



# ACOUSTIC & WOOD SOLUTIONS





## Content:

PRODUCTS	
Ceiling panel system	4
Wall panel system	6
Suspended ceiling	8
Wall finishing system	10
Acoustical elements	12
Doors, access panels	14
DRAWINGS	
Solo perforation types	16
Solo ceiling systems	18
Solo linear systems	19
Clip In and PIN system	20
MATERIALS	
Core boards, acoustic fleece	22
Finishing materials	23

## Perfect choice

The company Glastik was established in 2007 and through successful operating results has become one of the leading producers of the wood finishing materials in Baltic region. It has accumulated extensive experience in wood finishing projects taking part in many important Europe level projects.

The flexibility and individual approach to each project as well as cooperation with experts in various industries promotes the development of high-quality and cost-effective products.

The tree is the oldest building material with excellent aesthetic and technical characteristics highly valued for many centuries and it is ideal for use as a decorative finish also indoor as it creates a pleasant atmosphere and an ecological micro-climate. Due to its characteristics the wood is easily processed and combined with other ecological materials and therefore it is possible to create products characterized by a high fire resistance and moisture resistance. The properties of wood panels allow them to be used for both façades and escape routes. However, wooden surface resistance, acoustic properties and fantastic design features form the greatest value of this type of finishing.

Only high-quality wood raw material is used in the production process. Broad design options of the veneer make unique any project and the style solution creating inimitable character for the rooms. Every tree trunk is different; therefore the product manufactured is also a single to a certain extent. The cutting-edge technologies and equipment as well as high-quality raw materials produced in EU are used in the production process. The company products are CE certified and fire resistant and this is confirmed by the B-s1, d0 fire class.

Many years of experience in different projects allow the company to take the production of the timber products characterized with different complexity and shapes. We carefully follow the production process and final product quality because we like what we do. We will be happy if our products can also complement your space.

**Our mission:**  
to make your life more beautiful.



Ministry of Environment,  
Warsaw, Poland



Lillebaelt Academy Campus,  
Odense, Denmark



Odense Teater,  
Odense, Denmark



Vestsjællandscentret,  
Slagelse, Denmark



Fields,  
Copenhagen, Denmark



# Ceiling panel system

Polish Committee for Standardization  
Warsaw, Poland

## Solo Collection

A human physical and emotional comfort, ability to work and the mood are affected to a great extent by indoor environmental quality. Unwanted pollution is caused not only by urban dust, but also by unpleasant noises, echoes and sounds from adjacent rooms. These problems can be avoided by using acoustic materials in the room setting.

The company Glastik offers several types of acoustic materials. One of them is Solo wall and ceiling panel the main function of which is to provide acoustic and visual comfort in private and public spaces. Acoustical finishing panels are not just functional products but they are also characterized by high-quality style aesthetics.

The ceiling is one of the largest space planes that carries out background and light dispersing function and takes care of personal psychological perception. Constructive and well thought ceiling solutions make the room comfortable and pleasant, help to concentrate on work and relax in a home atmosphere.

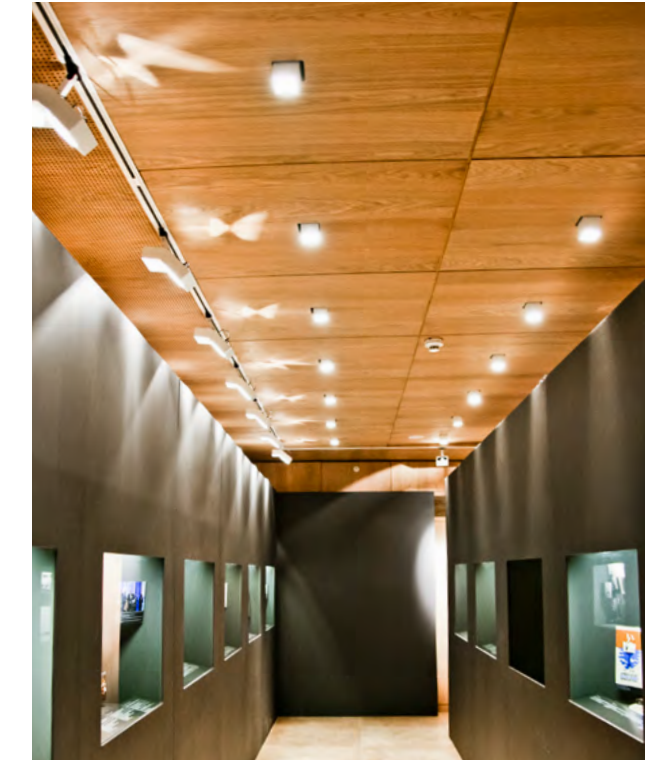
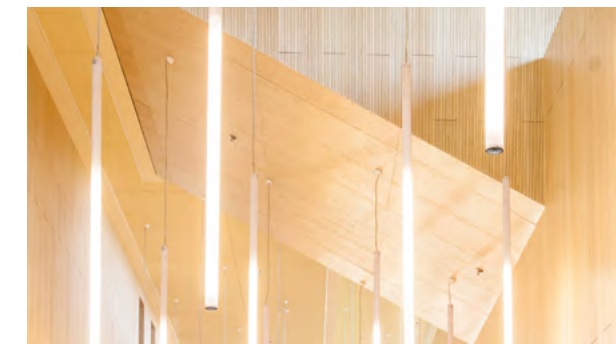
In order to improve acoustic comfort plates are perforated and for sound deadening wool and acoustic fabrics are also used. This system includes different panel edge treatment that allows these panels to lay in a ceiling carrying structure in various ways — with visible and hidden design.

## Construction

Solo system can lay in two type constructions.

T-24/15 system is a standard suspension design for suspended ceiling available in various shades and ways of fixing.

Alulight system is designed for panels with invisible suspension design.



## Suspended acoustical ceiling panel benefits:

1. Attractiveness and rational use of the product is provided by the diversity of size, design solutions and finishing.
2. By using suspended ceiling systems made mainly of wood you can obtain perfect room acoustics and a cosy atmosphere.
3. The ceiling panels from Solo collection are resistant to deformation and retain their original geometry throughout their lifetime. They are easy to maintain.

Panels are available in different sizes and with seven types of perforation or without perforation, with backing from MDF boards or, in case of increased fire safety requirements, from gypsum cellulose plates that provide B-s1, d0 fire class according to EN 13501-1. For surface finish it is possible to use natural or artificial sliced veneers, laminates, melamine as well as colours according to RAL shades catalogue.







