POLARIS PRODUCT Ltd.

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Bulgaria, Varna, Murgash str. No.5





Acoustic panel is made from 100% PET, by needle punching processing. The production process is completely physical & eco-friendly, no waste water, emissions, waste,. no adhesive, The porous nature of acoustic panel makes it sound absorptive & thermal insulative.

To ensure the flame retardant effect of acoustic panel, OFISOLUTION use flame-retardant fiber as raw material, fire retardant reaches ASTM E84 class A and EN13501 Class B.

As the substrate of acoustic carving panel, print panel, embossed tiles, hanging ceilings, screens, room partitions, workstations.

We provide high performance acoustic absorbers for offices,retail,restaurants,hotels,gyms,etc.To improve speech intelligibility,wellbeing,concentration and performance.

Our products more eco-friendly,robust,light and flexible in its application than any other comparable products.Also could provide you fully customized solution tailored to your project.

OFISOLUTION products blends very well with natural materials such as stone,concrete or wood

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Product Kinds 09-28

Wall Covering



Office Acoustic



Acoustic Ceiling



Project Case 29-30

Installation Guide 31-32

ECO-FRIENDLY SOLUTION

The manufacturing process of PET is a remarkable clean process. There is no little to environment impact. No chemical are used in conjunction with a very low energy process. All unused PET by product such as scraps cuttings etc are 100% recyclable and is put back into the manufacturing process to make the fiber. There is NO disposable waste.

PET is a very energy-efficient packaging material. Although its raw materials are derived from crude oil and natural gas. It enjoy a very favourable sustainability profile in comparison to glass, aluminum and other materials.

Its sustainability jumps even higher when recycling is introduced, since approximately 40% of PET's energy use is attributable to its "resource energy"- the energy inherently trapped in its raw materials that can be recaptured and reused through recycling.

Did you know just 1 sheet 1220mm*2440mm*9mm PET acoustic panel, actually use around 280pcs waste plastic water bottles?

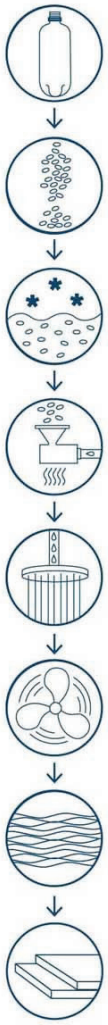
The high strength of PET in comparison to its light weight is a major key to its energy efficiency. Allowing for more product to be delivered in less packaging and using less fuel for transport. Ongoing advances in light-weighting technology continue to improve its energy efficientcy even further. Life cycle studies of PET have consistently confirmed the environmental benefits of PET as a packaging material.

In the 60 years since PET was first synthesized. It has become one of the world widely used, versatile and trusted materials.

RECYCLE

CONFIDENCE IN TEXTILES
Tested for harmful substances
according to Oeko-Tex® Standard 100

ECO-FRIENDLY PROCESSING



1. Soft drink and detergent bottles made from PET identified by ♻ are collected from consumers
2. Contaminents like lids and sticky labels are removed. Bottles are chipped into tiny pellets
3. Pellets are washed and sanitised
4. Pellets and colour are fed into a hopper. A heater at the base of the hopper melts the pellets to form a free flowing resin
5. Resin is pumped through a sophisticated shower-rose device, known as a spinneret
6. Cold air fans set the fine fibres extruded from the spinneret
7. Fibres are drawn and cut and are blended into a web
8. Web is compressed and cut ready for use

SPECIFICATIONS

Product Name: PET acoustic panel

Composition: 100% Polyester Fibre (PET)

Thickness: 3-25mm Normal thickness is 7mm,9mm(have stock) and 12mm

Weight: 1100-3300g/m2

Standard Size: 1220x2440mm, More size & color can be customized

Formaldehyd Emission: 0.00 ug/g

USAGE

commercial offices、hotels、restaurants、retail、multifunctional hall、
art gallery、library、gym、residential cinemas、theaters and auditoriums

