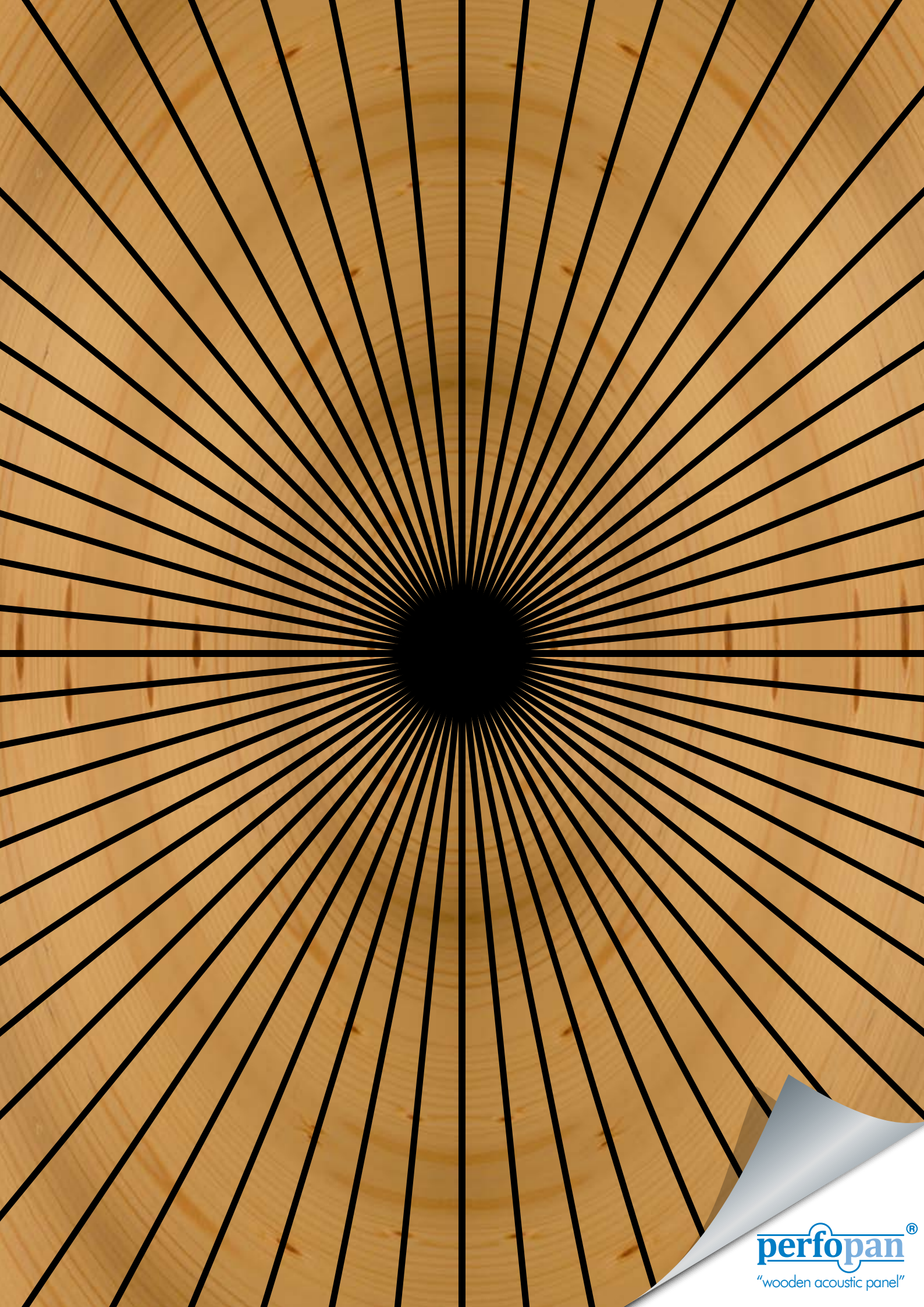

perfopan®
"wooden acoustic panel"

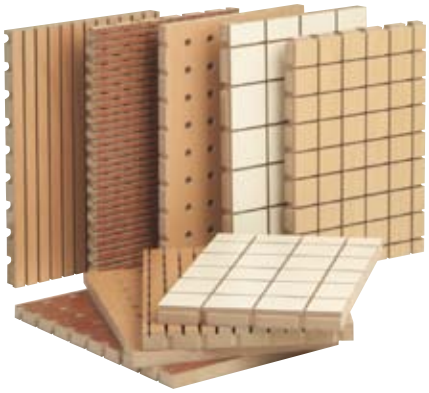
perfopan®

"wooden acoustic panel"

80 year experience, proceeds on its way with **ISUS1932** which took its name from 1932 which is the foundation year of it…

www.perfopan.com

Profile



As a **TURKISH** company, **Perfopan** producing **"Acoustic Wood Panel"** for the first time in our country develops and designs 100% domestic-manufactured sound emission and sound isolation materials for the professional sound industry and renders service to the sector by manufacturing acoustic wall and ceiling panels, and acoustic sound isolation doors.

Since 1932, **Perfopan** has combined its wood production experiences with acoustic wood manufacturing within a self-developing, innovative approach in the sound sector and carries on its international studies with its experienced engineer and architect staff.

Our company catched up the technological innovation, produced its acoustic products by using the state-of-the-art technology and sensitive electronic machines, had its acoustic products subjected to resonance test in **AMERICAN** and **EUROPEAN** standards approved by **DANAK** at **DELTA Dansk Electronic, Lys& Acoustic** laboratories **(EN ISO 354 method)**, and obtained accredited certificates for isolation door tests **(EN ISO 140 – EN ISO 717 method)**.

In addition to our standard and special products within our product range, we perform the required tiling work before the manufacturing, provide comprehensive solutions for the needs, and apply the best performance to the most appropriate spaces.

The yearly production capacity of **Perfopan** is 200.000 m^2 for acoustic ceiling and wall panels and is 4500 pieces for sound isolation doors.

80 - YEAR EXPERIENCE

Being the trademark of **AKTAN MOBILYA** which was founded in 1932 and which is a family corporation, Perfopan carries on rendering wood service by sustaining the family tradition under the name of **ISUS1932** company…

History

Our main company AKTAN FURNITURE FACTORY (Aktan Mobilya) has been established by our grandfather Mehmet Ismet AKTAN three generations ago in 1932.

At that time, the joinery and wood works of the first train station of Ankara which was built by the German companies in Ulus, Ankara were performed and the first step was taken to the wood sector. Also, the wood works of various ministry buildings, the newly built T.B.M.M. Building, the Medical Faculty and the special hospital in Ankara were accomplished in those years.

Aktan Mobilya has selected manufacturing as the main sector within the 80-year time interval since 1932. Aktan Mobilya operating as a family corporation started acoustic wood panel production in 2005 for the first time with its young and dynamic engineer and architect staff as well as its business experience, manufacturing experience and tendering experience.

In 2006, M. Ergin Aktan gave the trademark **PERFOPAN** to Aktan Mobilya.

We would like to express our gratitudes to our dear father **M. Ergin AKTAN**.

Concept

We have carried on our business experience that we gained in our country and in various countries of the world and our solid structure that has occured within the years by adhering to our traditions descending from father to son for 80 years.

Our company performs the projects and productions which it took as concept and fulfills the obligations that it undertook by adopting the international customer satisfaction principle.

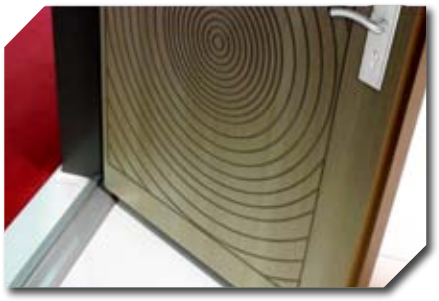
Our Missions

- Quality
- Security
- Comfortable Acoustics
- Unusual Designs
- Delivery from Manufacturing to Installation

Contents

ACOUSTIC WALL PANELS

ACOUSTIC CEILING PANELS



ACOUSTIC AND SOUND ISOLATION DOORS

TECHNICAL INFORMATION

What is Space Acoustics?

An acoustics of a space may disrupt pleasant music or sound and make it wuthering, incomprehensible due to the irregular reflections.

While many things are expected from sound regulators, loudspeakers or any sound-related system, the result may be disappointment.

At this point, it is revealed that the main problem is the space acoustics.

It is the description of the materials that we produce to ensure the sound reaches to the audience in minimum reflection and maximum clarity with the accurate material selected.

perfopan®

"wooden acoustic panel"

ACOUSTIC WALL PANELS

Grooved Wall Panels
Perforated Wall Panels
Reflected Panels
Acoustic Fabric Panels
Elite Acoustic Series
Micro Perforated Panels
Installation Details

ACOUSTIC WALL PANELS

Grooved Wall Panels


Radio Free Asia - Ankara


Al Fateh University - Libya


Cermodern - Ankara


Lotus - Istanbul

DESCRIPTION

Grooved wall panels are the panels improved by Perfopan engineers to provide best sound emission in a decorative way. Acoustic wood panels have grooves in the front and have holes at the back.

USES

All multi-purpose halls, auditoriums, offices, meeting rooms, hotels, theatres, discos, cinemas, restaurants, public buildings, gymnasiums.

TECHNICAL PROPERTIES

Maximum panel dimension: 102.4cmx280cm, 140cmx340cm
Ideal dimensions: 60cmx120cm, 67cmx139cm, 102.4cmx139cm
Melamine Panel: 18mm thickness, weight 13.5kg/m^2
Wood Veneered Panel: 18mm thickness, weight 14kg/m^2
Consult with Perfopan technical office for wood grain direction of the panels.

FIREPROOF SPECIFICATIONS

A) 18mm melamine DIN 4102 – B2
B) 18mm wood veneered combustion delay polish applied – A1

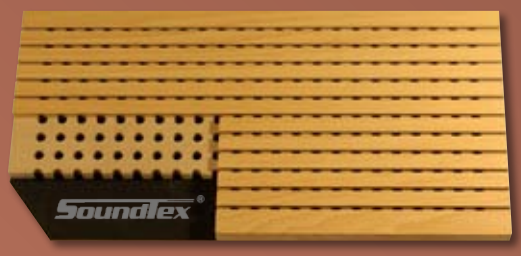
ACOUSTIC EMISSION SPECIFICATIONS

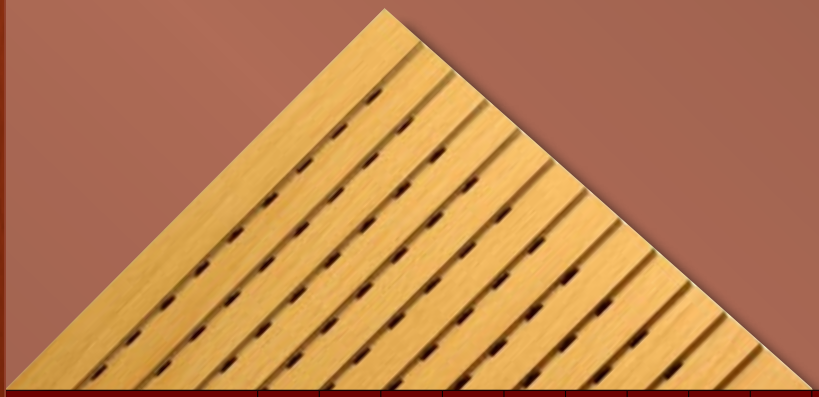
We can produce different type of wall panels for different acoustic performances according to the projects.

ACOUSTIC WALL PANELS

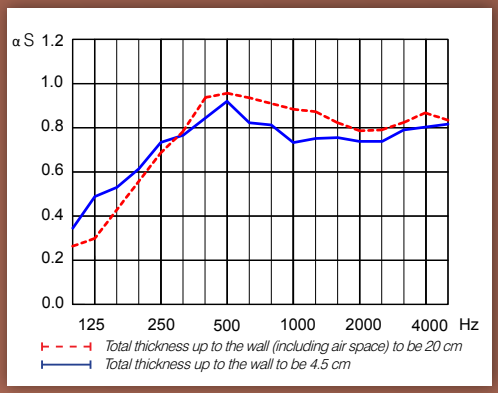
Grooved Wall Panels

CODE NO. 3 F 13A-PR 13 % DS 4000



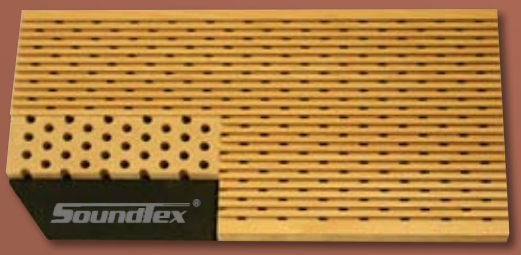


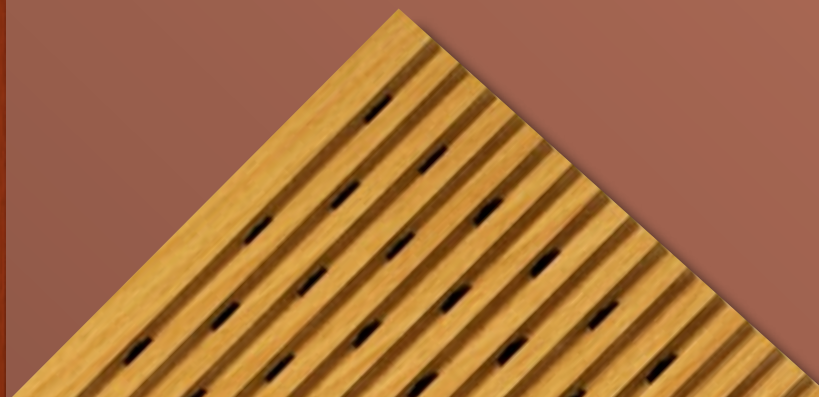
The groove distance is 3.2mm in front of the panel. The distance between each Groove is 13mm. There are 4000 holes/m² at the back of this model. The diameter of each hole is 10mm.
Perforation Ratio: 13 %
Frequency Type: This model provides high acoustic absorption at medium frequency.



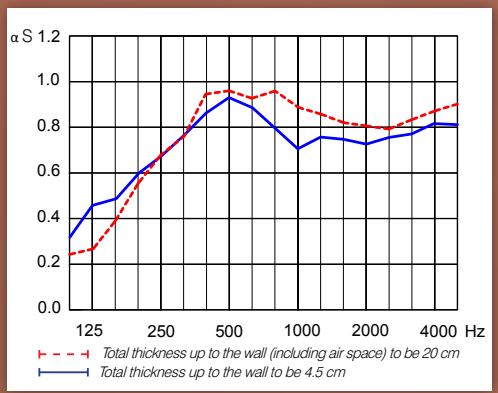
FREQUENCY(HZ)		100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
SOUND ABSORPTION COEFFICIENT	Gap of 20cm	35	50	53	60	71	76	82	90	82	82	67	73	74	73	73	78	81	82
	Rock wool of 4,5cm	28	30	41	55	69	79	93	95	94	93	89	88	82	78	79	83	88	84

CODE NO. 3F 5A - PR 15 % - DS 4000





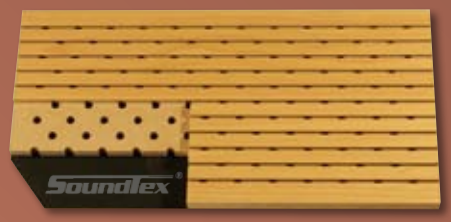
The groove distance is 3.2mm in front of the panel. The distance between each groove is 4.8mm. There are 4000 holes/m² at the back of this model. The diameter of each hole is 12mm.
Perforation Ratio: 15 %
Frequency Type: This model provides high acoustic absorption at medium and high frequencies.