# Wall panel system

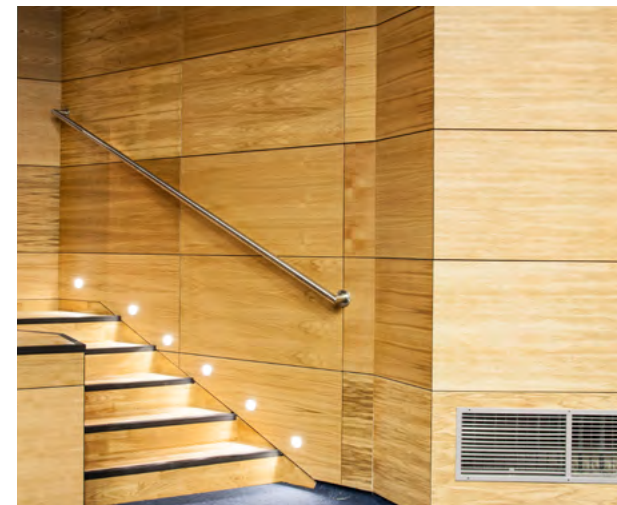
Lubartow, Poland

## Solo Collection

Solo wall panels offer a great opportunity to make your room interior interesting, unique and cosy. Wooden texture will decorate monotonous plane and create interesting accents. Wood warmth makes the room more comfortable, besides the Solo panels are very functional. They protect the wall from mechanical damages caused by chairs, are easy to maintain and improve the acoustic properties of the room. Since the panels are attached to metal structures they can be easily removed and replaced in case of damage. Special corners protection elements can be integrated into the wall panel system, particularly in the outer corners where it is always essential.

## Construction

Three different construction types are available for the Solo system. The PIN system is intended for direct attachment at a minimum distance from the wall. The panels are bound and cannot be opened. Using the Clic system makes it possible to level very uneven walls up to 50 mm, and every panel can be opened separately. Alulight is a double system in which the first layer levels the surface of the wall to which a system of aluminium profile fasteners is formed then. This system also allows smoothing out level differences.

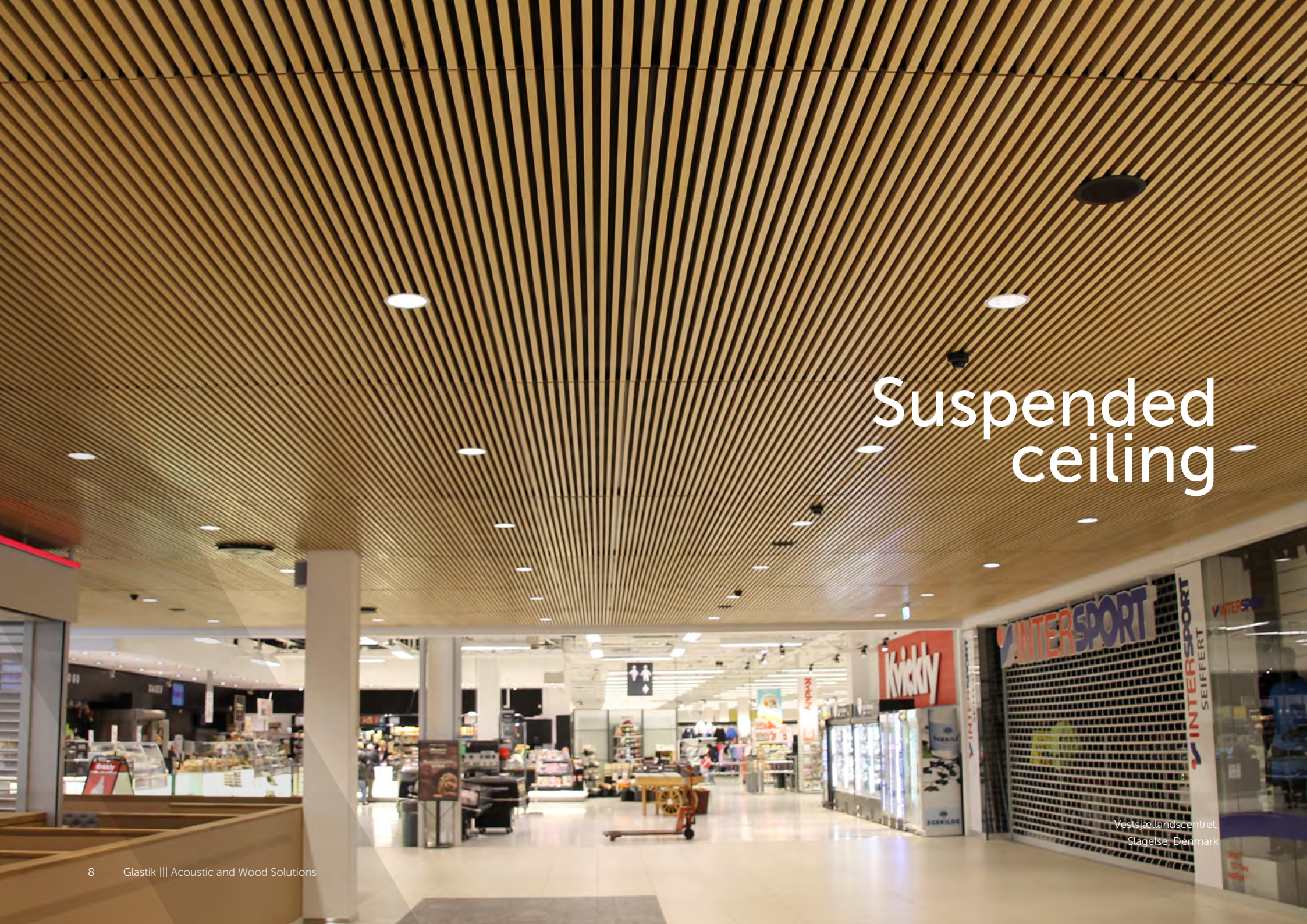


## Wall panel benefits:

1. Acoustical panels are an invaluable solution for cinemas, hotels, theatres, conference rooms as well as for any room where it is necessary to create a high level of acoustic comfort and absorb the unpleasant sound frequencies. They are suitable for decoration in private houses as they diminish the unpleasant echo in broad halls and panels are also useful for home music recording studio finishing.
2. Acoustical finishing panels are not just functional products; they also have high-quality design aesthetics. Acoustical finishing panels often become the original room design accent.
3. The collection of Solo wall finishing panels offers a variety of sizes – up to 3 meters in length. There are different types of perforations and a wide range of finishing solutions: painting, lamination, veneer, decorative aluminium elements incorporation.  
Panels are available in different sizes and with seven types of perforation or without perforation, with backing from MDF boards or in case of increased fire safety requirements – from gypsum cellulose plates that provide B-s1, d0 fire class according to EN 13501-1. For surface finish it is possible to use natural or artificial sliced veneers, laminates, melamine as well as colours according to RAL shades catalogue.







# Suspended ceiling

Vestsjællandscentret,  
Slagelse, Denmark

## Solo Linear Collection

Solo Linear slatted grid-type ceiling is a modern ceiling finishing solution. Its sound diffusion and wooden aesthetic properties have a beneficial effect. A good choice for sports halls and shopping centres in case the communication systems which are located at the ceiling have to be concealed.

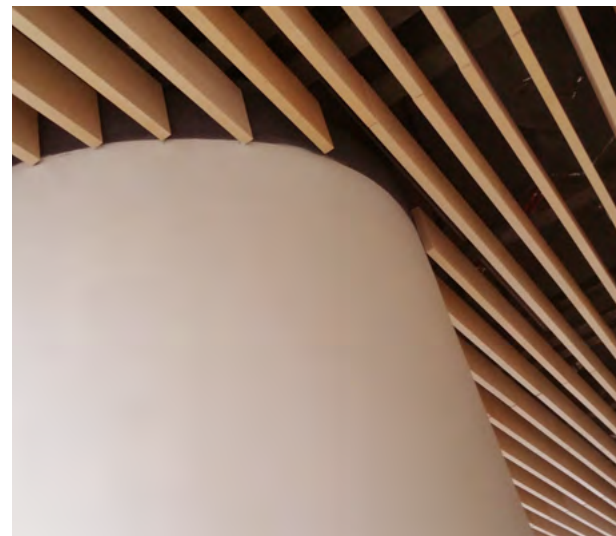
The gaps between the ceiling plates do not create massive ceiling plane. The ceiling open construction allows controlling communication routine work and quickly identifying the points of the problems. But the slatted panels may also be used as a decorative accent to reduce the monotony of large planes.

