

# GROOVED ACOUSTIC PANEL GA SERIES

The majority middle and low frequency sound absorption and noise reduction materials



## PRODUCT INTRODUCTION

Grooved acoustic panel is the common sound absorption materials in modern buildings. According to the principle of acoustic science, the structure of the product is a groove on the surface and a through hole on the back is basing on scientific calculation and acoustic theories. The panel has excellent noise reduction and sound absorption performance, especially for medium and low frequencies ( the peak value of sound absorption is biased towards middle and low frequencies). Meanwhile, the natural wood grain and diverse finish provide good visual effects for everyone.

## SPECIFICATIONS

### Name

Grooved Acoustic Panel

### Size

W 133/197mm\*L 2440mm\*T 12/15/18mm, other customized

### Model

GA59-5/40-3/28-4/18-3/14-2/13-3/9-2/ 5-3/Art, other customized

### Base Materials

A grade MGO board/Red fire-resistant MDF/Standard MDF/Black HDF/  
Pine eco-friendly MDF/other customized

### Finish

Veneer/Melamine/HPL /PU Paint

### Back

Black Fire-resistant Sound Absorbing Fleece / Soundtex Sound Absorbing Fleece

### Fire Performance

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

### Eco Performance

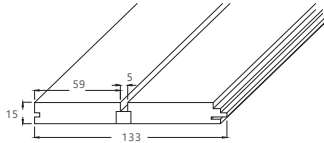
All materials meet the national and international environmental protection standard E1/E0

# ACOUSTIC PARAMETERS

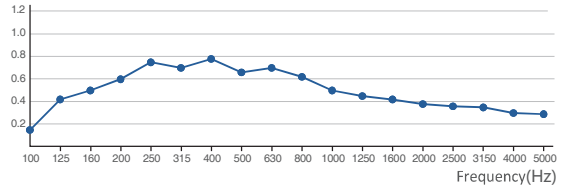
## AGA59-5



Open area: 5.5%



Sound absorption coefficient

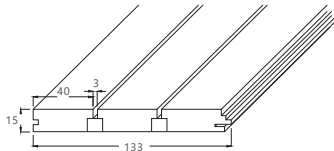


Frequency	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
Sound absorption coefficient	0.15	0.42	0.50	0.60	0.75	0.70	0.78	0.66	0.70	0.62	0.50	0.45	0.42	0.38	0.36	0.35	0.30	0.29

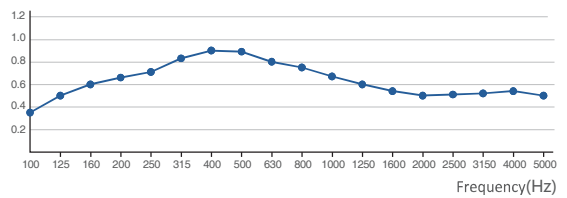
## AGA40-3



Open area: 5.0%

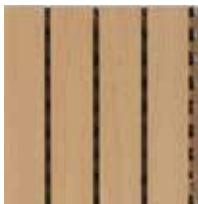


Sound absorption coefficient

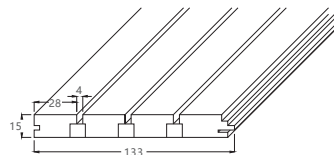


Frequency	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
Sound absorption coefficient	0.35	0.50	0.60	0.66	0.71	0.83	0.90	0.89	0.80	0.75	0.67	0.60	0.54	0.50	0.51	0.52	0.54	0.50

