

AURALIS
THE ART OF SILENCE

MICRO-PERFORATED WOOD ACOUSTIC PANEL

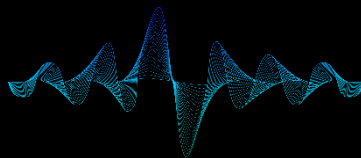


PRODUCT INTRODUCTION

Unlike to the traditional perforated acoustic panel, micro-perforated acoustic panel offer an invisible solution for the decoration, the surface of the panel is drilled with numerous tiny micro-perforations which can provide an excellent acoustical performance, mainly to trap the noise and reduce the reverberation time in the room. With 0.5mm , 1.0mm micro-perforation, people will not notice any hole on the decorative board, keeping the finish completed.

There are various choices for the finish, melamin, HPL and veneer. Some types of standard, 2-2-0.5, 2.7-2.7-0.5, 4-4-0.5, 8-8-0.5, according to the different types, the distance of the distribution of the holes will be different, each square meter can approximately have maximum 300,000 holes.

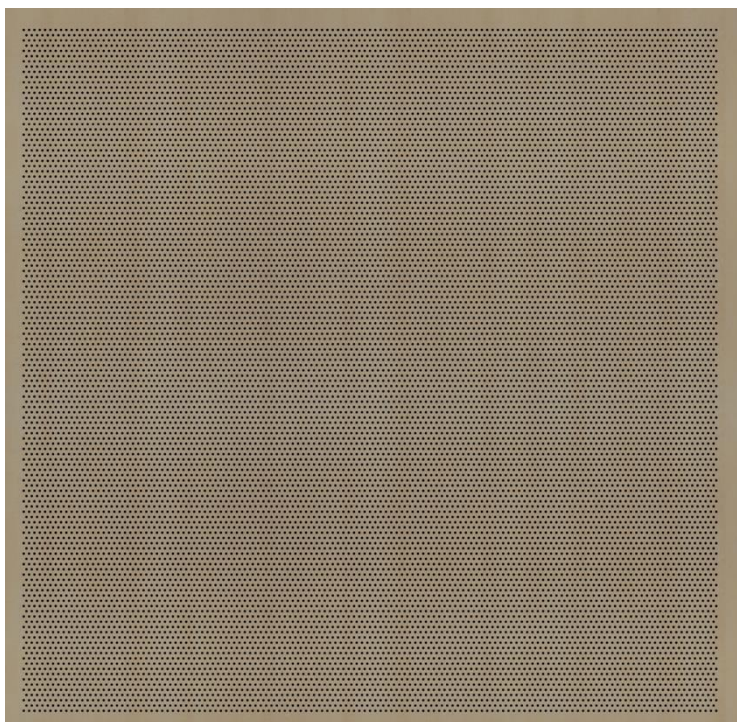
Name	Ultra Micro-Perforated Acoustic Panel
Structure	Base Materials/ Finish / Back
Base materials	MDF
Finish	HPL , veneer ,PU painting, melamine
Model	1.8-1.8-0.5 , 2-2-0.5, 2.7-2.7-0.5, 4-4-0.5, 8-8-0.5 or Other customized model
Specifications	600*600 600*1200 600*2400 mm or customized
Ecofriendly	All materials conform to national and international damage guarantee standards, and the release amount of formaldehyde is tested in accordance with GB18580-2001 "Limits of Release Limits of Formaldehyde in Artificial Panels and Products of Interior Decoration Materials and Products, and meets E1 level requirements.