## Construction

The Solo system can be used in two types of constructions.

T-24/15 system is a standard suspension design for suspended ceiling available in various shades and ways of fixing.

The Alulight system is designed for panels with concealed suspension design.



## Ceiling panel benefits:

1. Solo linear ceiling system consists of plates forming the ceiling panel. Using this type of open ceiling the room communications may remain behind the ceiling plane.
2. Available in numerous designs, sizes and shapes.
3. Safe exploitation of the ceiling.

Available panels in different sizes with backing from wood fibre boards, veneer and solid wood or in case of increased fire safety requirements – from fire-resistant veneer that provides B-s1, d0 fire class according to EN 13501-1. For surface finish it is possible to use natural or artificial sliced veneers, laminates, melamine as well as colours according to RAL shades catalogue.





# Wall finishing system

Vestsjællandscentret,  
Slagelse, Denmark

## Solo Linear Collection

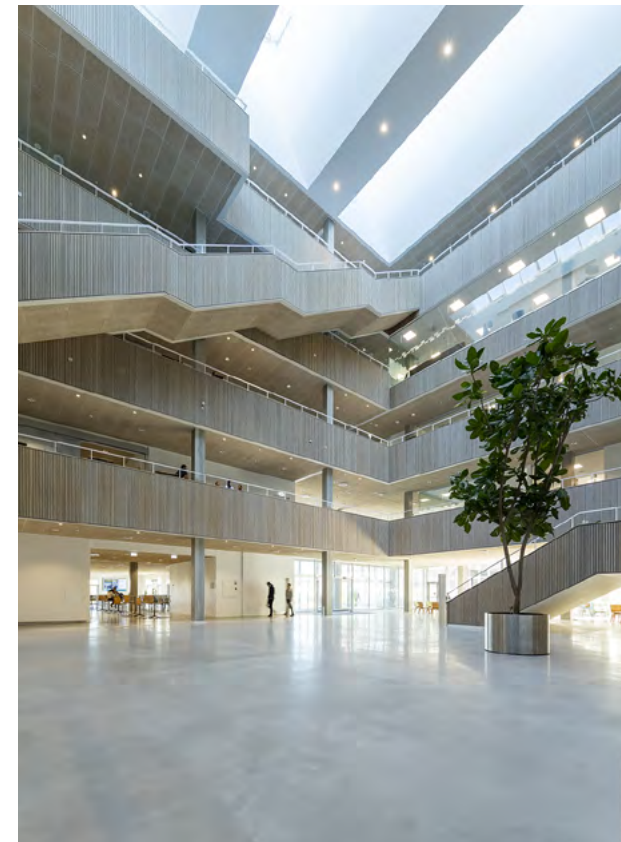
Solo Linear slatted grid-type wall is an unconventional wall finishing solution. The open shape of the panel allows operating the heating elements mounted at the wall. Architectural and linear accent is often required in a modern setting. Linear style and wooden structure interaction create a very interesting harmony. A suitable solution for sports halls, shopping centres, offices, facades.

## Construction

The Solo system can be mounted in two types of constructions.

The T-24/15 system is a standard design available in various shades and for fixing directly to the wall. The panels are fastened to one another and the wall system cannot be opened.

The Clic system is designed for easy panel installation and opening it in any place.



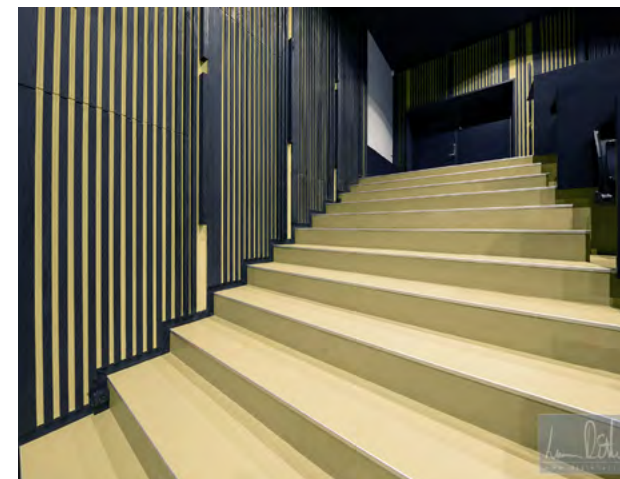
## Finishing panel benefits:

1. Solo linear ceiling system consists of plates forming the wall panel. Using such breathable and heat-permeable open type wall panels makes it possible to conceal all communications behind them.

2. Available in numerous designs, sizes and shapes.

3. Safe and convenient operation every day.

Available panels in different sizes with backing from wood fibre boards, veneer and solid wood or in case of increased fire safety requirements – from fire-resistant veneer that provides B-s1, d0 fire class according to EN 13501-1. For surface finish is possible to use natural or artificial sliced veneers, laminates, melamine as well as colours according to RAL shades catalogue.







# Acoustical elements

Music school,  
Saldus, Latvia

## The Forte sound reflectors

Diffusers or sound distributors are used to prevent sound distortions in the rooms such as echoes. It is a great alternative or addition to sound absorption as the diffusers use sound energy rather than remove it in order to effectively reduce the different echoes and reflections while leaving live sounding room. In comparison with a reflective surface which makes it possible to reflect most of the energy at an angle that corresponds to the angle of incidence, the diffuser will emit sound energy in many directions, thus creating the expansion of acoustic space. Equally relevant is the fact that the diffuser distributes reflections in time and space. Diffusers can contribute to the diffusion of sound but more often they are used to remove echoes and other acoustical interferences. They are suitable for acoustic concert halls, theatres, cultural houses, recording studios and home cinemas. We manufacture both MLS and QRD type diffusers.

Sound diffusion panels may have different shape and layout of the room therefore acoustic elements of each project are prepared individually and are based on the room acoustic analysis.

