

**AURALIS**  
THE ART OF SILENCE

## GROOVED ACOUSTIC PANEL G SERIES

AURALIS Groove acoustic panel is the common sound absorption materials in modern buildings. The structure of groove in surface and perforation in back is based on scientific calculation and acoustic theories. The panel has excellent noise reduction and sound absorption performance, especially for medium and low frequencies. Meanwhile, the natural wood grain and diverse finish choice provide good visual effects for everyone.



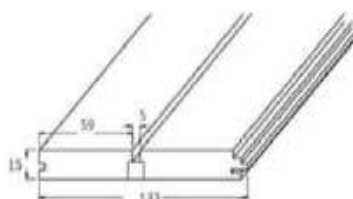
### SPECIFICATIONS

|                |                                                                                                                                                                                                                   |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name           | Groove Acoustic Panel                                                                                                                                                                                             |
| Structure      | Base Material / Finish / Black                                                                                                                                                                                    |
| Basematerials  | Standard board, environmental protection board, flame-retardant board, moisture-proof board, Class A non-combustible board, composite flame-retardant board, solid wood formaldehyde-free board, other customized |
| Finish         | Melamine, HPL fireproof board, technical veneer, PU Paint                                                                                                                                                         |
| Model          | 59-5, 40-3, 28-4, 18-3, 14-2, 13-3, 9-2, 5-3, other customized model                                                                                                                                              |
| Specifications | W 133*L2440*T12/15/18mm                                                                                                                                                                                           |