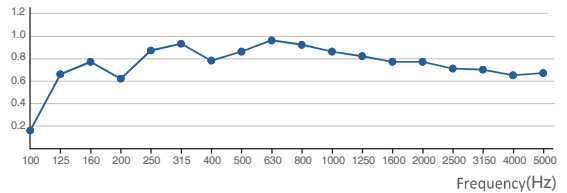
## AGA28-4



Open area: 8.0%

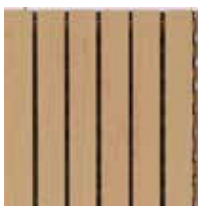


Sound absorption coefficient

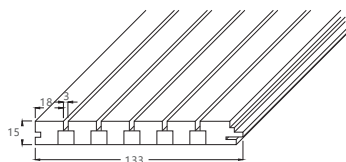


Frequency	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
Sound absorption coefficient	0.16	0.66	0.77	0.62	0.87	0.93	0.78	0.86	0.96	0.92	0.86	0.82	0.77	0.77	0.71	0.70	0.65	0.67

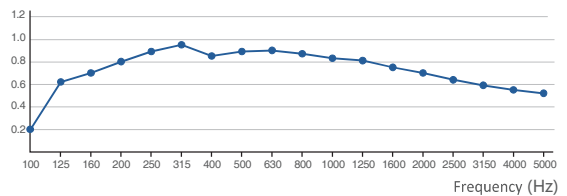
## AGA18-3



Open area: 9.0%



Sound absorption coefficient

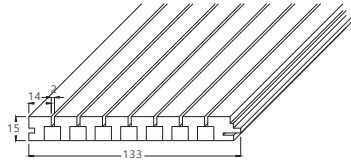


Frequency	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
Sound absorption coefficient	0.20	0.62	0.70	0.80	0.89	0.95	0.85	0.89	0.90	0.87	0.83	0.81	0.75	0.70	0.64	0.59	0.55	0.52

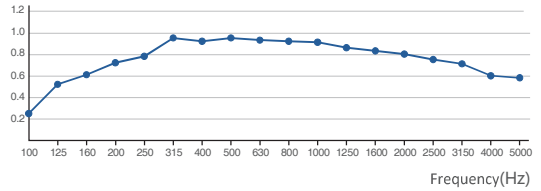
### AGA14-2



Open area: 8.0%



Sound absorption coefficient

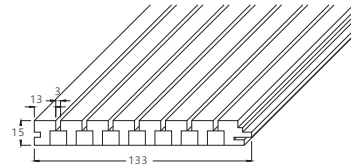


Frequency	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
Sound absorption coefficient	0.25	0.52	0.61	0.72	0.78	0.95	0.93	0.93	0.93	0.92	0.91	0.86	0.83	0.80	0.75	0.71	0.60	0.58

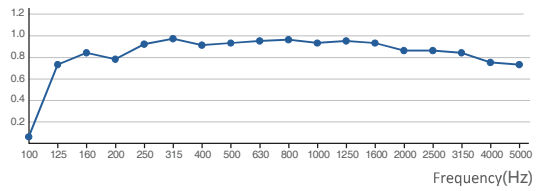
### AGA13-3



Open area: 12.0%



Sound absorption coefficient

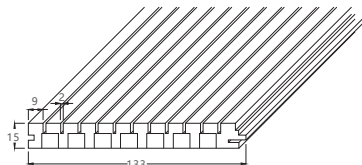


Frequency	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
Sound absorption coefficient	0.06	0.73	0.84	0.78	0.92	0.97	0.91	0.93	0.95	0.96	0.93	0.95	0.93	0.86	0.86	0.84	0.75	0.73

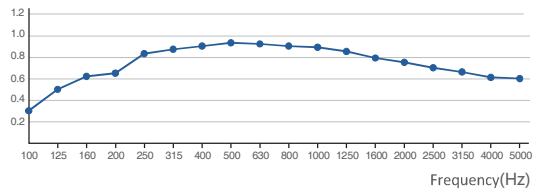
### AGA9-2



Open area: 12.0%



Sound absorption coefficient

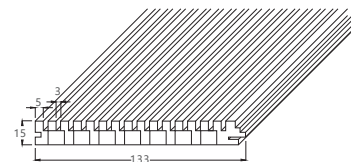


Frequency	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
Sound absorption coefficient	0.30	0.50	0.62	0.65	0.83	0.87	0.90	0.93	0.92	0.90	0.89	0.85	0.79	0.75	0.70	0.66	0.61	0.60