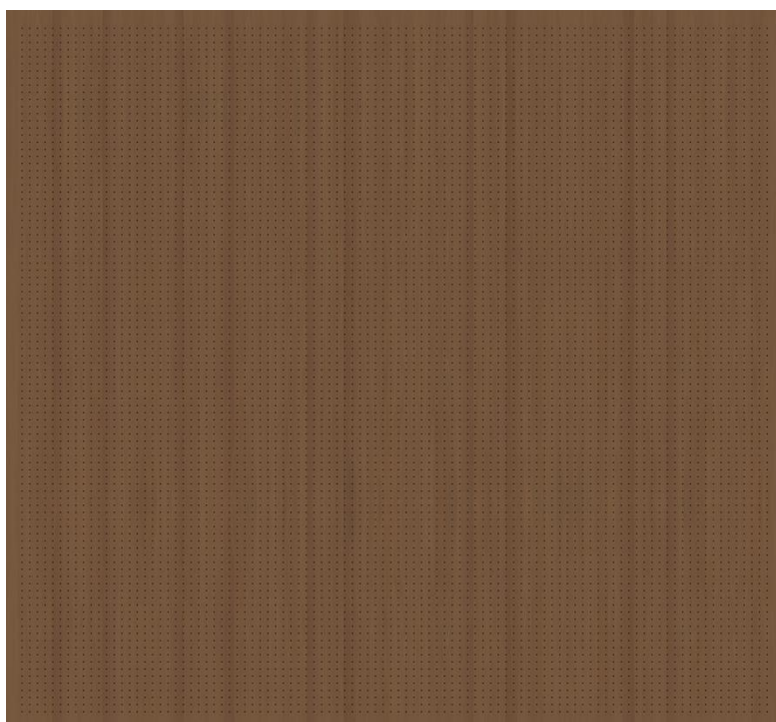
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fire-resistant	In accordance with GB8624-2006 "Classification of Combustion Performance of Building Materials and Products", the combustion performance reaches A1/A2/8/C.
Application	Multi-function hall, opera house, meeting room, cinema, auditorium, hotel, TV station, concert hall, piano room, gymnasium, villa or places with strict acoustic requirements in home life.

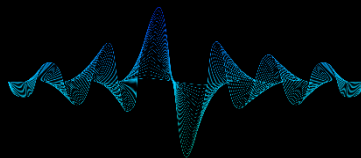
MODELS:



