



GUSTAFS SCANDINAVIA
2013-2014

 **GUSTAFS** 

SINCE 1913 - 100 YEARS OF SCANDINAVIAN WOOD CULTURE

GUSTAFS SCANDINAVIA

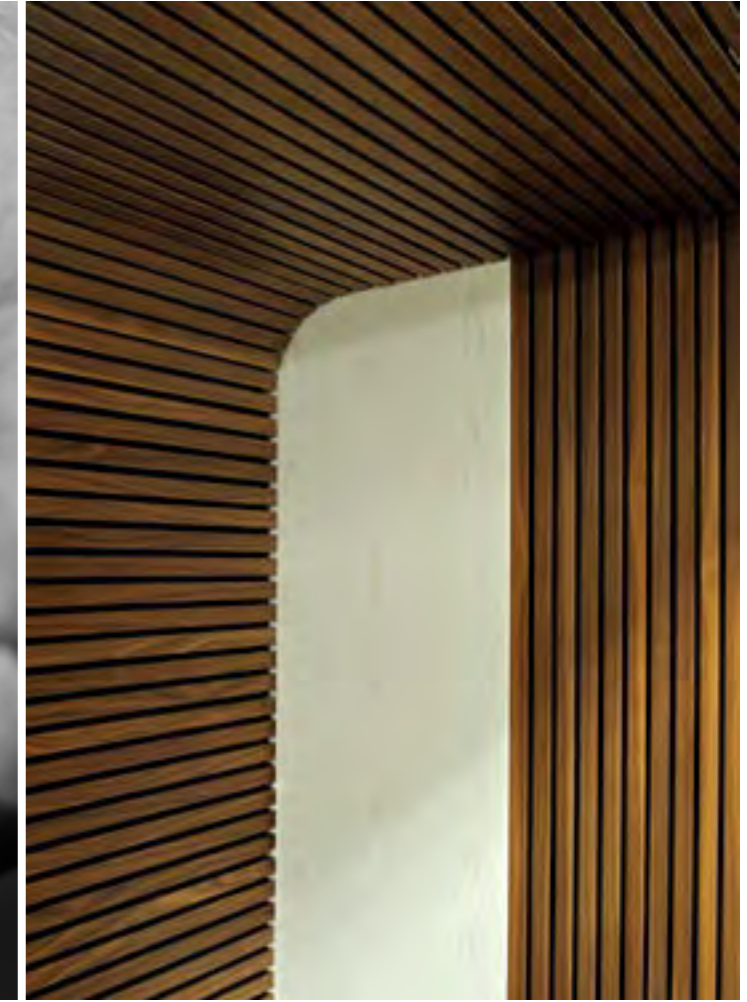
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WELCOME TO GUSTAFS

*We make the experience
in large rooms great*

Text: Agneta Barle
Martin Mallon

Photo: Pawel Klein
Christer Eriksson
Jessica B Nordin



WOOD CULTURE

We have come a long way since our humble beginnings; the company has changed its name and its direction over the years. The understanding of wood however and our ability to tailor carpentry solutions has been with us along the way. As Gustafs celebrates its 100 year jubilee in 2013 it is a company firmly focused on the future with a global perspective. We are a local partner in an international market.

It is our people, with their fine feeling for wood and handicraft tradition that is Gustafs. The factory encapsulates one hundred years of wood culture. Our roots are in carpentry. Sensitivity and an eye for quality can be found among all our co-workers. We manufacture a valuable high quality wooden product. We are subjected daily to new challenges associated to our customers' expectations.

We play our part in an ever changing world. The building process changes, decisions are made faster and we meet the market's high demands for delivery precision. New methods of manufacture develop, new surface finishes become popular while

safety and environmental demands become more prominent. We therefore invest a great deal of our resources in product development.

We work closely with contemporary designers and architects while striving to offer them the greatest possible means to achieve their creative building ambitions. Together with Gustafs as a partner the experience of a large room becomes greater- aesthetics, acoustics, and not least fire safety. Together we create attractive and safe rooms where people thrive.

Samuel Enquist, MD, Gustafs Scandinavia



100 YEARS OF EXPERIENCE

One hundred years ago, in 1913, master builder Mr Andreas Tunander settled in the small village of Mora in Gustafs. Shortly after he purchased "Gustafs Träförädlings AB", a company that had just been set in receivership. Among its assets were a planing mill and sawmill.

Between 1929 and 1990 Gustafs produced furniture and fittings for the Cooperative Society (KF). Another major client was the nation-wide banking group Sparbanken, and thanks to that, just about every living Swede has at one time or another seen, or leaned over one of our products.

The Systembolaget (a government owned chain of liquor stores) have their entrances clad in Gustafs Panel System, and so does the Swedish Parliament





QATAR

On a peninsula in the Persian Gulf Lies the Arabic emirate Qatar. Around its shore and land mass is one of the world's largest natural gas and oil fields. International news agency Al-Jazeera have their base in Doha, the capital city of Qatar, and in 2022 the eyes of the world will be upon Qatar as it hosts the FIFA World Cup finals.

Thanks to the oil and gas income Qatar has risen from one of the world poorest economies to what is today one of the richest. There is a strong and ambitious plan for the country's future development where the focus lies on education and culture. The Qatar National Conference Center in Doha is a magnificent example of these ambitions and here Gustafs find themselves as a major and important supplier of walls and ceiling panels.



ANYTHING IS POSSIBLE

"I want a three dimensional wall that takes the breath from our visitors!" said the Emir of Qatar to one of his wives, "Otherwise the job will go to someone else."

The enormous building project that was Qatar National Convention Center had reached almost half way to completion when Martin Mallon, export sales manager at Gustafs, realized it was time to take the 3D-wall challenge home to Gustafs. The wall was not only a spectacular visual effect it was an essential acoustic element in the room.

Gustafs has knowledge and experience of solving "impossible" challenges. No matter the size of the project or where it is in the world our working method is the same. Nothing is impossible. Where others have failed and laid down their tools, we turn to our carpenters. As a group they represent an enormous data bank. They find a solution to almost everything. Take for example Kent Sandgren, he has been employed at Gustafs for 46 years and is occupied today mainly with product development. "It's still fun discussing new solutions. I visited Qatar 7-8 times, 10 days at a time. It was incredibly hot and the humidity was extremely high. We worked around the clock. Installation by day and production order preparation in the evenings and nights. There was plenty to work to grasp.

Naturally we solved the challenges presented by the 3D wall. We need to keep a cool head even confronted by the deserts impossible heat."

INNOVATIVE, CHALLENGING AND LAVISH
But how had Gustafs found themselves in Qatar? Is there not a local company who can supply similar material and work?

We have to go back to 2008 just prior to the financial crisis. Martin Mallon happened to be in Dubai discussing the potential of the Gulf market. He had received an enquiry from a Turkish building company that had just won the commission to build and design the Qatar National Convention Centre in Doha. The Building was in its early stages and they were searching for a company and partner who could provide them the beautiful, fire safe and acoustic wooden paneling that had been designed for the project.