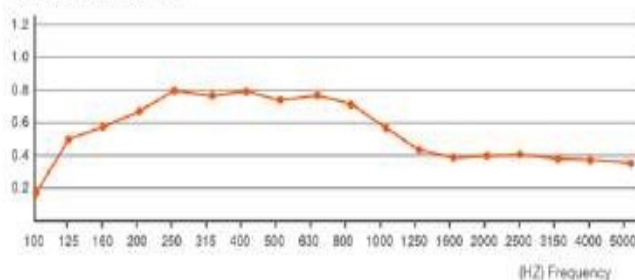
## 59-5



Punching rate 5.5%



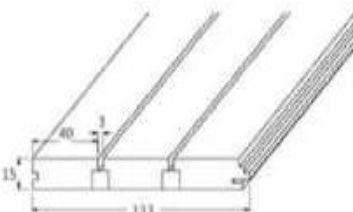
Sound absorption coefficient



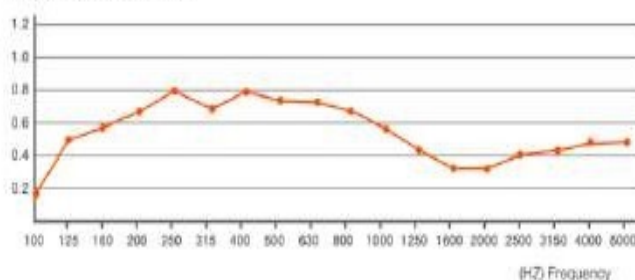
## 40-3



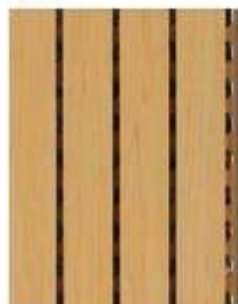
Punching rate 5.0%



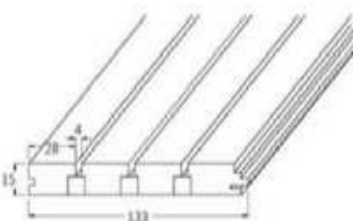
Sound absorption coefficient



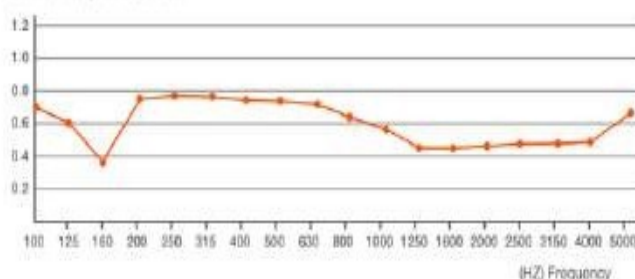
## 28-4



Punching rate 8.0%



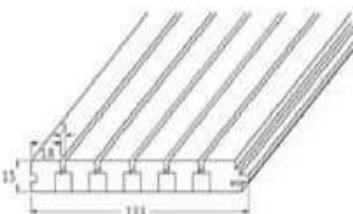
Sound absorption coefficient



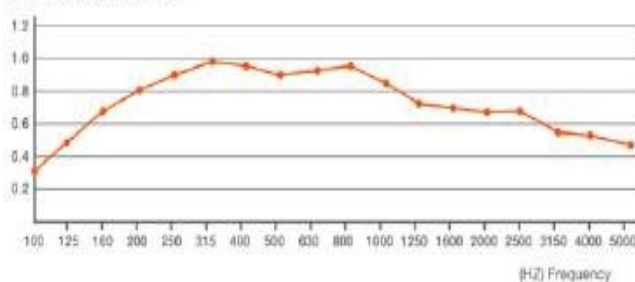
## 18-3



Punching rate 8.0%



Sound absorption coefficient

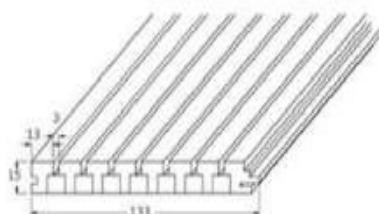


| Frequency                    | 100  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Sound absorption coefficient | 0.38 | 0.55 | 0.70 | 0.80 | 0.90 | 0.96 | 0.98 | 0.90 | 0.90 | 0.88 | 0.82 | 0.78 | 0.70 | 0.68 | 0.62 | 0.55 | 0.53 | 0.52 |

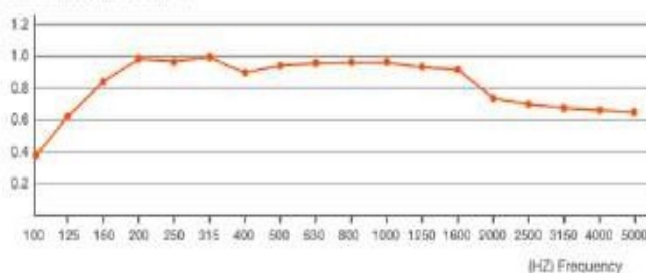
### 13-3



Punching rate 12.0%



Sound absorption coefficient

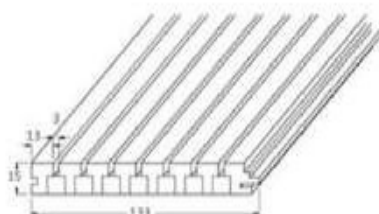


| Frequency                    | 100  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Sound absorption coefficient | 0.39 | 0.64 | 0.82 | 0.99 | 0.99 | 1.00 | 0.90 | 0.92 | 0.92 | 0.98 | 0.98 | 0.94 | 0.86 | 0.73 | 0.66 | 0.66 | 0.65 | 0.62 |

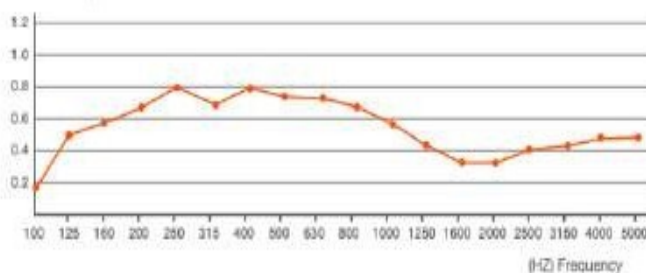
### 14-2



Punching rate 8.0%



Sound absorption coefficient

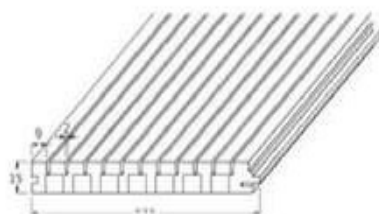


| Frequency                    | 100  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Sound absorption coefficient | 0.20 | 0.45 | 0.60 | 0.70 | 0.80 | 0.75 | 0.82 | 0.76 | 0.75 | 0.62 | 0.52 | 0.40 | 0.37 | 0.35 | 0.40 | 0.40 | 0.44 | 0.45 |