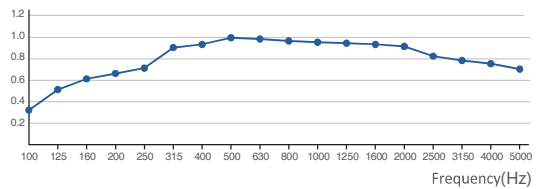
### AGA5-3



Open area: 19.0%

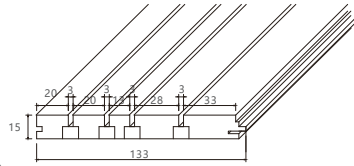


Sound absorption coefficient



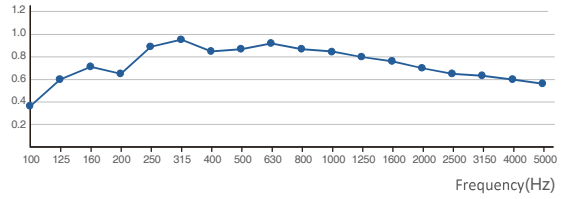
Frequency	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
Sound absorption coefficient	0.32	0.51	0.61	0.66	0.71	0.90	0.93	0.99	0.98	0.96	0.95	0.94	0.93	0.91	0.82	0.78	0.75	0.70

### AGA-Art



Open area: 7.5%

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	0.36	0.60	0.71	0.65	0.89	0.95	0.85	0.87	0.92	0.87	0.85	0.80	0.76	0.70	0.65	0.63	0.60	0.56

## BASE MATERIAL CATEGORY



A grade MGO board



Red fire-resistant MDF



Black HDF



Pine eco-friendly MDF



Standard MDF

# FINISHES

## Natural Veneer

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**AWY-NV01S**  
White Oak Straight Grain



**AWY-NV02M**  
White Oak Mountain Grain



**AWY-NV04M**  
Maple Mountain Grain



**AWY-NV06M**  
Walnut Mountain Grain



**AWY-NV07M**  
Cherry Mountain Grain



**AWY-NV08M**  
Ash Crown (wire-brushed)



**AWY-NV09M**  
Ash Crown (wire-brushed, dyeing)



**AWY-NV12**  
Carbonized Bamboo (vertical)



**AWY-NV14**  
Eucalyptus



**AWY-NV18**  
Figured Maple (glossy)

## Engineered Veneer

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**AWY-EV01S**  
Ash Crown



**AWY-EV02S**  
Whitewash White Oak



**AWY-EV04S**  
White Oak B



**AWY-EV05M**  
White Oak C



**AWY-EV12M**  
White Maple B



**AWY-EV15M**  
Cherry B



**AWY-EV18M**  
Walnut C



**AWY-EV20S**  
Chinese Ash



**AWY-EV21**  
Silver Pear A



**AWY-EV29S**  
Teak B

\* Due to the limited layout, please refer to the wood veneer, melamine and HPL color chart for more finishes.