Martin travelled to Qatar and presented Gustafs products and thereafter waited for a response. He was then contacted by the project's head architect and she confirmed that they were interested in signing a contract with



QATAR NATIONAL CONVENTION CENTRE

Qatar National Convention Centre is an architectural pearl. The centre opened in 2011 and hosted the 2012 Global Climate Conference with more than 15000 delegates from all over the world. As the participants wandered through the enormous glass entry hall the magnificent supporting steel construction symbolizing a Sidra tree acted as a strong reminder of the Qatari desert culture and of a meeting place offering water, shade and welcoming its visitors from far and near.

Gustafs panels contribute to the visitors comfort, safety and total experience of this tremendous building.

The building is designed by Japanese architect Arata Isozaki and RHWL architects.



Gustafs. The project was enormous and the building was to be the largest conference center in the Gulf region. It was to be the centre of a large international university and research campus with a focus on oil and natural gas technology. Innovative, challenging and lavish.

We approached the project in our usual way. Our chief installer, Leif Hellström was first on site and was our link between the builder and Gustaf's factory.

"We are good at keeping things together and coordination is vital in all our projects." In this case it was truer than ever. "It is when we are linked in all the chain of events that our carpenters, installers and production people come together to make it happen."

KNOWLEDGE TRANSFER

Our factory workshop developed the solutions, know-how was transferred to our installers and they in turn instructed the local work force. Talk about knowledge transfer!

During the last 12 months and final phases of the project Nermin Osancevic took over the reins of site project leader. He learned what tough negotiations were and at the same time could share the pride of knowing that Gustaf's installers went the extra mile on many occasions. On one occasion for example, the Emir announced his intended visit with short notice to inspect what was to have been completed phase. We put in all our people to complete the phase for visit with only minutes to spare.

- I'll never forget that time, said Nermin smiling. I noticed that being born in Bosnia helped in a way. In Turkey Nermin is a girl's name so there was always a lot of laughs and easy banter with the Turks.

When I showed them what I was capable of however I gained their respect and friendship.

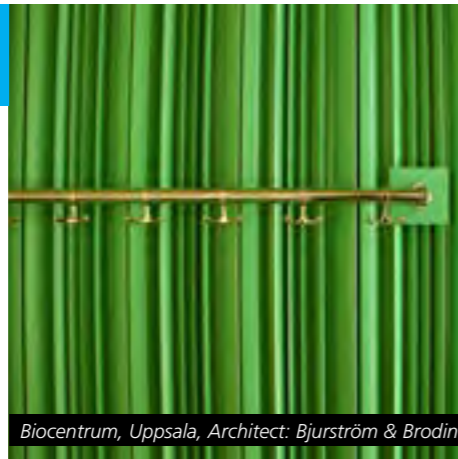
Today we are an approved supplier to the Qatar Petroleum, the financier of most of the projects in Qatar. We have, through our own endeavors, created a name for ourselves in Qatar.



GUSTAFS SCANDINAVIA



Hammaren, Stockholm, Architect: Reflex



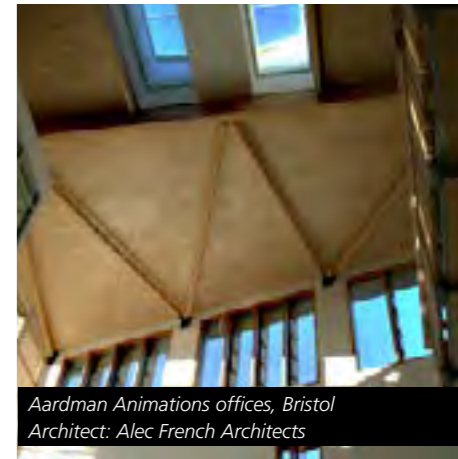
Biocentrum, Uppsala, Architect: Bjurström & Brodin



Swedish Parliament, Stockholm. Architect: White



Teatro dell'Istituto Canossian, Feltre, Italy
Politecne Ingegneria e Architettura, Vicenza



Aardman Animations offices, Bristol
Architect: Alec French Architects



Pfizer head office, Stockholm. Murman Architects



Nacka Forum, Shopping mall Stockholm. Sweden



Oriflames head office in Stockholm.
Thomas Eriksson architects



Grafarvogskirkja, Reykjavik, Iceland.
Architect: A Stofunni Arkitektar



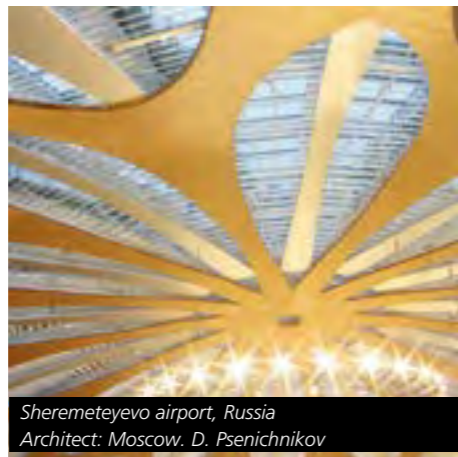
Wroclaw University of Technology Poland



Abbey Centre, Belfast.
WDR & RT Taggart Architects



House of Sweden, Washington
Gert Wingårdh and Tomas Hansen



Sheremeteyev airport, Russia
Architect: Moscow. D. Psenichnikov



Auditorium Maximum, University, Poland
Architect: Krakow, Biuro Architektoniczne WIZJA



GN Store Nord, Denmark



Heimdal Hospital, Århus
Frank Gehry and CUBO Arkitekter



Dundee College. Archial Architects, Glasgow



Gdansk University Hospital
Architekt: Biuro Architektoniczne ARCH-DECO



Lindvalls Café, Norrköping, Sweden



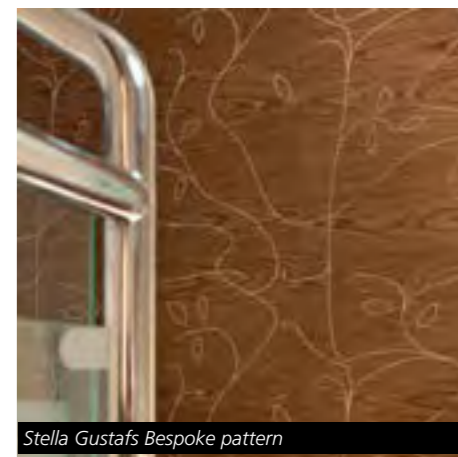
Radisson Blu Plaza Oslo, conference, Norway
Architect: White architects



Thespian, Poland
Architect: Pracownia Projektowa MACKÓW



The academy of music, Poznan, Poland. Architekto-
niczna Pracownia Autorska Jerzego Gurawskiego



Stella Gustafs Bespoke pattern

"It was only natural that Gustafs was commissioned to do the work. We have worked with them for many years and always get very good support for our ideas. Gustafs is the perfect partner for us"

Gert Wingårdh, Architect SAR Wingårdh



Gert Wingårdh, Architect SAR Wingårdh. Photo: Jacob Karström



SPIRA COLOURFUL EXPERIENCES

On 11.11.11 Jönköping, Sweden, received a new landmark. Culture house SPIRA is situated on a newly created peninsula and it is reflected on the waters of Lake Munksjön. The exterior is white and red with large glazed sections. The building was designed by one of Sweden's most prominent designers, Wingårdh Architects. Gustafs panels cover large areas of the interiors and the new culture house has received many words of praise for its acoustics and unique design.