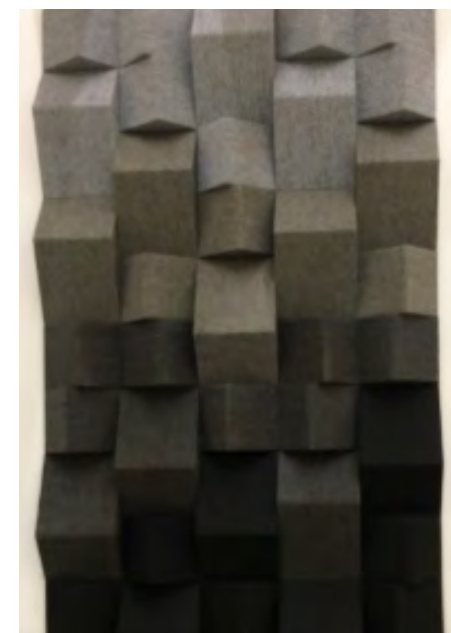
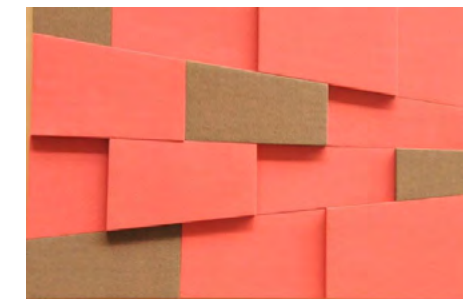


## The Pianissimo sound absorbers

Acoustical comfort with additional design effect. In high traffic areas where there are many people communicating with each other by telephone and personally the planned space absorbing acoustics provided by the ceiling, floor and furniture is often not enough. The working process is disrupted for all people staying in the room. People are no longer able to concentrate, they experience additional stress and it is impossible to work productively. The long-term exposure to noise can traumatize the human hearing.

In such situations the sound absorption element Pianissimo manufactured by Glastik absorbs and removes excess noises, reduces the reverberation time and perfectly helps to improve the room acoustics.

Furthermore the absorbers are also great design objects that can be printed on and create a pleasant room setting. Pianissimo elements in different shapes, colours and textured fabrics are available. These can be freely fixed in any place as well as removed without damaging the surfaces.





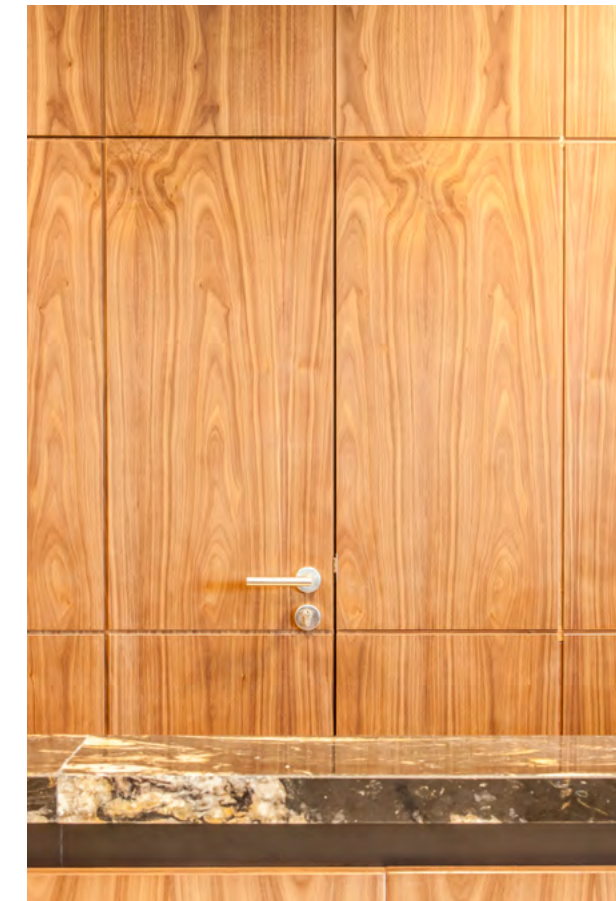
# Doors, access panels

Polish Committee for Standardization,  
Warsaw, Poland

Interior doors are one of the functional elements of the premises, and each customer may have different requirements. This applies to both the technical features and the design as well as to usable accessories.

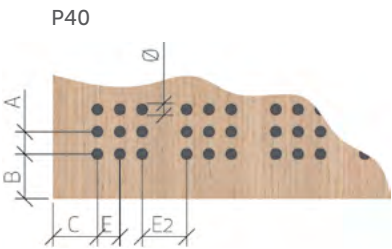
Glastik offers custom-made object interior doors. Fire resistant and soundproof doors are available. Door manufacturing process takes into account the customers' requirements in terms of design, materials, decorative trim and door lock function. The doors manufactured by Glastik are incorporated into the common wall finishing system forming a uniform design.

Doors are manufactured with high accuracy and more than 100 different types of veneer as well as different options of the integration of accessories are available for finishes.





