ACOUSTIC & WOOD SOLUTIONS

glastik

CONTENT:

REFERENCES:

Steno Diabetes Center,
Copenhagen, Denmark

Copenhagen Airport, Finger E,
Copenhagen, Denmark

Domina Shopping Mall,
Riga, Latvia

Primary School,
Zielonki-Parcela, Poland

EQlibrium Offices,
Warsaw, Poland

Redmolen Offices,
Copenhagen, Denmark

FOR A SUSTAINABLE FUTURE

GLASTIK was established in 2007 and through successful operating results has become one of the leading producers of wood finishing materials in the Baltic region. It has accumulated extensive experience in wood finishing projects taking part in many important global projects. Using a selection of environmentally friendly and working methods, we reduce our total carbon footprint. We produce with no added urea formaldehyde. Our flexibility and individual approach to each project, as well as cooperation with experts in various industries promotes the development of environmentally friendly high-quality and cost-effective products. Only high-quality raw materials are used in the production process. The extensive design options of veneer make any project and style solution unique, giving rooms inimitable character. GLASTIK products are CE certified and has fire retardant properties and this is confirmed by the B-s1, d0 and have fire retardant in accordance with European standard EN 13501-1. FSC® labeled panels are also available. We carefully follow the production process and final product quality, because we like what we do. We will be delighted if our products complement your space.

OUR MISSION: TO MAKE YOUR LIFE MORE BEAUTIFUL

GLASTIK PRIMA 0.5/1.0

Trying to merge good acoustics and up-to-date design possibilities, we have created a product that perfectly combines these both properties. As a result, we got GLASTIK PRIMA microperforated panels both for walls and ceilings. This exclusive product has been created as a result of a complicated process and is a new generation product for good acoustics in public spaces and private house interiors. The physical properties make it possible to use microperforated GLASTIK PRIMA collection panels for all types of public spaces both for ceiling planking and wall lining. The three-layer technology provides ultimate sound absorption varying with different perforation sizes, as well as the acoustic properties of the materials. As of 2023, with this NEW 2nd generation technology, we can turn any given panel into a microperforated panel!

There are two types of perforations available: with diameter of 0.5 mm and 1 mm. Open area surface for GLASTIK PRIMA 0.5 is 6%, whereas for the GLASTIK PRIMA 1.0 it is 9%. The panel's good acoustic properties are guaranteed by the extensive surface treatment, perforated core, and acoustic fabric.

The whole set of this technology makes the acoustic properties of this panel unique. Thanks to the fine surface perforation, the holes on the surface are almost invisible even if observed from close distance and the panel looks plain, but with the added benefit of sound absorbent perforated panel. It perfectly serves both as an acoustic element in space and at the same time as a visual component of comfort.

CONSTRUCTION

GLASTIK PRIMA system panels can be laid in two types of constructions.

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

The PIN system is designed for panels with invisible suspension design with panels not wider than 600 mm with a length of up to 2980 mm. It can be used to hang not only rectangular shaped panels, but any kind of shape with straight edges.

MICRO PERFORATED PANEL BENEFITS:

1. Attractiveness and rational use of the product is provided by the diversity of size, design solutions and finishing;

2. By using wall and ceiling systems made mainly of wood, you can obtain perfect room acoustics and a cozy atmosphere.

3. The ceiling panels from GLASTIK PRIMA collection are resistant to deformation and retain their original geometry throughout their lifetime. They are easy to maintain.

Panels are available in different sizes, with a core of MDF or, in case of increased fire safety requirements, with core of Fermacell-Gypsum Fiberboard that provides B-s1, d0 reaction to fire class in accordance with European standard EN 13501-1. For surface finishes, it is possible to use natural or modified wood veneers, high pressure laminates, as well as to be painted according to the RAL or or NCS shades catalogue.

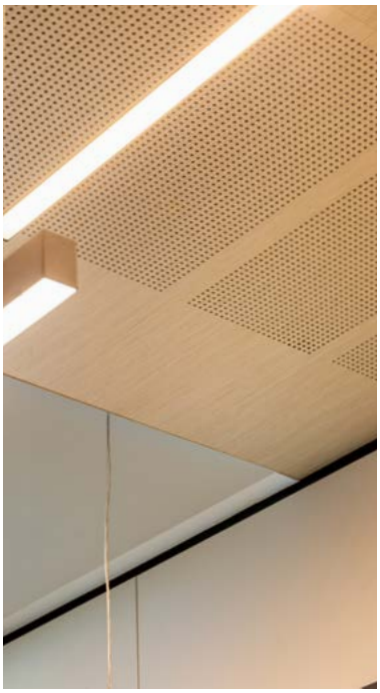
GLASTIK SOLO

People's physical and emotional comfort, ability to work and 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 finishing materials in the room setting.

GLASTIK offers several types of acoustic finishing materials. One of them is the GLASTIK SOLO wall and ceiling panel, whose main function is to provide acoustics and visual comfort in private and public spaces. Acoustic 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-designed ceiling solutions make the room comfortable and pleasant, and help you to concentrate on work and relax in a home atmosphere.

In order to improve acoustic comfort, plates are perforated, while wool and acoustic fleece are also used for sound deadening wool. 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

The GLASTIC SOLO ceiling system can be laid in two types of constructions.