The setting sunlight seems to ignite and warm up the welcoming Gustafs wooden paneling inside the glazed partitions. Somehow the sensation of space and height create an inviting atmosphere of tranquility. The lobby and all four halls are clad in Gustafs panels and Wingårdh's architects chose to work with colour to provide the visitors with a lasting impressive acquaintance.

The Concert hall, which seats 860, is clad in American maple while the Theatre hall is delicately clad in green stained oak. All the surfaces in the lobby and other locations are mounted with white pigmented pine.

When Wingårdh's Architects were in the design stages of the new culture house they contacted Gustafs.

Ove Andersson and his colleague Lasse Lindberg frequently visited Wingårdh's in Gothenburg to discuss solutions and ideas during the early stages of the project development.

"We have a very good relationship with Wingårdh's and we know each other well. We have their respect and they know they can rely on us. It is strength and an advantage to be in the process at an early stage which enables us to offer our competence and experience."

THE APPLE

The green colour in the theatre hall is a chapter on its own. Gert Wingårdh wanted green and it was just a question of finding the right nuance.

"We made 15 or 16 stained colour proposals before we arrived at the final solution. Gert produced an apple which was on his window sill for the day and said "this is the green colour we are looking for!" and that was it."

Wingårdh's design proposal won, Peab were appointed the general contractors and the responsibility of all interior paneling was granted to

Gustafs. We often find ourselves in the role of negotiators when we sit and listen to all the various players; builder, purchasers, architects and external consultants. We enjoy this role. When the building work is in progress there are many situations which require a practical solution. It is not uncommon the drawings differ from reality. We at Gustafs are used to working with a millimeter tolerance when we manufacture and install our product. Regular meetings are therefore imperative to collaborate with other disciplines.

A great deal of the success of the SPIRA project stems from our installers' skills. The Theatre and Concert halls are made up of panels almost devoid of right angles and all installation fittings were carried out on site. Our men can be very proud of their work. SPIRA had become another of their flagships



ARCHITECT, GERT WINGÅRDH - SPIRA

"My intention for SPIRA was that it should embrace the culture of Småland (the southern province of Sweden in which Spira is located). Wood and glass are therefore the main ingredients. I have always liked wooden clad houses; wooden panels contribute to a warm inner climate, both within the building and those who happen to be there. Our first choice was pine tree but to avoid any feeling of a sauna we added a white pigment. The green pigmented panels in the theatre hall are in oak, while the Concert hall is in natural maple.

Jönköping is a lot about John Bauer (a well known Swedish painter and illustrator) and in so much there was a need to make a connection to him. Bauer's essence is depicted by green and therefore it seemed an appropriate choice of colour for the theatre hall. First we tried a moss green tone but it seemed too militaristic. So the choice went to apple green instead. Actors were at first a little concerned that the color would compete with what happens on stage, but as we know, when the curtain goes up, the theatre lights are dimmed!"



Helle Solberg, composer and in-house Head of orchestra at Spira

SPIRA A WORLD CLASS CONCERT HALL

The rumour of how great the acoustics are at the Spira Concert hall in Jönköping is spreading rapidly among musicians around the world. Several have already announced their wish to record their next record here. Composer and in-house Head of orchestra Helle Solberg, is delighted that people are beginning to awaken to all the possibilities at Spira Concert Hall.

When Helle started at her job amidst the building operations at Spira she was involved in several site meetings where helmet and safety shoes were mandatory. Fine technical details involving the builders and installers were discussed. There were also several fruitful meetings with Jan-Inge Gustafsson, one of Sweden's foremost acousticians

The concert hall is becoming a popular venue for recording and several international musicians have already announced their interest to come to us for that purpose.

Recently the Japanese piano trio Fujita visited Jönköping just to get a feel for the concert hall. They were to record in Gothenburg but decide to move the recording instead to Spira.

In August the world famous guitarist Celia Linde will arrive for the same purpose and if everything goes according to plan, violin virtuoso August Dumay, will come to Spira with the same aim. He has cancelled his recordings in Europe and chosen Spira after having conducted a Mozart concert here earlier.

"Directly after a rehearsal he came to me and exclaimed his delight over the world class acoustics "said Helle Solberg.

The audiences too are very pleased with the rooms special acoustics she says reassuringly.

"They are so pleased not only for the acoustics but also for the wooden interior. It is so positive to experience the natural atmosphere in there. The performers and conductors that have come here have all shared the same satisfaction. They quite simply lavish Spira and our concert hall with praise."



GREEN GUSTAFS

Living and working as we do in the forest and pastoral landscape around Gustafs we are reminded daily of our responsibility for our environment both locally and in a global perspective. Our factory therefore, has an active and progressive environmental program.

ENVIRONMENTAL FOOTPRINT

Gustafs panels consist mostly of gypsum and wood totaling 98% natural material. The remaining 2% consist of strictly controlled veneer glues and surface lacquers.

Through studied choices of environmentally friendly material and work methods we reduce our total environmental effect.

Our workplace and products are controlled by environmental laws and statutes which we comply to. Wherever practically and economically possible however, Gustaf's environmental goals strive to exceed these levels.