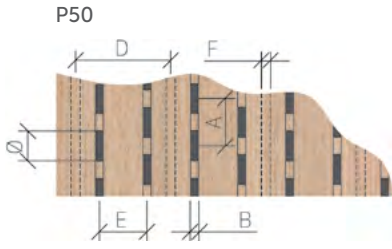
Solo perforation types



P40 8/32/4X4  
Ø=8; A=32; B=39;  
C=39; E=32; E2=46

P40 7/16/10X10  
Ø=7; A=16; B=28;  
C=28; E=16; E2=56

P40 3/16/6X6  
Ø=3; A=16; B=20;  
C=20; E=16; E2=40



P50 14/2/10/16  
Ø=10; A=16; B=2; D=32;  
E=16; F=3

P50 29/3/10/16  
Ø=10; A=16; B=3; D=32;  
E=32; F=3

P50 5/3/10/32  
Ø=10; A=32; B=3; D=32;  
E=8; F=3

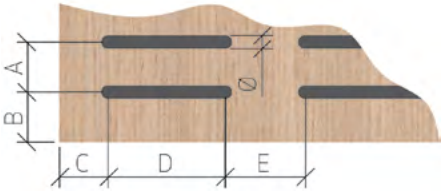


P70 12/3  
A=12; B=3

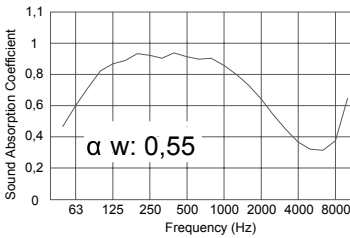
P70 27/3  
A=27; B=3

P70 46/4  
A=46; B=4

P10

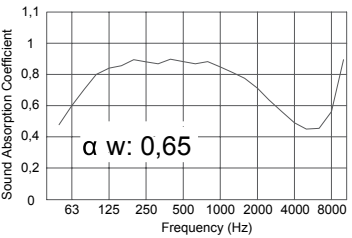


P10 5/20/20/20



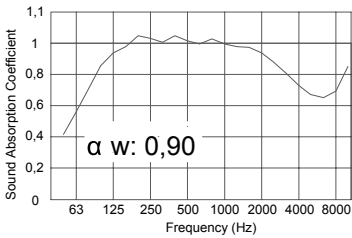
Ø=5; A=20; B=30; C=30; D=20;  
E=20

P10 8/70/30/48



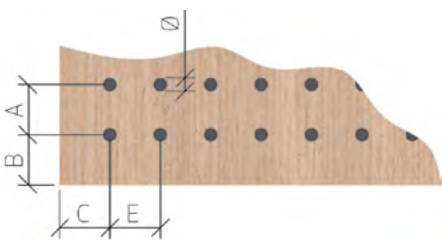
Ø=8; A=30; B=30; C=29; D=70;  
E=48

P10 8/140/20/60

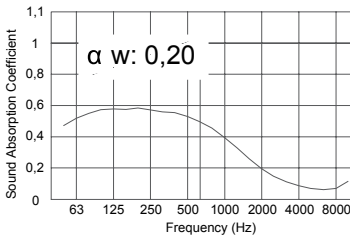


Ø=8; A=20; B=30; C=30; D=140;  
E=60

P20

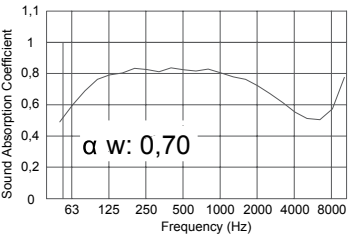


P20 3/16



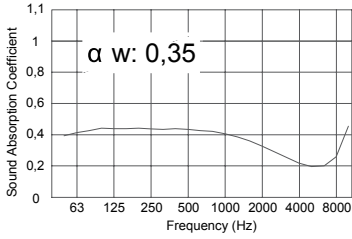
Ø=3; A=16; B=28; C=28; E=16

P20 7/16



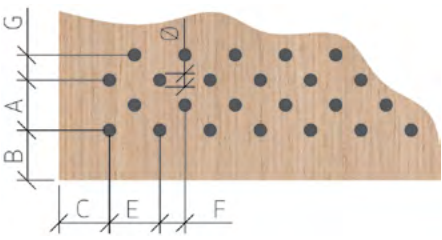
Ø=7; A=16; B=28; C=28; E=16

P20 8/32

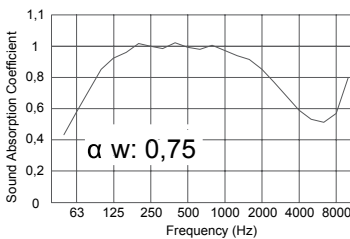


Ø=8; A=32; B=28; C=28; E=32

P30

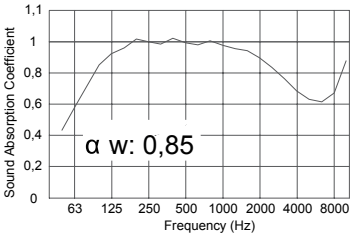


P30 3/16/16



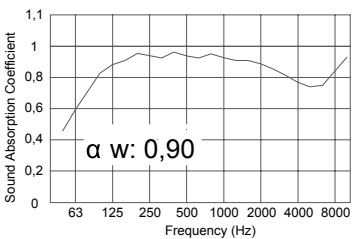
Ø=3; A=32; B=28; C=28; E=16;  
F=8; G=16

P30 7/32/32

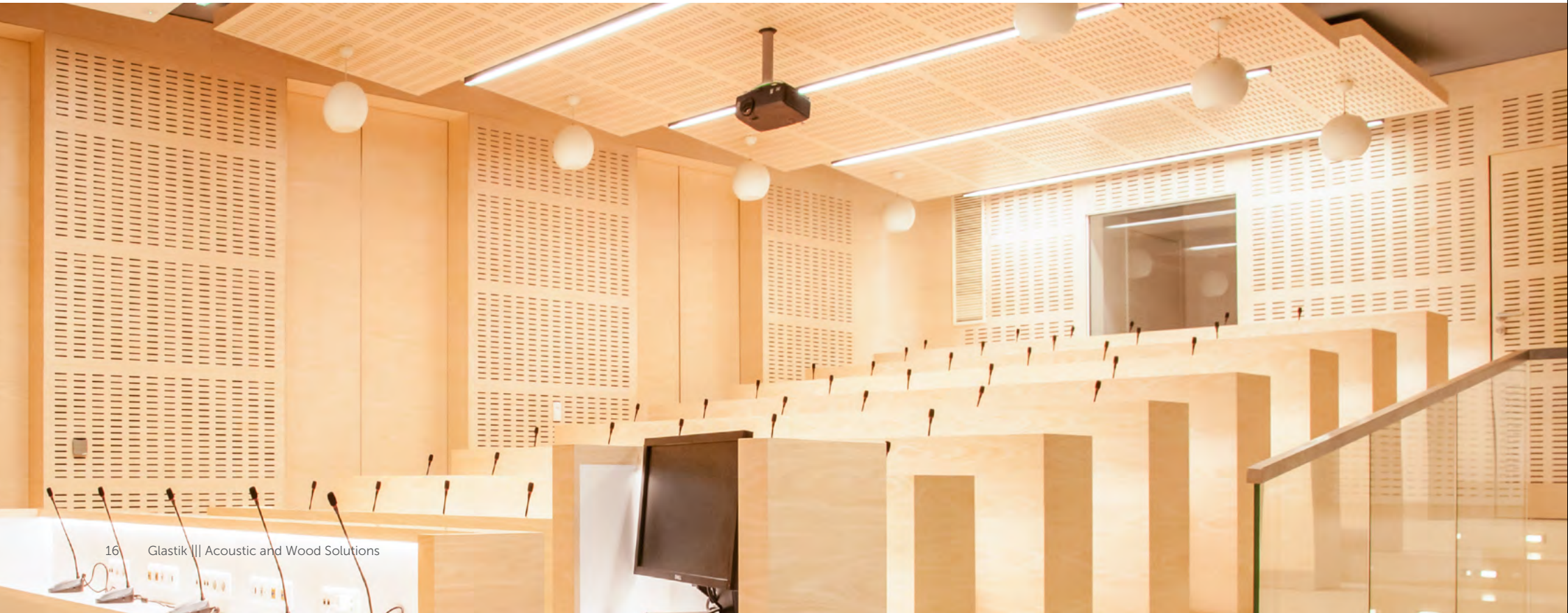


Ø=7; A=64; B=28; C=28; E=32;  
F=32; G=32

P30 8/32/16



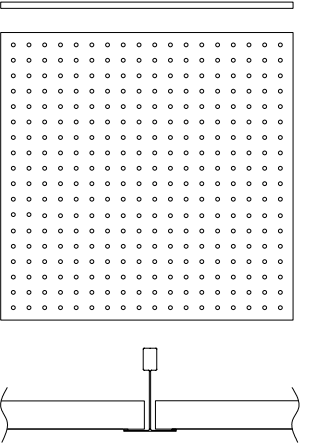
Ø=8; A=32; B=28; C=28; E=32;  
F=16; G=16



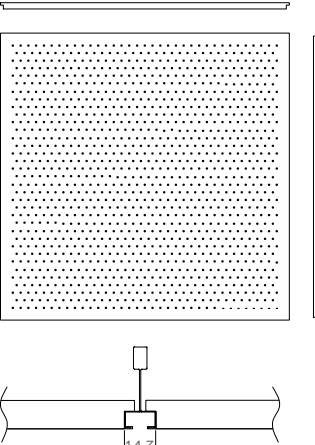


# Ceiling systems

System R  
exposed, demountable

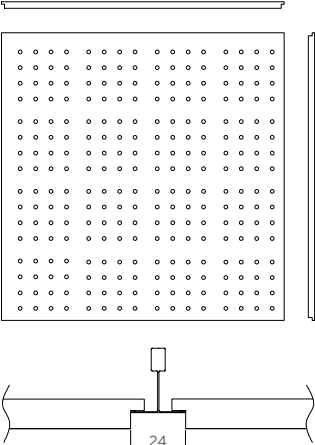


System R2  
exposed, demountable

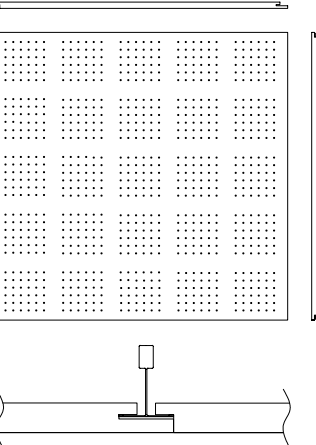


\* Optional pre-installed LED strip

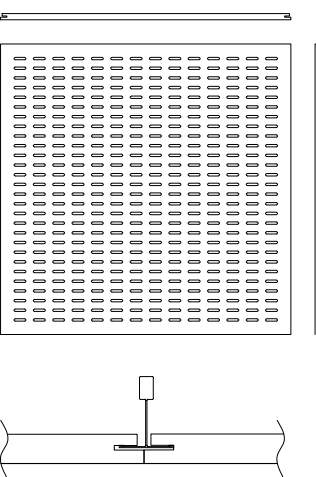
System I  
exposed-immersed, demountable