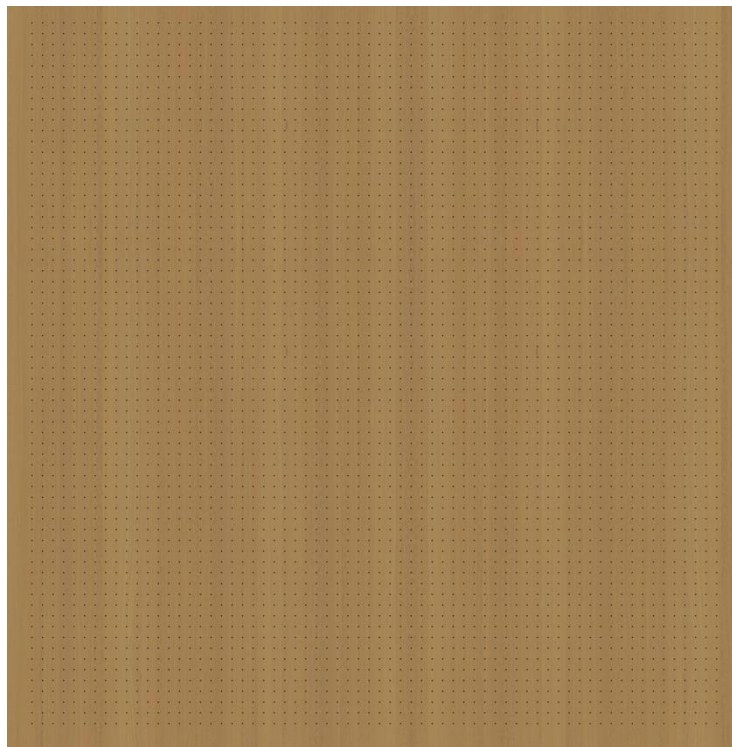
E/V 2/2/0.5



E/V 2.7/2.7/0.5



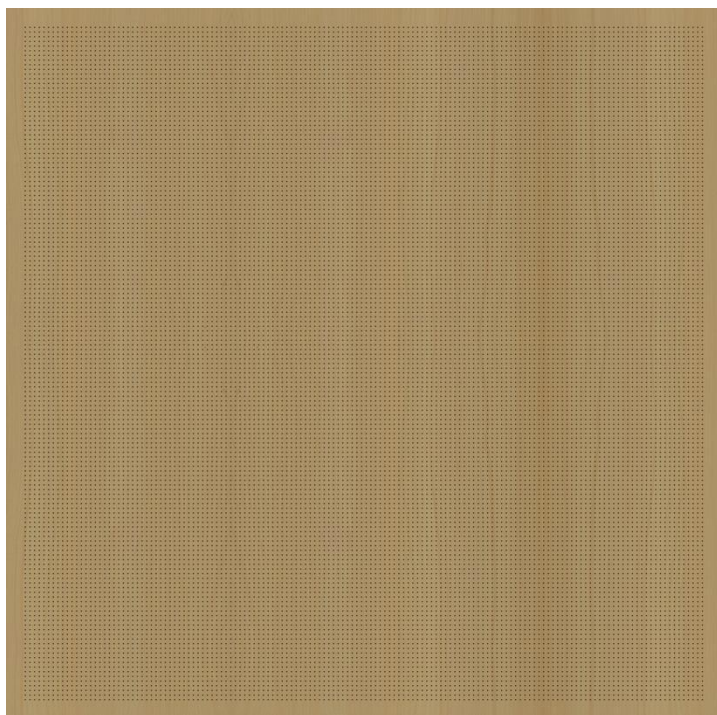
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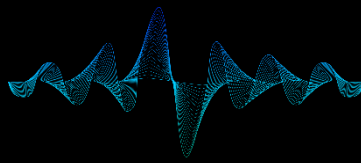
E/V 4/4/0.5



E/V 8/8/0.5



E/V 1.8/1.8/0.5



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INSTALLATION METHOD

We can produce the microperforated acoustic panels for many kinds of installation situation, for both wall and ceiling. In both cases soft acoustic cotton and certain cavity are required for improving the optimal absorption coefficient.



H Profile Installation

leaving gap between each panel, and the gap can be sealed with decorative strip



H Profile Installation

without leaving gap between each panel, but installation might appear uneven



Groove & Tongue Installation

Using groove and tongue to clip each panel together, can leave small gap in between



Direct Installation

Using only gun nail or hanging profile on the back to install the panels, recommend to leave some gap in between

Acoustic Performance

1.8/1.8/0.5 Absorption Coefficient (α)



NRC 0.85

2.7/2.7/0.5 Absorption Coefficient (α)



NRC 0.81

4/4/0.5 Absorption Coefficient (α)



NRC 0.72

8/8/0.5 Absorption Coefficient (α)



NRC 0.64



250-500 HZ : NRC=0.88-0.9



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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	: ACOUSTIC TIMBER WALL AND CEILING PANEL (TK)
Buyer	: FOSHAN SOUND AND ACOUSTICS TECHNOLOGY CO.,LTD
Buyer Item No.	: TK

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.

Sample Receiving Date	: Jun 15, 2021
Test Performing Date	: Jun 15, 2021 to Jun 22, 2021
Test Performed	: Selected test(s) as requested by applicant

Test Result Summary

No.	Test Item	Test(s) Requested	Result(s)	Comments
1	Sound absorption coefficient	ASTM C423—07a	Refer to next page(s)	/
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

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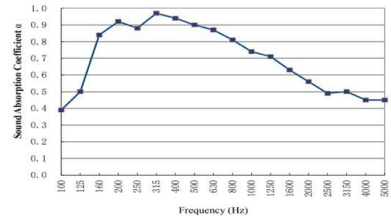
Test Result:

Specifications	Test Specimen mounting type:12 pieces of perforated wood sound absorbing boards (Area:12m ²) were laid on 100mm thick fiberglass in the middle of the floor of the reverberation room and wrapped with 1mm steel panel.
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Test Result

Frequency f (Hz)	Sound absorption coefficient α
100	0.39
125	0.50
160	0.84
200	0.92
250	0.88
315	0.97
400	0.94
500	0.90
630	0.87
800	0.81
1000	0.74
1250	0.71
1600	0.63
2000	0.56
2500	0.49
3150	0.50
4000	0.45
5000	0.45

The Sound Absorption Coefficients curve of the tested specimen
(1/3 Octave band)



***FIREPROOF STANDARD:** SGS BS476 Part 7 : 1997 Class 1 STANDARD



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 : 885×270
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