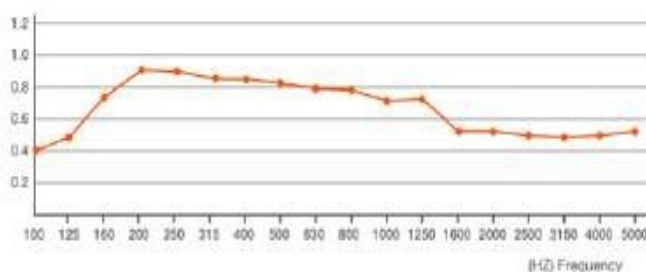
### 9-2



Punching rate 12.0%



Sound absorption coefficient

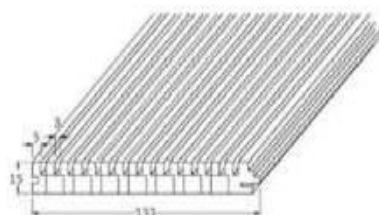


| Frequency                    | 100  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Sound absorption coefficient | 0.40 | 0.50 | 0.53 | 0.70 | 0.90 | 0.90 | 0.87 | 0.87 | 0.80 | 0.80 | 0.71 | 0.70 | 0.58 | 0.57 | 0.56 | 0.48 | 0.48 | 0.48 |

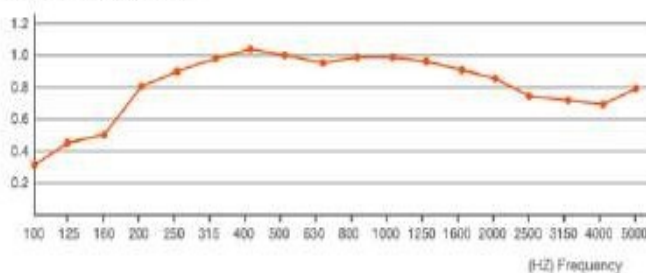
### 5-3



Punching rate 19.0%



Sound absorption coefficient



| Frequency                    | 100  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Sound absorption coefficient | 0.32 | 0.38 | 0.48 | 0.80 | 0.88 | 0.95 | 0.95 | 1.08 | 1.00 | 0.95 | 1.00 | 1.00 | 0.95 | 0.93 | 0.80 | 0.79 | 0.75 | 0.80 |

# FEATURES

Eco-friendly: All materials meet the national and international environmental protection standard. The product contains little formaldehyde with natural wood fragrant. Non-formaldehyde is also available.

Fire-resistant panels can reach class A under ASTM-E84 standard, Class 1 under BS476 part 7 standard.

Easy install: Standard module product could be installed easily with keel and fastener.

# APPLICATION

Multifunctional Hall, Conference Room, Opera Hall, cinema, Auditorium, Hotel, Tv Station, Music Hall, Piano Room Gymnasium, Villa Or any place which has high acoustic request .

## INSTALLATION

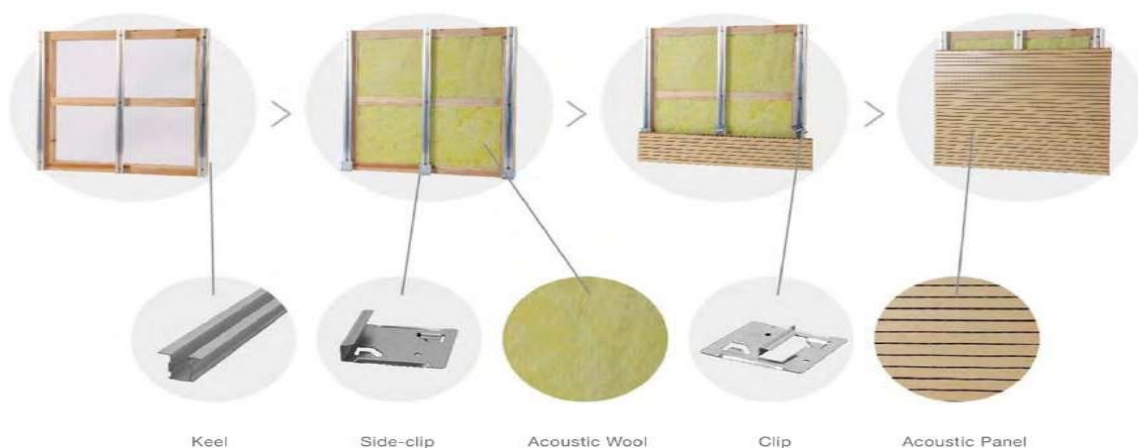
### \*WALL INSTALL METHOD

PREPARATION WORK BEFORE INSTALL AND REQUIREMENT IN INSTALL PLACE

- 1.The install place should reach the requirement in temperature and humidity in 24 hours before install.The lowest temperature is 15 degree and the range in 40%-60%.
- 2.Open the carton at least 48 hours before install.
- 3.Install the wood keel or steel keel as per design drawing and construction draw. The configuration for the keel should be the same as the wood acoustic panel. The recommend distance is 300-600mm.
- 4.Fill in the fiberglass wool in the gap of keel as per design.