KEY BENEFITS

Sound Absorption
NRC reaches more than 0.85

Fire Retardant
ASTEM E84 CLASS A
EN13501 CLASS B

Eco-friendly
100% PET , no glue

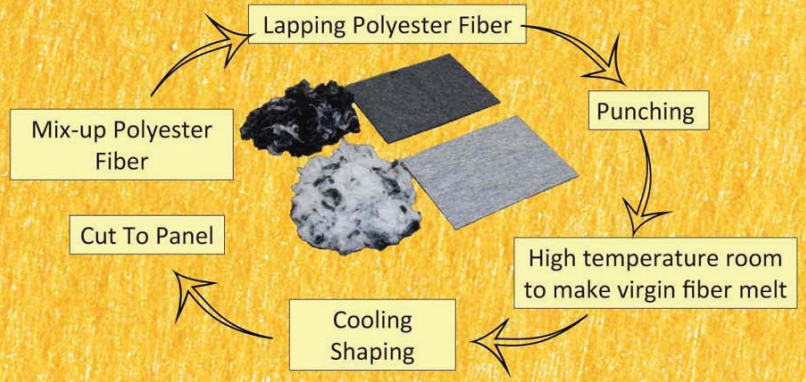
Decorative
More than 20 colors,
emboss & 3D texture

Easy Machining
Easy installation & edge treatment,
cutting & splicing as you want

FUNCTION

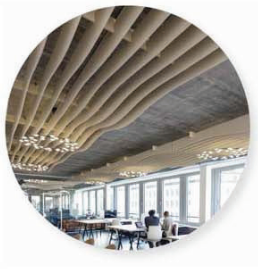


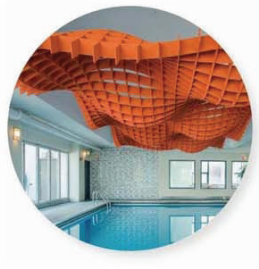
PRODUCTION PROCESS





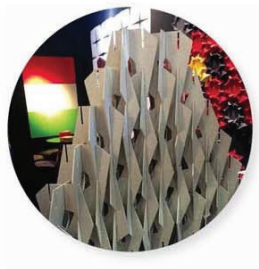
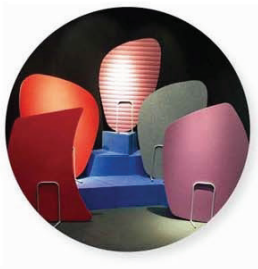
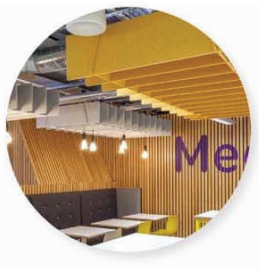
05



