measurement of sound transmission loss of above mentioned test sample as per ISO 10140-2 / ASTM E-90 and determination of sound transmission class (STC) as per ASTM E-413 and weighted sound reduction index R_w (C; C_{tr}) with spectrum adaptation terms as per ISO 717-1.

5.0 TEST PROCEDURE :

The above mentioned test sample of size 1.2 m x 1 m was installed in the wall between two reverberation chambers and sealed all around at edges. Please refer figure 1 for test set up and mounting of system. The airborne sound transmission loss test was carried out three times on same system in a reverberation chambers as per ISO 10140-2 / ASTM E-90 standard and average value is reported at one-third octave frequency bands. These measurements were carried out at room temperature 25^{0}C ± 1^{0}C, humidity 65% and barometric pressure 935 mbar.

An ISO 9001, ISO 14001, ISO 45001, ISO/IEC 27001 Certified and ISO/IEC 17025 Accredited Organization

Regd. Office : S. No. 102, Vetal Hill, Off Paud Road, Kothrud, Pune - 411 038 (India).
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ARAI Homologation & Technology Centre (ARAI-HTC), Chakan
ARAI Forging Industry Division (ARAI-FID), Chakan
ARAI Regional Centre South (ARAI-RCS), Chennai

6.0 DATE OF EVALUATION :

Test was carried out on above mentioned test sample on 30th September 2021 at NVH laboratory, ARAI-Pune.

7.0 INSTRUMENTATION :

Sr. No.	Instrument Name	Type / Model No	Make	Calibrated on	Calibration due on
1	Multi-channel Data Acquisition System	3560 D	Bruel & Kjaer, Denmark	3-Aug-21	3-Aug-22
2	½" Random Incidence Microphone	378C20	PCB, USA	3-Aug-21	3-Aug-22
3	Power Amplifier	2716	Bruel & Kjaer, Denmark	Does not require separate calibration as it is driven by data acquisition system	
4	Omni directional Sound source	Omni power 4296	Bruel & Kjaer, Denmark		
5	Reverberation Chambers	80 m^3 and 110 m^3	-	-	-

8.0 TEST RESULTS :

Table 1 and Figure 2 shows the values and plot of airborne sound transmission loss of Sound Tight - STI 306 Elastomer Membrane of 2000 kg/m^3 density and 3 mm thickness in the one-third octave frequency bands of 100 Hz to 8000 Hz, STC (sound transmission class) and R_w ($C_{100-5000}$; $C_{tr100-5000}$) (weighted sound reduction index and spectrum adaptation terms).

9.0 CONCLUSIONS :

The sound transmission class (STC) is calculated as per ASTM E- 413 and weighted sound reduction index with spectrum adaptation terms R_w ($C_{100-5000}$; $C_{tr100-5000}$) is calculated as per ISO 717-1 for Sound Tight - STI 306 Elastomer Membrane of 2000 kg/m^3 density and 3 mm thickness	
Sound transmission class (STC)	29 dB
Weighted sound reduction index with spectrum adaptation terms R_w ($C_{100-5000}$;$C_{tr100-5000}$)	29(0;-5) dB