A LONG LIFE-CYCLE

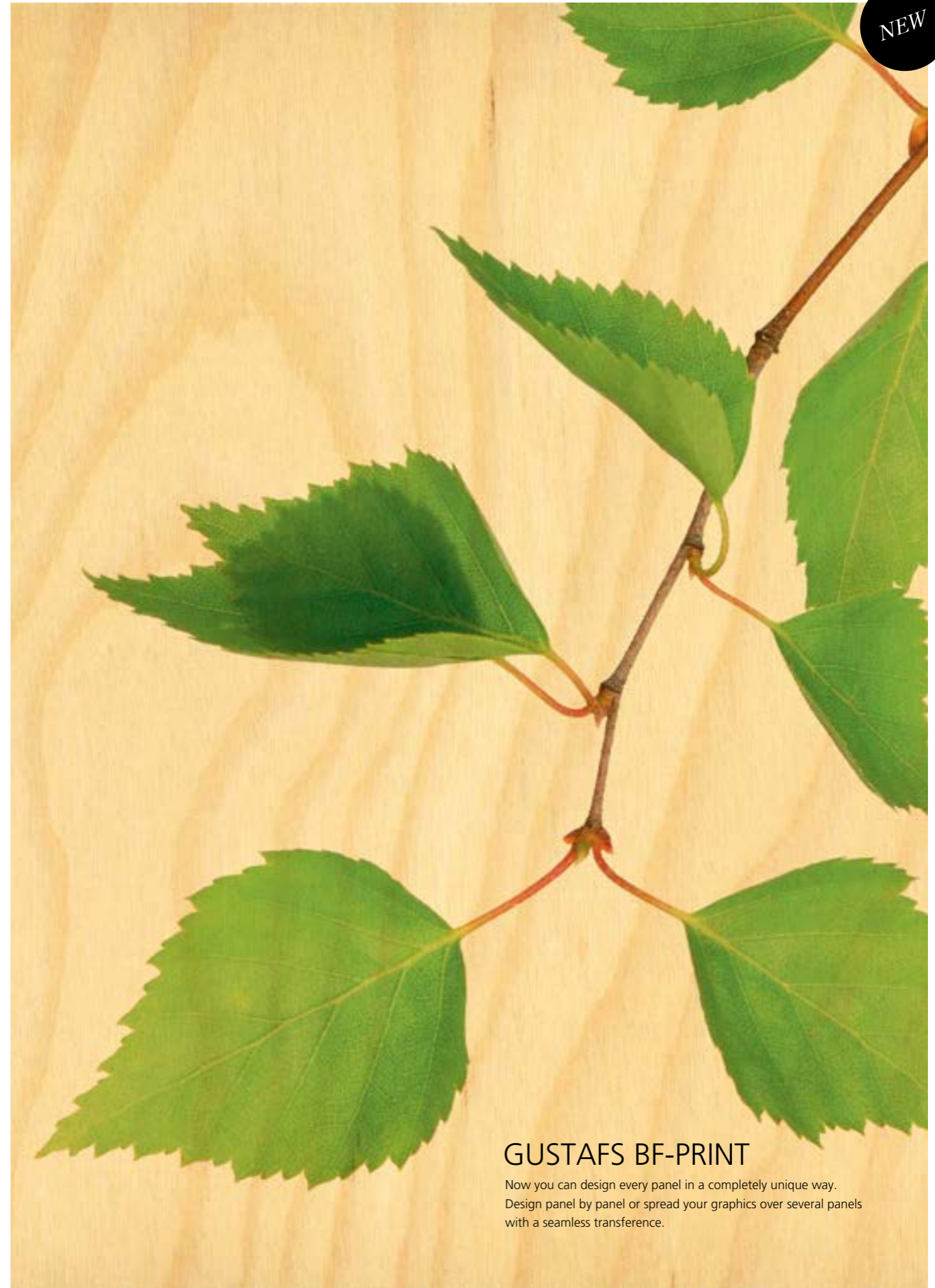
Gustafs products are manufactured with precision and to the highest quality using natural materials. Whether chosen for fire retardant or acoustical purposes our product will perform with unreduced performance throughout their entire lifetime.

RECYCLED CONTENT

All our products based on fibre gypsum board have a recycled content of at least 94%.

WORKING ENVIRONMENT

We at Gustafs strive to maintain a high level of environmental awareness among our fellow workers. We actively promote our program to reduce all work related illness and accidents while generating a good and safe working environment. It is important for us to communicate with both suppliers and customers our environmental awareness and standards.



GUSTAFS BF-PRINT

Now you can design every panel in a completely unique way. Design panel by panel or spread your graphics over several panels with a seamless transference.



WITH GUSTAFS INTO THE FUTURE

Gustafs make beautiful rooms where people thrive. We don't stop there however, we intend to offer even better cutting edge solutions for every type of public space.

Product development is not a one man enterprise. It is rather like working with research, it is often carried out with a team. Together with others, ideas seem to flourish. In the day-to-day development work with our products improvements grow and are implemented. A creative idea from an architect, a puzzling customer question leads us on and into new paths. New functions create an added value.

Gustafs celebrate 100 years in 2013. We have the world's best panel systems with wooden surfaces for ceilings and walls. Our ambition is to continue leading development and step by step improve our product. We look far into the future and monitor our surroundings but always have in focus the solutions we have today to work from and progress. By taking one step at a time we can maintain our leading position.

One of our foremost strengths is that we maintain our production here in Gustafs and not on the other side of the globe. When we produce unique products together with our customer we can often start from a standard solution, which is always a strength and security for everyone involved. We work close together; we discuss projects together and solve problems as they arise. Everyone at Gustafs contributes with their own special competence and experience. With this inhouse expertise we are the formidable and competent partner our customers seek.

Over the coming 100 years it is our goal to contribute even more so that experiences in theaters, concert halls and conference locations and other public spaces around the world are heightened further.

*Ruben Krouwel,
Head of Product development*

NEW MATERIALS

On gustafs.com you can always find our latest news regarding materials and methods. We've collected some inspiring projects that we have done together with our customers.

Do you have an idea?
Contact us as we look at a solution.



The Music School of Jaroslaw
Architect: Agnieszka Wazny

THE MUSIC SCHOOL IN JAROSLAW

Poland is experiencing an unprecedented boom in the construction industry. All sectors within the industry are very expansive, particularly in the metropolitan areas. New theatres, museums, concert halls and other public buildings are among the ventures currently being built. Old buildings are being refurbished as well as new build. Thanks to a close cooperation with its Polish partner; Inside, Poland is today the largest export market for Gustafs.

There are several reasons for the number of projects in Poland. Since its membership in the European Union back in 1994 many projects are part financed that way as well as a high number of foreign direct investments, both in public and private buildings.

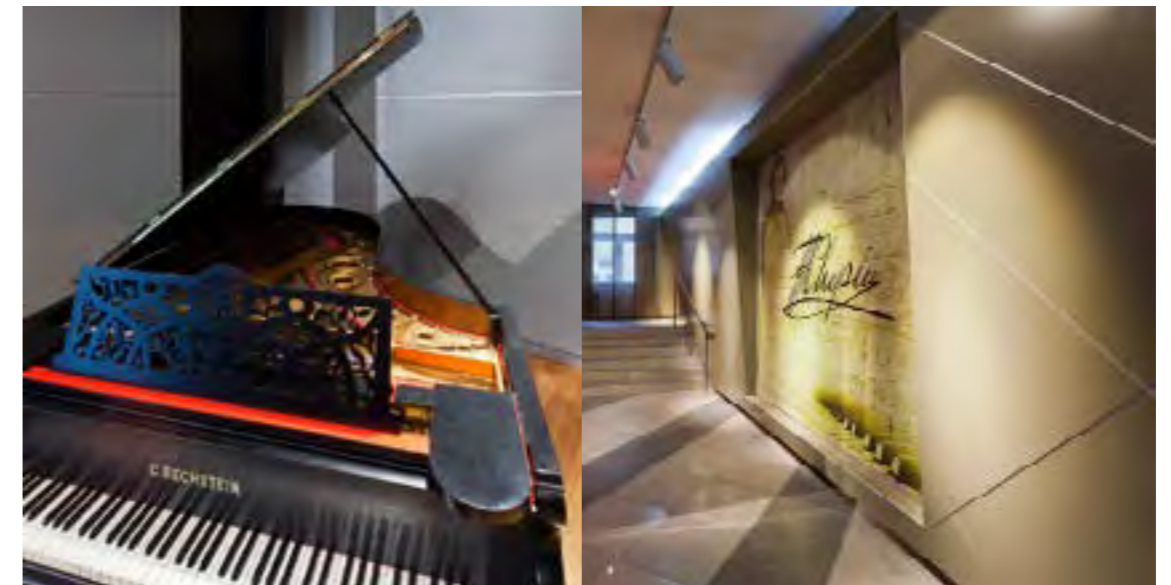
A recently opened project well worth mentioning is the Music School in Jaroslaw. The building itself is old and the fundraising had been going on for years trying to finance a refurbishment of the auditorium which was in disrepair.