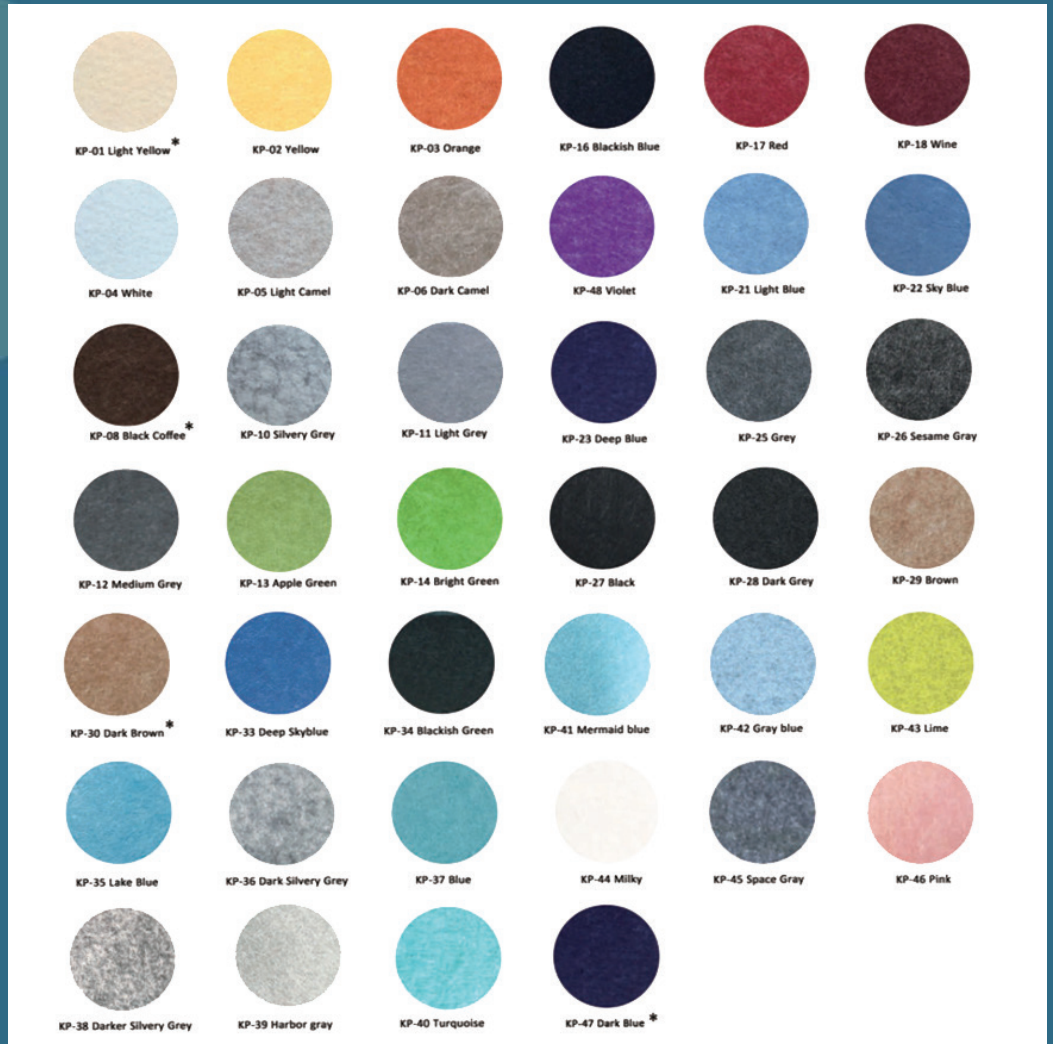




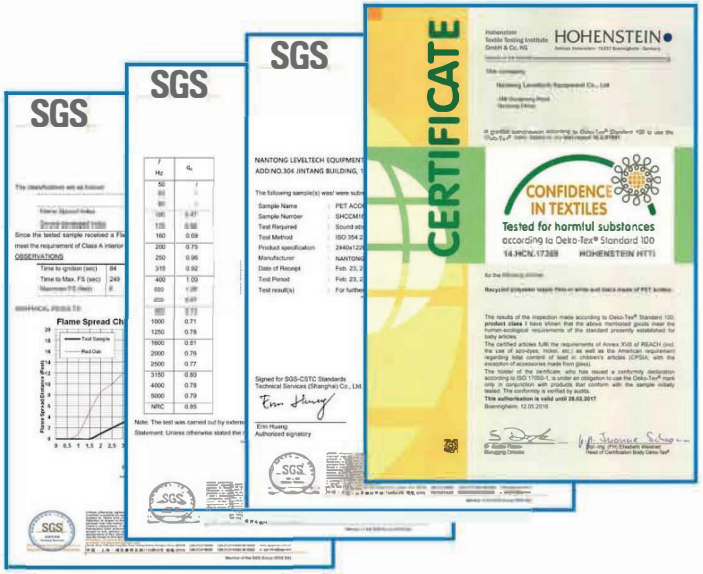





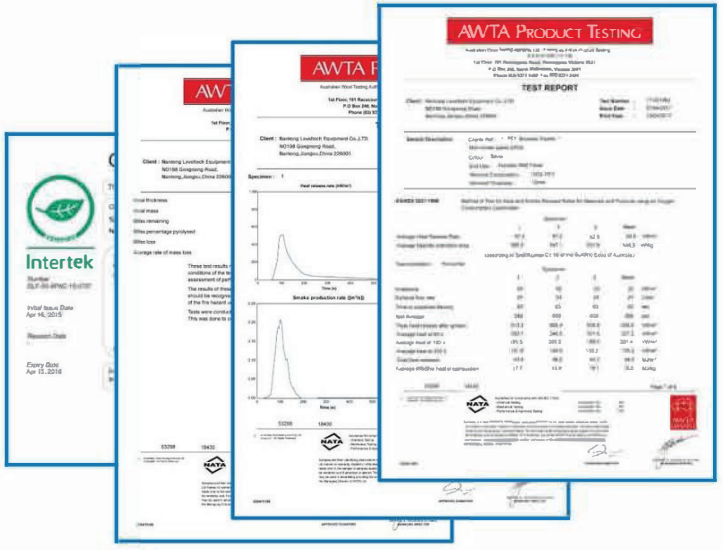
06

COLOR GUIDE



CERTIFICATION

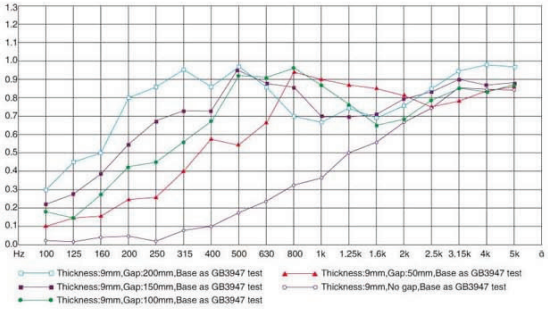




PLAIN PET ACOUSTIC PANELS



9mm NRC Test Acoustic Performance



PRODUCT NAME: PLAIN ACOUSTIC PANEL
COLORS: 28 AVAILABLE OR CUSTOMIZED
THICKNESS: 3MM-25MM,ALL AVAILABLE.
NORMAL IS 9MM(HAVE STOCK) AND 12MM
SIZE: NORMAL IS 1220*2440MM.OTHER SIZE AVAILABLE CUSTOMIZED.
MAX SIZE:2440MM*3050MM
MATERIAL: 100% POLYESTER FIBER(PET)
PRODUCER AND DESIGN: OFISOLUTION
DENSITY: 1200G/M2-3500G/M2,ALL AVAILABLE.

ENGRAVE ACOUSTIC PANEL









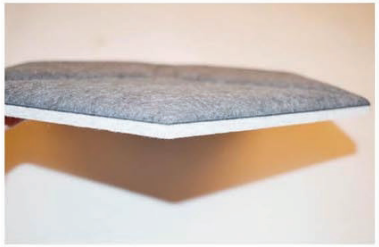


PRODUCT NAME: ENGRAVE ACOUSTIC PANEL