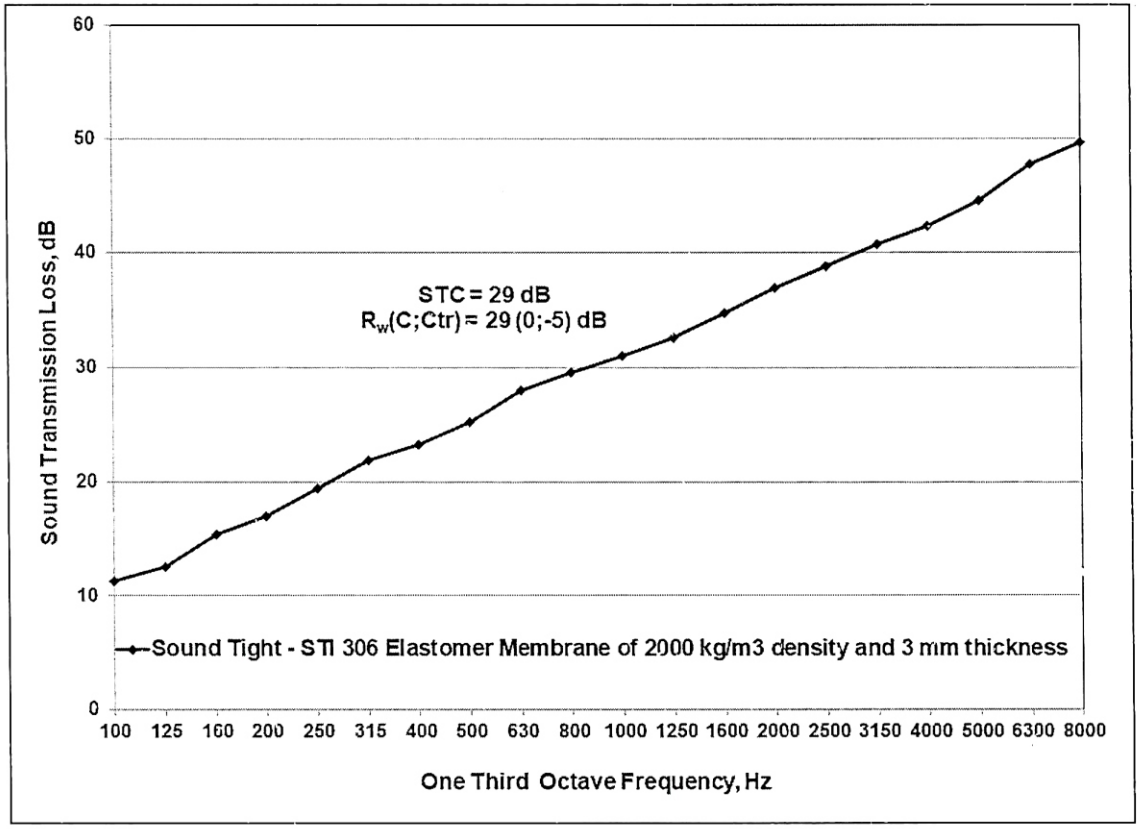
Report Prepared By:	Reviewed By:	Approved By:
P. P. Kamble	M. P. Joshi	S. K. Jain
Engineer	Dy. General Manager	General Manager

This test report pertains only to the systems actually tested at ARAI in the presented condition. The issuing of this test report does not indicate any measure of approval, certification, supervision, control of quality surveillance by ARAI of any product. No extract, abridgement or abstraction from this test report be published or used to advertise the product without the written consent of the Director, ARAI, who reserves the absolute right to agree or reject all or any of the details of any items of publicity for which consent may be sought.

TC-5085

Table 1 and Figure 2: Values and plot for sound transmission loss of Sound Tight - STI 306 Elastomer Membrane of 2000 kg/m^3 density and 3 mm thickness at one third octave frequencies

One Third Octave Frequency, Hz	Sound Transmission Loss, dB	STDEV
100	11.3	0.5
125	12.6	0.6
160	15.5	0.9
200	17.0	0.4
250	19.5	0.1
315	21.9	0.2
400	23.3	0.2
500	25.3	0.5
630	28.0	0.6
800	29.6	0.5
1000	31.1	0.4
1250	32.6	0.3
1600	34.8	0.3
2000	36.9	0.5
2500	38.9	0.3
3150	40.7	0.3
4000	42.4	0.4
5000	44.6	0.7
6300	47.7	0.5
8000	49.6	0.8



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CONFIDENTIAL

TEST REPORT ON DETERMINATION OF AIRBORNE SOUND TRANSMISSION LOSS OF SOUND TIGHT - STI 612 ELASTOMER MEMBRANE

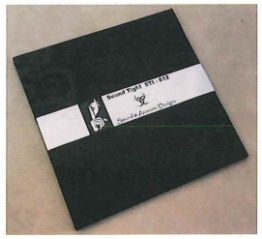
ULR-TC508521050000014F
NVH/3100010965/2021-22/0014 **1st October 2021**

1.0 CUSTOMER NAME : Sound & Acoustic Designs
Ground Floor, Shop No 1-4,
Shikhar Apartment, Behind Sahakari Hat.,
Near Daxinamurti School,
Bhavnagar – 364 002, Gujarat.