Toby Yang
Authorized signatory

TEST REPORT

No. : GZIN1907036827CM

Date : Aug 09, 2019

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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

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

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

1. 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 2FR).
2. 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 D3).
3. 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:

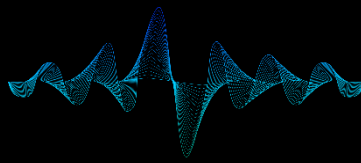
This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

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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GZCCM 039394



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Melamine Finish



025



026



027



028



029



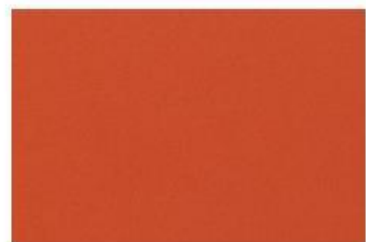
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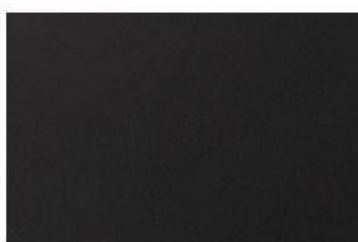
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032



033



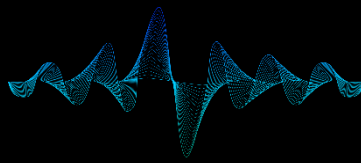
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035



036



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Melamine Finish



037



038



039



040



041



042



043



044



045



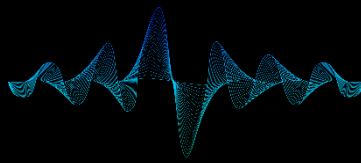
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047



048



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Melamine Finish



049



050



051



052



053



054



055



056



057



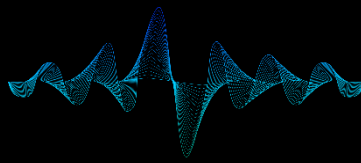
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059



060



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Melamine Finish



061



062



063



064



065



066



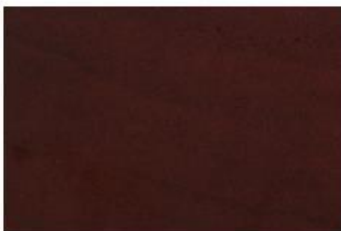
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068