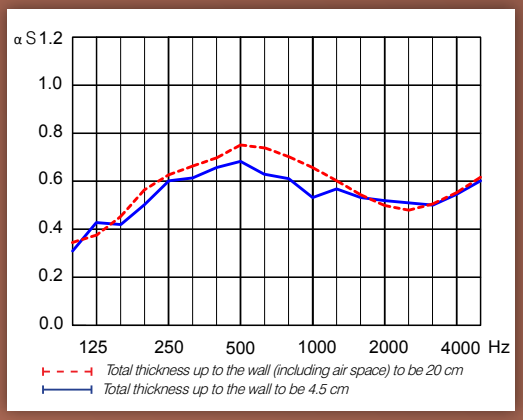
FREQUENCY(HZ)		100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
SOUND ABSORPTION COEFFICIENT	Gap of 20cm	0.29	0.47	0.50	0.60	0.71	0.77	0.86	0.92	0.88	0.80	0.69	0.74	0.74	0.73	0.76	0.78	0.83	0.82
	Rock wool of 4,5cm	0.26	0.28	0.29	0.54	0.67	0.76	0.93	0.94	0.92	0.95	0.91	0.87	0.83	0.81	0.79	0.84	0.88	0.91

Grooved Wall Panels

CODE NO. 3F 13A – PR 6% DS 2000

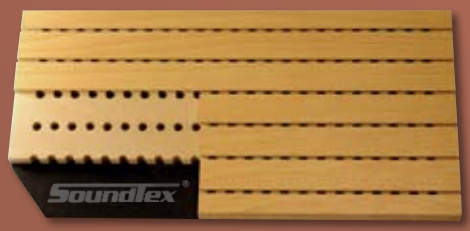


The groove distance is 3.2mm in front of the panel. The distance between each groove is 13mm. There are 2000 holes/m² at the back of this model. The diameter of each hole is 10mm.
Perforation Ratio: 6 %
Frequency Type: This model provides high acoustic absorption at low and mid frequencies.

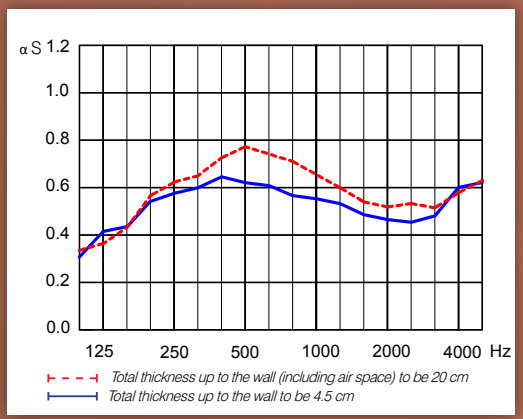


FREQUENCY(HZ)		100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
SOUND ABSORPTION COEFFICIENT	Gap of 20cm	0.28	0.46	0.45	0.51	0.60	0.61	0.66	0.69	0.63	0.62	0.52	0.55	0.53	0.53	0.52	0.52	0.56	0.60
	Rock wool of 4,5cm	0.31	0.37	0.45	0.56	0.63	0.68	0.72	0.75	0.74	0.68	0.65	0.61	0.54	0.51	0.49	0.53	0.56	0.61

CODE NO. 4F28A-PR-8% DS 2000



The groove distance is 4mm in front of the panel. The distance between each groove is 28mm. There are 2000 holes/m² at the back of this model. The diameter of each hole is 10mm.
Perforation Ratio: 8 %
Frequency Type: This model provides high acoustic absorption at low and mid frequencies.



FREQUENCY(HZ)		100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
SOUND ABSORPTION COEFFICIENT	Gap of 20cm	0.30	0.41	0.42	0.51	0.56	0.57	0.59	0.65	0.63	0.61	0.54	0.54	0.52	0.50	0.49	0.53	0.61	0.62
	Rock wool of 4,5cm	0.32	0.34	0.42	0.56	0.63	0.66	0.72	0.76	0.73	0.70	0.65	0.61	0.53	0.52	0.52	0.51	0.56	0.64

ACOUSTIC WALL PANELS

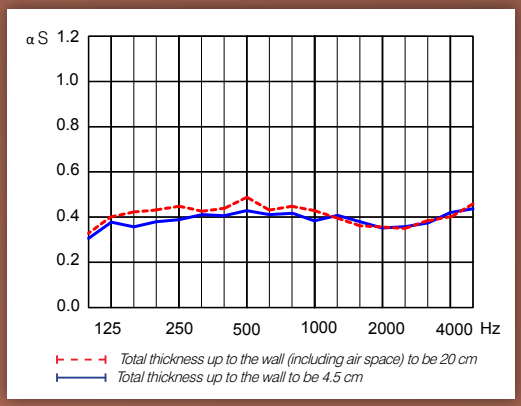
Grooved Wall Panels

CODE NO. DK 32x32 PR 6% DS 1000

The diameter of each hole is 10mm. There are 1000 holes/m² at the back of the panel. The distance between the holes are 32mm. There are horizontal and vertical grooves at the back. Thicknesses are 3.2mm. These grooves intersect at the center of the holes.

Perforation Ratio: 6 %

Frequency Type: This model provides high acoustic absorption at high frequency.



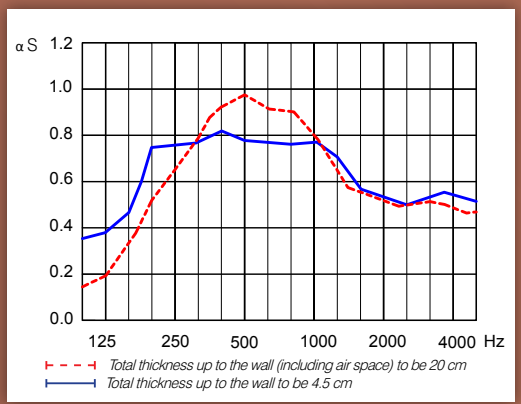
FREQUENCY(HZ)		100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
SOUND ABSORPTION COEFFICIENT	Gap of 20cm	31	37	35	37	39	41	41	44	41	42	38	41	38	35	35	38	43	48
	Rock wool of 4,5cm	32	40	42	42	44	43	45	48	43	44	42	39	36	36	36	39	40	48

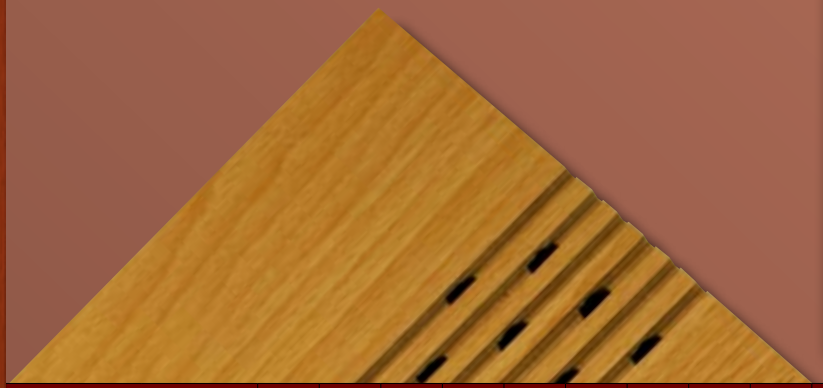
CODE NO. GBM PR % 7 DS 3000

In front of the panel, there are six grooves. The distance between each groove is 5mm and the saw thicknesses are 43mm. There are versatile 3000 holes/m² at the back. The diameter of each hole is 8mm.

Perforation Ratio: 7 %

Frequency Type: This model provides high acoustic absorption at high frequency.





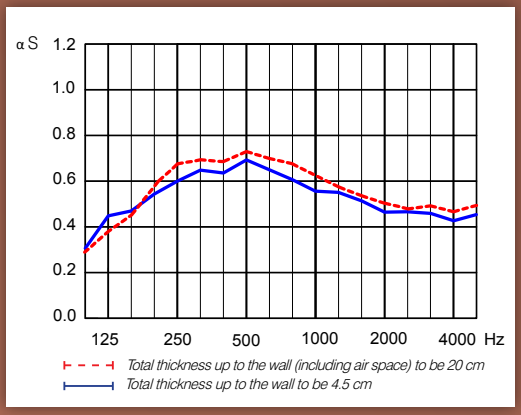
FREQUENCY(HZ)		100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
SOUND ABSORPTION COEFFICIENT	Gap of 20cm	0.37	0.42	0.48	0.58	0.71	0.78	0.82	0.67	0.71	0.79	0.75	0.44	0.61	0.51	0.54	0.51	0.55	0.56
	Rock wool of 4,5cm	0.14	0.28	0.45	0.49	0.69	0.85	1.10	1.07	0.9	0.72	0.81	0.53	0.61	0.48	0.52	0.49	0.46	0.43

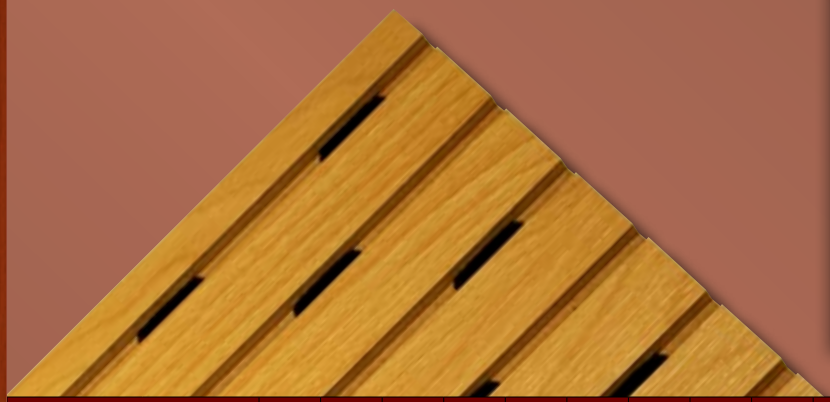
ACOUSTIC WALL PANELS

Grooved Wall Panels

SLT 7x7 - PR %12 DS 270

The groove distance is 4 mm in front of the panel. The distance between each groove is 70mm. There are slot rooms at the back of the grooves. These slots are at the length of 70mm and the slot quantity is 270 piece/m². The perforation ratio varies according to the width of the grooves and the slot dimensions.
Perforation Ratio: 12 %
Frequency Type: This model provides high acoustic absorption at low and mid frequencies.

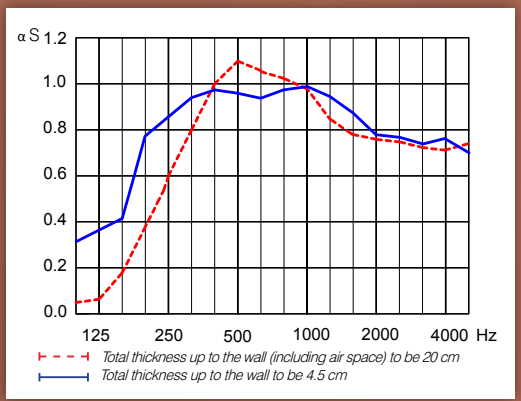




FREQUENCY(HZ)		100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
SOUND ABSORPTION COEFFICIENT	Gap of 20cm	0.27	0.48	0.49	0.55	0.60	0.65	0.64	0.71	0.66	0.61	0.53	0.52	0.50	0.46	0.46	0.46	0.43	0.45
	Rock wool of 4,5cm	0.31	0.36	0.47	0.58	0.67	0.69	0.67	0.74	0.70	0.69	0.62	0.57	0.52	0.50	0.47	0.50	0.49	0.50

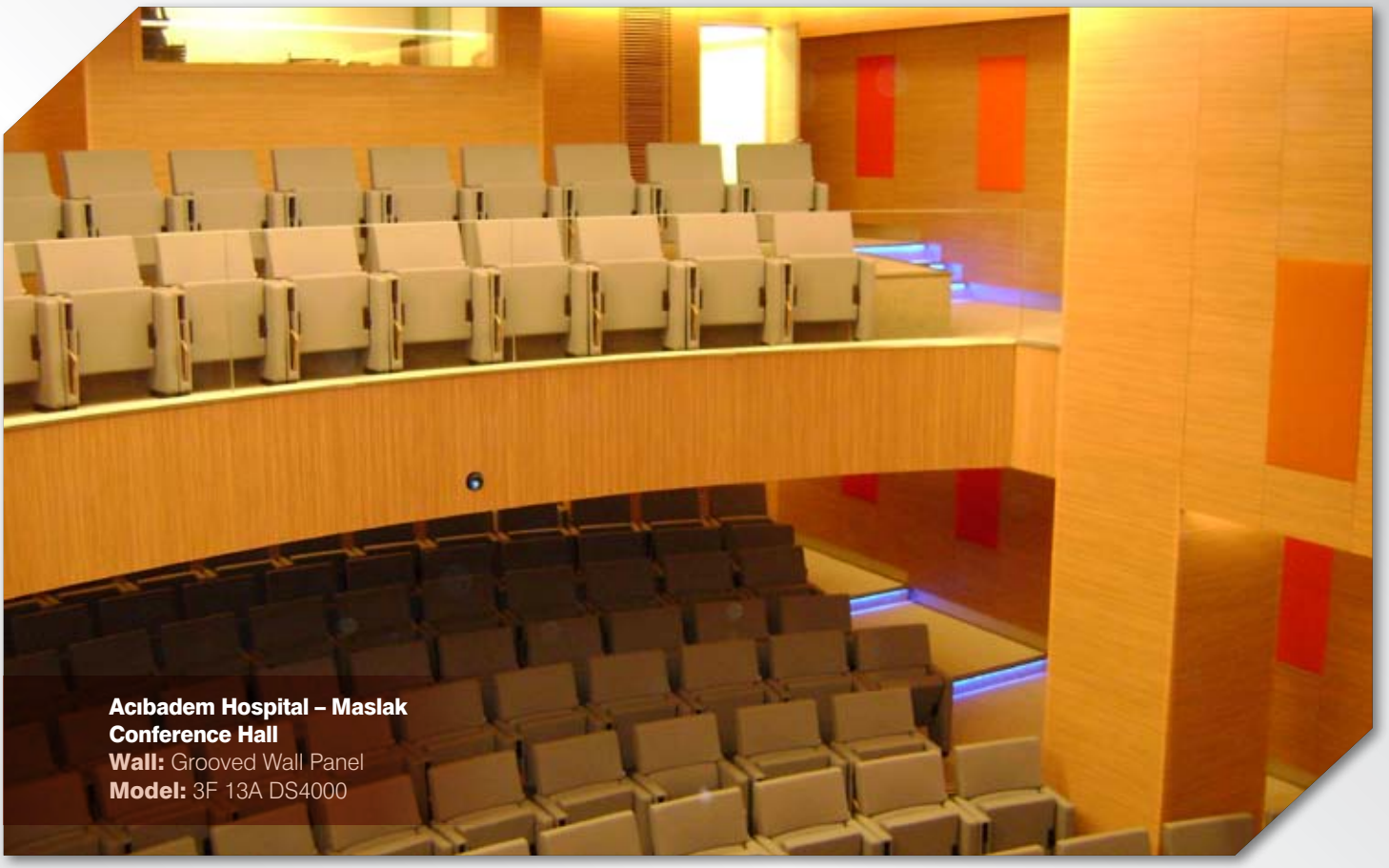
2F 6A - PR % 10 DS 4000

The groove distance is 2mm in front of the panel. The distance between each groove is 6 mm. There are 4000 holes/m² at the back of this model. The diameter of each hole is 8mm.
Perforation Ratio: 10 %
Frequency Type: This model provides high acoustic absorption at low and mid frequencies.