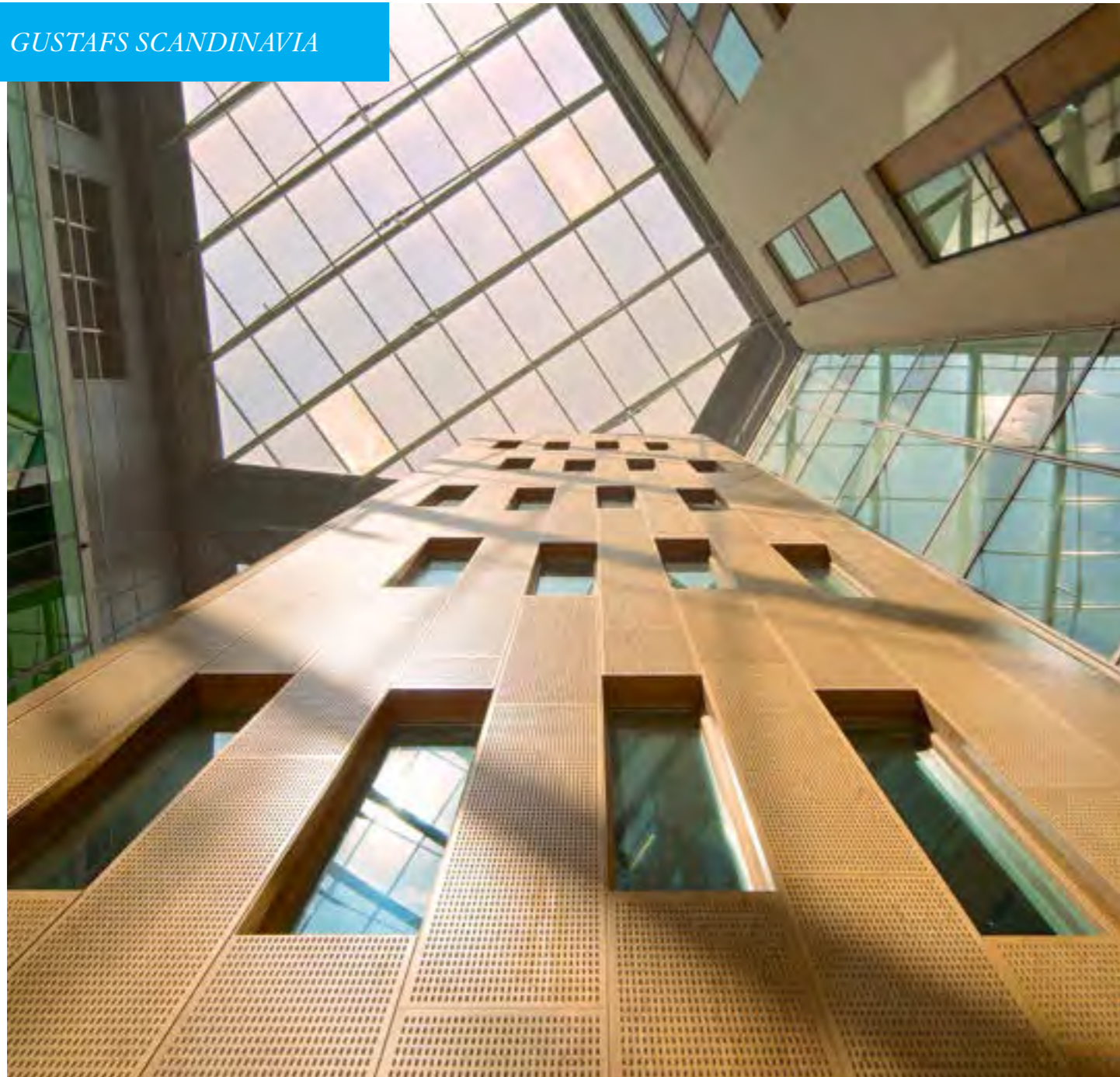
Funds were eventually in place, and in 2011 the doors opened to the renovated school. The result was more than successful, both from an aesthetic as well as an acoustic viewpoint. With walls and ceilings decked in Gustafs Panel System the building is a perfect example of where form, beauty and function meet. Performers and audience alike are very happy with the result.

“Here we have a spectacular reference object that we can refer to when we sell the core values of what is possible using the Gustafs Panel System – both in form and function” – says Wojciech Krokowski, owner and managing director of Inside, Gustafs Polish distributor of more than 17 years. “I like when architects use the panels in a more creative way, giving them new life”, he continues.

The latter became apparent in March 2013 when the student competition arranged by Inside and Gustafs took place. Students were tasked to design an aesthetically appealing, comfortable and inviting lecture hall using Gustafs Panel System in an innovative and creative way.

No less than 33 entries were submitted, and the winner (a team from the University of Krakow) shared the purse of PLN 5000. The idea behind the competition is to get younger architects to discover Gustafs and all its possibilities.





SOUTHMEAD HOSPITAL BRISTOL, UK

Gustafs products can be found in a variety of buildings across the United Kingdom and Ireland; from Thurso to Falmouth, from Tralee to Coleraine. Schools, libraries, museums, sports halls, airports, conference centres, shopping centres, and even the Royal Yacht Britannia has Gustafs panels in the dining hall. Many Oxford and Cambridge University projects are clad in Gustafs panels from Dalecarlia, Sweden.

One recent project is Southmead Hospital in Bristol, one of the largest hospital projects in Europe. Gustafs delivered more than 2500 m² to this project that is being installed as this edition goes to print. BDP is the architect and the North Bristol NHS Trust is the end-user. The hospital opens in May 2014.

Gustafs and LSA Projects Ltd, have cooperated for almost 15 years. Richard Quieros, joint managing director at LSA was assigned the task to launch Gustafs on the UK and Irish markets. Back then the brand was unknown, but today Gustafs is a

household name with the architectural community. LSA Projects keep up to date with what is happening on the market through close contact with architects and designers, and it's not necessarily the large projects they seek out as small projects/applications can transform into great spaces using Gustafs Panel System

It's easy to fall in love with Gustafs, and everyone has a positive relation to wooden interiors. The beauty of the product allows the architects to express their creativity in many ways – it is much more than an ordinary panel. It is a product with a long life,

superior in its properties regarding fire safety, acoustics and design. There are no doubts that Gustafs is a respected brand among the architects in the United Kingdom and indeed throughout the world as Gustafs are involved throughout the project, from first meeting to handover and beyond, showing an active interest down to the smallest detail.