069



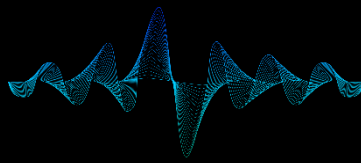
070



071



072



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Classic Series



WY-H215
Maple



WY-H176
Maple



WY-H080
Maple



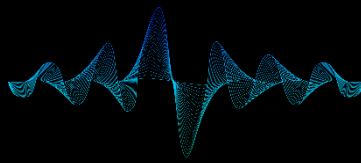
WY-H347
Oak



WY-H137
Oak



WY-H627
Oak



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Classic Series



WY-H267
Oak



WY-H725
Oak



WY-H671
Ashtree



WY-H208
Ashtree



WY-H259
Cherry



WY-H160
Cherry



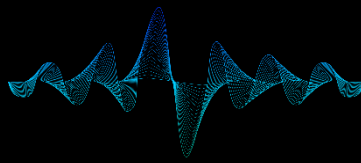
WY-H174
Cherry



WY-H070
Beech



WY-H284
Elm



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Classic Series



WY-H681
Elm



WY-H275
Elm



WY-H557
Osmanthus



WY-H733
Walnut



WY-H657
Walnut



WY-M16193
Teak



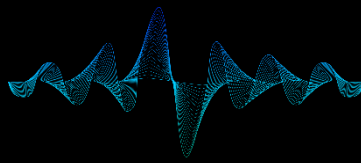
WY-H124
Teak



WY-H744
Eucalyptus

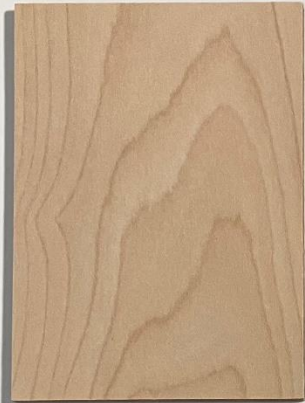


WY-H735
Eucalyptus



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WY-01
European maple



WY-02
Classic white oak



WY-03
Natural gray oak



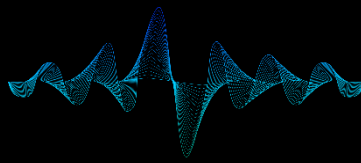
WY-04
Light brown oak



WY-05
North American oak



WY-06
Fineline



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WY-07
Silver line



WY-08
Noble walnut



WY-09
Art walnut



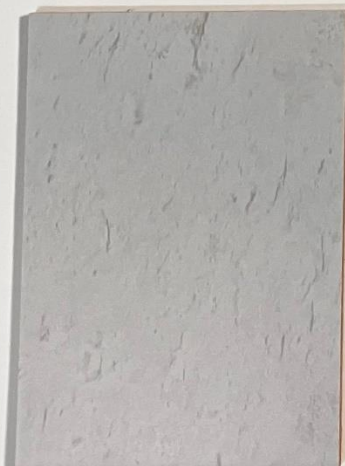
WY-10
Elegant walnut



WY-11
Four seasons elm



WY-12
Ashtree



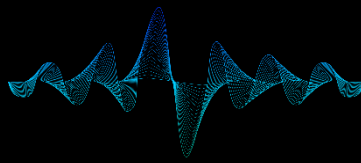
WY-13
Marble A



WY-14
Marble B



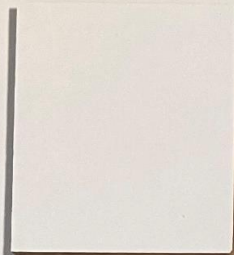
WY-15
Marble C



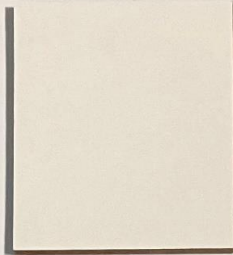
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Pure Color Series



WY-H014
Cream white



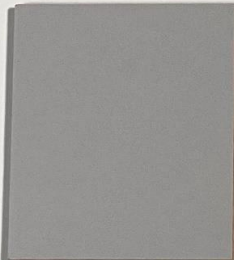
WY-H017
White



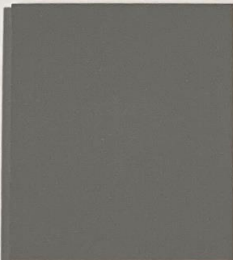
WY-H029
Beige



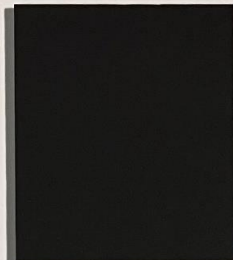
WY-H185
Brushed silver



WY-H001
Light gray



WY-H003
Medium gray



WY-H007
Iron gray



WY-H059
Black



WY-H030
Bright yellow



WY-H033
Orange yellow



WY-H219
Apple green



WY-H045
Pea green



WY-H051
Fruit blue green



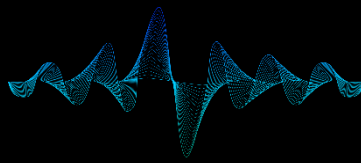
WY-H039
Light blue



WY-H040
Azure blue



WY-H037
Jewelry blue



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HPL Finish



001



002



003



004



005



006



007



008



009



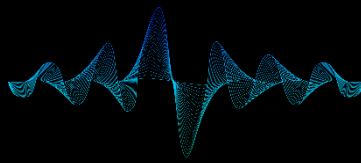
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011



012



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HPL Finish



013



014



015



016



017



018



019



020



021



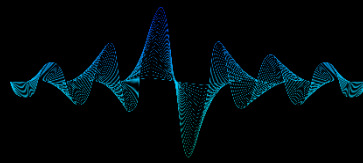
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023