### \*\*STEEL KEEL AND CLIPS METHOD

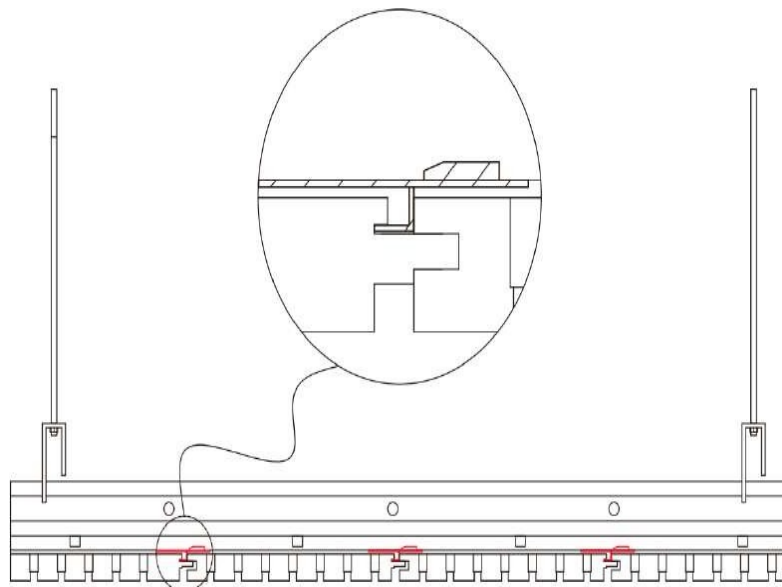
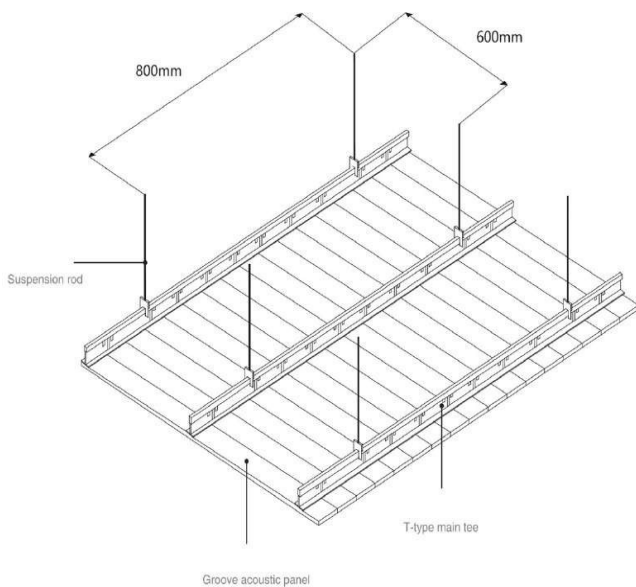
- 1.Fix keel 001 on the wooden battens by gun nail and screw
- 2.Clip 002,003 insert into keel 001, please make sure the wood acoustic panel be fixed
- 3.Pls install the panels from left to right and from bottom to top.
- 4.If want to adjust the panels, please adjust the clips 002,003.



## \*WOOD BATTENS INSTALL METHOD



## \*CEILING INSTALLATION METHOD





Side-clip

Main tee

Clip

## On-site installation drawing :



**01** Fix the tee grid system onto the ceiling



**02** Fix the WY-GA02 clip onto the tee grid



**03** Clip in the acoustic panel into WY-GA02 clip



**04** Fix the WY-GA03 clip onto acoustic panel



**05** Fix the acoustic panel together one by one



**06** Fix completed

# TEST REPORTS

Fire-retardant : **SGS BS476 part 7 : 1997 Class 1**

**SGS**

**TEST REPORT**

No. : GZIN1907036827CM  
Date : Aug 09, 2019  
Page: 1 of 5

CUSTOMER NAME: FOSHAN SOUND AND ACOUSTICS TECHNOLOGY CO.,LTD  
ADDRESS: Ground Floor,No.2 Building, Area S2, Hantian Industrial Park, Shenhai Road, Nanhai District, Foshan City,China