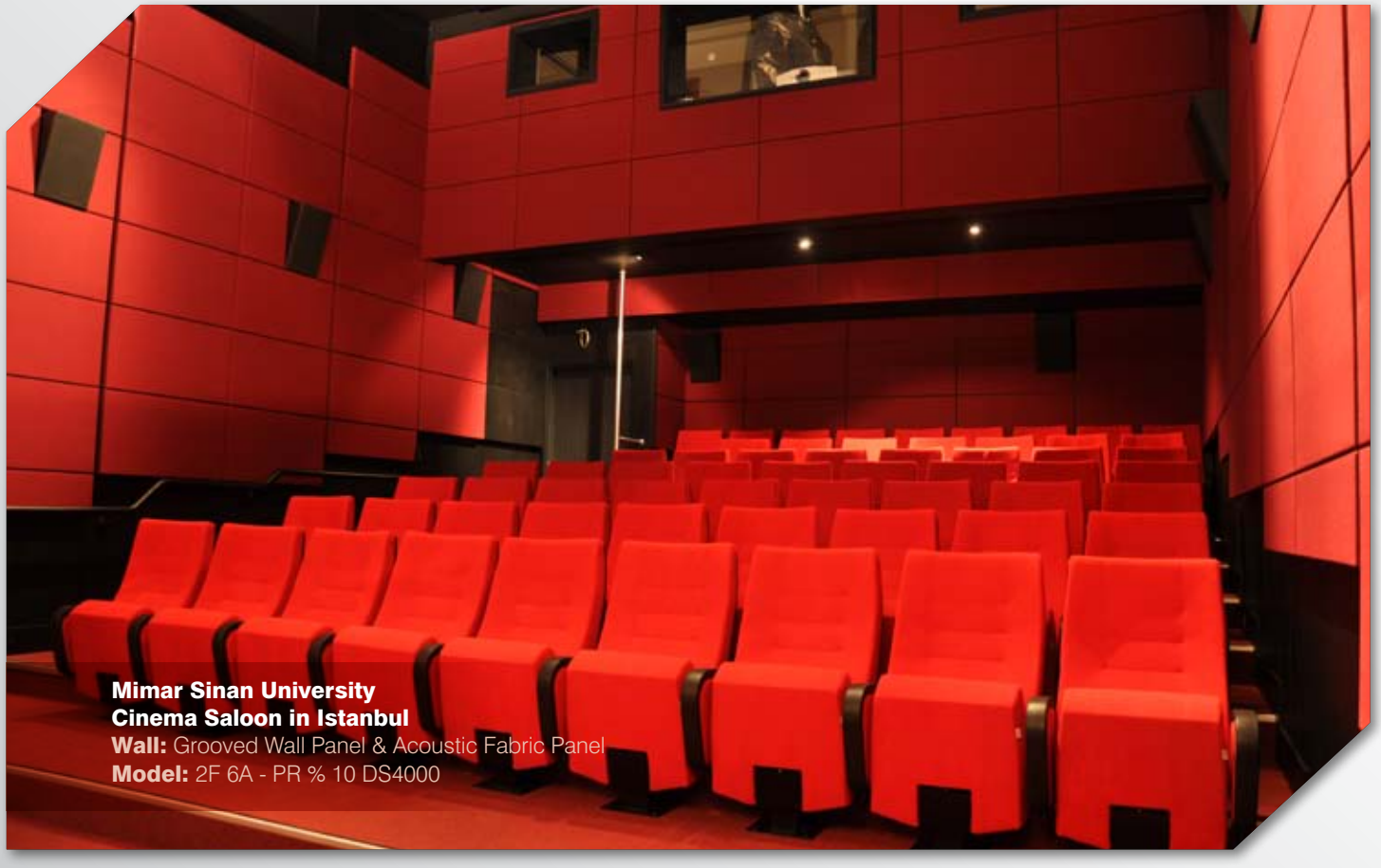


α w	Euro	NRC
0,85 M	B	0,91
0,80 M	B	0,86

Grooved Wall Panels



Acıbadem Hospital – Maslak Conference Hall
Wall: Grooved Wall Panel
Model: 3F 13A DS4000



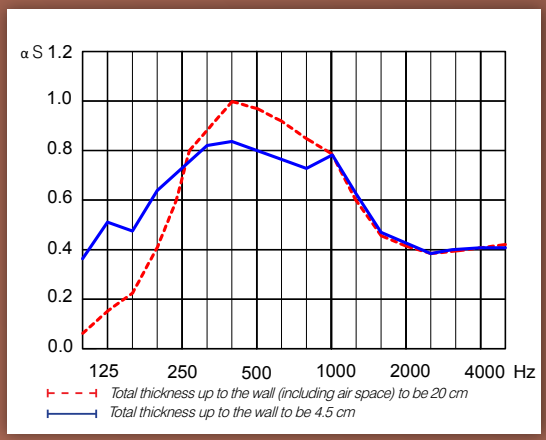
Mimar Sinan University Cinema Saloon in Istanbul
Wall: Grooved Wall Panel & Acoustic Fabric Panel
Model: 2F 6A - PR % 10 DS4000

Grooved Wall Panels

2F 30A - PR % 3,5 DS 2000

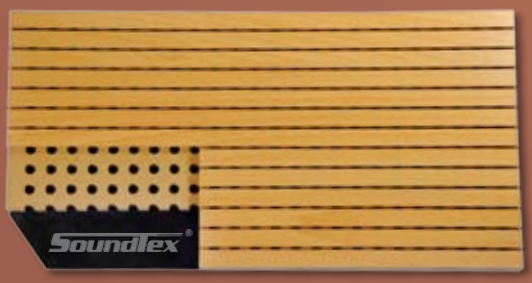
NEW PRODUCT

The groove distance is 2mm in front of the panel. The distance between each groove is 30 mm. There are 2000 holes/m² at the back of this model. The diameter of each hole is 8mm.
Perforation Ratio: 3.5 %
Frequency Type: This model provides high acoustic absorption at low frequency.



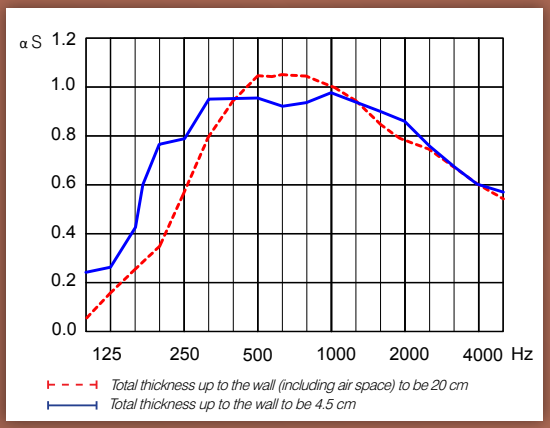
α w	Euro	NRC
0,55 LM	D	0,68
0,50 LM	D	0,72

2F 14A - PR % 8,5 DS 4000



NEW PRODUCT

The groove distance is 2mm in front of the panel. The distance between each groove is 14 mm. There are 4000 holes/m² at the back of this model. The diameter of each hole is 8mm.
Perforation Ratio: 8.5 %
Frequency Type: This model provides high acoustic absorption at low frequency.



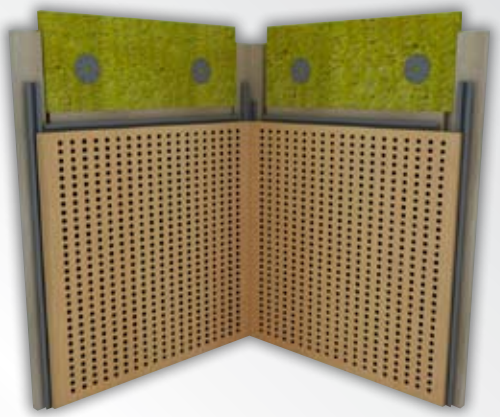
α w	Euro	NRC
0,80 M	B	0,88
0,75 M	C	0,87

Ankara University Medical Faculty
Morphology Conference Hall
Wall: Grooved Wall Panel
Model: 4F 28A

Ceiling: Perforated Ceiling Tile
Model: TD 32 x 32 x 8mmØ

Perforated Wall Panels

Cermodern - Ankara



DESCRIPTION

Perforated wall panels are the panels improved by Perfopan engineers to provide best sound emission in a decorative way. Perforated panels have two types as full holed and stepwised. Full holed models are perforated as thick as the panels. Stepwised models are perforated from both sides and holes become double roomy panels.

USES

All multi-purpose halls, auditoriums, offices, meeting rooms, hotels, theatres, discos, cinemas, restaurants, public buildings, gymnasiums.

TECHNICAL PROPERTIES

Maximum panel dimension: 102.4cmx280cm, 140cmx340cm
Ideal dimensions: 60cmx120cm, 67cmx139cm, 102.4cmx139cm
Melamine Panel: 18mm thickness, weight 13.5kg/m^2
Wood Veneered Panel: 18mm thickness, weight 14kg/m^2
Consult with Perfopan technical office for wood grain direction of the panels.

FIREPROOF SPECIFICATIONS

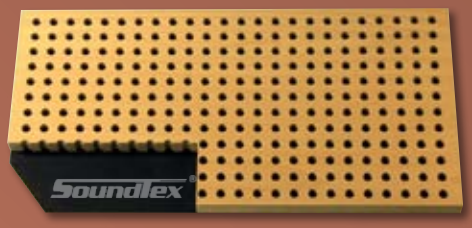
A) 18mm melamine DIN 4102 – B2
B) 18mm wood veneered combustion delay polish applied – A1

ACOUSTIC EMISSION SPECIFICATIONS

We can produce different type of wall panels for different acoustic performances according to the projects.

Perforated Wall Panels

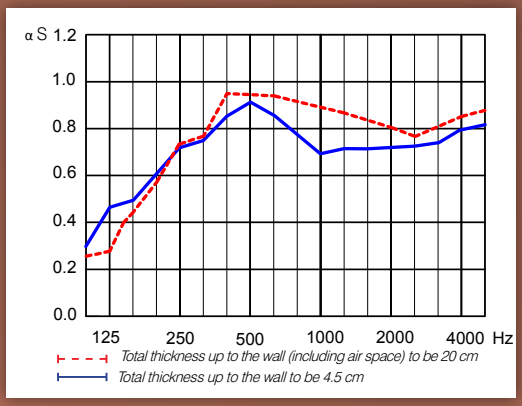
TD 16x16x8mm Ø PR %20-DS 4000

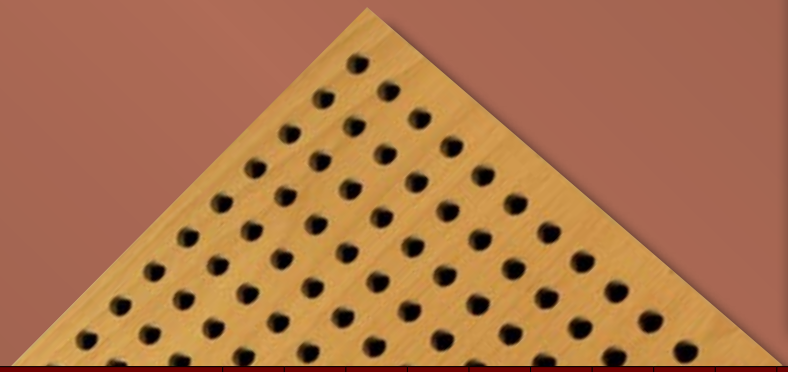


This panel is Ø 8mm full holed model. There are 4000 full holes/m² in this model. The distance between the holes is 16mm.

Frequency Type: This model provides high acoustic absorption at medium and high frequencies.

Perforation Ratios: Ø 8mm Perforation 20% Ø 6mm Perforation 11.5% Ø 5mm Perforation 8% Ø 4mm Perforation 5% Ø 3mm Perforation 3%





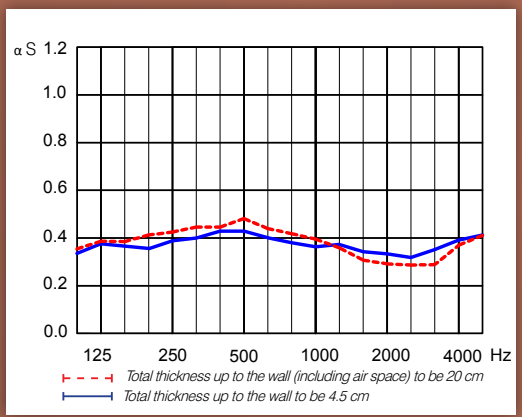
FREQUENCY(HZ)		100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
SOUND ABSORPTION COEFFICIENT	Gap of 20cm	0.30	0.47	0.49	0.59	0.71	0.75	0.85	0.92	0.85	0.78	0.68	0.69	0.70	0.71	0.73	0.77	0.80	0.82
	Rock wool of 4,5cm	0.26	0.29	0.44	0.56	0.70	0.77	0.95	0.95	0.95	0.93	0.91	0.87	0.82	0.79	0.77	0.81	0.87	0.89

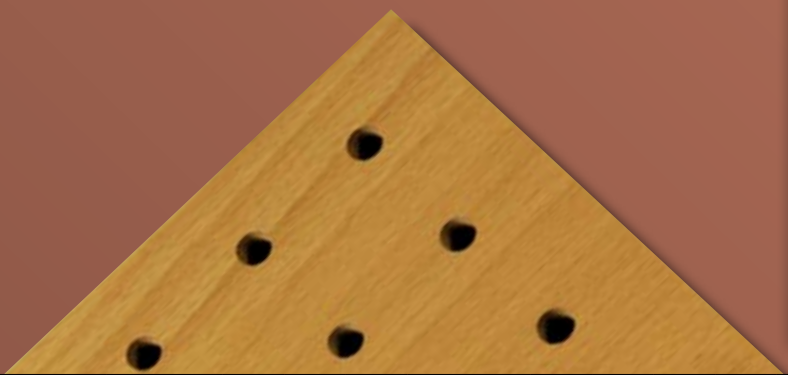
TD 32X32x8mm Ø PR %5-DS 1000

This panel is Ø 8mm full holed model. There are 1000 full holes/m² in this model. The distance between the holes is 32mm.

Frequency Type: This model provides high acoustic absorption at medium and low frequencies.

Perforation Ratio: Ø 6mm perforation 5%





FREQUENCY(HZ)		100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
SOUND ABSORPTION COEFFICIENT	Gap of 20cm	0.31	0.37	0.36	0.36	0.39	0.40	0.44	0.44	0.40	0.38	0.35	0.35	0.32	0.31	0.29	0.34	0.39	0.41
	Rock wool of 4,5cm	0.35	0.38	0.38	0.42	0.43	0.46	0.46	0.50	0.45	0.44	0.39	0.35	0.33	0.31	0.30	0.31	0.37	0.41

ACOUSTIC WALL PANELS

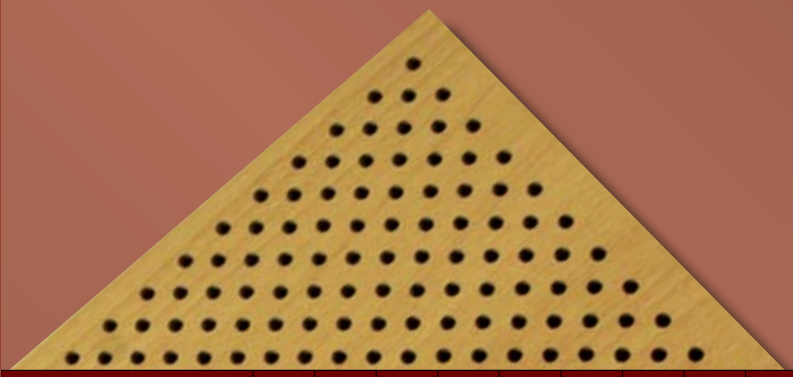
Perforated Wall Panels

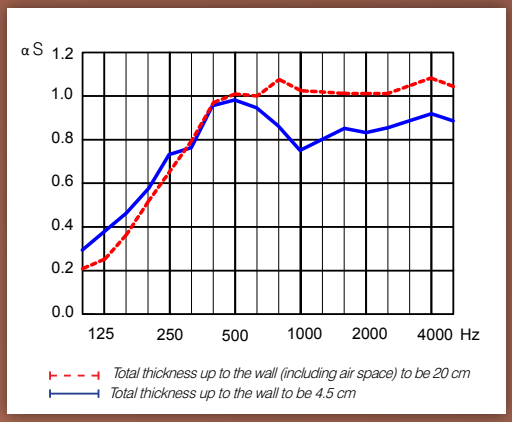
TD 16x16x6mm Ø PR %23-DS 8000

This panel is Ø 6mm full holed model. There are 8000 full holes/m² perforated as crossed in this model. The distance between the holes is 16mm.

Frequency Type: This model provides high acoustic absorption at high frequency.

Perforation Ratio: Ø 6mm perforation 23%





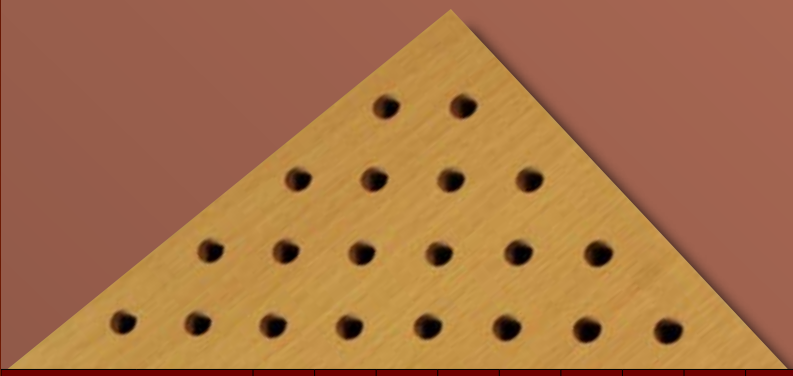
FREQUENCY(HZ)		100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
SOUND ABSORPTION COEFFICIENT	Gap of 20cm	27	38	46	58	73	75	94	98	92	85	73	80	86	85	87	90	91	89
	Rock wool of 4,5cm	21	26	35	53	68	81	99	1.02	1.00	1.08	1.04	1.04	1.03	1.02	1.02	1.07	1.09	1.05

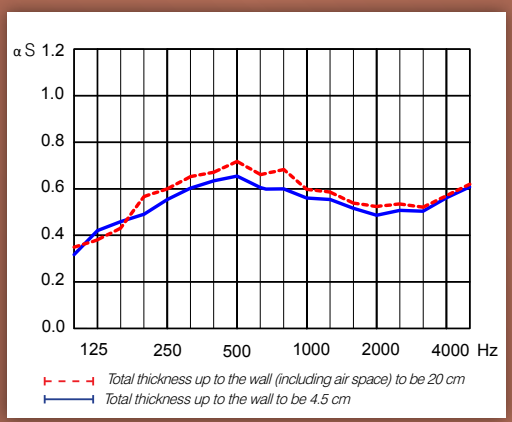
TD 32x32x8mm Ø PR %10-DS 2000

This panel is Ø 8mm full holed model. There are 2000 full holes/m² perforated as crossed in this model. The distance between the holes is 32mm.