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

The PIN system is designed for panels with invisible suspension design with panels not wider than 600 mm with a length of up to 2980 mm. It can be used to hang not only rectangular shaped panels but any kind of shape with straight edges.

SUSPENDED ACOUSTIC CEILING PANEL BENEFITS:

1. Attractiveness and rational use of the product are 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 cozy atmosphere.

3. The ceiling panels from the GLASTIK 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, plain or with fifteen standard types of perforation or many more custom designed or according to customers' specification, with a core of MDF or, in case of increased fire safety requirements, with a core of Fermacell-Gypsum Fiberboard that provides B-s1, d0 reaction to fire class in accordance with European standard EN 13501-1. For surface finish it is possible to use natural or modified wood veneers, high pressure laminates, as well as paintwork according to the RAL or NCS shades catalogue.

GLASTIK SOLO

GLASTIK SOLO collection wall panels offer a great opportunity to make your room interior interesting, unique and cozy. Wooden texture will decorate monotone planes and create interesting accents. Wood warmth makes the room more comfortable, besides which the GLASTIK SOLO panels are very functional. They protect the wall from mechanical damage 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 corner protection elements can be integrated into the wall panel system, particularly in the outer corners where it is always essential.

CONSTRUCTION

Two different construction types are available for the GLASTIK SOLO wall system.

The PIN system is developed for direct attachment to the wall with a minimum distance from it. This system also allows smoothing out level differences. The panels are bound and cannot be opened. Access panels can be integrated into the wall panel or ceiling panel upon request or supplied separately in order to be installed on site. B-s1, d0 access panels are available on request.

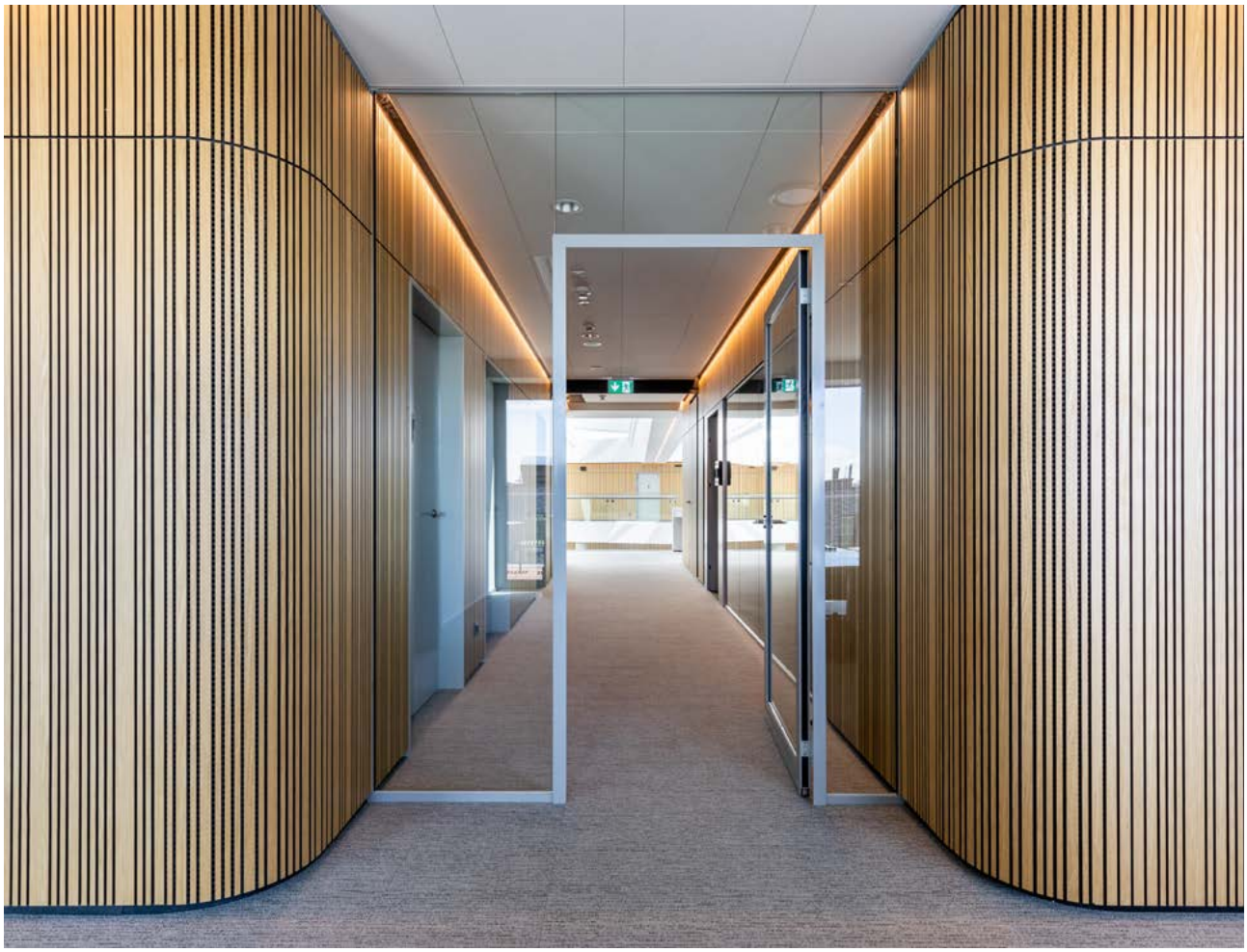
WALL PANEL BENEFITS:

1. Acoustic panels are an invaluable solution for cinemas, hotels, theaters, conference rooms as well as for any room where it is necessary to create a high level of acoustic comfort and absorb 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. Acoustic finishing panels are not just functional products; they also have high-quality design aesthetics. Acoustic finishing panels often become the original room design accent.