## Melamine

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**AWY-01**  
European maple



**AWY-02**  
Classic white oak



**AWY-03**  
Natural gray oak



**AWY-07**  
Silver line



**AWY-08**  
Noble walnut



**AWY-10**  
Elegant walnut



**AWY-H070**  
Beech



**AWY-H080**  
Maple



**AWY-H160**  
Cherry



**AWY-H208**  
Ashtree



**AWY-H267**  
Oak



**AWY-H557**  
Osmanthus

## HPL

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**A0756**  
Natural Maple



**A7012**  
Amber Maple



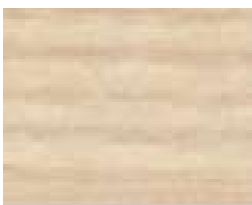
**A9281**  
Ash Riftwood



**A9005**  
Fineline



**A0860**  
Blond Afromosia



**A8843**  
Natural Ash



**A9348**  
Subtropical Light Oak



**A0870**  
Dawn Cherry



**A0874**  
Hazelnut Cherry

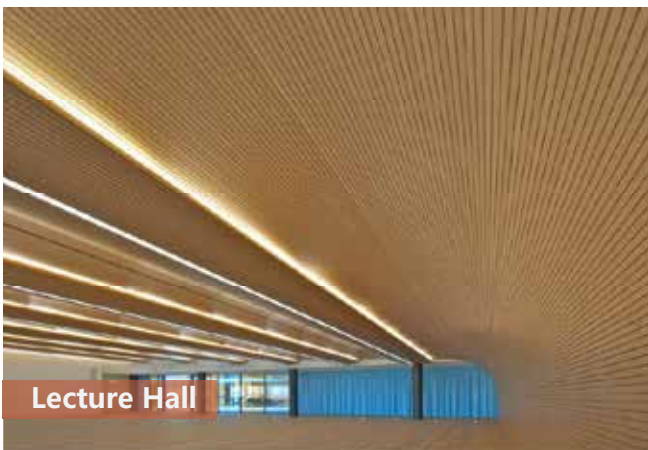
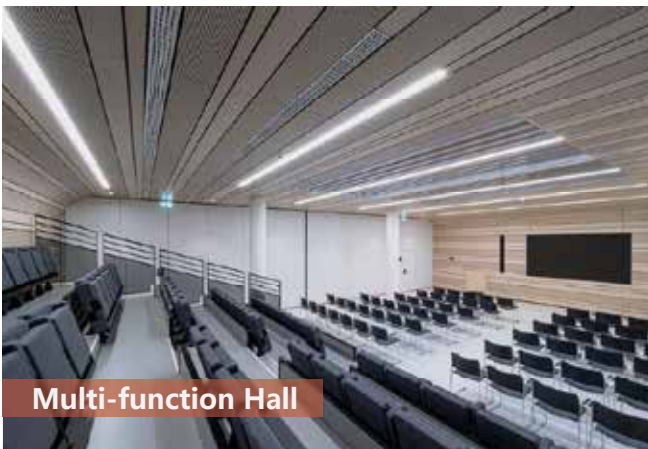


**A9222**  
Grayed Maple

\* Due to the limited layout, please refer to the wood veneer, melamine and HPL color chart for more finishes.

## APPLICATION

Multi-function hall, opera house, conference room, cinema, auditorium, TV station, piano room, gymnasium and other places with strict acoustic requirements.