2.0 LETTER REF. : E-mail dated 15th September 2021

3.0 TEST COMPONENT : Test sample details given by customer is as follows,

3.1	Brand Name	:	Sound Tight
3.2	Product name	:	STI 612 Elastomer Membrane
3.3	Density	:	2000 kg/m^3
3.4	Thickness	:	6 mm



Sound & Acoustic Designs.

Sound Tight -STI 612 Elastomer Membrane

4.0 TEST REQUIREMENTS :
Measurement of sound transmission loss of above mentioned test sample as per ISO 10140-2 / ASTM E-90 and determination of sound transmission class (STC) as per ASTM E-413 and weighted sound reduction index R_w (C; C_{tr}) with spectrum adaptation terms as per ISO 717-1.

5.0 TEST PROCEDURE :
The above mentioned test sample of size 1.2 m x 1 m was installed in the wall between two reverberation chambers and sealed all around at edges. Please refer figure 1 for test set up and mounting of system. The airborne sound transmission loss test was carried out three times on same system in a reverberation chambers as per ISO 10140-2 / ASTM E-90 standard and average value is reported at one-third octave frequency bands. These measurements were carried out at room temperature 25^{0}C ± 1^{0}C, humidity 65% and barometric pressure 935 mbar.

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ARAI Homologation & Technology Centre (ARAI-HTC), Chakan
ARAI Forging Industry Division (ARAI-FID), Chakan
ARAI Regional Centre South (ARAI-RCS), Chennai

6.0 DATE OF EVALUATION :

Test was carried out on above mentioned test sample on 30th September 2021 at NVH laboratory, ARAI-Pune.

7.0 INSTRUMENTATION :

Sr. No.	Instrument Name	Type / Model No	Make	Calibrated on	Calibration due on
1	Multi-channel Data Acquisition System	3560 D	Bruel & Kjaer, Denmark	3-Aug-21	3-Aug-22
2	½" Random Incidence Microphone	378C20	PCB, USA	3-Aug-21	3-Aug-22
3	Power Amplifier	2716	Bruel & Kjaer, Denmark	Does not require separate calibration as it is driven by data acquisition system	
4	Omni directional Sound source	Omni power 4296	Bruel & Kjaer, Denmark		
5	Reverberation Chambers	80 m^3 and 110 m^3	-	-	-

8.0 TEST RESULTS :

Table 1 and Figure 2 shows the values and plot of airborne sound transmission loss of Sound Tight - STI 612 Elastomer Membrane of 2000 kg/m^3 density and 6 mm thickness in the one-third octave frequency bands of 100 Hz to 8000 Hz, STC (sound transmission class) and R_w ($C_{100\text{-}5000}$; $C_{tr100\text{-}5000}$) (weighted sound reduction index and spectrum adaptation terms).

9.0 CONCLUSIONS :

The sound transmission class (STC) is calculated as per ASTM E- 413 and weighted sound reduction index with spectrum adaptation terms R_w ($C_{100\text{-}5000}$; $C_{tr100\text{-}5000}$) is calculated as per ISO 717-1 for Sound Tight - STI 612 Elastomer Membrane of 2000 kg/m^3 density and 6 mm thickness	
Sound transmission class (STC)	35 dB
Weighted sound reduction index with spectrum adaptation terms R_w ($C_{100\text{-}5000}$; $C_{tr100\text{-}5000}$)	35(0;-5) dB

Report Prepared By:	Reviewed By:	Approved By:
P. P. Kamble	M. P. Joshi	S. K. Jain
Engineer	Dy. General Manager	General Manager