Frequency Type: This model provides high acoustic absorption at medium and low frequency.

Perforation Ratio: Ø 8mm perforation 10%





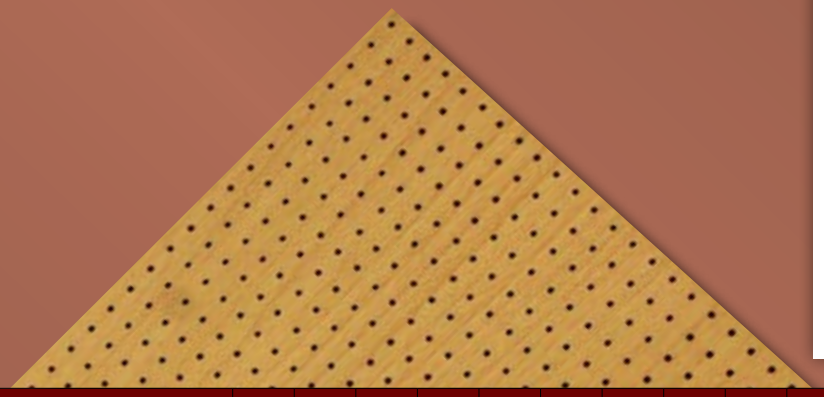
FREQUENCY(HZ)		100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
SOUND ABSORPTION COEFFICIENT	Gap of 20cm	30	45	47	49	54	60	64	65	61	59	54	54	51	49	51	51	58	61
	Rock wool of 4,5cm	31	36	45	56	60	67	69	72	64	67	60	58	53	51	52	51	56	62

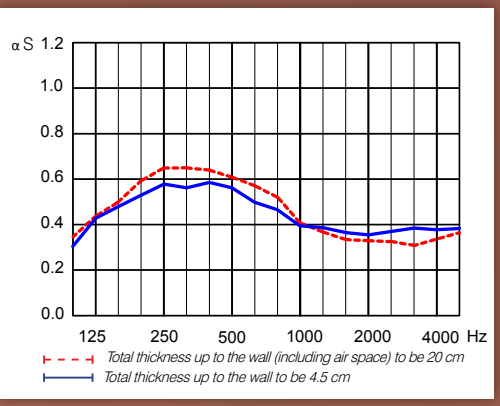
ACOUSTIC WALL PANELS

Perforated Wall Panels

TD 8x8x2mm Ø PR %5-DS 16000

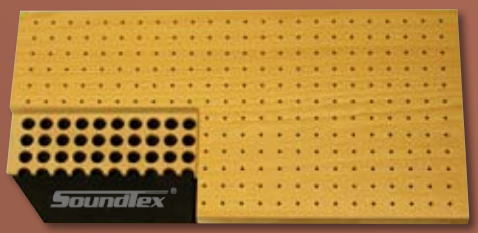
This panel is Ø 2mm full holed model. There are 16000 full holes/m² in this model. The distance between the holes is 8mm.
Frequency Type: This model provides high acoustic absorption at medium frequency.
Perforation Ratios: Ø 1mm Perforation 2%
Ø 2mm Perforation 5%
Ø 3mm Perforation 12%



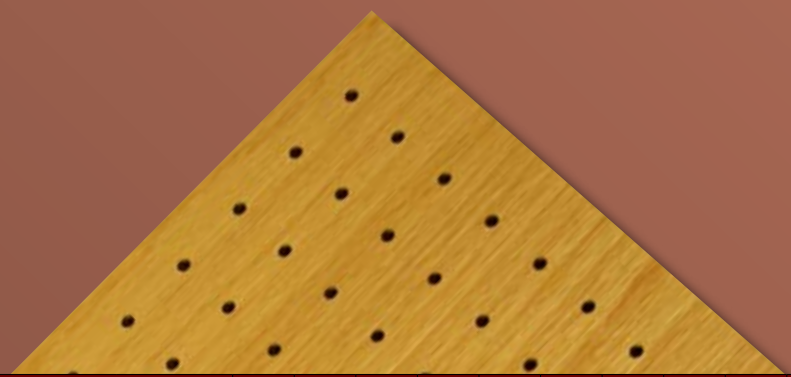


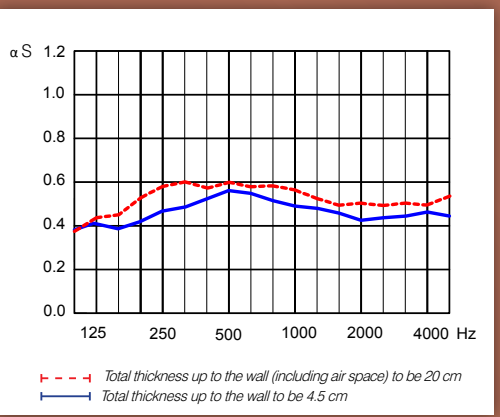
FREQUENCY(HZ)		100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
SOUND ABSORPTION COEFFICIENT	Gap of 20cm	0.29	0.45	0.51	0.54	0.57	0.56	0.58	0.56	0.48	0.46	0.39	0.39	0.37	0.34	0.35	0.36	0.36	0.36
	Rock wool of 4,5cm	0.34	0.42	0.48	0.59	0.66	0.67	0.66	0.62	0.55	0.50	0.42	0.38	0.34	0.33	0.33	0.32	0.33	0.37

KD 16x16x3/12mm Ø PR %8-DS 4000



This model is perforated from both sides. Front perforation of the panel is Ø 5mm. The distance between the holes is 16mm. Back perforation of the panel is Ø 10mm. There are 4000 holes/m² perforated as stepwised in this model.
Frequency Type: This model provides high acoustic absorption at low frequency.
Perforation Ratio: Ø 5mm perforation 8%



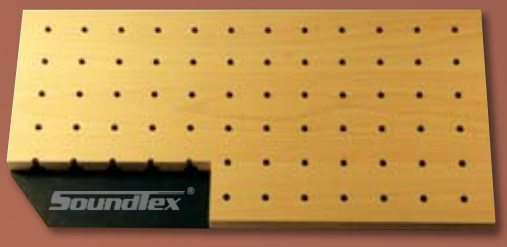


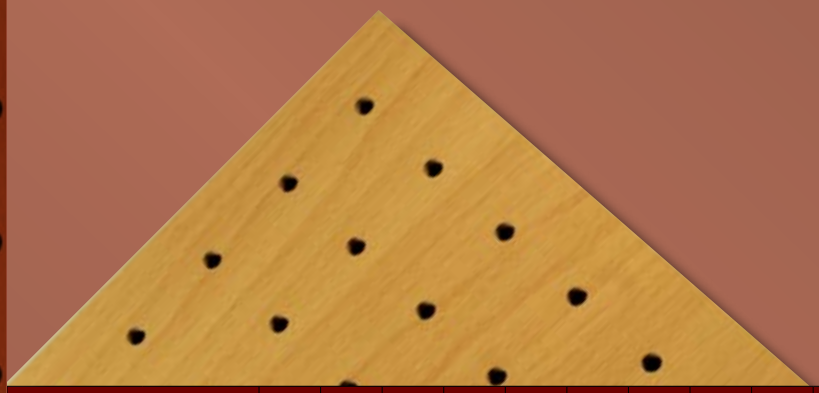
FREQUENCY(HZ)		100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
SOUND ABSORPTION COEFFICIENT	Gap of 20cm	32	42	59	68	77	81	77	67	50	43	41	39	34	28	23	19	14	11
	Rock wool of 4,5cm	20	24	36	55	78	92	1.06	95	77	58	47	38	31	24	21	16	13	13

ACOUSTIC WALL PANELS

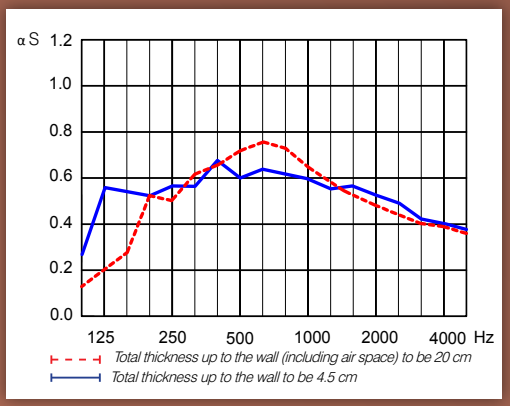
Perforated Wall Panels

KD 32x32 6mm Ø PR %3-DS 1000





This model is perforated from both sides. Front perforation of the panel is Ø 6mm. The distance between the holes is 32mm. Back perforation of the panel is Ø 12mm. There are 1000 holes/m² perforated as stepwised in this model.
Frequency Type: This model provides high acoustic absorption at low frequency.
Perforation Ratio: Ø 6mm perforation 3%



FREQUENCY(HZ)		100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
SOUND ABSORPTION COEFFICIENT	Gap of 20cm	31	37	35	37	39	41	41	44	41	42	38	41	38	35	35	38	43	48
	Rock wool of 4,5cm	32	40	42	42	44	43	45	48	43	44	42	39	36	36	36	39	40	48

Cermodern Art Center,
Main Conference Hall - Ankara
Wall: Perforated Wall Panel
Model: TD 32 x 32 x 8mm Ø – DS 2000

Conference Hall
Corner Junction Wall Detail
Wall: Perforated Wall Panel
Model: TD 32 x 32 x 8mm Ø – DS 2000

ACOUSTIC WALL PANELS

Reflected Panels

Al Fateh University
Class Amphitheatres- LIBYA
Wall: Reflected Panel
Model: YST – KNL / 3 x 13

DESCRIPTION

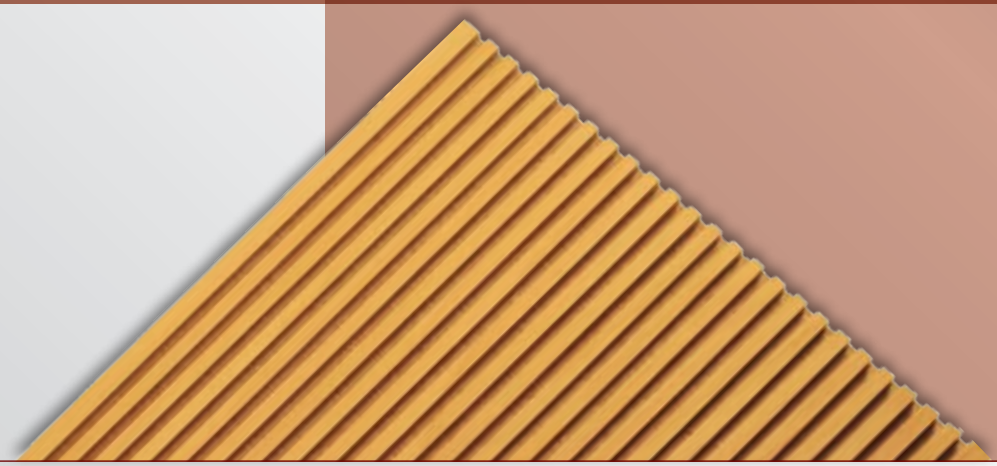
The reflected panels produced in order to direct the required sounds and to reinforce by diffusing the ways of the sound in volume. In the reflected panels, the process is applied only on the front surface. The reflected models are divided into two groups as grooved and perforated. The panels do not absorb the sound as there is no hole at the back of the panels. The panels absorb some amount of the sound and ensure that the sound is reflected with quality to the accurate direction.

CODE NO. YST – KNL / 3 x 5

In this panel, the thickness of the grooves is 3.2mm and the width between the grooves is 5mm.

The depth of the grooves is 4-5mm. The depth of the grooves is adjusted according to the need of acoustic calculations.

The grooves are on the hall side. There is no groove in the back. This model has 125rm/m^2 grooves.



Reflected Panels

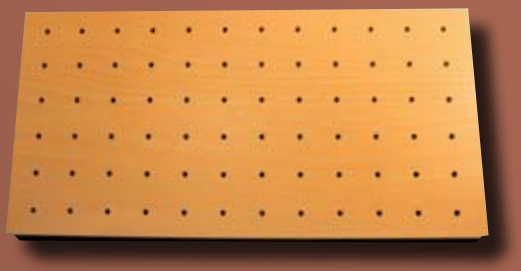
CODE NO. YST - KNL / 3 x 13

In this panel, the thickness of the grooves is 3.2mm and the width between the grooves is 13mm.

The depth of the grooves is 4-5mm. The depth of the grooves is adjusted according to the need of acoustic calculations.

The grooves are on the hall side. There is no groove in the back. This model has 62,5rm/m² grooves.

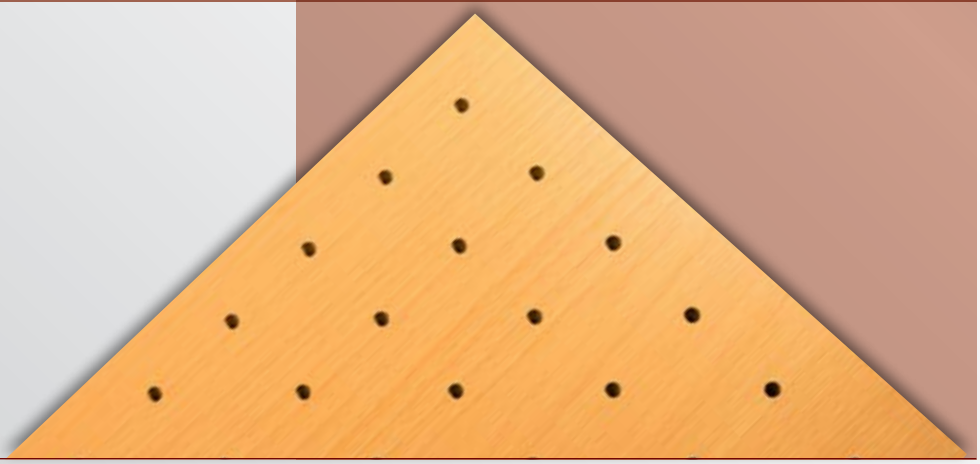
CODE NO. YST - DLK / 32 x 32



This panel is perforated from the front and the depths are 4-5mm. The distance between the holes and axes are 16mm, 20mm or 32mm.

Hole diameters: Ø 3mm, Ø 4mm, Ø 5mm, Ø 6mm or Ø 8 mm.

The holes are on the hall side and there is no hole at the back of the panel.