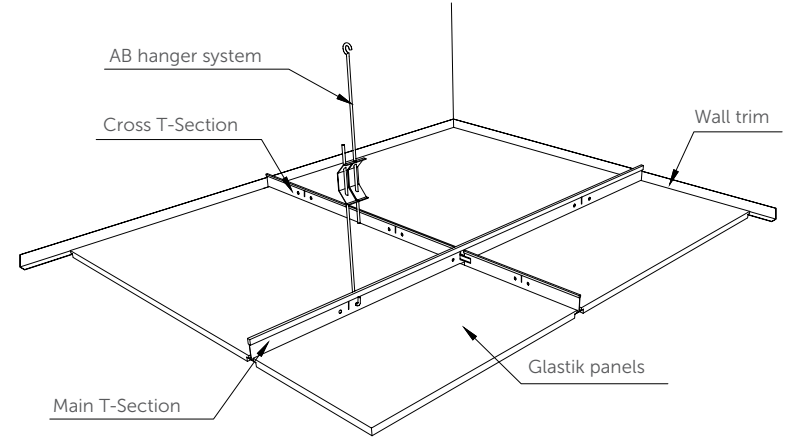
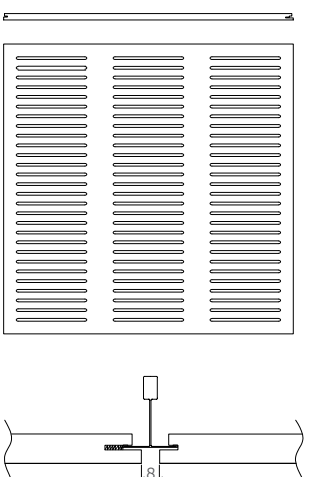
System S  
concealed, demountable



System S2  
concealed, non-demountable

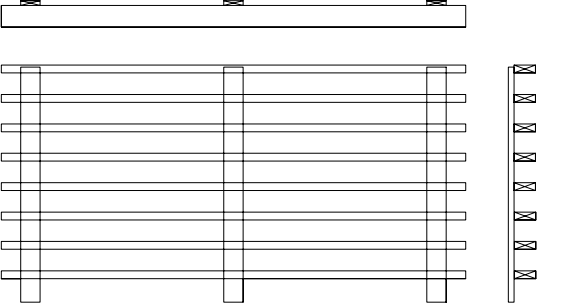


System S3  
concealed with shadow gap, demountable

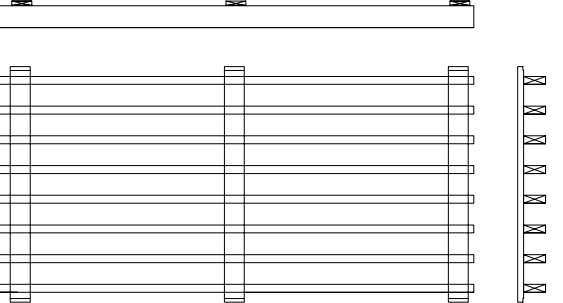


# Solo linear panels

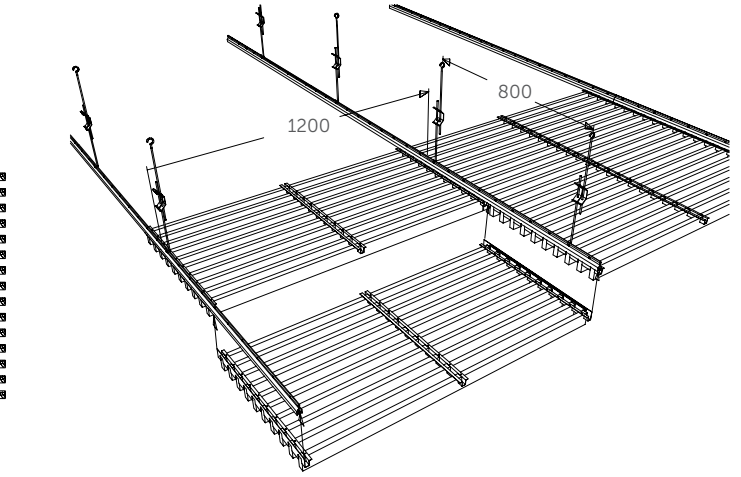
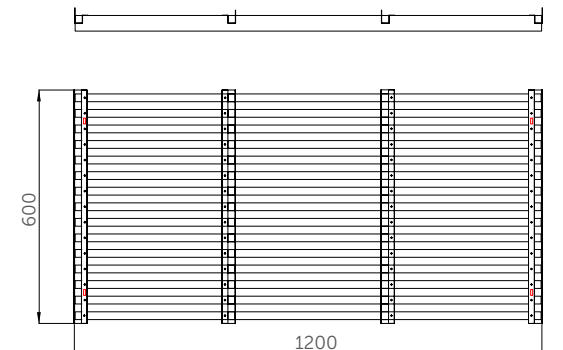
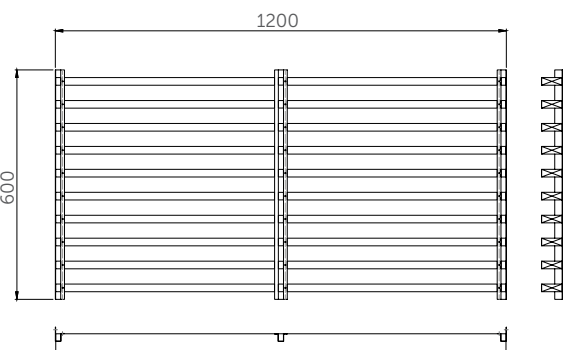
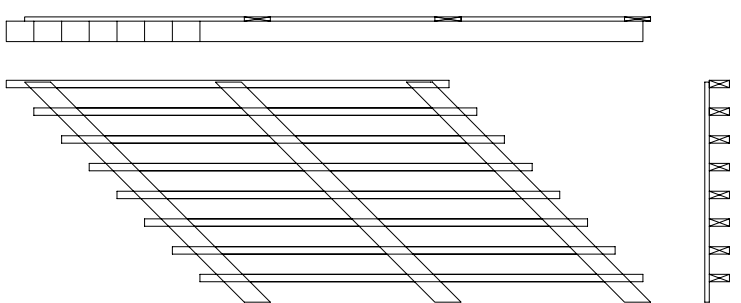
X 552055 type