DESIGN: ENGRAVE ANY DESIGN OR CUSTOMIZED
THICKNESS: 3MM-25MM
SIZE: WITHIN 1220*2440MM
MATERIAL: 100% POLYESTER FIBER(PET)
COLOR: 28 KINDS AVAILABLE
PRODUCER: OFISOLUTION



3D ACOUSTIC PANEL











PRODUCT NAME: 3D ACOUSTIC PANEL
OEM MOULD AS YOUR IDEA
OEM SIZE AND THICKNESS AND DESIGN
MATERIAL: 100% POLYESTER FIBER(PET)
COLOR: 28 KINDS AVAILABLE OR CUSTOMIZED
PRODUCER: OFISOLUTION
USAGE: DECORATION

SUSPENDED SPACE DIVIDER



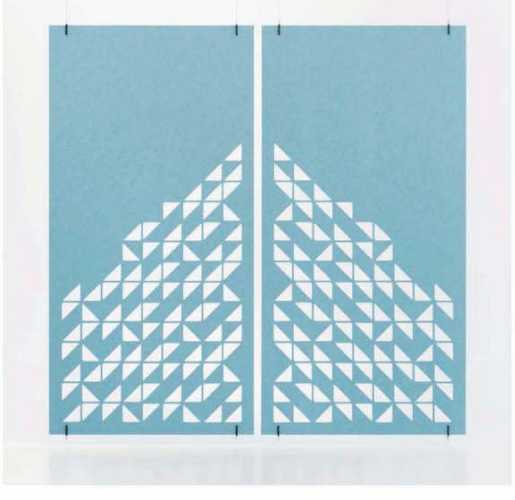


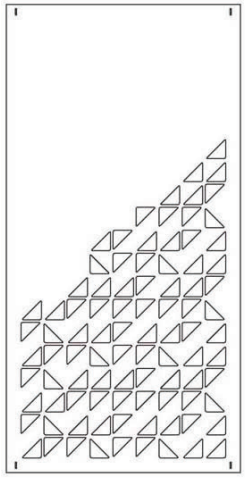
ACCESSORIES



PRODUCT NAME: SUSPENDED SPACE DIVIDER
COLOR: 28 AVAILABLE
THICKNESS: 9MM OR 12MM
SIZE: 1220MM*2440MM
COMPONENTS: 1PCS*ENGRAVE PET ACOUSTIC PAENL(100% PET-60% RECYCLE)
1SET SUSPEND HANGING ACCESSORIES