3. GLASTIK SOLO wall finishing panels come in variety of sizes – up to 2980 mm in length. There are different types of perforations and a wide range of finishing solutions: veneered, painted, laminated, etc.

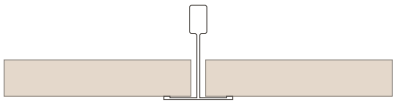
Panels are available in different sizes, plain or with fifteen standard types of perforation or many more custom-designed or according to customers' specification, with core of MDF or, in case of increased fire safety requirements, with core of Fermacell-Gypsum Fiberboard that provides B-s1, d0 reaction to fire class in accordance with a European standard EN 13501-1. For surface finishes, it is possible to use natural or modified wood veneers, high pressure laminates as as well as paintwork according to the RAL or NCS shades catalogue.



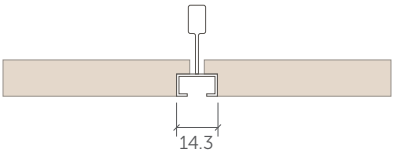
GLASTIK SOLO

CEILING SYSTEMS

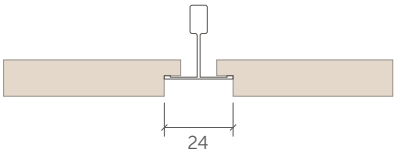
System R
exposed, demountable



System R2
exposed, demountable

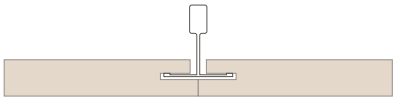


System I
exposed-immersed, demountable

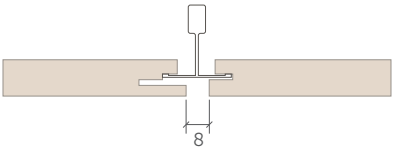


* Optional pre-installed LED strip

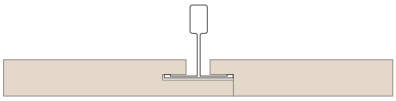