X 552055 type

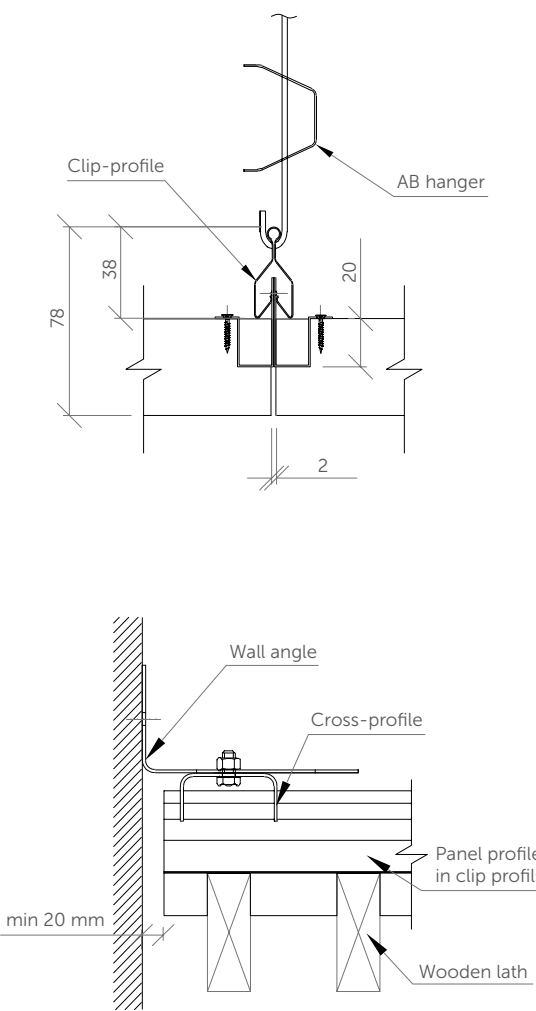


X 552055 type special

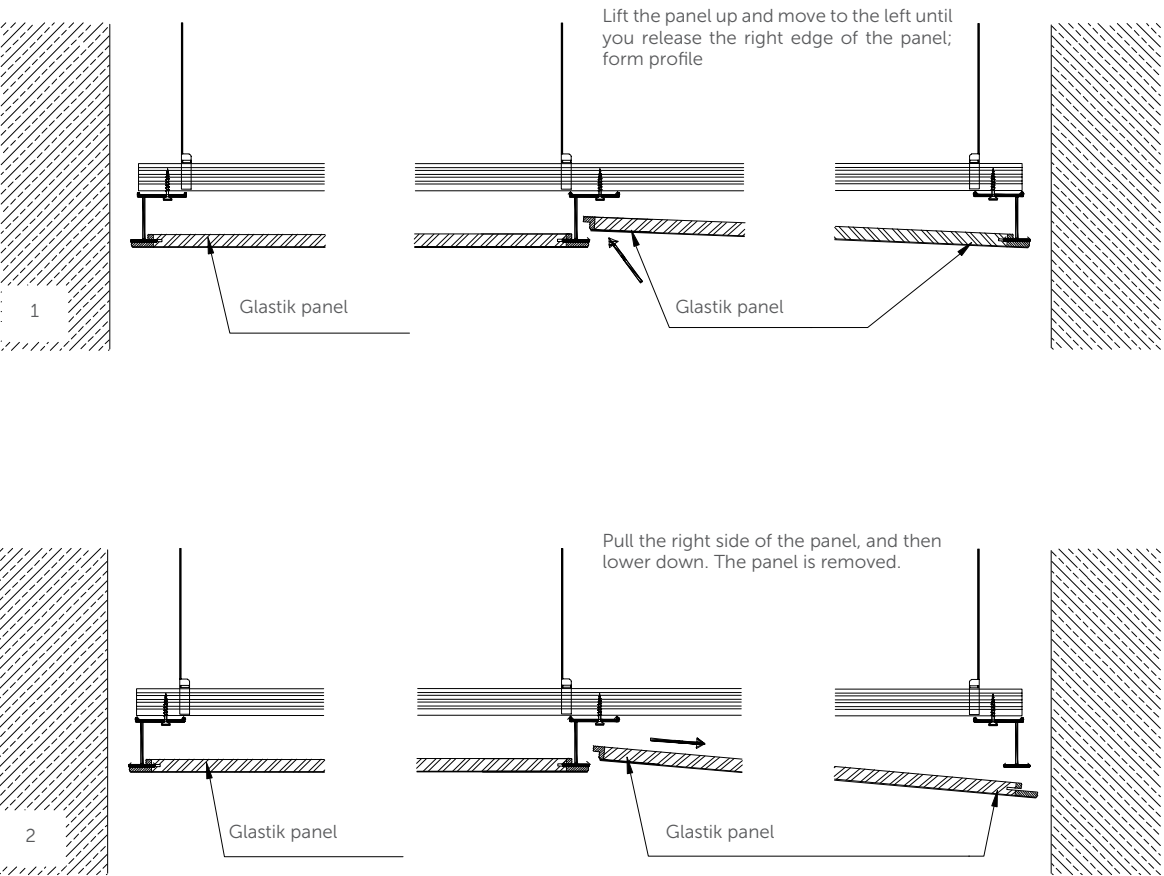




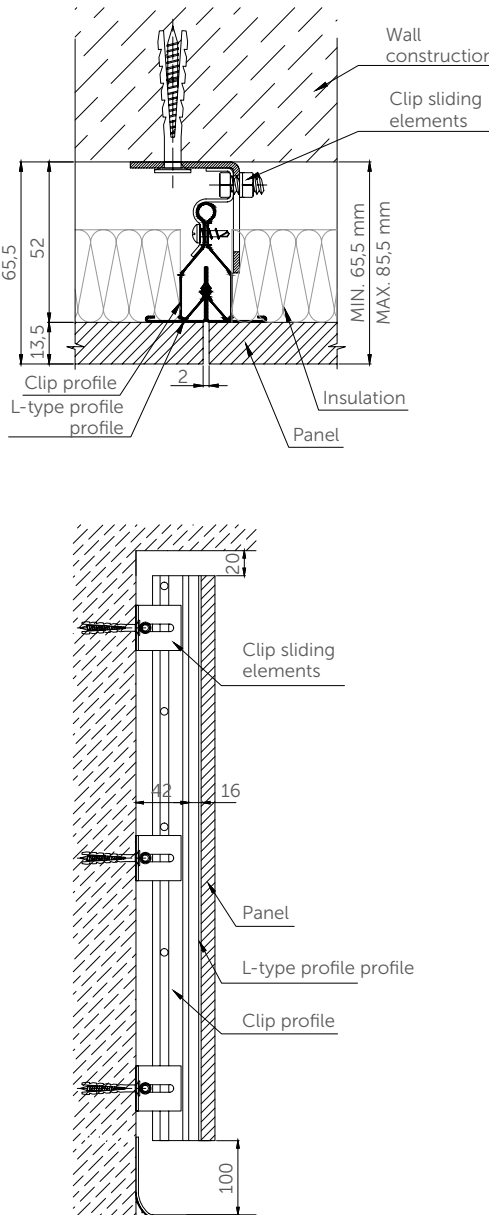
# Clip-In system for ceilings



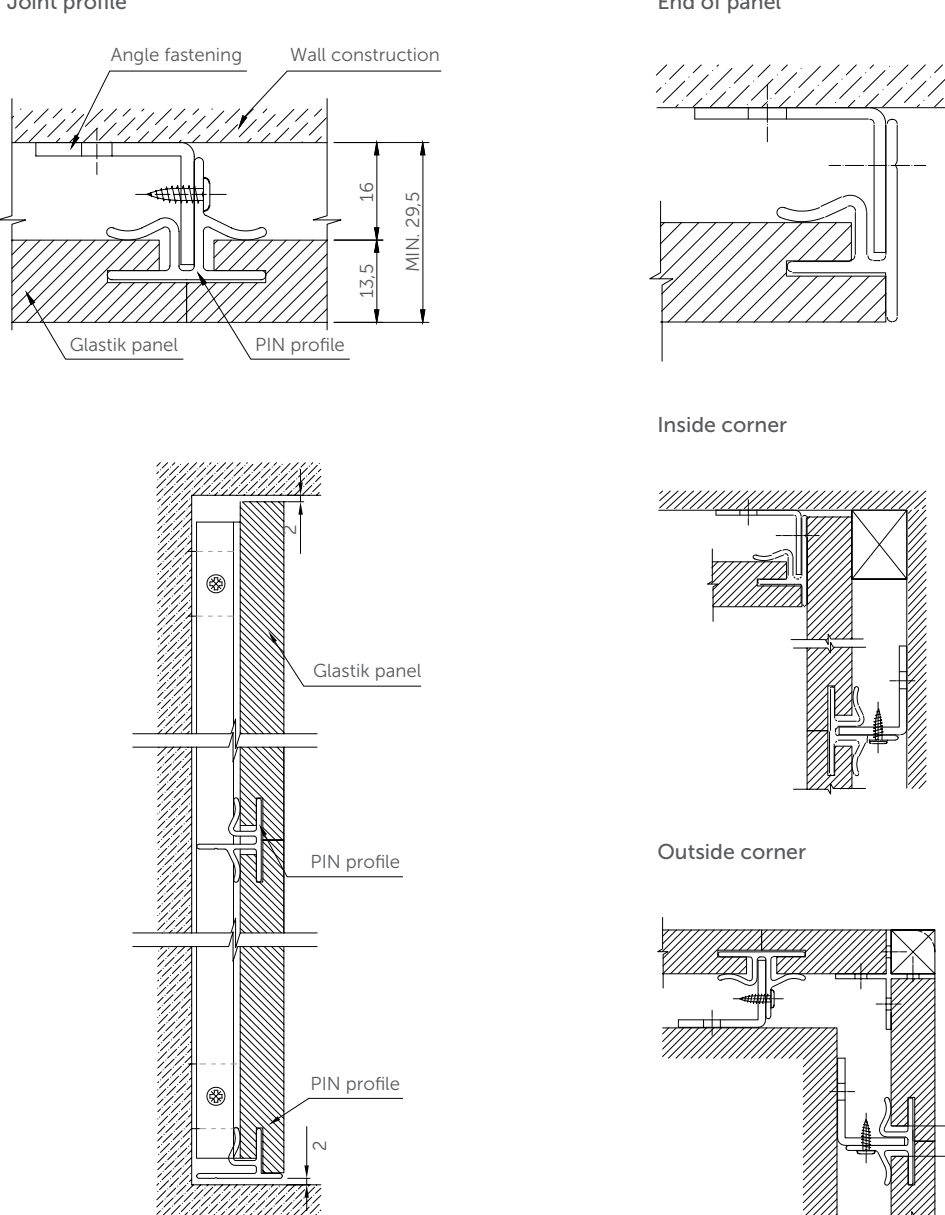
# Pin system for ceilings



# Clip-In system for walls



# Pin system for walls





# Materials used

The company Glastik offers its customers a choice of different raw materials for their projects. For the base fibreboard, plywood, gypsum cellulose, calcium sulphate boards from the leading global manufacturers can be selected. Basic standard plate thickness is 12 mm.



Core	Gypsum Fibreboard 12,5mm						MDF/Moisture rsistantMDF/Fire retardant MDF 12mm						Birch/pine Plywood 12mm							
Fire rate	-	B, s1-d0	-	B, s1-d0	-	B, s1-d0	-	B, s1-d0	-	B, s1-d0	-	B, s1-d0	-	B, s1-d0	-	B, s1-d0	-			
Surface	Wood veneer		HPL		Paint		Wood veneer		HPL		Paint		Paint		Wood veneer		HPL		Paint	
Thicknes	13mm	13mm	14,3mm	14,5mm	12,7mm	12,7mm	12,5mm	12,5mm	13,8mm	14mm	12,2mm	12,2mm	12mm	12mm	12,5mm	12,5mm	13,9mm	15mm	12,2mm	12,2mm
Max size	3000x900mm						3000x900mm						3000x900mm/2500x900mm (B, s1-d0)							
Ideal size	300x600, 600x600, 1200x600, 2400x600						300x600, 600x600, 1200x600, 2400x600						300x600, 600x600, 1200x600, 2400x600							

## Acoustic fleece

The highest quality fireproof acoustic fabric with different thickness and colour is used to improve the acoustic properties of panels.



## Finishing materials

More than 100 types of natural and artificial (multilayer) sliced veneer and laminates can be chosen for panel finishes. The products manufactured by Glastik can also be painted according to the RAL catalogue. The choice is yours!