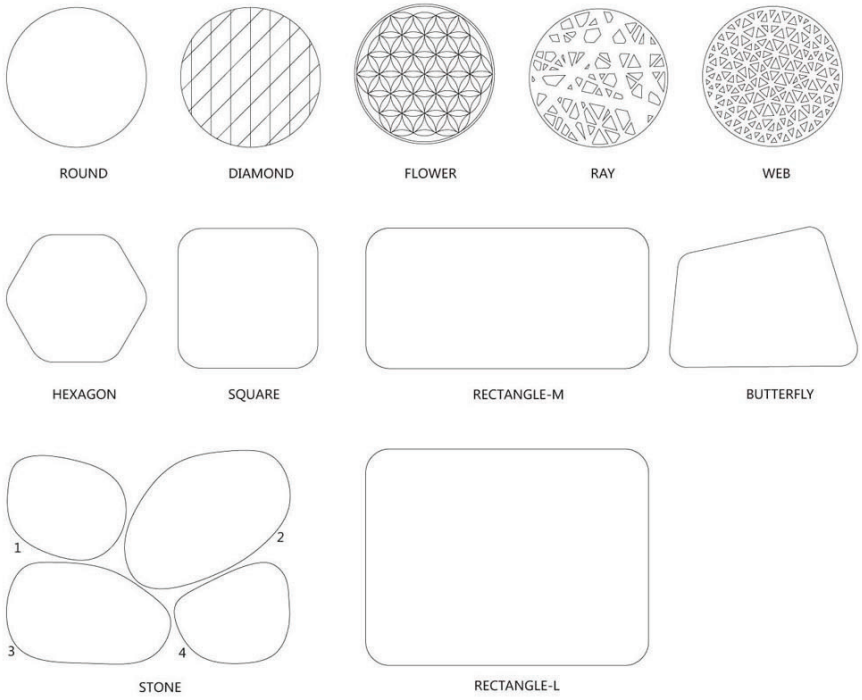




CEILING SUSPENDED

PRODUCT NAME: CEILING SUSPENDED
THICKNESS: 12MM OR 24MM
COLOR: 28 KINDS AVAILABLE
SIZE: OEM
MATERIAL: 100% POLYESTER FIBER(PET)
REMARK: SPECIAL SIZE AND SHAPE COULD OEM

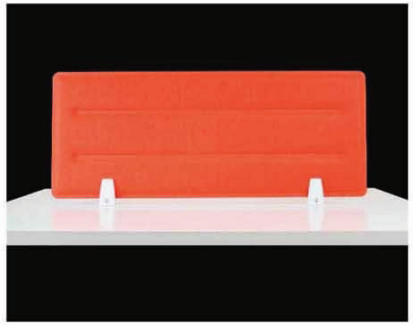
12MM aW 0.85
24MM aW 0.95



ACOUSTIC PARTITION AND DESK SCREEN







PRODUCT NAME: ACOUSTIC PARTITION AND DESK SCREEN
MATERIAL: 100% POLYESTER FIBER(PET)
COLOR: 28 KINDS AVAILABLE
SIZE,THICKNESS,DESIGN ALL COULD OEM
USAGE: OFFICE,FURNITURE,ADJUSTABLE DESK PARTITION

FABRIC WRAP ACOUSTIC PANEL









PRODUCT NAME: FABRIC WRAP ACOUSTIC PANEL
THICKNESS: 5MM-50MM
SIZE: AS REQUEST
FABRIC COLOR: AS REQUEST
INSULATION: 100% POLYESTER FIBER(PET)
USEAGE: ACOUSTIC OFFICE PARTITION OR WALL DECORATION