System S2
concealed, non-demountable

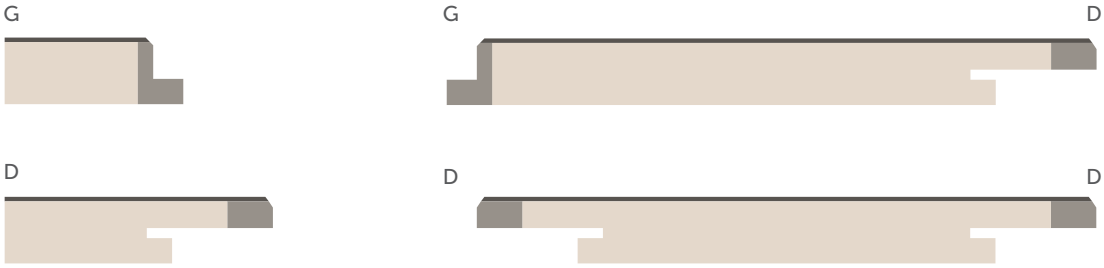


System S3
concealed with shadow gap,
demountable

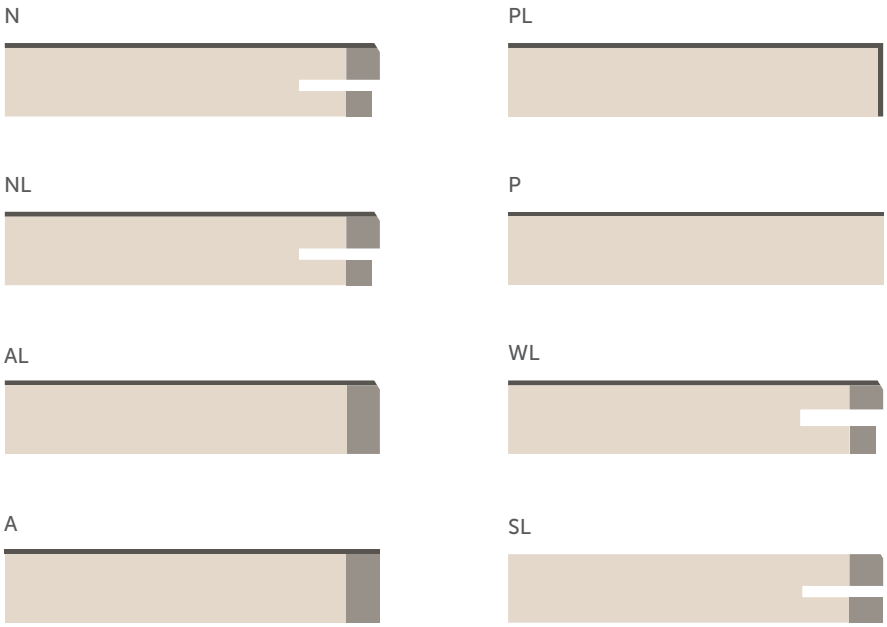


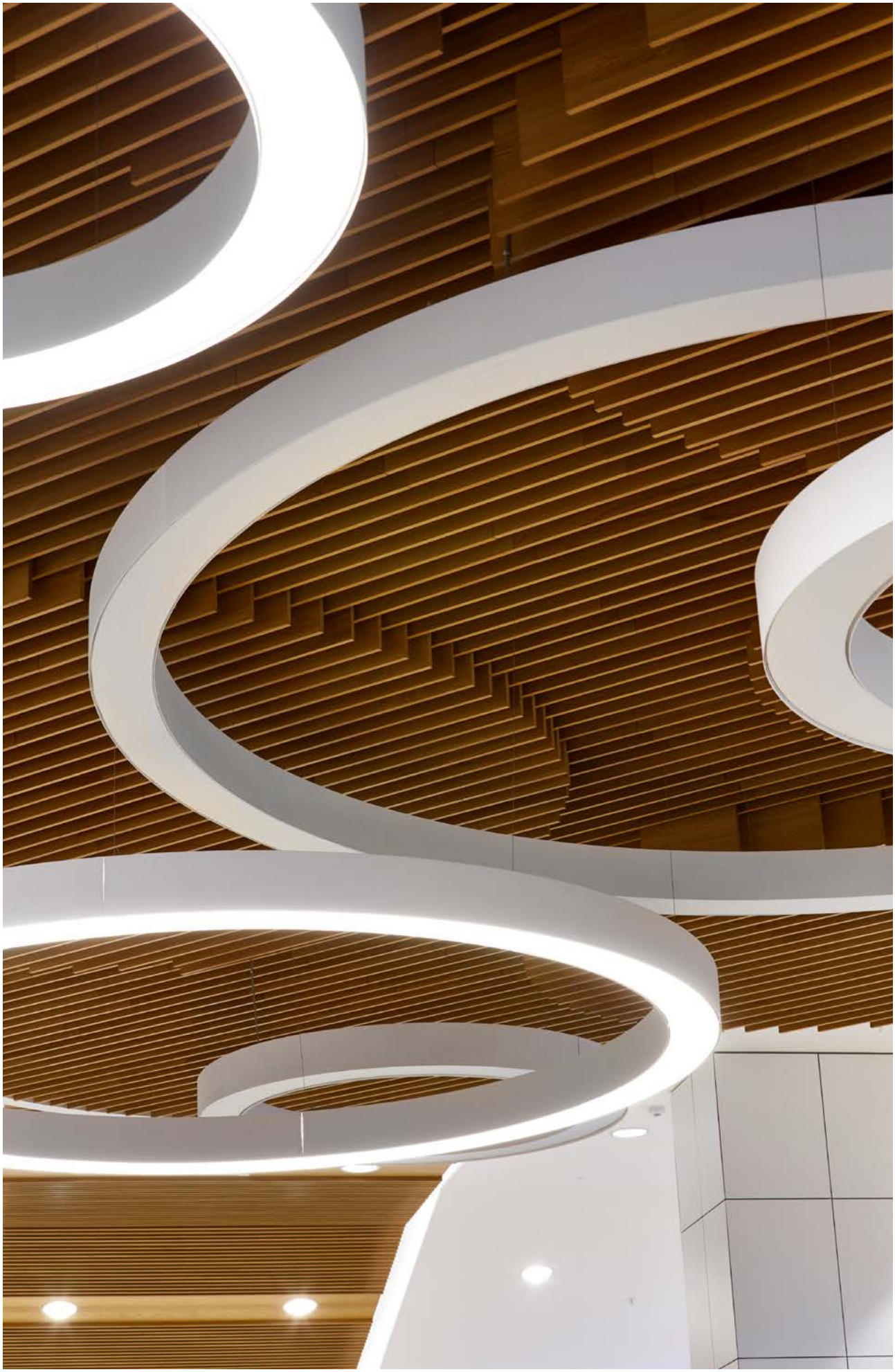
System S
concealed, demountable





WALL SYSTEMS

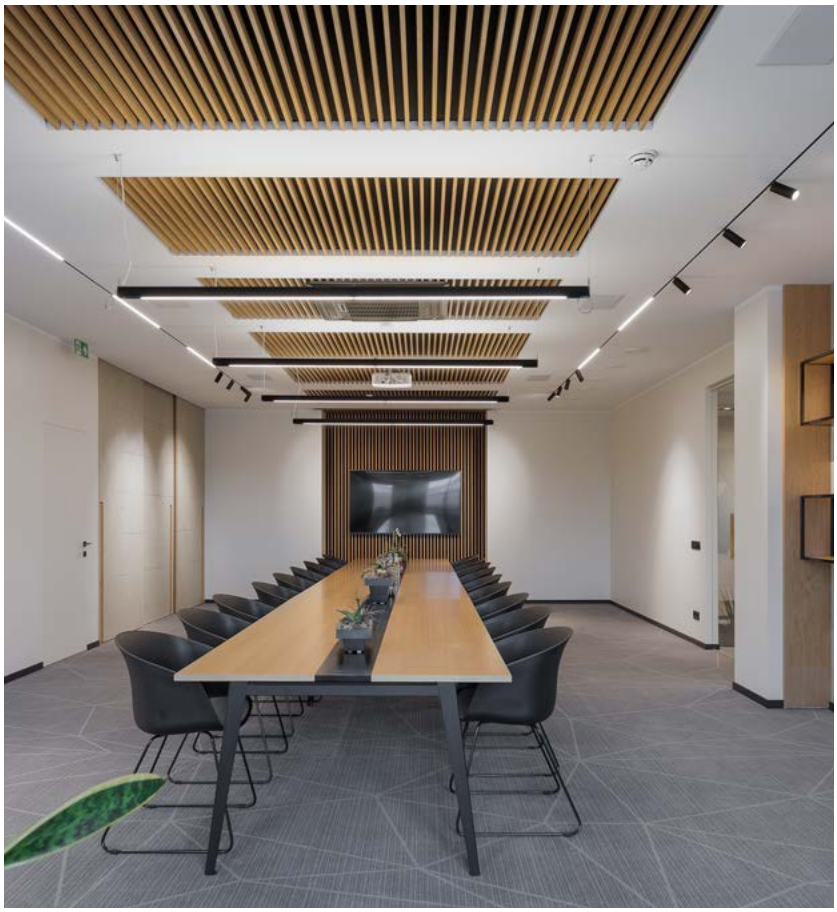




GLASTIK LINEAR

GLASTIK LINEAR slatted grid-type ceiling system 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 must be concealed.

The gaps between the ceiling plates do not create a massive ceiling plane. The open ceiling construction makes it possible to control routine communication work and quickly identify problem points. But the slatted panels may also be used as a decorative accent to reduce the monotony of large planes.

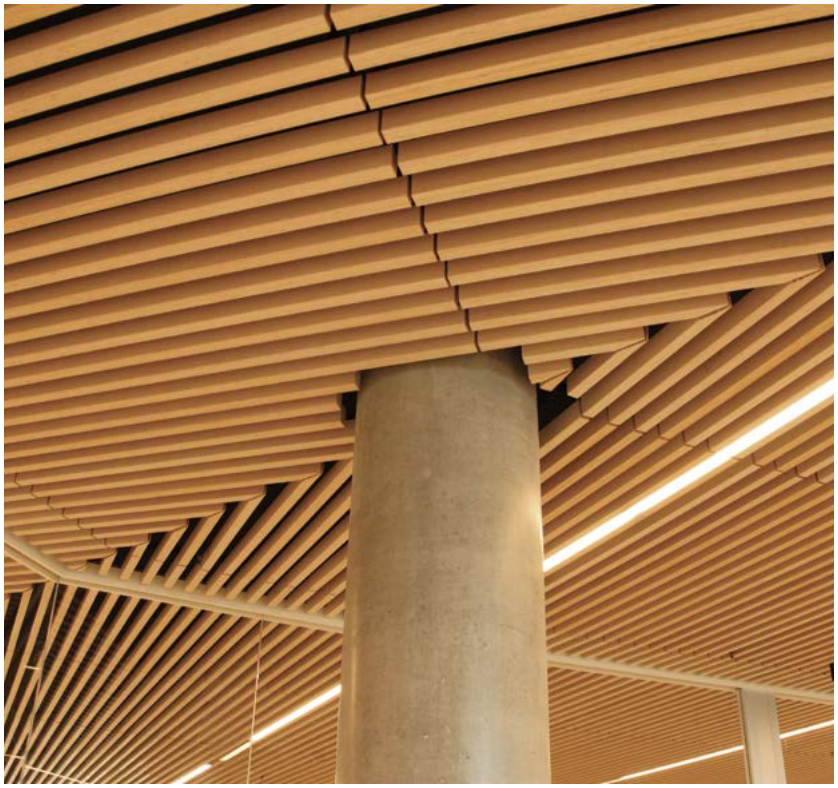


CONSTRUCTION

The GLASTIK LINEAR ceiling system can be used in two types of constructions.

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

The KNAUF D112 suspended ceiling profile system is designed for easy panel installation and opening it in any place, galvanized or painted according to the RAL or NCS catalogue.



CEILING PANEL BENEFITS:

1. GLASTIK LINEAR ceiling system consists of plates forming the ceiling panel. Using this type of open ceiling, room communications can remain behind the ceiling plane.

2. Available in numerous designs, sizes and shapes and finishing.

3. Safe exploitation of the ceiling.

Panels are available in different sizes, with a core of MDF, Plywood or, in case of increased fire safety requirements, with a core of Fire Retardant MDF, Fire Retardant plywood or NORIT-Gypsum Fiberboard that provides B-s1, d0 reaction to fire class in accordance with European standard EN 13501-1. For the surface finish, it is possible to use natural or modified wood veneers, high pressure laminates, as well as paintwork according to the RAL or NCS shades catalogue.

GLASTIK LINEAR

The GLATIK LINEAR slatted grid-type wall is an unconventional wall finishing solution. The open shape of the panel make it possible to operate the heating elements mounted on the wall. Architectural and linear accent is often required in a modern setting. The interaction of linear style and wooden structure create a very interesting harmony. A suitable solution for sports halls, shopping centres, offices, and facades.