Piano Room



Hotel



Office



Shopping Mall



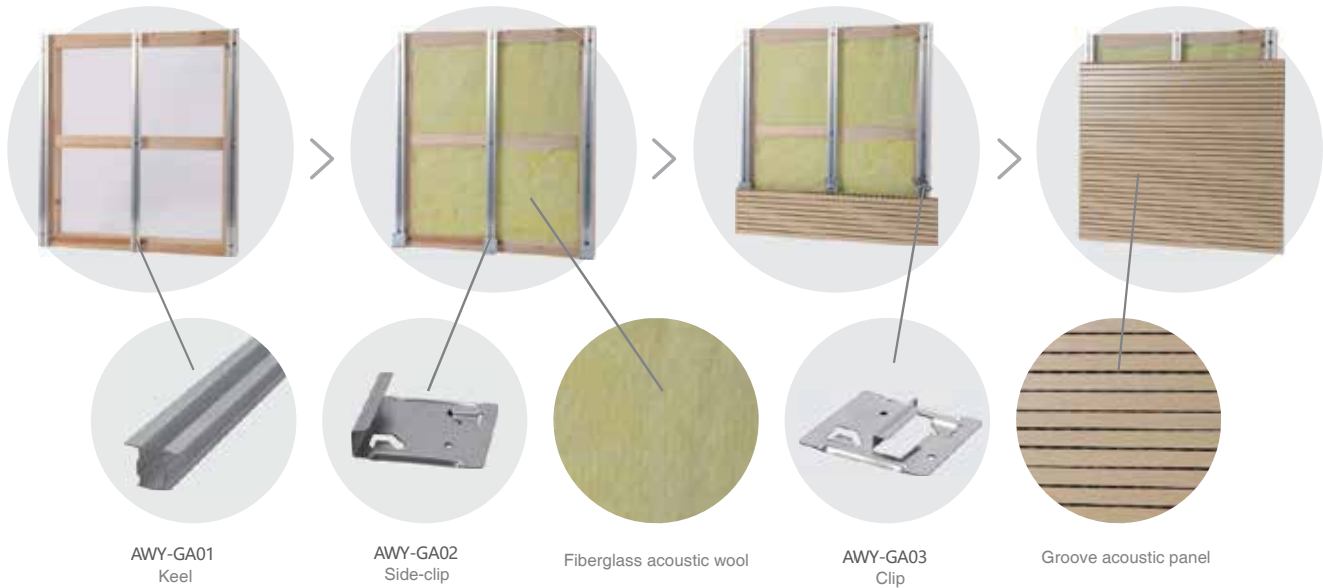
Catering Store



(Indoor) Basketball Court

## INSTALLATION GUIDE

### WALL INSTALLATION METHOD



### Preparation before installation and requirements of the installation site

- 01** The installation site must be dry and reach the specified temperature and humidity standards at least 24 hours before installation. The minimum temperature required by the installation site is 15 degrees, and the maximum humidity change value after installation should be controlled within the range of 40%-60%.
- 02** Before installation, the packaging box must be opened for at least 48 hours, so that the product can achieve the same environmental characteristics as the installation site.
- 03** To install the wood keel or steel keel as per design drawing and construction drawing. The configuration for the keel should be the same as the wood acoustic panel. The recommended distance is 300-600mm.
- 04** The gap between the keel should be filled with fiberglass acoustic wool, which needs to be installed and treated in advance according to the design, and will not affect the installation of the acoustic panel.

### STEEL KEEL AND CLIPS INSTALLATION METHOD

1. Fix keel WY-GA01 on the wooden battens by gunnail and screw.
2. Clip WY-GA02, WY-GA03 insert into keel WY-GA01, pls make sure the wood acoustic panel be fixed.
3. The installation sequence is from left to right and from bottom to top.
4. If want to adjust the panels, pls adjust the clips WY-GA02, WY-GA03.
5. Leave a 3mm natural gap between the head of panel, keep all the gap in the same line. Staggered installation is not recommended.



Correct



Not recommend

## WOOD BATTENS INSTALLATION METHOD



**01** Use the wood battens level the wall

**02** Filled with fiberglass acoustic wool (T 25-100mm, D 32kg/m<sup>3</sup> or 48kg/m<sup>3</sup>)

**03** Fix the panels on the wood battens by gun nail

## CEILING INSTALLATION METHOD



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



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



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



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



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



**06** Fix completed

## Why choose AM FURNISHING?

- 1 Large-scale direct factory, nearly 20 years experience in acoustic materials producing.**  
Leading in production equipment, technology and processing craft.



- 2 Excellent sound absorption and noise reduction performance, especially in middle and low frequencies.**  
Super sound absorption performance.



**3 The colors are trendy and the materials are exquisite.**

A variety of finishes and substrates are flexibly matched, which is suitable for various types of spaces.



**4 Standardized module design, simple installation methods.**

Wooden slat or keel structure, the installation is simple and fast.



**5  Fire resistant test report**

The fireproof performance reaches to class B1 flame retardant or non-combustible class A.



**6 Environmental protection test report**

Environmental protection performance reaches to E1 or E0 class, which has no harm to human health.