LSA Projects deliver Gustafs products to about 50 projects per year, ranging from small meeting rooms to the largest shopping mall or hospital. No project is too small or large!

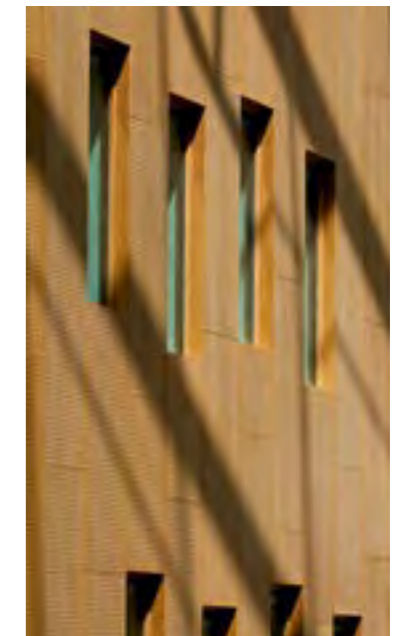
SOUTHMEAD HOSPITAL BRISTOL

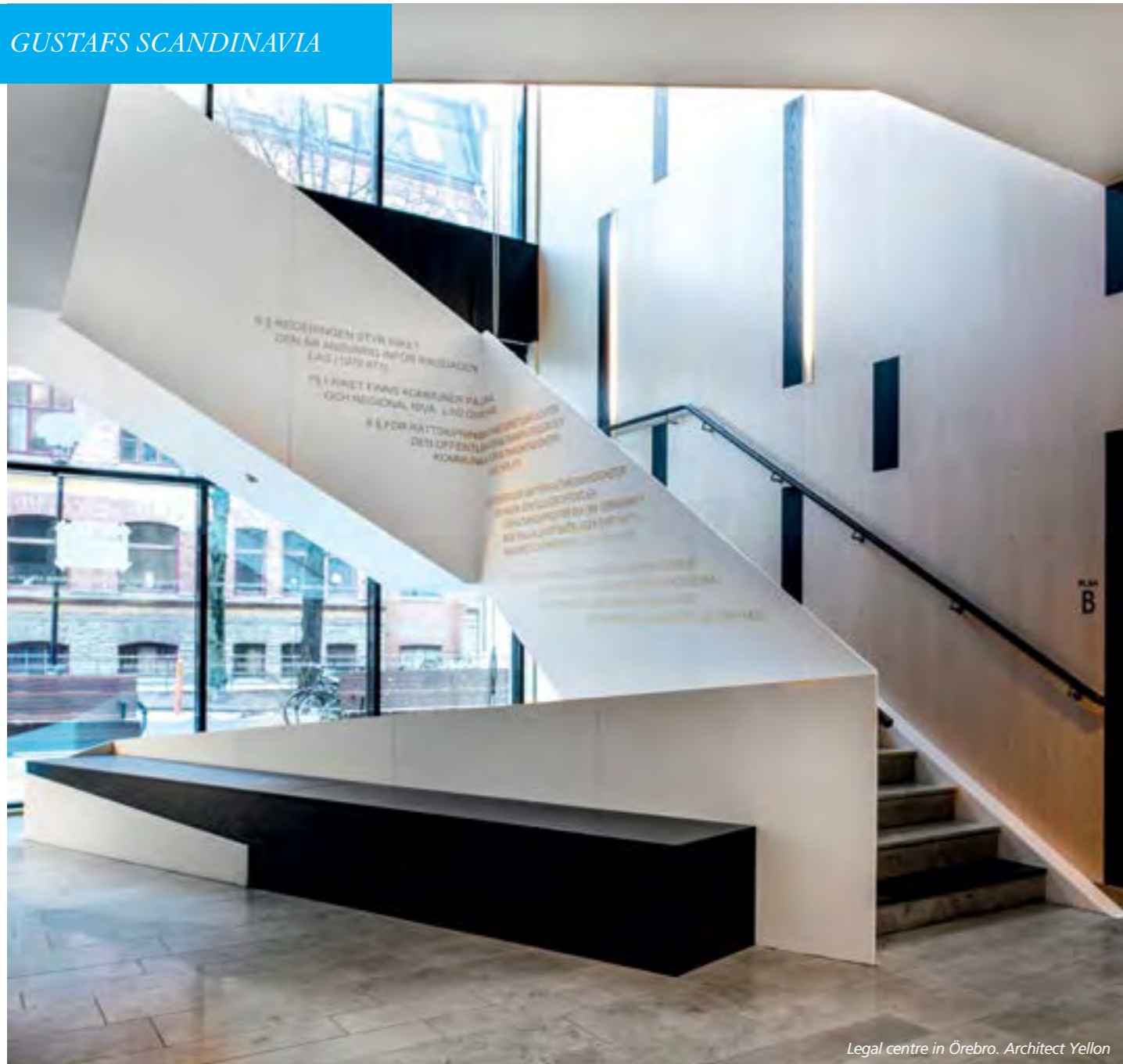
"The stair and lift cores centred in each of the colour themed atria spaces are key wayfinding points on a visitors' journey to the wards and we wanted these elements to have the feeling of bespoke pieces of high quality crafted furniture, bringing the tactility and visual warmth of a timber against the contrasting glazed and coloured elements elsewhere.

The acoustic requirements and characteristics of the atria spaces are complex and the timber shroud surrounding to the stair and lift cores formed an ideal centralised location to act as a primary absorber. The extensive range of Gustafs panel perforation patterns, veneer finishes and jointing options enabled us to develop a precise and calming aesthetic to the high performance absorbing and panelised skin, enhanced by the bespoke curved corner elements.

We are extremely pleased with the final appearance of the Gustafs Panel System which has helped deliver a stunning focal point to each of these primary public spaces within the new hospital"

*Chris Green - Architect Director, BDP
Adam Stevens, Senior Design Manager, Carillion Building*





Legal centre in Örebro. Architect Yellon

ÖREBRO LEGAL CENTER

In April 2013 the new legal centre in Örebro opened its doors to modern and welcoming premises. Transparency, security and environmental responsibility are the basic prerequisites for the new legal centre in Örebro.

Photo: BaraBild

In modern, welcoming premises, these values are experienced by employees and visitors alike – whether party, witness, client or the general public.