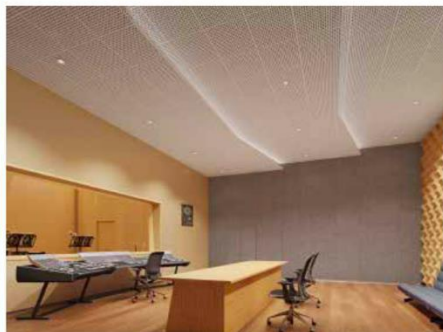
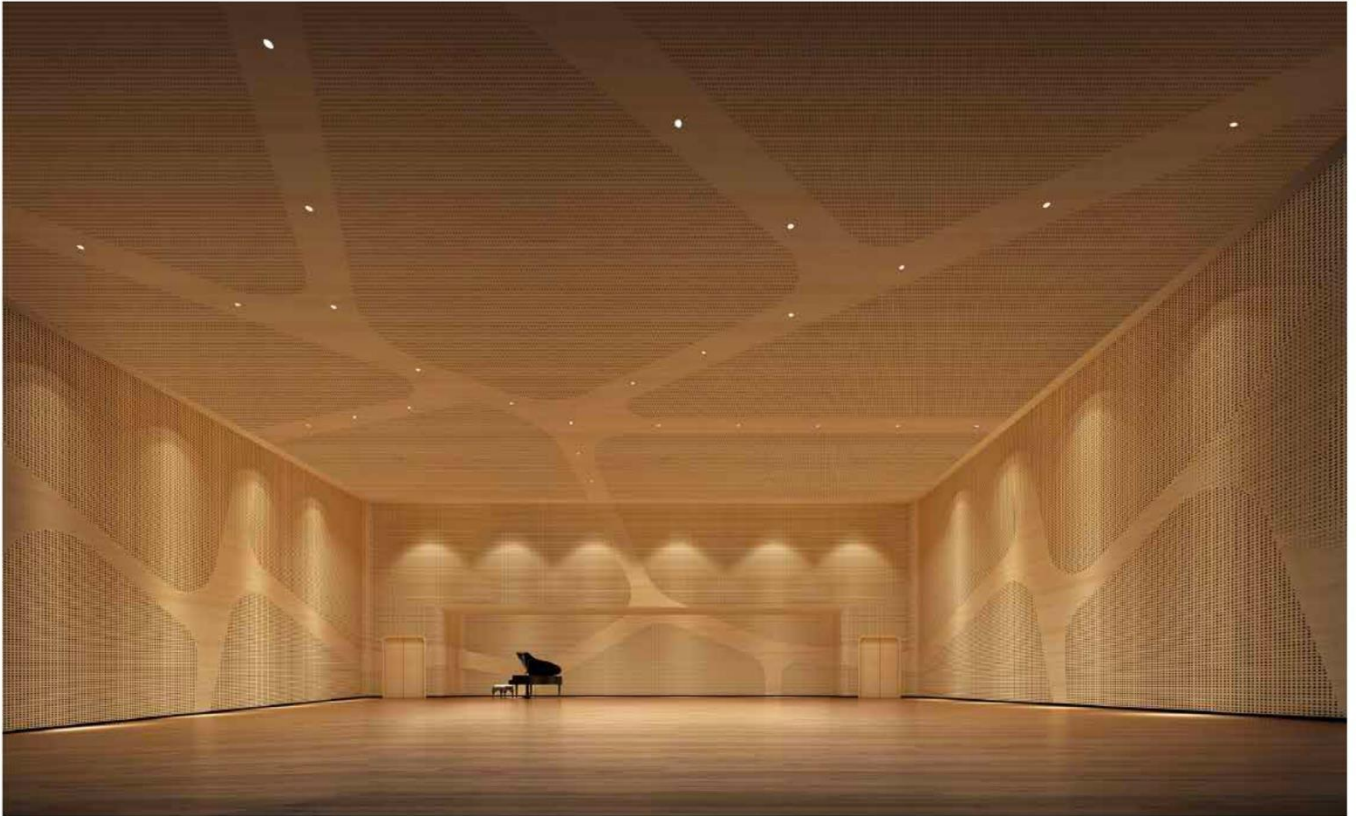


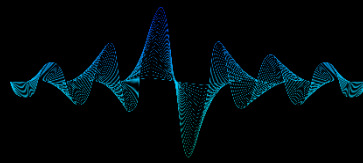
024



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Project Examples





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