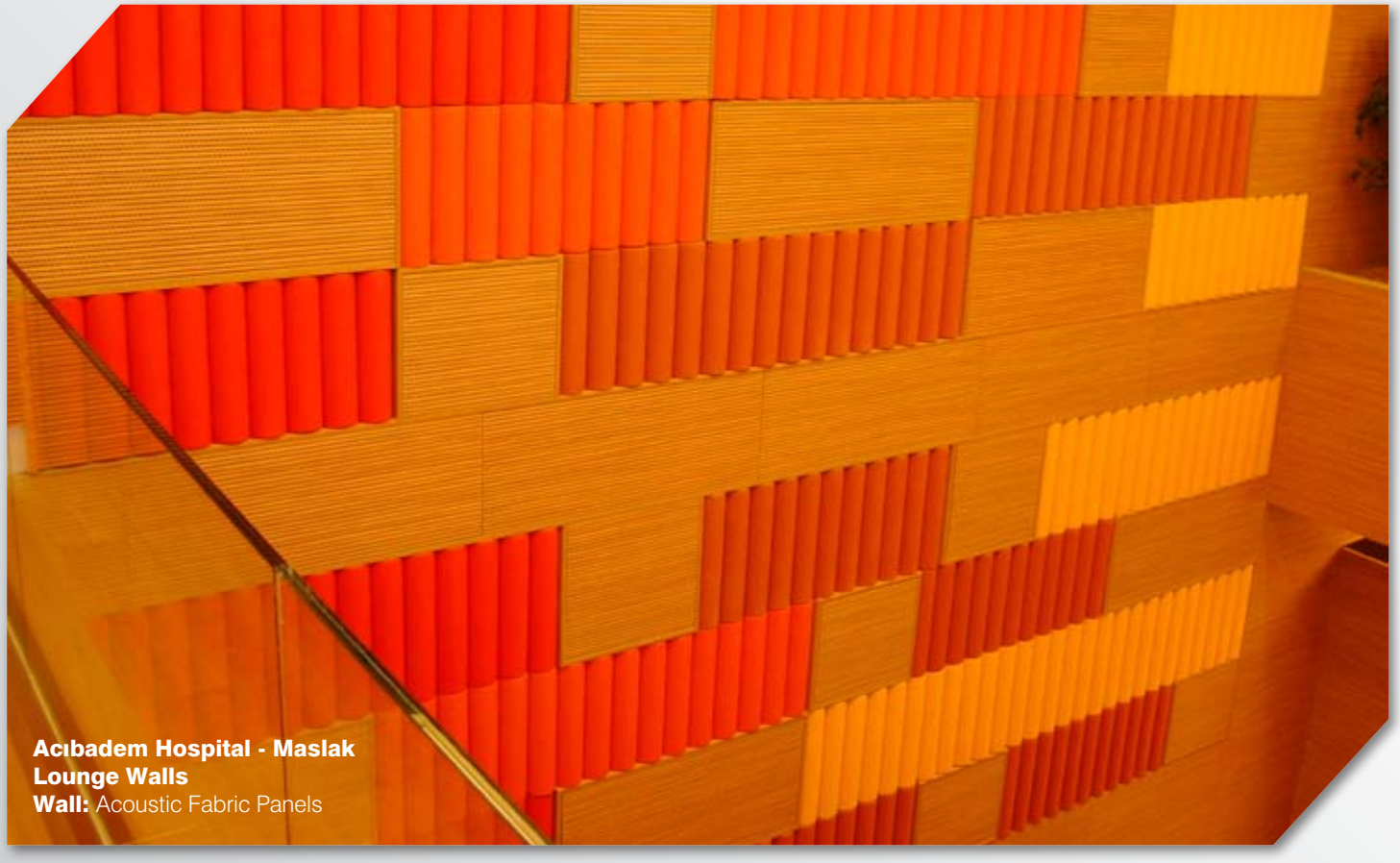


Acoustic Fabric Panels

Ankara University
50th Year Conference Hall
Wall: Acoustic Fabric Panel

DESCRIPTION

ACOUSTIC FABRIC: The acoustic fabrics used in front of the panels are woven from the materials resistant to corrosion, discoloration and fire. According to the request, we can cover any color you prefer. For model and color options, consult with Perfopan technical office. In the acoustic fabric panels, internationally certified fabrics are used.

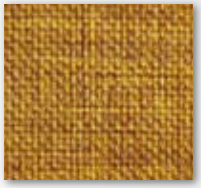


Acıbadem Hospital - Maslak
Lounge Walls
Wall: Acoustic Fabric Panels

Acoustic Fabric Panels

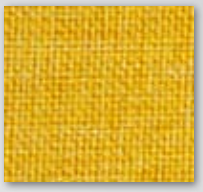
COLOR SCALE


AKP - 01


AKP - 02


AKP - 03


AKP - 04


AKP - 05


AKP - 06


AKP - 07


AKP - 08


AKP - 09


AKP - 10


AKP - 11


AKP - 12


AKP - 13


AKP - 14


AKP - 15


AKP - 16


AKP - 17


AKP - 18


AKP - 19


AKP - 20


AKP - 21


AKP - 22


AKP - 23

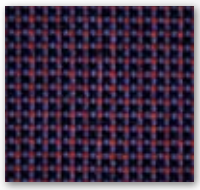

AKP - 24


AKP - 25


AKP - 26


AKP - 27

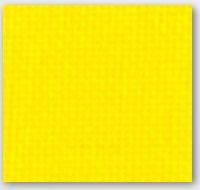

AKP - 28


AKP - 29


AKP - 30

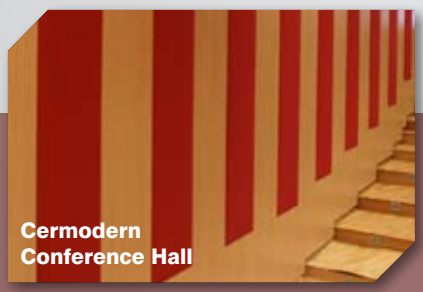

AKP - 31


AKP - 32

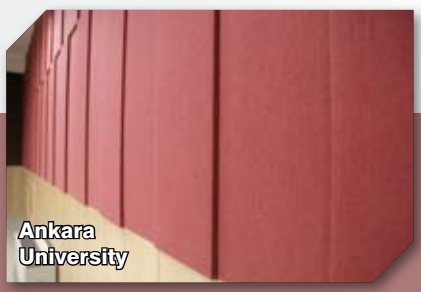

AKP - 33


AKP - 34


AKP - 35

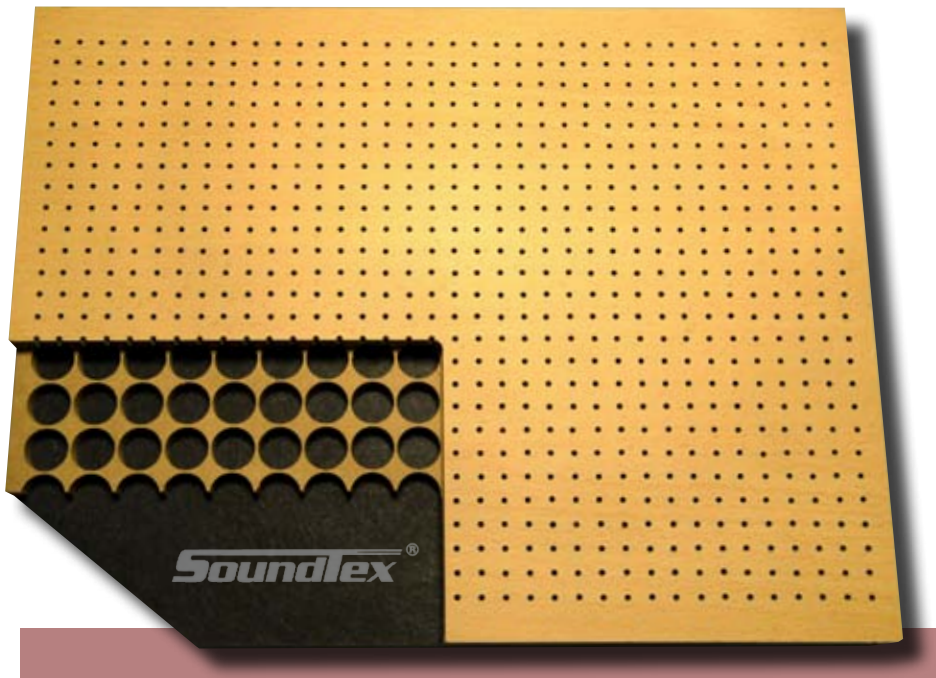

Cermodern
Conference Hall


Akyurt Municipality
Conference Hall


Ankara
University

ACOUSTIC WALL PANELS

Micro Perforated Panels



DESCRIPTION

Micro perforated wall panels are the most decorative and high level standard models of our product range. There are two types of micro perforated panels as full holed and stepwised. Full holed models are perforated as thick as the panel. Stepwised models are perforated from both sides and the holes become double roomy panels. Micro perforated hole diameters are Ø 1mm, Ø 2mm and Ø 3mm.

USES

All multi-purpose halls, auditoriums, offices, meeting rooms, hotels, theatres, discos, cinemas, restaurants, public buildings, gymnasiums.

TECHNIC

Maximum panel dimension: 102.4cmx280cm, 140cmx340cm
Ideal dimensions: 60cmx120cm, 67cmx139cm, 102.4cmx139cm
Melamine Panel: 18mm thickness, weight 13.5kg/m^2
Wood Veneered Panel: 18mm thickness, weight 14kg/m^2
Consult with Perfopan technical office for wood grain direction of the panels.

FIREPROOF SP

A) 18mm melamine DIN 4102 – B2
B) 18mm wood veneered combustion delay polish applied – A1

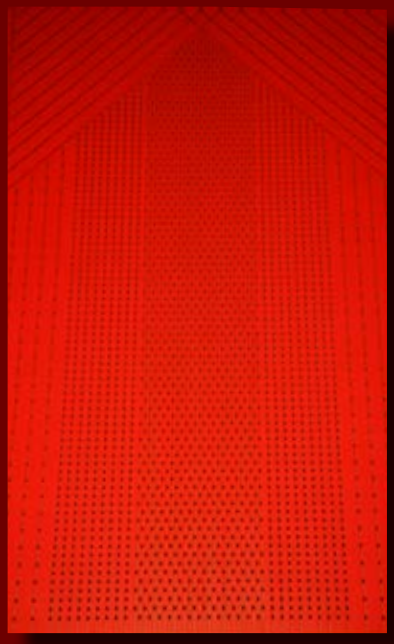
ACOUSTIC EMISSION SPECIFICATIONS

We can produce different type of wall panels for different acoustic performances according to the projects.

ACOUSTIC WALL PANELS

Elite Acoustic Series

Quadratic Diffuser



DESCRIPTION

Elite series is the models developed by Perforan engineers and these models are produced for uncommon performances and appearance.

USES

Restaurants, special meeting rooms, Home-Cinema rooms, offices, special concert halls.

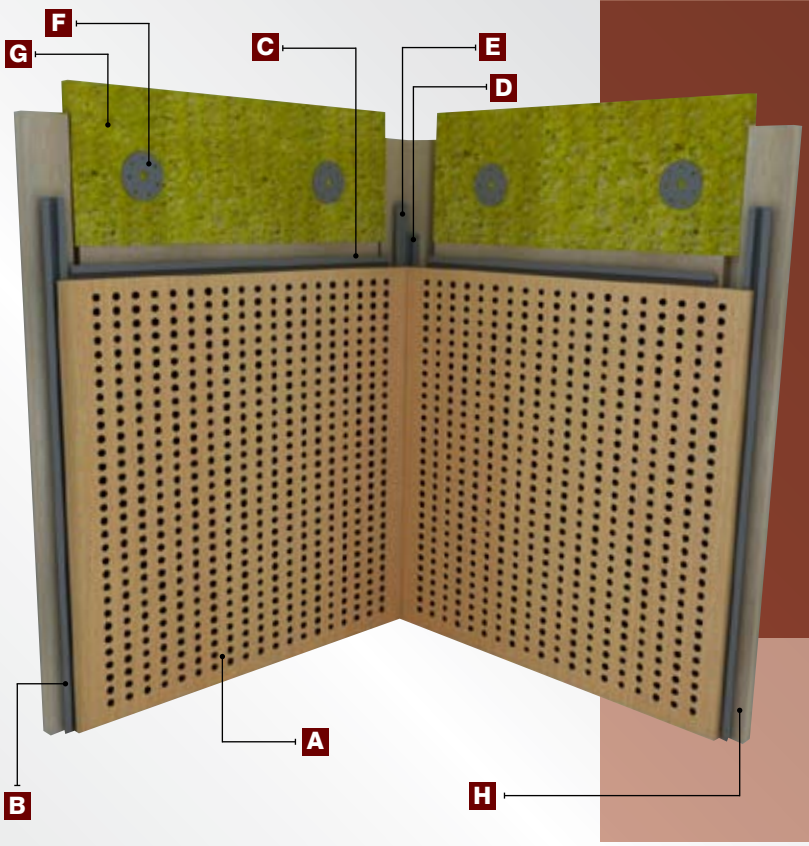
TECHNICAL PROPERTIES

Models have different modifications. Please contact with Perfopan technical office for the dimensions of the products.

Special Designed Models

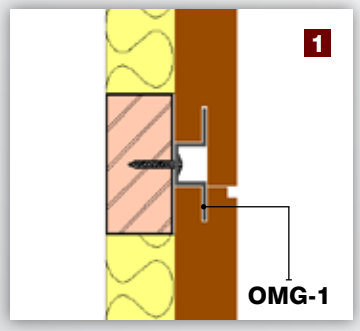
Installation Details

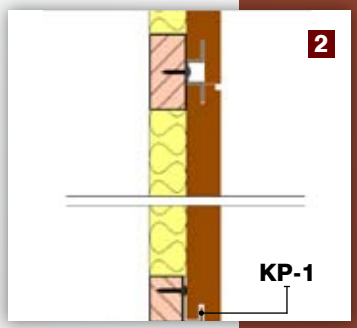
INSTALLATION DETAILS OF WALL PANEL - LEJANT

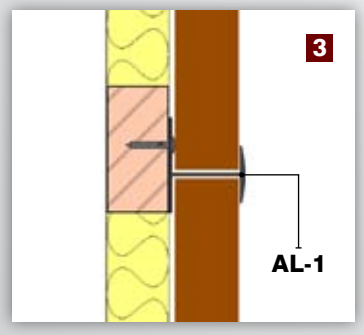


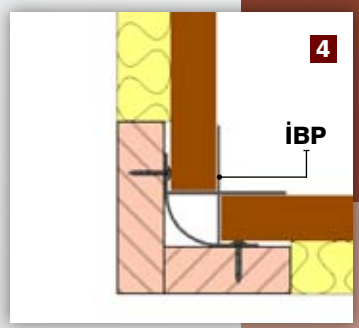
- **A** 18mm perforated acoustic panel
- **B** Omega profile OMG-1 (Vertical)
- **C** Omega profile OMG-2
- **D** Hidden wood panel corner fixing profile KP-1
- **E** Wood corner joint profile
- **F** Rockwool holder mounting rosette
- **G** Rockwool
- **H** Wood frame

PROFILE TYPES USED FOR PLANE PANEL INSTALLATION







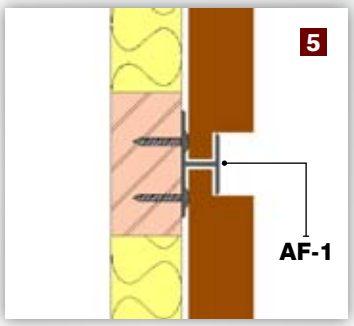


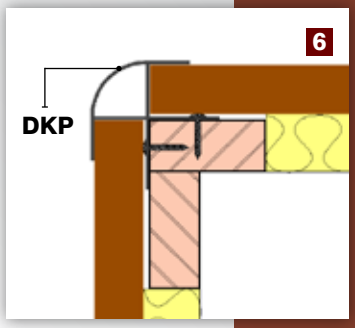
- **1** OMG-1 profile, used for vertical panel installation.
- **2** KP-1 profile, used for bottom panel fixation.
- **3** AL-1 profile, is an aluminium profile which is seen in outside as a stripe, used in vertical panel installation.
- **4** IBP profile, used for concave corner joint.

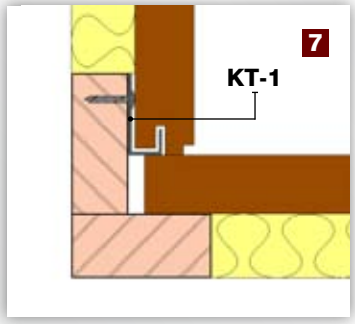
ACOUSTIC WALL PANELS

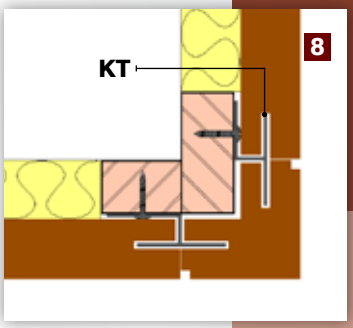
Installation Details

CORNER JOINT PROFILE TYPES









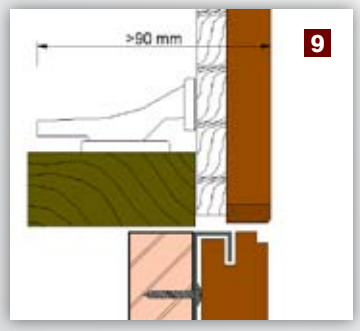
5 AF – 1 Aluminium grooved profile

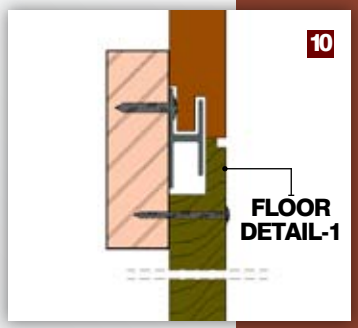
6 DBP profile, convex profile used for outside rounds.

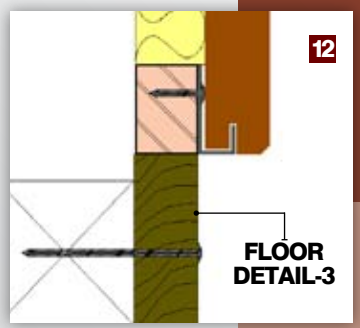
7 DBP profile, used for panel corner joint.