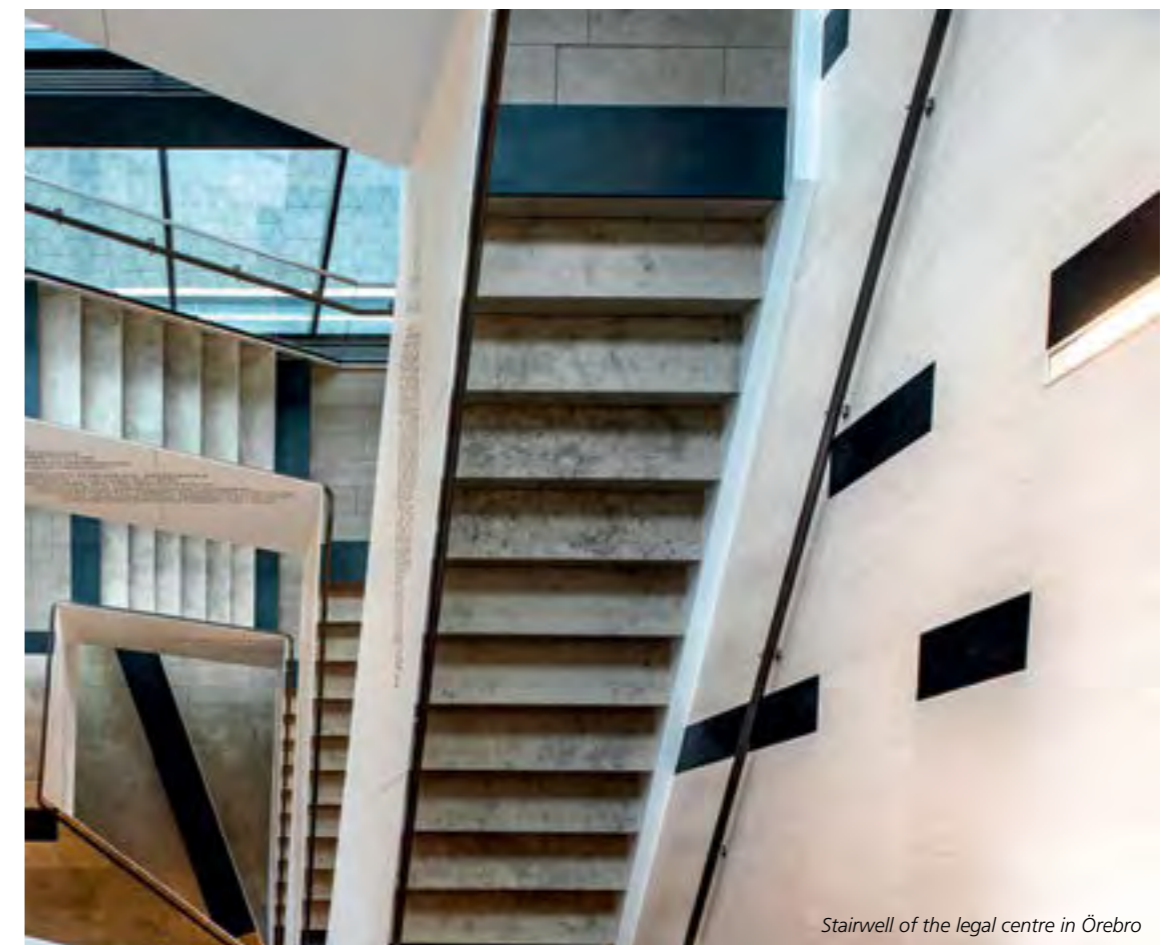
Skanska Sweden was the contractor realizing the design of Yellon Architects. The beautiful interior was achieved with spectacularly nuanced panels in white and black pigmented ash, manufactured and installed by Gustafs. The stairwell connecting the four stories has lights integrated in the walls in a very tasteful way. This was just one of all

the details accomplished by Gustafs' installers, contributing to a very aesthetic end result.

Gustafs panels now grace the court room back walls, waiting halls, stairwell and the archways leading into the court rooms. Some of the permanent furnishings are also manufactured and installed by Gustafs, like the traditional storage units for example. This is yet another example showing Gustafs' strength in delivering a tailor made solution entirely according to the client's wishes.



Storage units from Gustafs



Stairwell of the legal centre in Örebro

KNOWLEDGE IS A GUSTAFS PRODUCT

Wood has been our medium for over 100 years. Along the way we have incorporated our knowledge of carpentry and bespoke fitting with the industrial requirement of today's building process.

We can offer both standard solutions and customized interiors according to the client's wishes. We bring an in-depth knowledge of a room's design, construction and performance so that every detail will make the experience of the room even greater.

WE CAN TAILOR YOUR SOLUTION

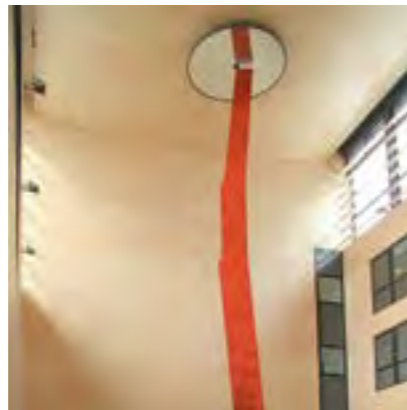
Our strength lies not only in our reputation as carpentry specialists. We undertake unique projects where the word standard is rarely used. Custom or tailor made solutions are more akin to the project descriptions we help realize with our customers. Whether it is a wall cladding or ceiling solution we manufacture Gustafs products with skills solidly rooted in our woodcraft knowledge and experience.

Our customers have access to a wealth of competence and knowledge when they seek our cooperation. Through years of national and international project experience our production workers together with our sales staff form and strengthen the base of our service to architects and designers. Together we create results where others fail or falter.



GUIDANCE

We have extensive experience in construction projects around the world. In our approach we adopt the architect's wishes and building plan. We can help with suggestions on design and assembly, as well as choosing the right material and finish for each project. The key to successful implementation lies in good communication.



FLEXIBILITY

Flexibility in our production allows our customers to create without boundaries – as in life in general, we seek the unique.



ADAPT FOR CUSTOMERS

Gustafs has a long history in the carpentry business. Although many projects these days can run into thousands of square meters we have, thanks to our flexible production, the ability to help you even with small custom-designed details. Small details can make a big difference!

PRODUCT GROUPS



GUSTAFS PANEL SYSTEM®

Gustafs Panel System® comprises of acoustic panels for wall and ceiling coverings, suited for public buildings such as conference rooms, concert halls and auditoria. There is a wide range of options when it comes to surfaces and finishes, so there are many possibilities to vary the look and feel of the finished room. With Gustafs Panel System® we have combined unique design with flexible installation.



GUSTAFS LINEAR SYSTEM

Scandinavian architecture's love of natural wood is now embodied in GLS, a new and innovative rib cladding system for walls and ceilings. Utilizing real wood veneer GLS integrates the Quick-Up installation system to achieve a reliable, labor saving and exclusive interior finish. Naturally, GLS offers a design attribute which incorporates the best fire rating, optimal sound absorption and diffusion properties.



GUSTAFS BESPOKE

We manufacture and supply many different kinds of special interior fittings for our customers. Examples of this type of commissioned joinery include; works of art, hidden doors, framings, reception desks, room dividers and custom designed furnishings. No matter what we manufacture the quality, appearance and function is our focus.

APPLICATIONS:

- Concert Halls
- Hospitals
- Conference Centres
- Education & Schools
- Airports
- Hotels
- Shopping Malls
- Offices and many more.

GALLERY

You can study many of our project references at gustafs.com. Thanks to our cooperation with leading architects we can show some stunning examples of how they applied our product in their projects around the world.