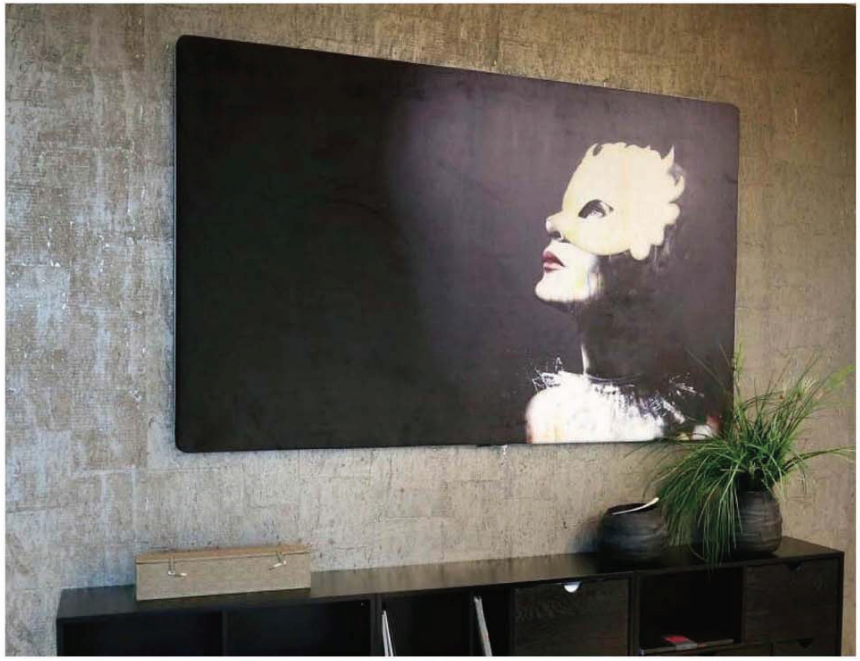


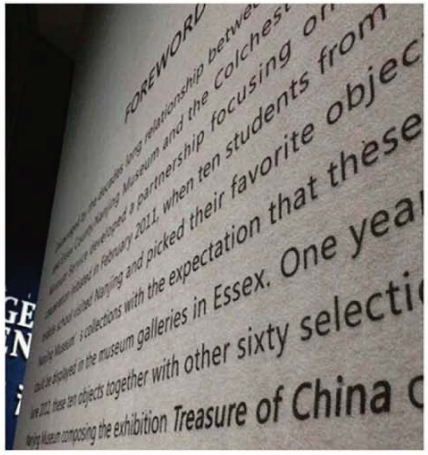


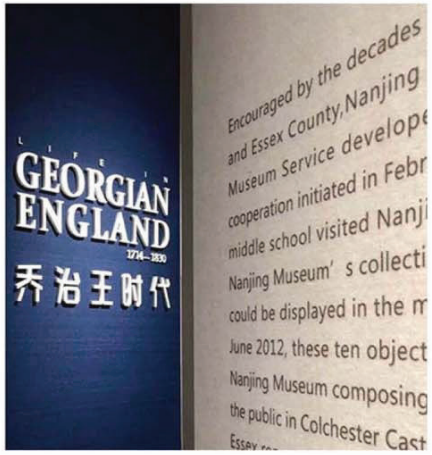




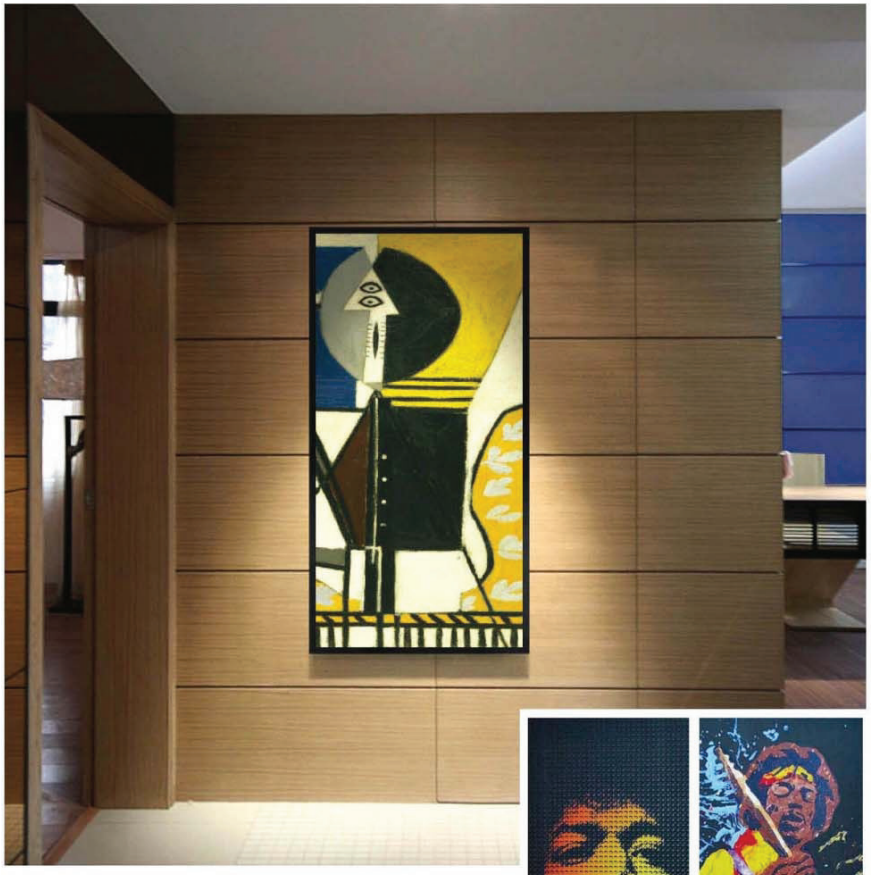
PRINTING ACOUSTIC PANEL(DESIGN AS REQUEST)