8 KT profile, used for wood corner joint.

JOINT DETAILS







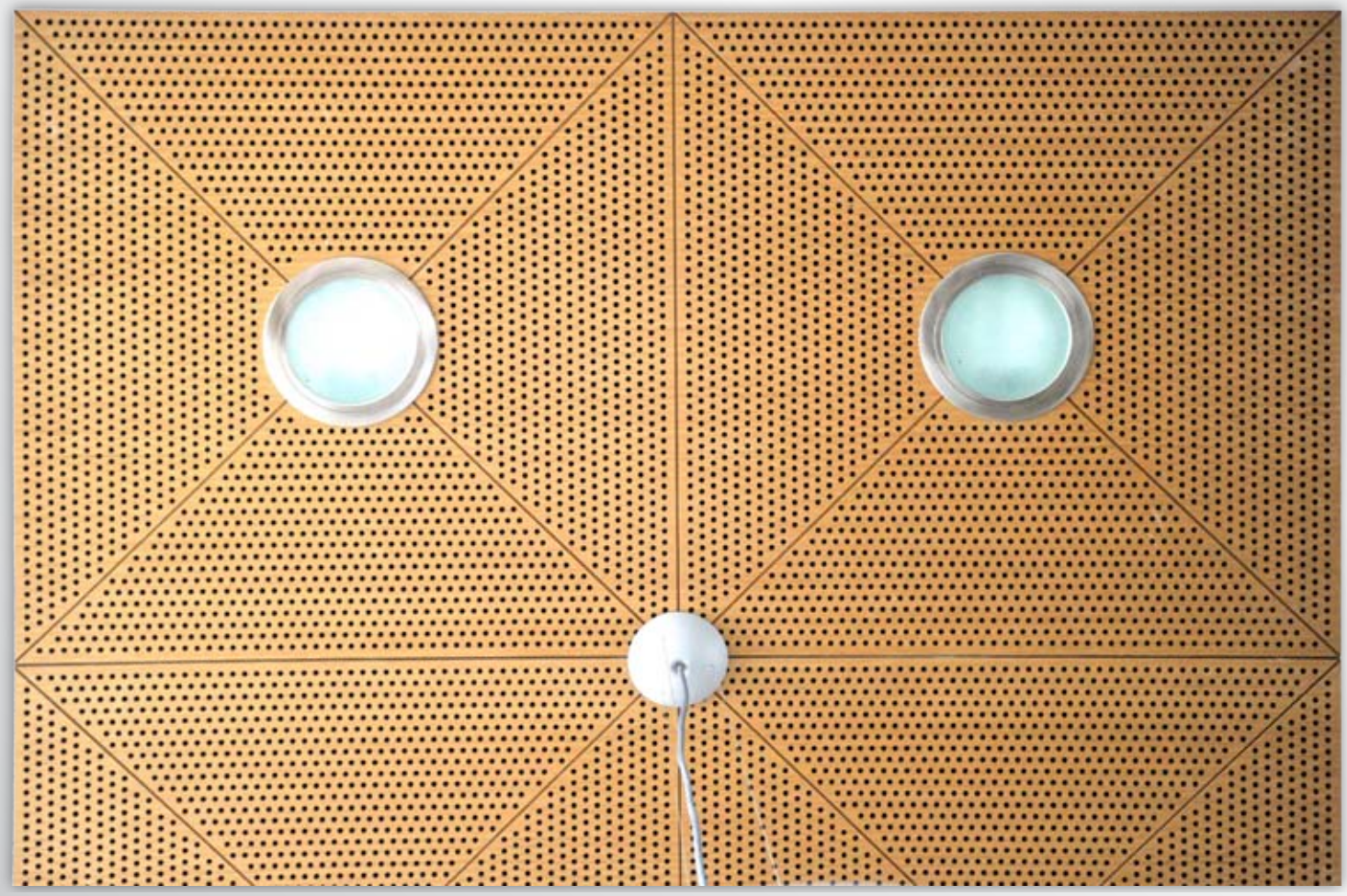
9 Shaft cover, hinge detail for cabinet covers.

10 Floor detail-1, skirting detail which is the continuation of the panel.

11 Floor detail-2, skirting detail covering the top of the panel.

12 Floor detail-3, skirting detail getting under the bottom of the panel.

Loreta Central Building
Main Entrance Ceiling
Istanbul



Izka Cons. Central Building – Ankara
Main Entrance Special Ceiling Application

ACOUSTIC CEILING PANELS

Perforated Ceiling Tiles
Slotted Ceiling Tiles
Plaque Ceiling Panels
Curved Ceiling Panels
Installation Details

ACOUSTIC CEILING PANELS

Perforated Ceiling Tiles

DESCRIPTION

Perforated ceiling panels are the panels improved by Perfopan engineers to provide best sound emission in a decorative way.

USES

All multi-purpose halls, auditoriums, offices, meeting rooms, hotels, theatres, discos, cinemas, restaurants, public buildings, gymnasiums.

TECHNICAL PROPERTIES

Standard dimensions: 600mmx600mm, 1200mmx600mm
Consult with Perfopan technical office for the special dimensions and wood grain direction of the panels.
Melamine Panel: 12mm thickness, weight 9kg/m^2
Wood Veneered Panel: 13mm thickness, weight 9.5kg/m^2

FIREPROOF SPECIFICATIONS

A) 12mm melamine DIN 4102 – B2
B) 13mm wood veneered combustion delay polish applied – A1

ACOUSTIC EMISSION SPECIFICATIONS

We can produce different type of ceiling panels for different acoustic performances according to the projects.

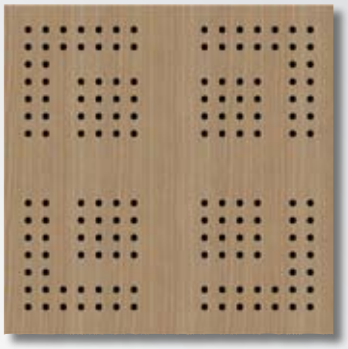
COMPATIBLE MODELS

T24 Plane, T24 Stepwised, T15 Grooved, T15 Stepwised, T15 Angle.

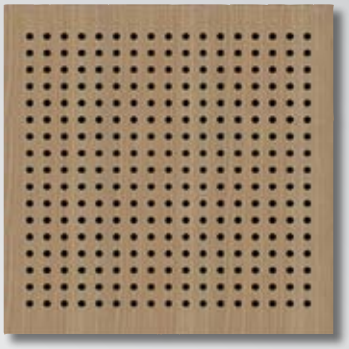
Perforated Ceiling Tiles

TKD 60 x 60 models

PLANE - 00

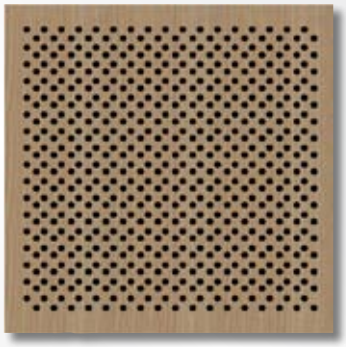


TKD - 01



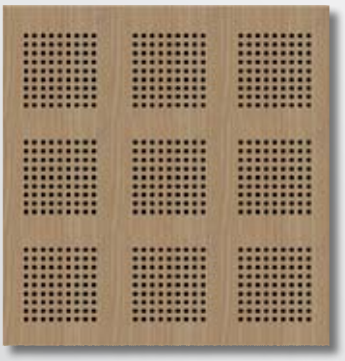
TKD - 02

TKD - 03



TKD - 04

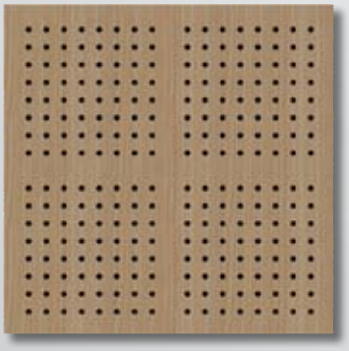
TKD - 05



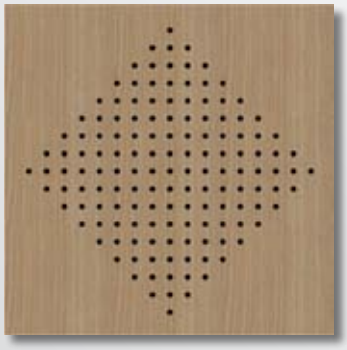
TKD - 06

TKD - 07

TKD - 08



TKD - 09



TKD - 10

TKD - 11

ACOUSTIC CEILING PANELS

Slotted Ceiling Tiles

DESCRIPTION

Slotted ceiling panels are the panels improved by Perfopan engineers to provide best sound emission in a decorative way.

USES

All multi-purpose halls, auditoriums, offices, meeting rooms, hotels, theatres, discos, cinemas, restaurants, public buildings, gymnasiums.

TECHNICAL PROPERTIES

Standard dimensions: 600mmx600mm, 1200mmx600mm

Consult with Perfopan technical office for the special dimensions and wood grain direction of the panels.

Melamine Panel: 12mm thickness, weight 9kg/m^2

Wood Veneered Panel: 13mm thickness, weight 9.5kg/m^2

FIREPROOF SPECIFICATIONS

A) 12mm melamine DIN 4102 – B2

B) 13mm wood veneered combustion delay polish applied – A1

ACOUSTIC EMISSION SPECIFICATIONS

We can produce different type of ceiling panels for different acoustic performances according to the projects.

COMPATIBLE MODELS

T24 Plane, T24 Stepwised, T15 Grooved, T15 Stepwised, T15 Angle.

Slotted Ceiling Tiles

TKS 60 x 60 models

TKS - 01

TKS - 02

TKS - 03

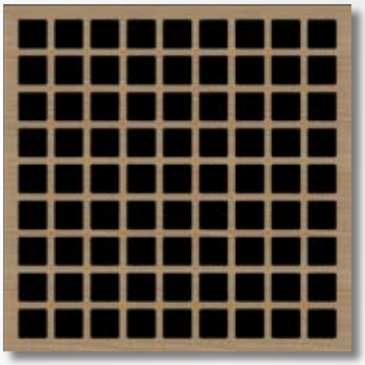
TKS - 04

TKS - 05

TKS - 06

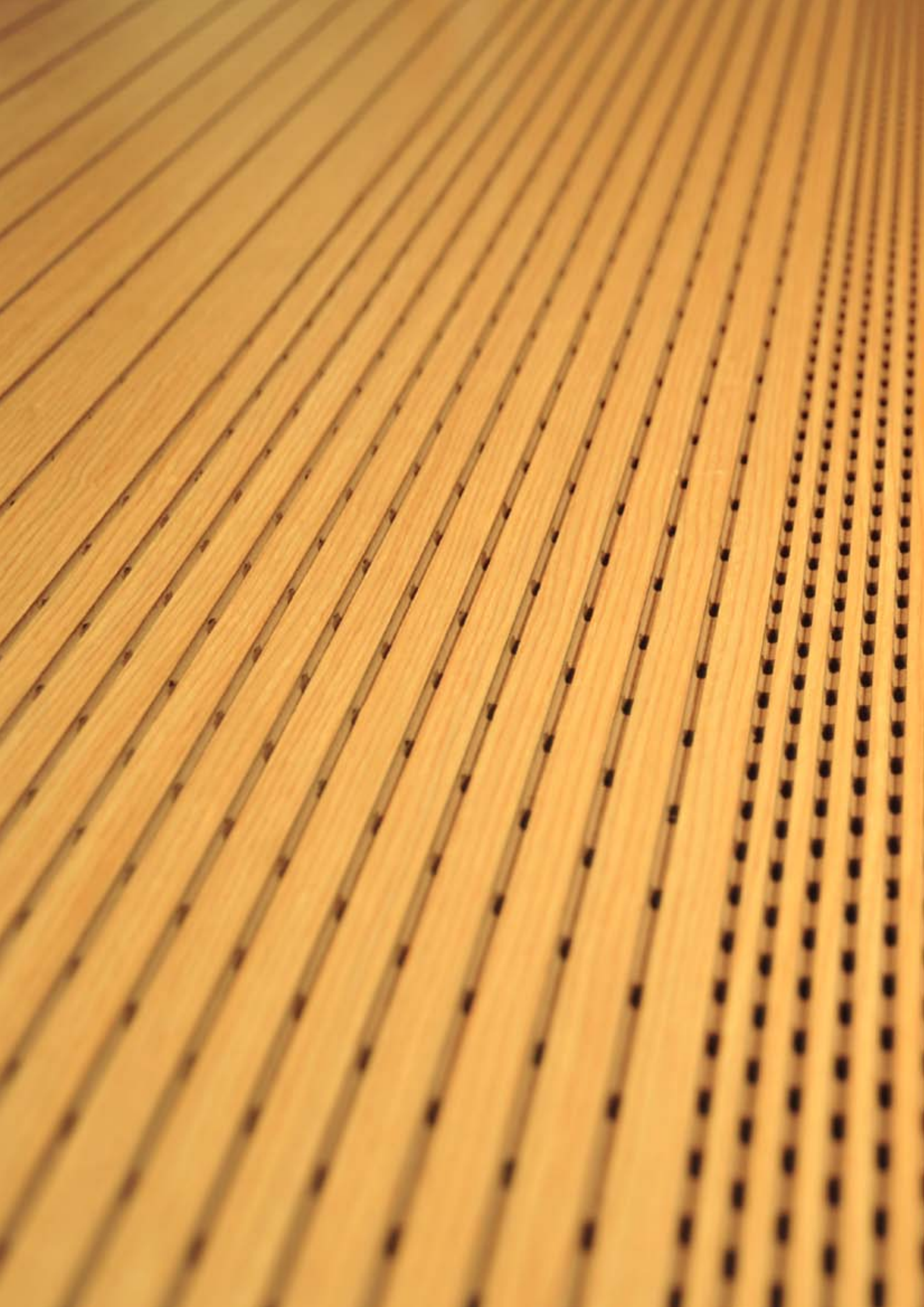
TKS - 07

TKS - 08



TKS - 09

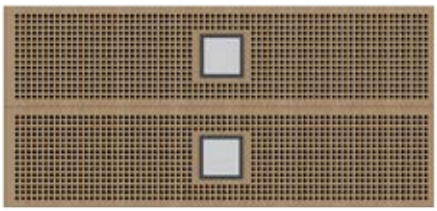
TKS - 10




Feel what
you hear!
perfopan®
"wooden acoustic panel"

Plaque Ceiling Panels

CKMY Architects
Limango Head Office
Ceiling Coatings
Model TPD- 3
İstanbul



DESCRIPTION

Plaque ceiling panels are the panels improved by Perfopan engineers to provide best sound emission in a decorative way.

USES

All multi-purpose halls, auditoriums, offices, meeting rooms, hotels, theatres, discos, cinemas, restaurants, public buildings, gymnasiums.

TECHNICAL PROPERTIES

Standard dimensions: 280mmx1200mm, 600mmx1200mm

Consult with Perfopan technical office for the special dimensions and wood grain direction of the panels.

Melamine Panel: 14mm thickness, weight 10.5kg/m^2

Wood Veneered Panel: 15mm thickness, weight 11kg/m^2

FIREPROOF SPECIFICATIONS

A) 14mm melamine DIN 4102 – B2

B) 15mm wood veneered combustion delay polish applied – A1

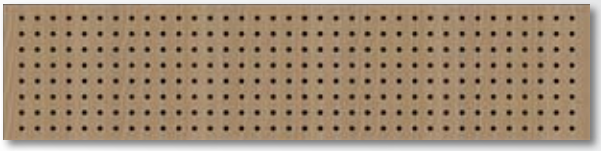
ACOUSTIC EMISSION SPECIFICATIONS

We can produce different type of ceiling panels for different acoustic performances according to the projects.

