

# GROOVED ACOUSTIC PANEL GA 28/4

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

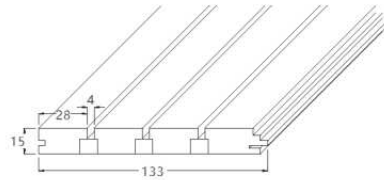
<b>Name</b> Grooved Acoustic Panel	<b>Size</b> W 133/197mm*L 2440mm*T 12/15/18mm, other customized
<b>Model</b> GA28/4	<b>Base Materials</b> A grade MGO board/Red fire-resistant MDF/Standard MDF/Black HDF/ Pine eco-friendly MDF/other customized
<b>Finish</b> Veneer/Melamine/HPL /PU Paint	<b>Back</b> Black Fire-resistant Sound Absorbing Fleece / Soundtex Sound Absorbing Fleece
<b>Fire Performance</b> Fire-resistant panels can reach class A under ASTM-E84 1 or under BS476 part 7 standard	
<b>Eco Performance</b> All materials meet the national and international environmental protection standard E1/E0	

# ACOUSTIC PARAMETERS

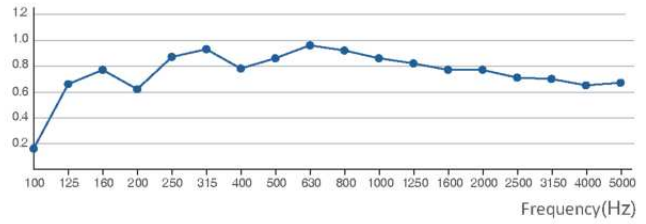
## AGA28-4



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

# 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



**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



**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

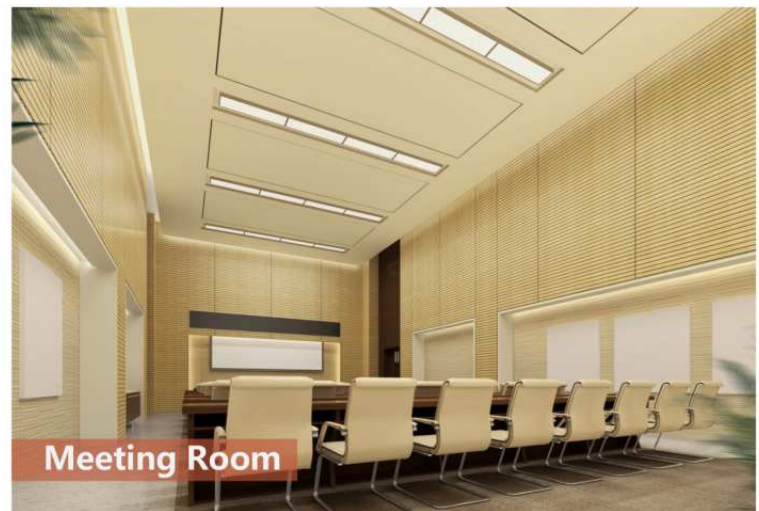
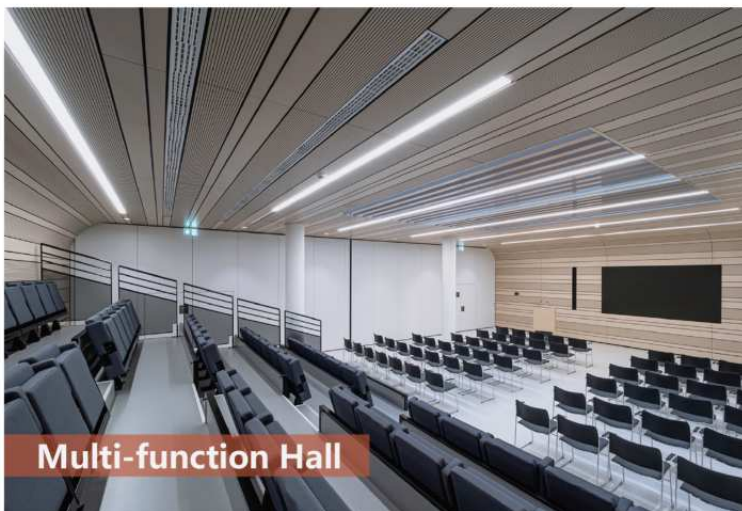