## Natural wood veneer



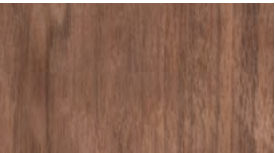
Beech



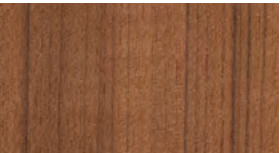
Ash



Oak



American walnut

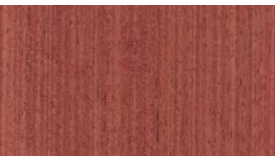


Teak



Birch

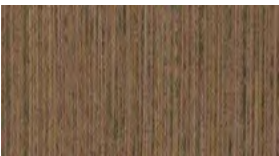
## Modified wood veneer



Mahogany



Canadian walnut



Venge



Makasars ebony



Oak graphic / radial



Cherry

## Veneer grade



### Premium

- Striking and well-defined grain
- Clear colour and structure
- Veneer that is excellent for decorative use
- Small, scarcely noticeable character traits are tolerated



### Superior

- Structure with less texture
- Slight colour variations are allowed
- Small knots in the wood
- Half crown cut may occur



### Base

- Small, centred knots
- Less emphasis on structure
- Larger and more prominent knots
- Discoloration
- Mineral streaks



## Epilogue

Due to its aesthetic and functional properties wood has become an integral part of the 21st century's architectural and interior design. New technological capabilities allow it effectively to integrate in the human environment in various forms thereby improving the quality of a modern space even to the smallest nuances.

The company Glastik is specialized in the manufacturing of wooden finishing materials. In order to achieve a harmonious room design a successful colour, shape and sound interaction is required. Pursuant to this concept as well as understanding the customers' needs and technological features of wood-processing the products that meet high-quality design, fire safety and acoustic requirements have been created.

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