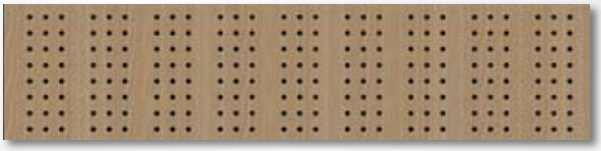
COMPATIBLE MODELS: TPT

Plaque Ceiling Panels

Perforated Plaque Models



TPD - 01



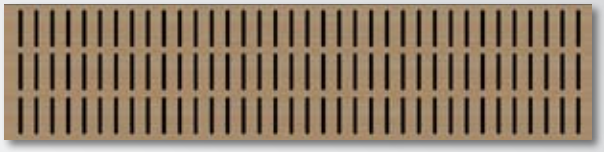
TPD - 02

TPD - 03

CEILING INTERVENTION COVER

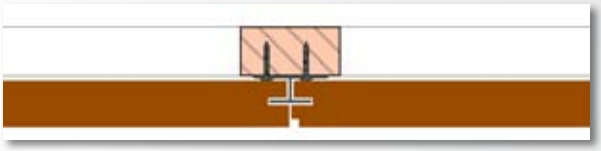
Sloted Plaque Models

TP - 0



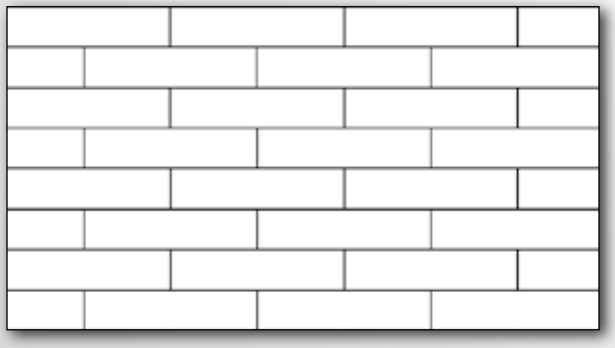
TPS - 1

TPS - 2

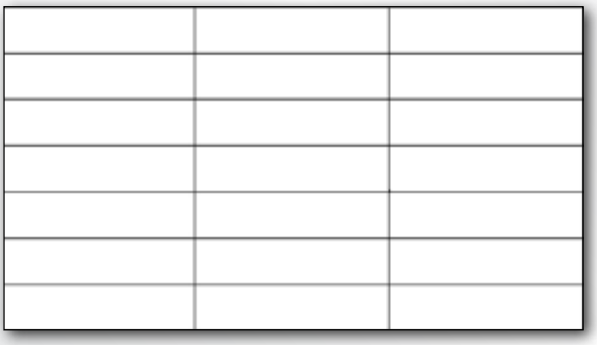


TPT CARRIER

Ceiling Installation-Application Tile Cladding Options



ZIGZAG CEILING INSTALLATION



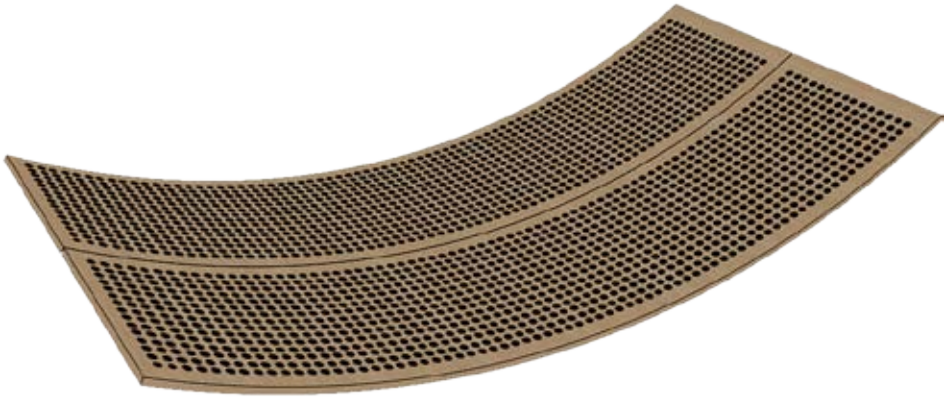
PLANE CEILING INSTALLATION

According to your request, we can produce all plaque ceiling panel models as appropriate for wall panel application.

Curved Ceiling Panels


Akyurt Municipality
Conference Hall – Ankara


Astana International Airport
KAZAKHSTAN



DESCRIPTION

Curved ceiling panels are improved by Perfopan engineers to provide best sound emission in a decorative way. These panels reflect sound clearly and qualified. These panels provides solutions for concave and convex ceiling requirements due to either the need of directing the acoustic reflections or its decorative appearance.

USES

All multi-purpose halls, auditoriums, offices, meeting rooms, hotels, theatres, discos, cinemas, restaurants, public buildings, gymnasiums.

TECHNICAL PROPERTIES

Curved ceiling panels have no standard dimension. Perfopan manufactures curved panels as custom made according to the projects.
Maximum dimension: 1400mmx3400mm
Consult with Perfopan technical office for the special dimensions and wood grain direction of the panels.
Melamine Panel: 8mm thickness, weight 6kg/m^2
Wood Veneered Panel: 9mm thickness, weight 6.5kg/m^2

FIREPROOF SPECIFICATIONS

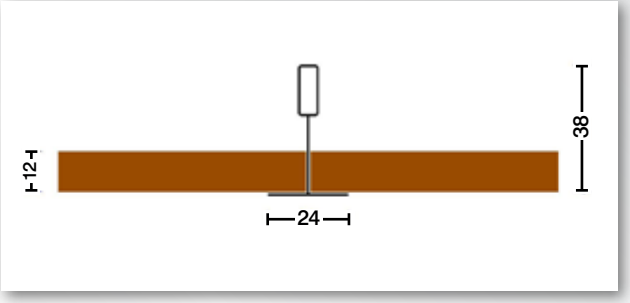
A) 8mm melamine DIN 4102 – B2
B) 9mm wood veneered combustion delay polish applied – A1

ACOUSTIC EMISSION SPECIFICATIONS

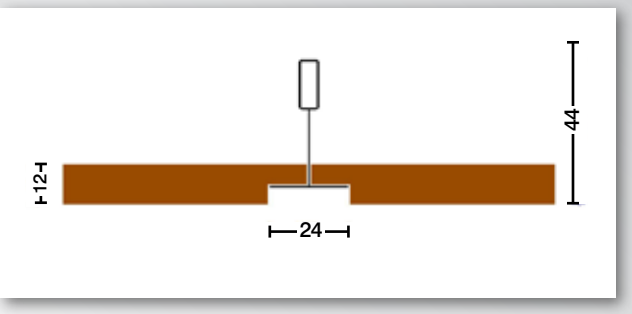
We can produce different type of ceiling panels for different acoustic performances according to the projects.

Installation Details

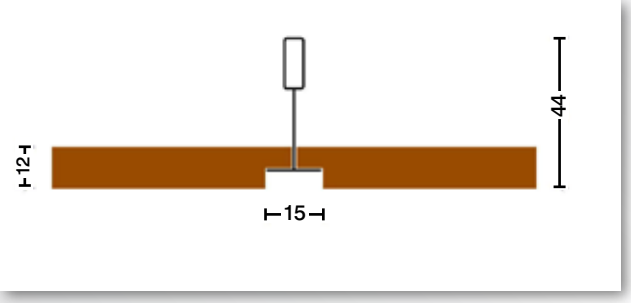
Ceiling Carrier Systems



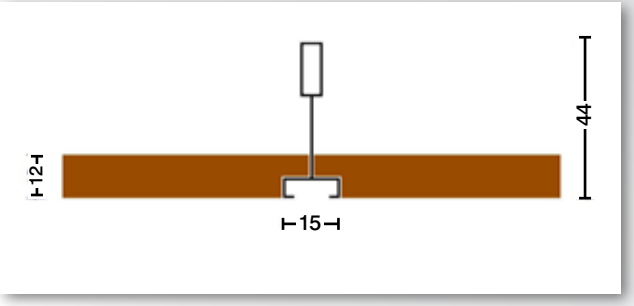
T 24 PLANE



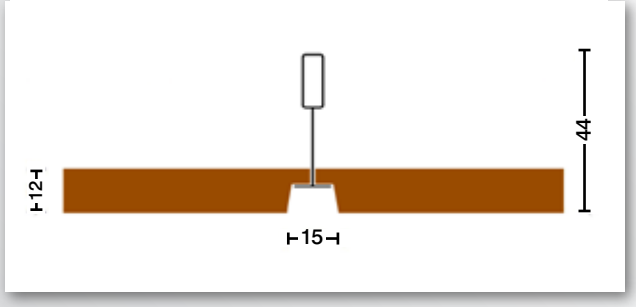
T 24 STEPWISED



T 15 STEPWISED



T 15 GROOVED



T15 ANGULAR

INSTALLATION DETAILS

For the standard wood tiles, the metal carrier systems given above are used. Wood tiles can be produced in different styles or different perforations. Easy assembly and disassembly tiles are the models which carry the ceiling tiles freely fitted. The metal carriers can be painted in wood patterned or plane RAL colors.

All carrier systems are in the appearance of fuga. According to the demands, we have zero joint production.

Akyurt Municipality
Conference Hall
Wall: Plate Ceiling Panel
Model: TDP - 01
32 x 32 x 8mm Ø – DS 2000

ACOUSTIC AND SOUND ISOLATION DOORS

Acoustic Doors
Acoustic Window
Sound Isolation Doors

Acoustic Doors

When the entry and exit doors of the acoustic wood panel coated walls are made of plane panel material, it may cause echo and loss of sound quality.

Aesthetically, different type of doors on a acoustic panel coated wall cause architectural disorder.

We are producing acoustic doors according to demands of our customers. Door surface which is faced to the space is designed for acoustical needs.

All of our acoustic doors are applicable to wood sound isolation door models.

All of our acoustic doors are applicable to wood sound isolation door models.

Acoustic Door Models

AK - 1

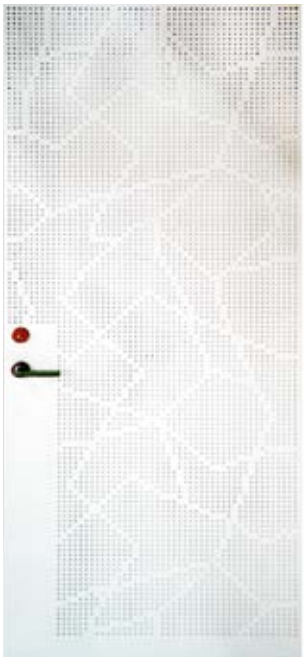
Ak-1 Special soundproof mattress is used inside of the 50mm thick door frames. Door surface which is faced to the space is designed as perporated.

AK - 2

Ak-2 Special soundproof mattress is used inside of the 50mm thick door frames. Door surface which is faced to the space is designed as vertically grooved.

AK - 3

Ak-3 Special soundproof mattress is used inside of the 76mm thick door frames. Door surface which is faced to the space is designed as vertically grooved.



AK - 4

Ak-4 Special soundproof mattress is used inside of the 64mm thick door frames. Door surface which is faced to the space is designed as horizontally grooved.

Acoustic Window

Perfopan acoustic windows provide professional solutions where transparency is desired. They are used because they prevent light reflections and have high quality soundproof.

Double independent framed windows are sealed with special gasket.
According to proper wall thickness of buildings, if the distance between independent frames are approximately 200mm, Perfopan Acoustic Window reaches to 60dBA soundproof.

Glass specifications: 8mm, 10mm acoustic laminated glass.

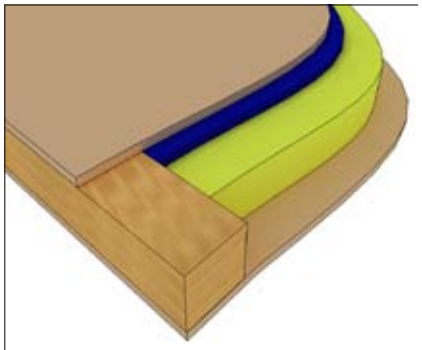
Uses: Stadiums, TV studios, radio broadcasting rooms, sound and music recording studios, simultaneous translation room windows, dance and ballet studio windows and police interrogation room windows.

Sound Isolation Doors

In the spaces where sound isolation is performed, another important element supplementing the isolation as much as the walls and ceilings is doors.

Sound isolation doors prevent noise pollution. We have three types of sound isolation doors all models are applicable to any dimensions.

Sound Isolation Models



ASY - KAP 1

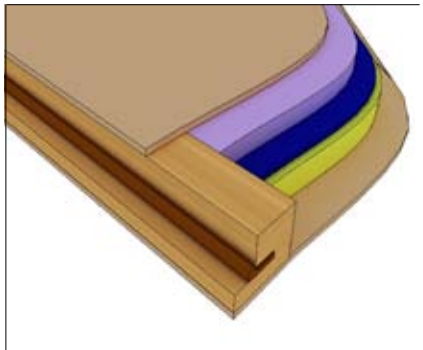
DESCRIPTION: They are designed as wood sound isolation door and are soundproof. Two types of different soundproof materials are used inside the massive frame of 50mm thickness. Sound isolation doors must be used together with threshold profile for sound absorption.

USES: Main doors of multi-purpose halls, doors of simultaneous translation rooms.

TECHNICAL PROPERTIES:
Standard use for indoors are;
800mmx2000mm, 900mmx2000mm, 1000mmx2000 mm.
Standard use for main doors are;
970mmx2080 mm, 1070mmx2080mm, 117mmx2080 mm
All dimensions can be produced as double winged.

Sound Isolation Value: 22dB.

Fire Resistance: Fire-resistance durations are increased with fireproof laminated surface or special polish application.



ASY - KAP 2

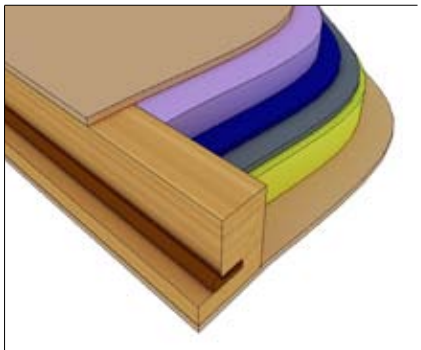
DESCRIPTION: They are designed as wood sound isolation door and are soundproof. Three types of different soundproof materials are used inside the massive frame of 64mm thickness. Sound isolation doors must be used together with threshold profile for sound absorption.

USES: Outer room doors of hotels, doors of sound recording studios, main doors of multi-purpose halls, doors of simultaneous translation rooms.

TECHNICAL PROPERTIES:
Standard use for indoors are;
800mmx2000mm, 900mmx2000mm, 1000mmx2000mm.
Standard use for main doors are;
970mmx2080 mm, 1070mmx2080mm, 117mmx2080 mm
All dimensions can be produced as double winged.

Sound Isolation Value: 42dB.

Fire Resistance: Fire-resistance durations are increased with fireproof laminated surface or special polish application.



ASY - KAP 3

DESCRIPTION: They are designed as wood sound isolation door and are soundproof. Four types of different soundproof materials are used inside the massive frame of 76mm thickness. Sound isolation doors must be used together with threshold profile for sound absorption.

USES: Outer room doors of hotels, doors of sound recording studios, main doors of multi-purpose halls, doors of simultaneous translation rooms.

TECHNICAL PROPERTIES:
Standard use for indoors are;
800mmx2000mm, 900mmx2000mm, 1000mmx2000mm.
Standard use for main doors are;
970mmx2080 mm, 1070mmx2080mm, 117mmx2080 mm.
All dimensions can be produced as double winged.

Sound Isolation Value: 56dB.

Fire Resistance: Fire-resistance durations are increased with fireproof laminated surface or special polish application.

Color Scale


BEECH


PEAR


WENGE


CHERRY


OAK


MAHOGANY


WALNUT

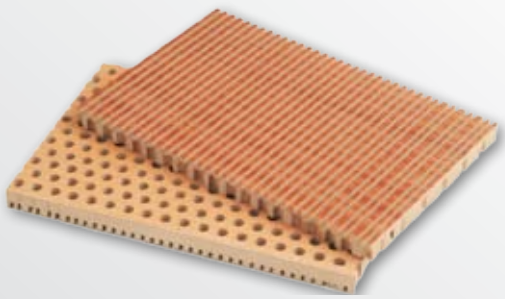

MAPLE


DARK GREY

Certificates

ilac-MRA DANAK

Perpofan Products have Accreditation (appropriate for international criterions) DANAK certificates. In acoustic wood panel tests, each mode is subjected to two separate tests. The first test is performed without applying rockwool at the back of the acoustic wood panels and the second test is performed by applying rockwool at the back of the acoustic wood panels. The reports of the tests with rockwool and without rockwool indicate the absorption specifications of the material and determine the acoustical needs. The system that we recommend is to apply rockwool at the back of the panels in acoustic wood panel application. The values given in our reports are NRC-(Noise Reduction Coefficient), SAA (Sound Absorption Average) values in American standards and xw, absorption class values in European standards.
In the graphics given in the technical details, X axis shows the resonance frequency and the unit is Hertz (Hz), and Y axis shows the value of sound absorption coefficient and the unit is called as Sabin (as).



TECHNICA INFORMATION

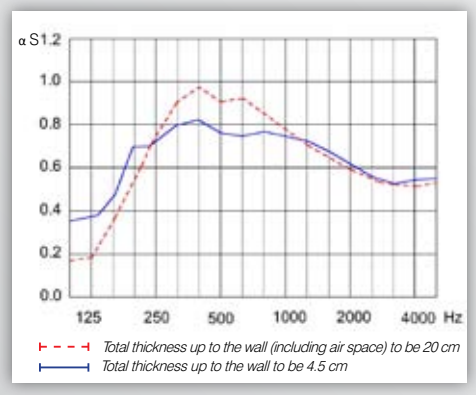
Why we should use acoustic wood panels?