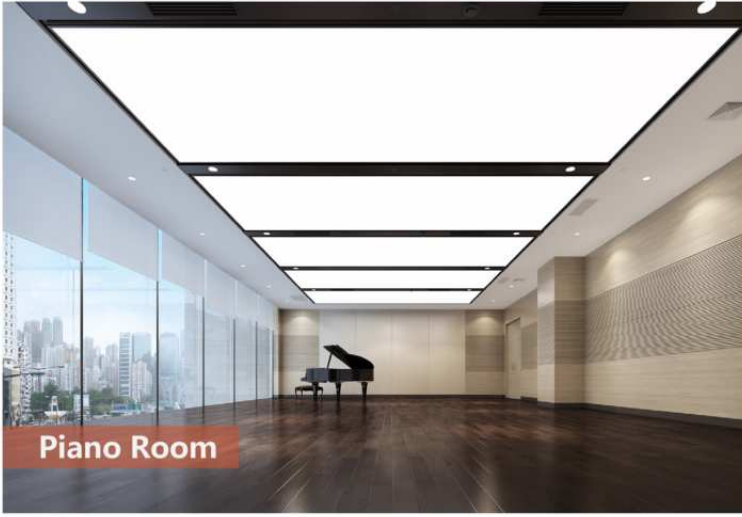
**A9222**  
Grayed Maple

\* 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



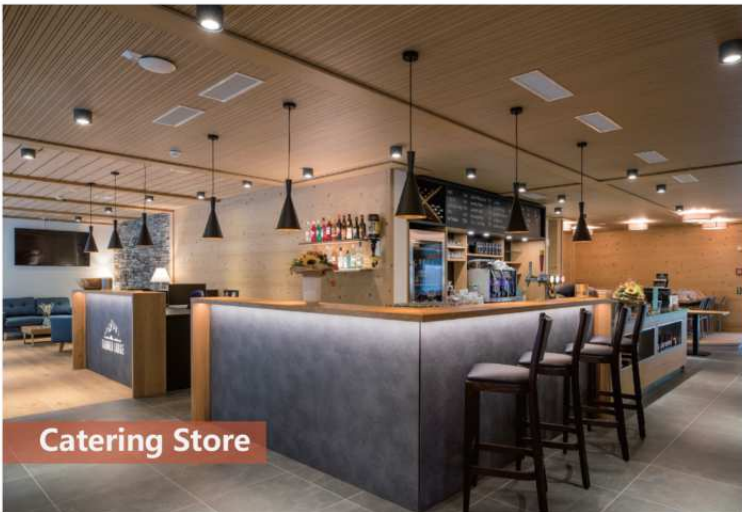
Hotel



Office



Shopping Mall



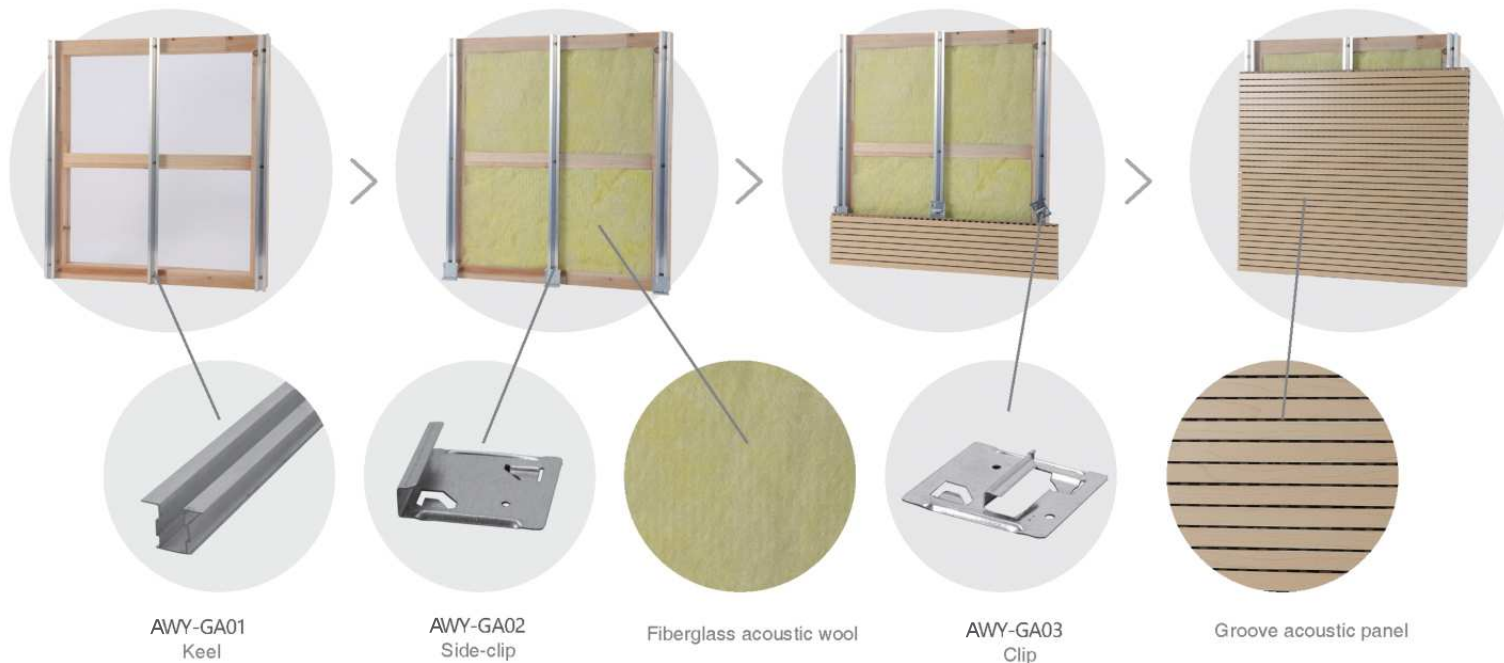
Catering Store



(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 AWY-GA01 on the wooden battens by gunnail and screw.
2. Clip AWY-GA02, AWY-GA03 insert into keel AWY-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 AWY-GA02, AWY-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



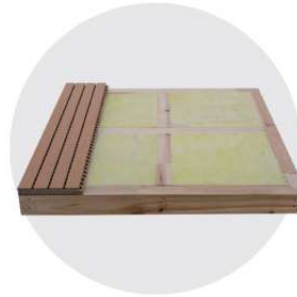
**01** Use the wood battens  
level the wall

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

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

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