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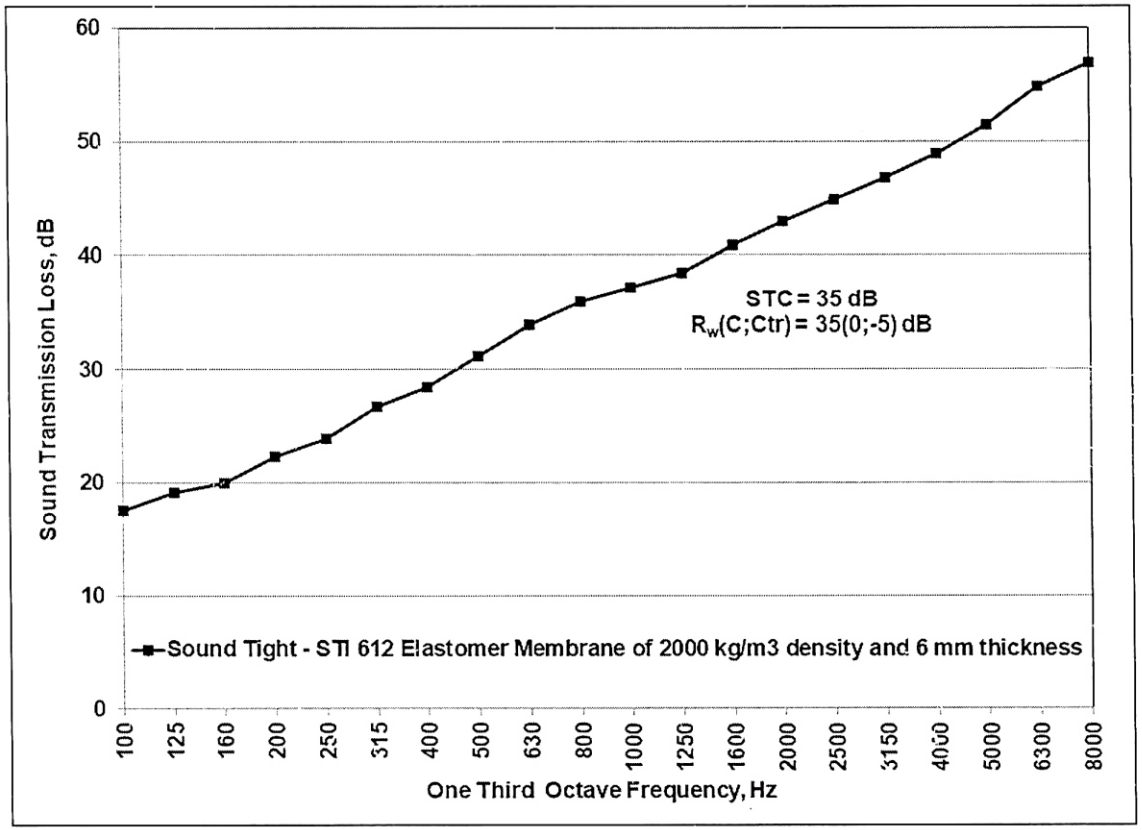
TC-5085

Table 1 and Figure 2: Values and plot for sound transmission loss of Sound Tight - STI 612 Elastomer Membrane of 2000 kg/m^3 density and 6 mm thickness at one third octave frequencies

One Third Octave Frequency, Hz	Sound Transmission Loss, dB	STDEV
100	17.6	0.9
125	19.1	0.1
160	19.9	0.3
200	22.3	0.2
250	23.9	0.5
315	26.7	0.7
400	28.4	0.3
500	31.1	0.2
630	33.9	0.1
800	35.9	0.9
1000	37.2	0.8
1250	38.4	0.3
1600	40.9	0.9
2000	42.9	0.7
2500	44.9	0.7
3150	46.8	0.7
4000	49.0	0.3
5000	51.5	0.1
6300	54.8	0.1
8000	56.9	0.4