There is noise in every environment we live in. Isolation or regulation of noise provides better communication among people. It is a comfort to hear the sounds clearly. Our products are the materials that purify the hearing quality from noise and ensure the sounds are clear. Wood has a warmer appearance than other metal panels, plasterboard and rockwool panels which are cold materials.
Other materials do not provide the visual quality which is provided by wood in decoration.

Areas of Use

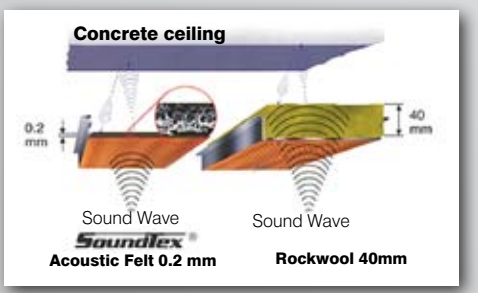
Our products are used in theater halls, concert halls, cinema halls, hotel lobbies, mosques, churches, airport and bus terminals, train stations, subway and train cars, subway stations, yachts and ship halls, music recording studios, entertainment centers, discos, hotels, bars, night clubs, big restaurants, libraries, classrooms, congress halls, wedding halls, big shopping malls, hotel meeting rooms, administration buildings, open offices, sport centers, indoor swimming pools, polygons, multi-purpose halls, wireless operating rooms, radio stations, sound recording studios, TV studios, film sets, university halls, law courts, and hearing courts.

Definition of Acoustic Graphs



X – axis shows the quantity of the resonance frequency and the unit is Hertz (Hz).
Y – axis shows the quantity of the acoustic absorption coefficient and the unit is called as Sabin (αS).

SoundTex® - Acoustic, Fabric Information



In order to increase the acoustic absorption quantity of the panels, a special thin felt made of composit material is used at the back of the panels.

One surface of this felt is adhesive and it is sticked on the panel by heat and pressure application method.

In Turkey, this felt is called Acoustic Fabric. Our company uses the first quality German made felt called SoundTex®. The thickness of this felt is 0.2mm, and the sound absorption quality is equal to the rockwool with thickness 4.00cm.

SoundTex® is a membrane which has diverse properties. A specific amount of sound coming from indoors and passing through the hole is absorbed. After such specific amount of sound passed through the hole and came back, the felt prevents the sound from reentering to indoors. This product is antibacterial and antiallergic.

Fireproof category is NORM DIN – B 1 Class.

We supply SoundTex® acoustic fabric to the market.

Sistem Cons., Socar Petrols
Conference Hall
Tbilisi - Georgia

Tayat Restaurant
and Wedding Hall
Konya - Turkey

Manufacturing Codes - Dimensions

ACOUSTIC PANEL DIMENSION TABLE		
MATERIAL	210cm x 280cm MDF	183cm x 366cm MDF
MAX. DIMENSION	102.4cm x 280cm	140cm x 340cm
IDEAL DIMENSIONS	67.2cm x 278cm	140.8cm x 340cm
	67.2cm x 139cm	57.6cm x 182cm
	102.4cm x 139cm	57.6cm x 121cm
	67.2cm x 20.8cm	89.6cm x 181cm
	89.6cm x 208cm	89.6cm x 121cm

MANUFACTURING CODES	
F	WIDTH OF GROOVE (mm)
A	DISTANCE BETWEEN GROOVES (mm)
PR	PERFORATION RATIO
DS	NUMBER OF HOLES (Piece/m^2)
DK	DECORATIVE TILE
TD	FULL HOLE
KD	STEPWISED HOLE
TK	CEILING TILE
YST	REFLECTED PANEL
ÇP	TRANSVERSE PERFORATED
DP	DECORATIVE PANEL
GBM	WIDE BAND MODEL
KNL	GROOVED
DLK	PERFORATED
SLT	SLOTTED
AK	ACOUSTIC WOOD DOOR
ASY - KAP	WOOD SOUND ISOLATION DOOR

References

ACIBADEM HOSPITAL - MASLAK ISTANBUL - TURKEY
Job Description: Acoustic Wall Panels, Acoustic Doors

ACITY SHOPPING MALL, WEDDING HALL, ANKARA- TURKEY
Job Description: Acoustic Wall Panels

AKYURT MUNICIPALITY, COUNCIL HALL AKYURT - ANKARA
Job Description: Acoustic Wall Panels, Angular Acoustic Ceiling Coverings

ALFATEH UNIVERSITY, AUDITORIUM CLASSES - POEM INSAAT- LIBYA
Job Description: Acoustic Stage Panels, Acoustic Wall Panels, Acoustic Doors

ASTAV INTERNATIONAL AIRPORT BUILDING - ASTAV - KAZAKHSTAN
Job Description: Acoustic Circular Ceiling Coverings

ATILIM UNIVERSITY, CONFERENCE HALL
Job Description: Acoustic Wall Panels

AKDENIZ UNIVERSITY, TOURISM FACULTY, CONFERENCE HALL - ERKAN INSAAT
Job Description: Acoustic Wall Panels

ANKARA UNIVERSITY, MEDICAL FACULTY - MORPHOLOGY CONFERENCE HALL
Job Description: Acoustic Wall and Ceiling Panels

ANKARA UNIVERSITY, MEDICAL FACULTY – 50th YEAR CONFERENCE HALL
Job Description: Acoustic Wall Panels

AYDIN AMCA LTD. CYPRUS METU CONFERENCE HALL - CYPRUS
Job Description: Acoustic Wall Panels

BAND COMMAND 3rd ARMY TRAINING HALLS - ERZINCAN
Job Description: Acoustic Wall Coverings

BAND COMMAND 3rd ARMY TRAINING HALLS - ERZURUM - TURKEY
Job Description: Acoustic Wall Coverings

BARIS CASINO 4th CORPS - ANKARA
Job Description: Acoustic Wall Coverings

METROPOLITAN MUNICIPALITY, TABLE ACOUSTIC PANELS - ANKARA
Job Description: Acoustic Wall Panels

METROPOLITAN MUNICIPALITY, 2 CONFERENCE HALLS OF THE NEW BUILDING - ANKARA
Job Description: Acoustic Wall Panels

PAINT VARNISH ORGANIZED INDUSTRIAL ZONE, ADMINISTRATION BUILDING, CONFERENCE HALL - GEBZE
Job Description: Acoustic Wall Coverings

CAN WEST MEDIA, SUPER FM METRO FM, SOY FM RADIO BROADCASTING STUDIOS - ISTANBUL
Job Description: Acoustic Panel Wall Coverings

CER MODERN, CONFERENCE HALL - ANKARA
Job Description: Acoustic Panel Wall Coverings

CLUB ASTERIA BELEK, RESTAURANT HALL BELEK - ANTALYA -TURKEY
Job Description: Acoustic Panel Wall Coverings, Custom Manufacturing Suspended Ceiling Panels

AEGEAN COLLEGE, CONFERENCE HALL - IZMIR - TURKEY
Job Description: Acoustic Panel Wall Coverings

ESKISEHIR MUNICIPALITY - PETKON MUHENDISLIK, CONFERENCE HALL, ESKISEHIR - TURKEY
Job Description: Acoustic Panel Wall Coverings

FABRICA INSAAT SAN.TIC.LTD.STI., CONFERENCE HALL ISTANBUL - TURKEY
Job Description: Acoustic Panel Wall Coverings

FEKA INSAAT, MATHEMATICS AND STATISTICS DEPARTMENT CONFERENCE HALL – TRIPOLI - LIBYA
Job Description: Acoustic Panel Wall Coverings

FEVZI OZBEY PRIVATE PRIMARY SCHOOL, ANKARA
Job Description: Acoustic Panel Wall Coverings

FRENCH HIGH SCHOOL, CONFERENCE HALL, INCEK/ ANKARA - TURKEY
Job Description: Acoustic Panel Wall Coverings

GARANTI BANK, SOUTHEAST REGIONAL DIRECTORATE, CONFERENCE HALL - GAZIANTEP
Job Description: Acoustic Panel Wall Coverings

GARANTI BANK, BALMUMCU EDUCATION DIRECTORATE BUILDING CONFERENCE HALL - ISTANBUL
Job Description: Acoustic Panel Wall Ceiling Coverings

GARANTI BANK, SEFAKOY REGIONAL DIRECTORATE CONFERENCE HALL - ISTANBUL
Job Description: Acoustic Panel Wall Ceiling Coverings

GAZI UNIVERSITY, FACULTY OF DENTISTRY CONFERENCE HALL - ANKARA - TURKEY
Job Description: Acoustic Panel Wall Ceiling Coverings

GUNGOREN MUNICIPALITY, CULTURAL CENTER CONFERENCE HALL - ISTANBUL
Job Description: Acoustic Panel Wall Coverings

GURIS ALFATEH UNIVERSITY, CONFERENCE HALL -LIBYA
Job Description: Acoustic Wall Panels

HUSEYIN FOREIGN TRADE PROJECT, CONFERENCE HALL -TRIPOLI LIBYA
Job Description: Acoustic Wall Panels

ISTANBUL TECHNICAL UNIVERSITY, NATIONAL HIGH PERFORMANCE CALCULATION CENTER DEPARTMENT LOUNGE - AKSER INSAAT
Job Description: Acoustic Wall Panels

ISTANBUL UNIVERSITY, LOGISTICS COLLEGE, CONFERENCE HALL
Job Description: Acoustic Wall Panels

KADIR HAS UNIVERSITY, BOLAT PREMISES, CONFERENCE HALL - ISTANBUL - TURKEY
Job Description: Acoustic Wall Panels

KADIR HAS UNIVERSITY, ACOUSTIC PANEL, - KAYSERI
Job Description: Acoustic Wall Panels

KENT PARK AVM, STORE CEILING ANKARA -
Job Description: Acoustic Ceiling Panels

KOSGEB CONFERENCE HALL OSTIM - ANKARA
Job Description: Acoustic Wall Panels

LOTUS, MINT TV STUDIO, GEBZE
Job Description: Acoustic Ceiling Panels

ACOUSTIC PANELS OF ANKARA AND ISTANBUL RESTAURANTS OF LEZZET ISKENDER
Job Description: Acoustic Ceiling Panels

LOKMAN HEKIM HOSPITAL - SINCAN/ANKARA
Job Description: Acoustic Ceiling Panels

LOSEV VILLAGE, RECEPTION HALL, ANKARA
Job Description: Acoustic Ceiling Panels

MANISA CHAMBER OF COMMERCE, EXHIBITION HALL, ENTRANCE HALL - TURKEY
Job Description: Acoustic Ceiling Panels

MEDINA TURGUL ADVERTISING AGENCY, RESTAURANT HALL – ISTANBUL - TURKEY
Job Description: Acoustic Ceiling Panels

MERCEDES -BENZ FACTORIES, MULTI-PURPOSE HALL DOME COVERINGS, ISTANBUL
Job Description: Acoustic Exposed Ceiling Panels

MECLIS EL VATAN-YASAR OZKAN-TRIPOLI-LIBYA
Job Description: Acoustic Wall Panels

MIMAR SINAN UNIVERSITY, CINEMA TV RESEARCH CENTER, POST PRUDUCTION HALL AND CINEMA HALL - ISTANBUL
Job Description: Acoustic Wood and Fabric Wall Acoustic Panels. Acoustic Ceiling Panels.

NATIONAL EDUCATION FOUNDATION, IZMIR AVNI AKYOL HIGH SCHOOL, CONFERENCE HALL, IZMIR
Job Description: Acoustic Wall Panels

MUGLA UNIVERSITY, AUDITORIUM CLASSROOM MUGLA - TURKEY
Job Description: Acoustic Panel Wall Coverings

MODELA MOBILYA, ACOUSTIC WOOD PANEL
Job Description: Acoustic Panel Wall Coverings

MOB MOBILYA, ACOUSTIC PANEL
Job Description: Acoustic Wall Panels

NOW HOTEL, MULTI-PURPOSE MEETING HALL - TRABZON - TURKEY
Job Description: Acoustic Wall Panels

NURSOY SIRKETLER GRUBU, MULTI-PURPOSE MEETING HALL ANKARA - TURKEY
Job Description: Acoustic Wall, Ceiling Panels

OZALTUN INSAAT, NORTH IRAQ CONFERENCE HALL - IRAQ
Job Description: Acoustic Wall Panels

OZGUN OFIS - ISTANBUL
Job Description: Acoustic Wall Panels

OZMER DIS MOB.LTD.STI.
Job Description: Acoustic Wall Panels

PEPSICO, FRITOLAY, GENERAL DIRECTORATE BUILDING, RESTAURANT - ISTANBUL
Job Description: Acoustic Wall Panels

PARK VADIEVLERI, MASSIVE FURNITURE ANKARA - TURKEY
Job Description: Acoustic Wall Panels

SDS MIMARLIK - ANKARA - TURKEY
Job Description: Acoustic Wall Panels

SISKA INS., CURVILINEAR ACOUSTIC CEILING AND WALL ACOUSTIC PANELS
Job Description: Acoustic Wall Panels

SOY MIMARLIK, CYPRUS HOTEL, CONFERENCE HALL
Job Description: Acoustic Wall Panels

TAYAT RESTAURANT AND WEDDING HALL - KONYA - TURKEY
Job Description: Acoustic Wall Panels, Acoustic Ceiling Panels

TEKIROVA MUNICIPALITY, CULTURAL CENTER, CONFERENCE HALL - ANTALYA - TURKEY
Job Description: Acoustic Wall Panels

THE PENINSULA CHARLOTTE HOTEL, MEETING ROOM - ANKARA
Job Description: Acoustic Ceiling Panels

TRT ERZURUM RADIO BROADCASTING STUDIOS - ERZURUM - TURKEY
Job Description: Acoustic Wall Panels

TUBITAK TECHNOLOGY FREE ZONE, MEETING HALL - GEBZE - TURKEY
Job Description: Acoustic Wall Panels

TURKISH RETIRED WORKERS CONFERENCE HALL - ANKARA
Job Description: Acoustic Wall Panels

NATIONAL FOOD LABORATORY, MEETING HALL - ANKARA - TURKEY
Job Description: Acoustic Wall Panels

USAK UNIVERSITY, CONFERENCE HALL - USAK
Job Description: Acoustic Wall Panels

UNILEVER GENERAL DIRECTORATE, MEETING HALL – ISTANBUL - TURKEY
Job Description: Acoustic Wall Panels

ZAMAN NEWSPAPER, GENERAL DIRECTORATE BUILDING, MEETING HALL ISTANBUL - TURKEY
Job Description: Acoustic Wall Panels

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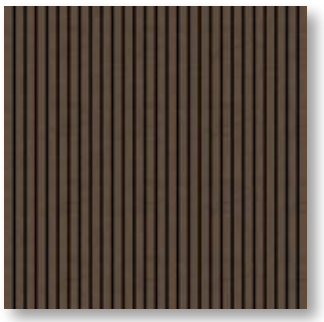

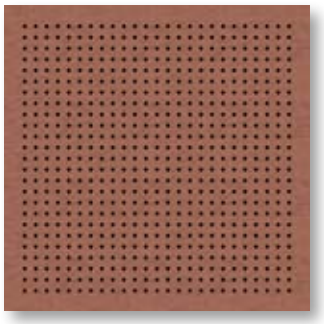

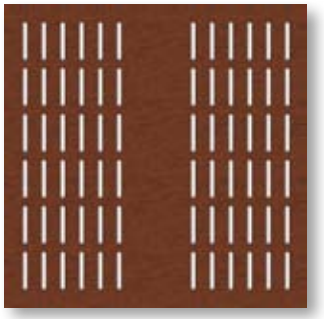

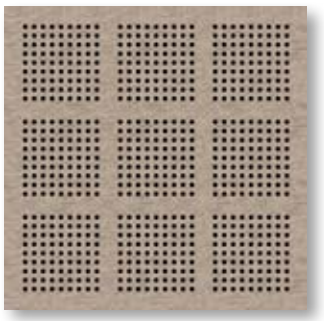

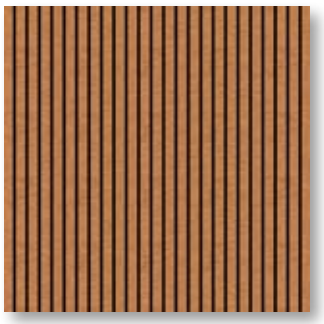

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