CONSTRUCTION

GLASTIK LINEAR collection panels on walls can be mounted using the KNAUF D112 wall profile system and is designed for easy panel installation and opening it in any place, galvanized or painted according to the RAL or NCS catalogue.

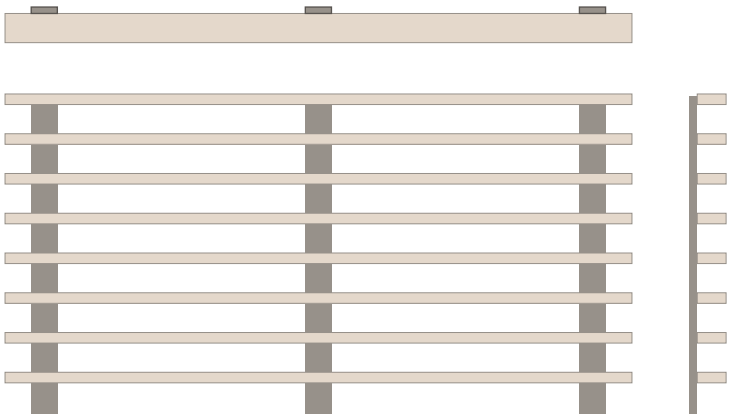
WALL PANEL BENEFITS:

1. Solo Linear wall system consists of plates forming the ceiling panel. By using this type of open ceiling, room communications can remain behind the ceiling plane.
2. Available in numerous designs, sizes and shapes and finishing.
3. Safe exploitation of the ceiling.

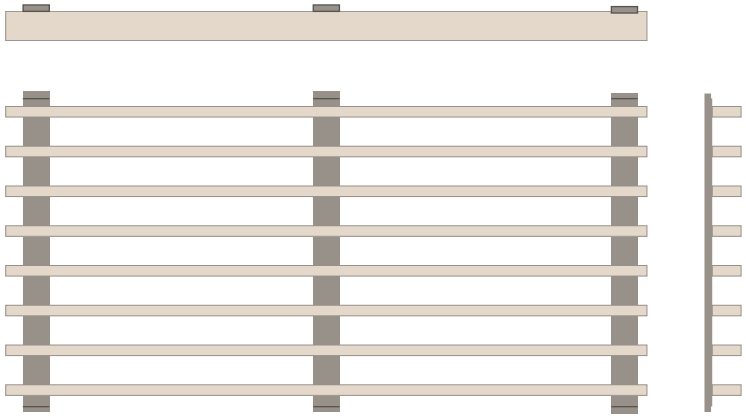
Panels are available in different sizes, with core of MDF, Plywood or, in case of increased fire safety requirements, with a core of Fire Retardant MDF, Fire Retardant plywood or NORIT-Gypsum Fiberboard that provides B-s1, d0 reaction to fire class in accordance with European standard EN 13501-1. For the surface finish, it is possible to use natural or modified wood veneers, high pressure laminates as well as paintwork according to RAL or NCS shades catalogue.

GLASTIK LINEAR

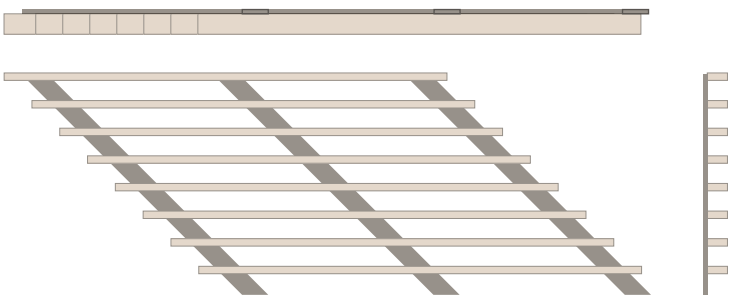
X 552055 type



T 552055 type



X 552055 type special



THE FORTE SOUND DIFFUSERS

FORTE sound diffusers are used to prevent sound distortions in rooms like echoes. This 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 a 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 acoustic interference. They are suitable for acoustic concert halls, theatres, recording studios and home cinemas. GLASTIK produces both MLS and QRD type sound diffusers, as well as special design sound diffusers. For the surface finish, it is possible to use natural or modified wood veneers, high pressure laminates, as well as paintwork according to RAL or NCS shades catalogue.

FORTE sound diffusion panels may have a different shape and layout to the room, therefore acoustic elements of each project are prepared individually and are based on the room acoustic analysis.

THE PIANISSIMO SOUND ABSORBERS

Acoustic comfort with additional design effect. In high traffic areas, where many people communicate with one another by phone and in person, the planned space absorbing acoustics provided by the ceiling, floor and furniture are 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 find it impossible to work productively. The long-term exposure to noise can traumatize human hearing.

In such situations the sound absorption element PIANISSIMO produced 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 in order to 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.