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TEST REPORT

Test Report No.	:	ERL/2022-23/3000023615	Date: 12/07/2022
ULR Number	:	ULR-TC508522300000135F	
Discipline	:	Chemical	
Group	:	Polymer	

1.	SO No.	:	3000023615
2.	Customer's Name	:	SOUND & ACOUSTIC DESIGNS
3.	Customer's Address	:	GROUND FLOOR, SHOP NO 1-4, SHIKHAR APPARTMENT BEHIND SAHAKARI HAT., NEAR DAXINAMURTI SCHOOL, BHAVNAGAR GUJARAT-364002
4.	Letter reference No. and date	:	E-mail dated:15-JUN-2022 and 12/07/2022
5.	Kind Attention	:	Mr. Fenil Mehta
6.	Service requirements	:	Testing for Flammability of Interior Materials as per FMVSS 302.
7.	No. of Samples	:	01.
8.	No. of pages	:	02.
9.	Test Report Prepared By	:	H. L. KHANDASKAR CHEMIST
10.	Test Report Verified By	:	Ms. R. R. NAIK MANAGER
11.	Test Report Approved By		M. A. BAWASE GENERAL MANAGER

ARAI® Progress through Research THE AUTOMOTIVE RESEARCH ASSOCIATION OF INDIA

Place of Issue: PUNE **Date of Issue: July 12, 2022**

DISCLAIMER:

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ARAI will preserve the tested samples for a period of **ONE** month from the date of issue of the test report. Queries, if any, regarding the sample or the test report, will be entertained / attended to in this stipulated period of ONE month only. Further, all the related test standards, drawings supplied by customer, letters, e mails etc. exchanged with respect to this test work will be preserved in our custody for a span of only THREE years from the date of the test report.

TC-5085

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ARAI Forging Industry Division (ARAI-FID), Chakan
ARAI Regional Centre South (ARAI-RCS), Chennai

TEST REPORT

Customer's Name	:	SOUND & ACOUSTIC DESIGNS
Service requirement	:	Testing for Flammability of Interior Materials as per FMVSS 302.
Sample Received date	:	08/07/2022
Condition of Sample	:	Prepared Sample received in good condition
Sampling	:	Sampling done by party
Date Sampled	:	Not provided

1.0 Sample Details as submitted by customer:		
Material Manufacturer's Name	:	Sound Tight - Sound & Acoustic Designs
Material Grade	:	FR Grade
Material Type	:	NR / SBR – Sound Proofing Sheet
Component Part No. and Batch No.	:	Sound Tight – Impact & Underlay Series
Identification Code	:	STI 204 / STI 306 / STI 408 / STI 510 / STI 612 / STU 200/ STU 300 / STU 400 / STU 500 / STU 600
Other information	:	Material of same formulation–2mm, 3mm, 4mm, 5mm, 6mm

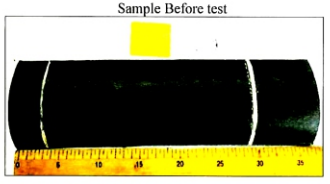
2.0 OBSERVATION TABLE: The sample under test is isotropic.

	Temperature (°C) Max to Min	**Relative humidity (%) Max to Min**	**Soak duration (hrs) Date of test**
Soaked condition	21	50	24 hrs 12/07/2022
Test condition	27 to 25	82 to 80	---
Wire attached frame	No	**Test specimen Dimension**	Average: 354 X 102 X 4.5 mm

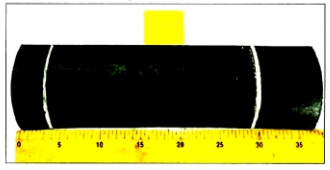
Sr. No	**Test Description**	**Acceptance Criteria**	**Observation**			
1.	**Flammability of Interior Materials as per FMVSS 302**	a) The material shall not burn, nor transmit a flame front across its surface, at a rate of more than 102 mm per minute or b) **The material stops burning before it has burned for 60 seconds from the start of timing, and has not burned more than 51 mm from the point where the timing was started, it shall be considered to meet the burn-rate requirement of a)**	**Test Piece**	**Time, Seconds**	**Burnt Distance, mm**	**Burning Rate (mm/min)**
			1	-	-	0
			2	-	-	0
			3	-	-	0
			4	-	-	0
			5	-	-	0
			(Refer Typical Photograph below)			
2	**Conclusion**	Sample under test **meets** the acceptance criteria **(a)** when tested as per; FMVSS 302				