Sample Name : MDF Panel  
Product Specification : 885X270  
Material and Mark : SNA

Above information and sample(s) was/were submitted and confirmed by the client, SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Date of Receipt : Jul 15, 2019  
Testing Start Date : Jul 15, 2019  
Testing End Date : Aug 09, 2019  
Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for  
SGS-CSTC Standards Technical  
Services Co., Ltd. GZ Branch Testing  
Center  
Tobby Yang  
Authorized signatory

**Criteria for classification:**  
If the prefix "D" or suffix "R" or "Y" is included in the classification, this indicates that the results should be treated with caution. An explanation of the reason for prefix and suffixes is given in Appendix 2

**Appendix 1 Classification of spread of flame**

| Classification | Spread of flame at 1.5 min       |                                      | Final spread of flame |                                      |
|----------------|----------------------------------|--------------------------------------|-----------------------|--------------------------------------|
|                | Limit (mm)                       | Limit for one specimen in sample(mm) | Limit (mm)            | Limit for one specimen in sample(mm) |
| Class 1        | 165                              | 165+25                               | 165                   | 165+25                               |
| Class 2        | 215                              | 215+25                               | 455                   | 455+45                               |
| Class 3        | 265                              | 265+25                               | 710                   | 710+75                               |
| Class 4        | Exceeding the limits for class 3 |                                      |                       |                                      |

**Appendix 2 Explanation of prefix and suffixes which may be added to the classification**

- A suffix R is added to the classification if more than six specimens are required in order to obtain six valid test results (e.g. class 2R).
- A prefix D is added to the classification of any product which does not conform to the surface characteristics specified in the standard and has therefore been tested in a modified form (e.g. class DG).
- A suffix Y shall be added to the classification if any softening and/or other behaviour that may affect the flame spread occurs.

**Classification:** In accordance with the class definitions given in BS 476 Part 7:1997 Incorporating Corrigendum No.1:2014, the tested sample is classified as **Class 1**.

**Statements:**  
This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.  
The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test. They are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.  
The test results relate only to the specimens of the product in the form in which were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product, which is supplied or used, is fully represented by the specimens, which were tested.

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SGS-CSTC Standards Technical Services Co., Ltd. GZ Branch Testing Center  
中国·广东·广州市天河区岑村科学城科城路108号 邮编: 510663 136-20-82705556 136-20-82705580 039394  
www.sgsgroup.com.cn

Environmental testing : **E1 ≤0.124 mg/m³ air**

**SGS**

**Test Report** No.: SDHL2007020928HI Date: Aug 14, 2020 Page 1 of 3

FOSHAN SOUND AND ACOUSTICS TECHNOLOGY CO.,LTD  
Ground Floor,No.2 Building, Area S2, Hantian Industrial Park,Shenhai Road, Nanhai District, Foshan City,China

Sample Description : GROOVED WOOD ACOUSTIC PANEL  
Buyer Item No. : LD 132

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant, SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No. : CAN20-129566  
Sample Receiving Date : Jul 21, 2020  
Test Performing Date : Jul 30, 2020 to Aug 11, 2020  
Test Performed : Selected test(s) as requested by applicant

**Test Result Summary**

| No. | Test(s) Requested                             | Result(s) | Comments |
|-----|-----------------------------------------------|-----------|----------|
| 1   | EN 13986:2004+A1:2015 - Formaldehyde Emission | E1        | /        |

For further details, please refer to the following page(s)

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd.  
Shunde Branch  
Kitty Kang  
Authorized Signatory

**SGS**

**Test Report** No.: SDHL2007020928HI Date: Aug 14, 2020 Page 2 of 3

**Test Results:**

**Test Part Description:**

SGS Sample ID : CAN20-129566.001  
Description : Brick red material board with brown surface

**Remarks:**

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

**Formaldehyde**

Test Method : With reference to EN 717-1:2004, analysis was performed by UV-Vis.

Test item(s)  
Formaldehyde Emission (In air)

| Unit  | MDL   | 001   |
|-------|-------|-------|
| mg/m³ | 0.050 | 0.075 |

Notes:

- (1) mg/m³ = milligram per cubic meter
- (2) Reference Limit: BS EN 13086:2004+A1:2015  
Formaldehyde class E1: ≤0.124 mg/m³ air  
Formaldehyde class E2: >0.124 mg/m³ air

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