PRODUCT NAME: PRINTING ACOUSTIC PANEL(DESIGN AS REQUEST)
MATERIAL: 100% POLYESTER FIBER(PET)
THICKNESS: 9MM AND 12MM
USAGE: DECORATION,ACOUSTIC,SOUNDPROOF



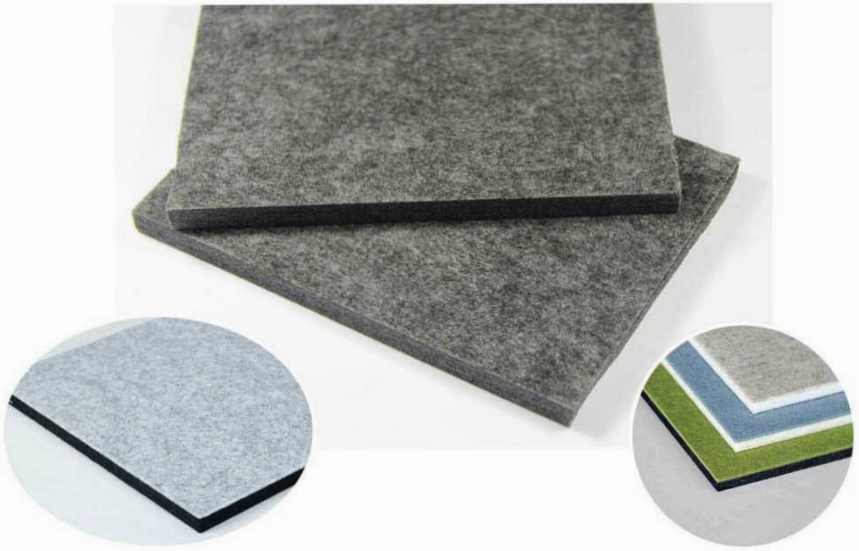


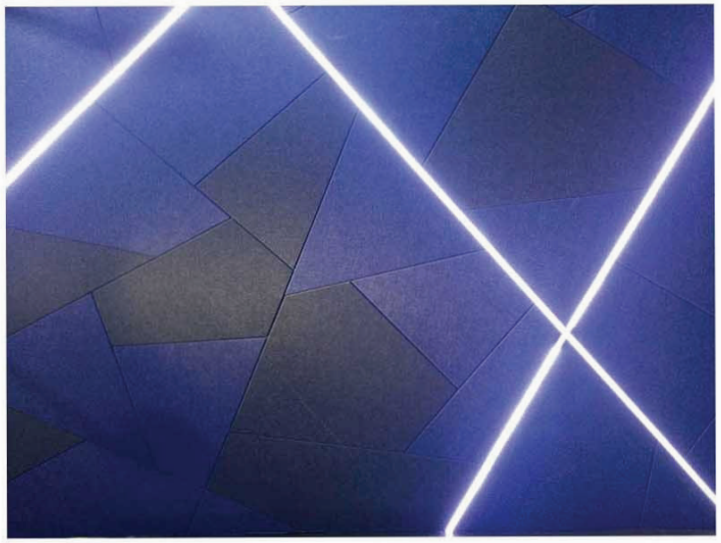




PRODUCT NAME:
SECONDARY HOT-PRESSED ACOUSTIC PANEL
MATERIAL: 100% POLYESTER FIBER(PET)
THICKNESS: 3MM-25MM
COLOR: 28 AVAILABLE
USAGE: AS SUBSTRATES MATERIAL OR FINISH STICK FELT
SIZE: WITHIN 2440MM*3050MM, ALL AVAILABLE