TYPICAL PHOTOGRAPH

Sample Before test



Sample After test



Test Report Prepared By

H. L. KHANDASKAR
CHEMIST

Test Report Verified By

Ms. R. R. NAIK
MANAGER

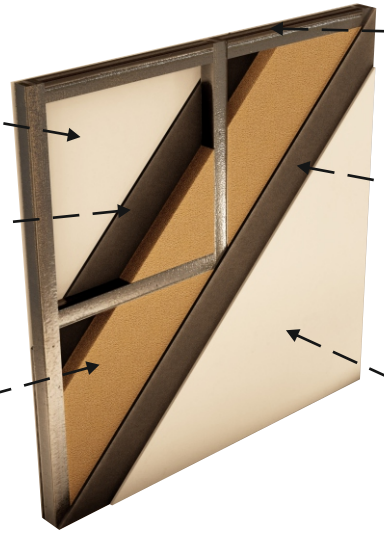
TC-5085

L:\Dept\Data\ERL\ERL_Data\APR2022_MAR2023\Flammability\ISO 23615_Sound & Acoustic\Main Test Report\ISO 23615.docx

----End of Test Report----

Simple Partition / Dry Wall

CAN BE USED AS AN ALTERNATIVE TO MASONRY WALL BUILT FROM BRICKS OR BLOCKS.



12mm / 15mm/ 18mm Gypboard / Plywood / MDF / OSB / Cement Sheet

Sound Tight STI-306 or STI-612 pasted with Synthetic Rubber Adhesive

50mm Rockwool / Ceramicwool / Glasswool / Synthwool of density 48kg/m^3 & above

Frame using - 50mm x 50mm x 2mm thick square AL or GI Pipes or Wooden Frame

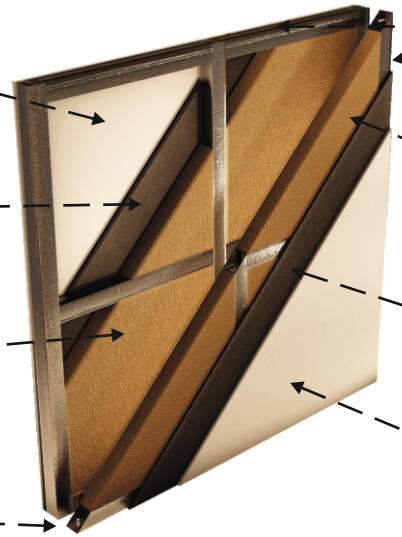
Sound Tight STI-306 or STI-612 pasted with Synthetic Rubber Adhesive

12mm / 15mm/ 18mm Gypboard / Plywood / MDF / OSB / Cement Sheet

* STC OF 42dB to 52dB DEPENDING ON MATERIAL SELECTION

Double Stud Partition / Dry Wall

CAN BE USED WHERE HIGHER LEVEL OF ISOLATION IS REQUIRED IN A PARTITION.