GLASTIK SOLO ACOUSTICS

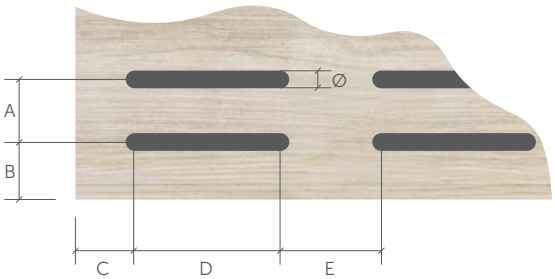
Type	Ø or spacing	Slot	C/C	with 100 mm mineral wool insulation (40 kg/m3), Hz/αp						
				αW	125	250	500	1000	2000	4000
P10 5/20/20/20	5 mm	-	20/20/20 mm	0.55	0.87	0.92	0.91	0.86	0.84	0.37
P10 8/70/30/48	8 mm	-	70/30/48 mm	0.65	0.84	0.88	0.88	0.85	0.71	0.49
P10 8/140/20/60	8 mm	-	140/20/60 mm	0.90	0.94	1.03	1.02	1.00	0.94	0.73
P20 3/16	3 mm	-	16 mm	0.20	0.57	0.57	0.52	0.39	0.19	0.08
P20 7/16	7 mm	-	16 mm	0.70	0.79	0.82	0.82	0.80	0.72	0.55
P20 8/32	8 mm	-	32 mm	0.35	0.44	0.44	0.44	0.41	0.33	0.22
P30 3/16/16	3 mm	-	16/16 mm	0.20	0.57	0.57	0.52	0.39	0.19	0.08
P30 7/32/32	7 mm	-	16/32 mm	0.30	0.40	0.40	0.39	0.36	0.27	0.16
P30 8/32/16	8 mm	-	32/16 mm	0.55	0.65	0.66	0.66	0.63	0.55	0.40
P40 3/16/6x6	3 mm	-	32/16 mm	-	-	-	-	-	-	-
P40 7/16/10x10	7 mm	-	16/32 mm	-	-	-	-	-	-	-
P40 8/32/4x4	8 mm	-	16/16 mm	-	-	-	-	-	-	-
P50 14/2/10/16	10 mm	2 mm	16 mm	0.90	0.14	0.54	0.93	0.95	0.64	0.48
P50 29/3/10/16	10 mm	3 mm	16 mm	-	-	-	-	-	-	-
P50 5/3/10/16	10 mm	3 mm	32 mm	-	-	-	-	-	-	-
P70 12/3	-	3 mm	-	-	-	-	-	-	-	-
P70 27/3	-	3 mm	-	-	-	-	-	-	-	-
P70 46/4	-	4 mm	-	-	-	-	-	-	-	-

GLASTIK PRIMA ACOUSTICS

Type	Ø or spacing	Slot	C/C	with 50 mm mineral wool insulation (50-60 kg/m3), Hz/αp						
				αW	125	250	500	1000	2000	4000
PRIMA 0.5	0.5 mm	-	1.7/3.4 mm	0.80	0.45	0.95	1.00	0.95	0.80	0.60
PRIMA 1.0	1 mm	-	3/3 mm	0.85	0.45	0.95	1.00	1.00	0.90	0.65

PERFORATIONS

P10



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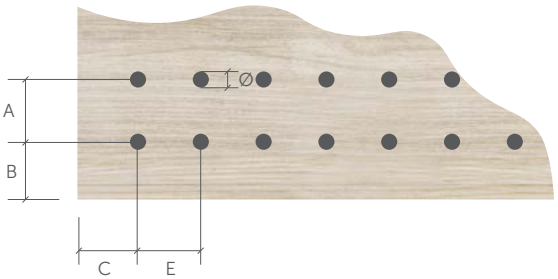
P20



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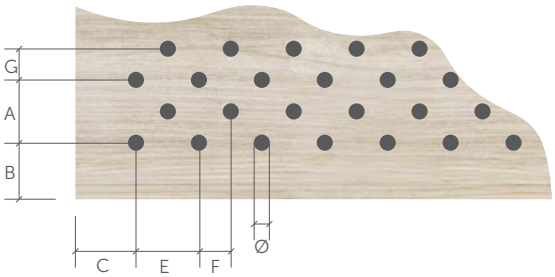
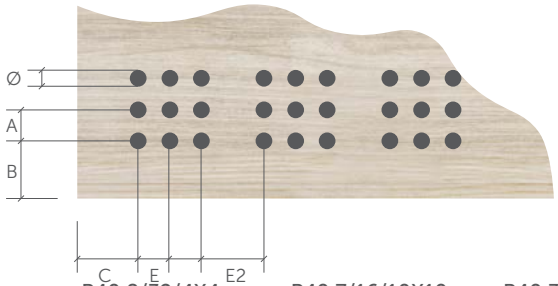
P30



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

P40

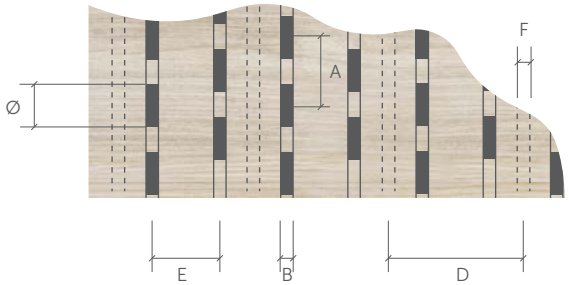


P40 8/32/4X4
Ø=8; A=32; B=39;
C=39; E=32; E2=46

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



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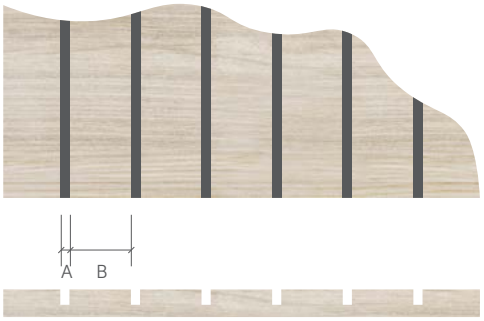
P70