SECONDARY HOT-PRESSED ACOUSTIC PANEL





3MM FELT

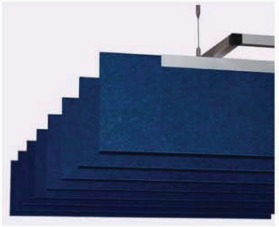
PRODUCTS NAME: 3MM FELT
SIZE: NORMAL IS 1M*50M/ROLL.
MAX WIDE IS 2M.
LENGTH NOT LIMITED
DENSITY: 600G/M2
COLOR: 32 KINDS AVAILABLE
(INQUIRY TO FIND)
USAGE: WRAP USED FOR FURNITURE








USAGE: OFFICE,FURNITURE,CEILING AND SO ON WRAP USING









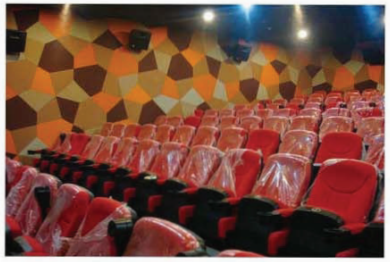
Guatemala Case(the company corridor) :
LW04 Sliver and LW06 Charcoal and LW02 Beige panel ,
cut to different shape and orderly joint together.
Like new art beauty.



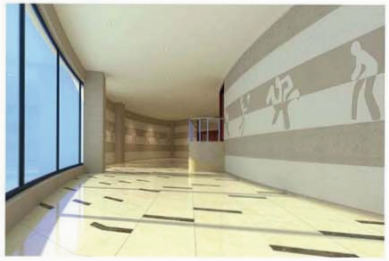
Australia Public Library



Beijing Music Room



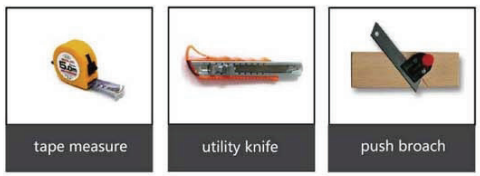
Shanghai Cinema



Guangzhou Hotel Lounge

INSTALLATION GUIDE

▶ Preparation : tools







▶ 1. Clean wall surface, lightly mark wall to indicate level hanging position

① leveling & measuring



② lightly mark wall to indicate level hanging postion



▶ 2. Cutting

1. Chamfering

① Cutting

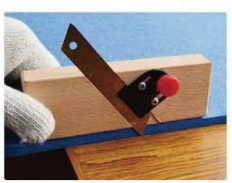


② Chamfer 45 degree bevel edge by chamfering tool

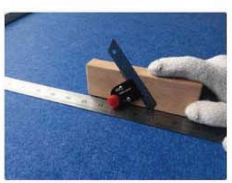


2. Internal and external corners processing

① Adjust the height of the knife



② Cut 4/5 depth of the panel

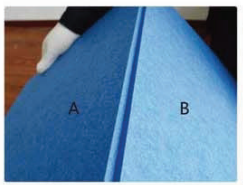


Caution :

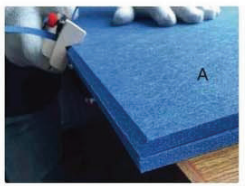
Recommend rigid steel ruler if cut by hand Recommend utility knife to avoid rough edges of the panel while cutting

▶ Cutting

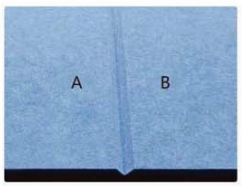
③ After cutting



④ Chamfer45 degree beveledge for side "A" by chamfering tool



⑤ Same way to chamfer side " B" edge



⑥ After chamfering



▶ 3. Apply adhesive to the position on the surface

Apply adhesive



Caution :

- Adhesive : white latex , general chloroprene glue, hot melt adhesive are suggested according to different wall surface.

▶ 4. Lower panel slowly to wall surface maintaining the level position until the flat panel surface makes contact with the wall surface

① Installation



② Finish