12mm / 15mm/ 18mm Gypboard / Plywood / MDF / OSB / Cement Sheet

Sound Tight STI-306 or STI-612 pasted with Synthetic Rubber Adhesive

50mm Rockwool / Ceramicwool / Glasswool / Synthwool of density 48kg/m^3 & above

25mm to 50mm Air Gap between both frames

Frame using - 50mm x 50mm x 2mm thick square AL or GI Pipes or Wooden Frame - Fixed on Floor & Ceiling with 25mm to 50mm airgap in between the frame

50mm Rockwool / Ceramicwool / Glasswool / Synthwool of density 48kg/m^3 & above

Sound Tight STI-306 or STI-612 pasted with Synthetic Rubber Adhesive

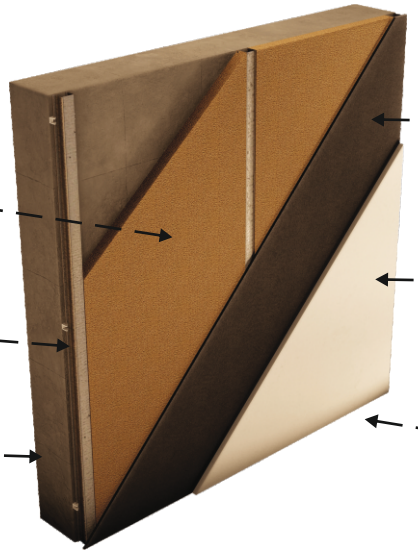
12mm / 15mm/ 18mm Gypboard / Plywood / MDF / OSB / Cement Sheet

* STC OF 52dB to 62dB DEPENDING ON MATERIAL SELECTION & AIRGAP

* The images shown are just a few examples for effective isolation.
Advanced Isolation designs which are application specific should be employed after consultation with a qualified Acoustician or Designer.

Simple Isolation Layer on Masonary Walls

FURTHER TREATMENT WITH ABSORPTION, DIFFUSION ETC CAN BE DONE ABOVE THESE LAYERS FOR HOME CINEMA ROOMS & OTHER SPACES WITH AV INSTALLATIONS.



25-50mm Rockwool / Ceramicwool / Glasswool / Synthwool of density 48kg/m^3 & above

AL Furring Channels Installed using Resilient / ISO Clips

Plastered Wall

Sound Tight STI-306 or STI-612 pasted with Synthetic Rubber Adhesive

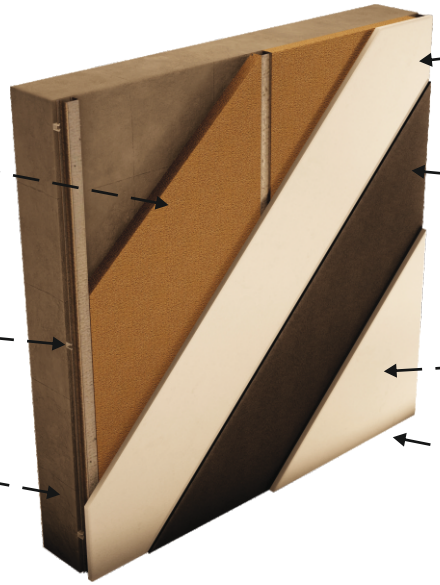
12mm / 15mm/ 18mm Gypboard / Plywood / MDF / OSB / Cement Sheet

Further Acoustic Treatment for Absorption / Diffusion Etc.

* STC WILL DEPEND ON WALL THICKNESS AND MATERIAL SELECTION

Advanced Isolation Layer

CAN BE USED FOR SPACES WHERE HIGHER LEVEL OF ISOLATION IS REQUIRED.



25-50mm Rockwool / Ceramicwool / Glasswool / Synthwool of density 48kg/m^3 & above