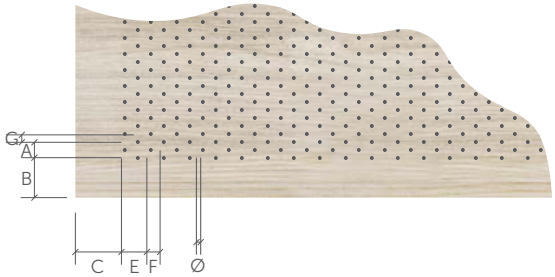


P70 12/3
A=12; B=3

P70 27/3
A=27; B=3

P70 46/4
A=46; B=4

PRIMA 0.5



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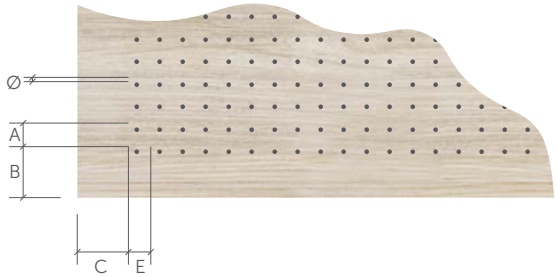
PRIMA 1.0



Ø=2.5; A=3; B=20; C=20; E=2.5

MATERIALS

Core	NORIT-Gypsum Fibreboard			Fermacell-Gypsum Fibreboard			MDF/Fire retardant MDF			Birch/Pine Plywood 12 mm		
Fire rating	B-s1, d0	B-s1, d0	B-s1, d0	B-s1, d0	B-s1, d0	-	B-s1, d0	-	-	-	-	-
Surface	Wood veneer	CPL/HPL	Paint	Wood veneer	CPL/HPL	Paint	Wood veneer	CPL/HPL	Paint	Wood veneer	CPL/HPL	Paint
Thickness, mm	18.5-39	18.4-39.8	18.1-38.1	13	13.1	12.8	12.5-19.5	13.2-19.2	12.1-19.1	12.5-30.5	12.8-30.8	12.1-30.1
Max. size, mm	2980x1200			2980x1200			2980x1200			2980x1200		
Best price performance size, mm	2400x600; 1200x600; 600x600			2400x600; 1200x600; 600x600			2400x600; 1200x600; 600x600			2400x600; 1200x600; 600x600		

GLASTIK offers its customers a choice of different raw materials for their projects. For the core NORIT-Gypsum Fiberboard, Fermacell-Gypsum Fiberboard, Fire retardant MDF, Fire retardant pine or birch plywood. Standard core thickness is 12 mm, other core thicknesses are available upon request.

GLASTIK has the FSC, Chain of custody certification, which verifies our commitment to forest-friendly sourcing. We only use wood from forests whose management is environmentally appropriate, economically viable, and socially beneficial.

PRODUCT CARE

GLASTIK products are manufactured on a base of various core materials and with versatile range of surface finishes, which requires specific environmental conditions for correct installation. Following simple instructions will guarantee a long life and unaltered appearance for years to come.

Conditions for installation:

Relative humidity: 35%-55%

Ambient temperature: 18°C-30°C

Pallets must be opened at least 48 hours prior to installation so the materials can acclimatize to the installation area and ensure that materials are equally exposed to ambient conditions. Even when the conditions above have been met, one must check all materials for possible dilation/contraction of approx. 1.5 mm for meter.

Standard cleaning products can be used for panel maintenance, as follows:

Cleaning is done by dry mop or vacuum. Use synthetic cleaning fluid without ammonia for greasy stains, fruit, wine, and coffee. Blood is removed with cold water. Dry panels after wiping.

ACOUSTIC FLEECE

The highest quality non-woven fire-retardant acoustic fleece with different thickness and color are used to improve the acoustic properties of panels, custom colour or print is available.

FINISHING MATERIALS

GLASTIK offers a truly vast selection of surface finishes. Whether veneered or painted the design possibilities are nearly limitless. More than 100 different types of natural or modified veneers. We have the necessary ability, technology, and tools to supply our panels in any reference of PANTONE, RAL or NCS. You are welcome to make your choice!

FINISHES

NATURAL WOOD VENEER

Beech

Ash

Oak

American walnut

Teak

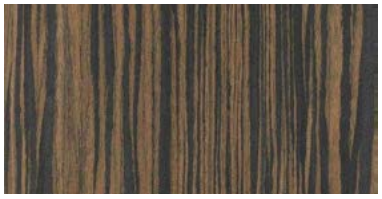
Birch

MODIFIED WOOD VENEER

Mahogany

Canadian walnut

Venge



Makasar 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 mean it can be effectively integrated into the human environment in various forms, thereby improving the quality of a modern space right down to the smallest nuances.

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

Glastik ||| Acoustic and Wood Solutions

"Dižkačas", Ķekava District,
Ķekava, LV-2123, Latvia

Phone: +371 29804296
Email: info@glastik.lv
Web: www.glastik.lv
GPS: 56° 48' 41.09448708",
24° 11' 11.19174576"