AL Furring Channels Installed using Resilient / ISO Clips

Plastered Wall

12mm / 15mm/ 18mm Gypboard / Plywood / MDF / OSB / Cement Sheet

Sound Tight STI-306 or STI-612 pasted with Synthetic Rubber Adhesive

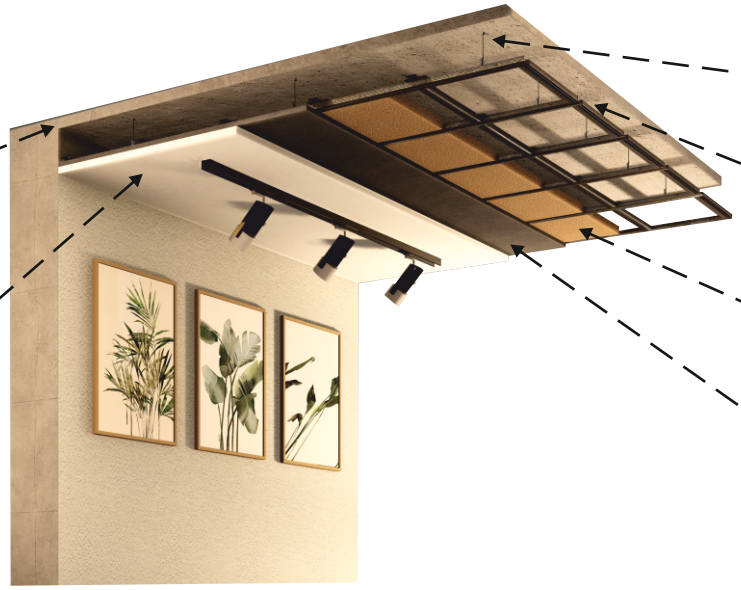
12mm / 15mm/ 18mm Gypboard / Plywood / MDF / OSB / Cement Sheet

Further Acoustic Treatment for Absorption / Diffusion Etc.

* STC WILL DEPEND ON WALL THICKNESS AND MATERIAL SELECTION

*Leaving unchecked and untreated flanking paths (for example - HVAC Ducts, Electric conduits, door & window seals etc) will affect the overall STC / NCB rating of the treated surface / room. It is advisable to consult your acoustic designer / consultant for treatment of flanking paths.

Isolation & Damping for Ceilings



Slab

12mm / 15mm/ 18mm Gypboard / Plywood / MDF / OSB / Cement Sheet.

Hanging Rod / Hanger / Suspension Cable & Clip

AL - Ceiling Framing using cross Rails & Furring Channels

50mm Rockwool / Ceramicwool / Glasswool / Synthwool of density 48kg/m^3 & above

Sound Tight STI-306 or STI-612 pasted with Synthetic Rubber Adhesive

* STC WILL DEPEND ON SLAB THICKNESS, DENSITY AND MATERIAL SELECTION

Isolation & Damping for Wooden Flooring

Wooden Flooring

3mm EPE Foam Underlay

Sound Tight STI-306 or STI-612 pasted with Synthetic Rubber Adhesive on Tile

Tile

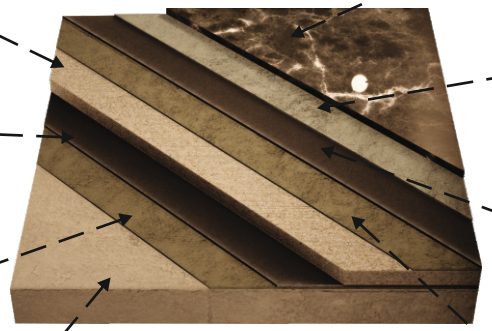
MYK Laticrete 335/ 345 or similar cement polymer adhesive chemical

50mm IPS - M15 Grade

Slab

* IIC & STC WILL DEPEND ON SLAB THICKNESS, DENSITY AND MATERIAL SELECTION

Isolation & Damping for Stone / Marble Flooring



Marble or Stone

50mm PCC - M20 Grade

Sound Tight STI-306 or STI-612

MYK Laticrete 335 or Similar Cement Polymer Adhesive Chemical

Slab

MYK Laticrete 345 or Similar Cement Polymer Adhesive Chemical

Sound Tight STI-306 or STI-612

MYK Laticrete 335 or Similar Cement Polymer Adhesive Chemical

* IIC & STC WILL DEPEND ON SLAB THICKNESS, DENSITY AND MATERIAL SELECTION

Sound Tight STI Series can be used for advanced Ceiling & "Floating floor designs where higher level of airborne isolation or Impact isolation is required.
Please contact your acoustic designer / consultant for optimum solutions.

Website

Contact us

Whatsapp

Testimonials

Reports

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