The Museum of the City of Gdynia, Poland
Architect: Warsztat Architektury Pracownia
Autorska, Sopot, Poland

*GUSTAFS
PANEL SYSTEM*®

GUSTAFS PANEL SYSTEM®

The Gustafs Panel System® is comprised of acoustic and fire-retardant panels for wall and ceiling coverings suited for public buildings such as conference rooms, concert halls and auditoria. A wide range of surface finish options offering many possibilities to vary the look and feel of the finished room. With Gustafs Panel System® we have combined exquisite design with flexible installation.

Gustafs Panel System® is a well-documented panel system that draws on our experience from a wide variety of projects in both Europe, Asia and the middle East. Thanks to the development of our Capax profile system we can provide simple and secure installations in tune with today's rapid building processes.

WALLS

A wall clad with wooden panels contributes warmth and a general feeling of welcoming to a locality. This is especially true if the room is to maintain a classic appearance from year to year. Gustafs Panel System® fulfills all these requirements.

CEILINGS

A wooden panel ceiling gives a room an added design dimension and exclusive feeling. Various ceiling structures and colours can be a decorative contribution to most environments. Additionally the room acoustic can be positively affected, not least in a public location or meeting room.

Pfizer office, Murman Architects
Photo, Åke E:son Lindman AB



WHY GUSTAFS PANEL SYSTEM®

DESIGN

Form and function go hand in hand. We collaborate closely with architects and designers and are attentive to what lies in the future. Our design is constantly evolving as we develop different surfaces, such as veneer, laminates, textiles, metals, and colors.

You can combine Gustafs Panel System® with Gustafs Linear System.

FIRE

Our panels and the system as whole, have unique characteristics in fire safety. For our veneered and painted panels, we have achieved classification EuroClass A2-s1,d0.

ACOUSTICS

The acoustic environment in a room is very important; especially when it comes to, for example, lecture halls, airport terminals or concert halls. Some frequencies should be amplified, and others must be attenuated or removed. Gustafs panels effects and regulates the acoustics without sacrificing the beautiful design.

ENVIRONMENT

We operate an active environmental program that is apparent throughout the manufacturing process. Over 98% of Gustafs panels consist of natural materials such as gypsum and wood at least 94% of the content has been recycled.

Our goal is to ensure that the manufacturing has the minimum environmental impact possible, and constantly striving to develop better solutions.

INSTALLATION

Capax is the name of our unique aluminum profile installation system. The Capax system provides a safe and quick installation, well adapted to the rapid construction process of today.

Our Capax installation system, in combination with the very true stable fibre gypsum panels, guarantees a durable and seamless installation, also for large formatted panels and over its full life cycle.

ACOUSTICS

With regard to room acoustics, the use of innately heavy wall cladding is often favourable compared to lighter materials. Gustafs Panel System® utilizing gypsum cellulose fibre board weighing 15 kg/m² is roughly twice as heavy as most wood-based panel materials.



The Swedish Association of Architects' new office in Stockholm has been decorated with Gustafs panels with a bespoke new pattern created by the architect, Sörman Arkitektkontor, to provide the room with an added vitality. Panels in white stained Ash.

DESIGN

Gustafs Panel System® offers many possibilities to create environments with the highest demands for design and appearance. Form and function go hand in hand. We collaborate closely with architects and designers and are attentive to what lies in the future. Our design is constantly evolving as we develop different surfaces, such as veneer, laminates, textiles, metals, and colours.



**FREEDOM
IN CREATION**
We custom make your room, from the size and shape of the panels to your choice of surface and pattern. You can also create your own acoustic perforation pattern or rout out a logo or picture on the surface. We make your vision reality.



National Maritime Museum in Falmouth, Long & Kentish Architects, London

PLAIN PANELS

Plain panels are anything but plain. It is when we are commissioned to create a wooden clad interior that our true expertise is called on. A wall or ceiling solution covered in natural wood is a challenge involving craftsmanship and experience. Our veneering experts can offer many alternative choices of veneering techniques from the finest choice of materials. Depending on the wood species, the veneer cut, the colour tone and ultimately the installation precision, a plain wooden panel becomes one of nature's strongest interior expressions. The passage of time and light exposure will continue to affect the natural maturing process of the material until it achieves a life-long classic appearance. There is nothing plain about a Gustafs panel.



The Oswiecim Public Library. Susul & Strama Architects

ACOUSTIC PANELS

Gustafs Panel System® can help create an aesthetically satisfying and acoustically adjusted environment. Sound absorption, for example, is attained by using perforated or slotted panels in combination with mineral wool and air space to achieve the correct acoustic profile.

Our various acoustic standard patterns are tested and documented to achieve known sound absorption coefficients for both walls and ceilings. We also give the possibility to create your own perforation pattern. Contact us and we will tell you more.

CURVED PANELS

Gustafs has a long history within the joinery industry. We know what it takes to make unique items. Even though many of today's projects involve thousands of square meters we are still able, thanks to our flexible production, to assist you even with small specially formed parts. Small parts that make a big difference!

To curve parts of a wall or a ceiling is a beautiful design possibility that we offer. We can form press panels from a radius of 0,5 – 10 m. Some panels can be curved during installation.

[Visit gustafs.com](http://gustafs.com) for more information



Oriflame office, Thomas Eriksson Architects

PRINTED PANELS

Gustafs can now offer a brand new design opportunity with Gustafs BF-Print. Now you can design every panel in a completely unique way. Design panel by panel or spread your graphics over several panels with a seamless transference.

You can get your print directly on the veneer or on laminate or craft paper.

[Visit gustafs.com](http://gustafs.com) for more information.



NEW

SURFACES

Wood, painted, laminated or printed, Gustafs Panel System® offers many possibilities to create environments with the highest demands for design and appearance. Form and function go hand in hand. We collaborate closely with architects and designers and are attentive to what lies in the future. Our design is constantly evolving as we develop different surfaces, such as veneer, laminates, textiles, metals, and colors. There is a wide range of options when it comes to surfaces and finishes, so there are many possibilities to vary the look and feel of the finished room.



VENEER

Wood has a natural variation in structure and colour tone which ages in harmony with nature. The fact that wood is a natural material is an intrinsic aspect of its charm and attraction. On the following pages we present our standard veneer selection. It goes without saying that we do our utmost to fulfill requests for other veneers. We offer two choices of genuine veneer, NATURE and GEMINI.

LACQUER & GLOSS

Prior to delivery the panels are given a resilient and attractive surface finish. The finish is determined by the customer from a choice of lacquered, oiled, stained, pigmented or painted surface. A clear lacquered finish is by far the most common maintenance-free and durable finish for wooden surfaces. Utilizing a multi-stage UV-lacquering process, our surface finish achieves these demands while aspiring to maintain technical aspects such as our fire retardation and environmental goals. Our lacquer is a multi-layer UV-cured process which is available in a range of gloss finishes. The lowest gloss gives the impression of a subdued oiled surface whereas the highest reaches almost a mirror-like surface.

STAINED & PIGMENTED

You can also apply pigmented lacquers or stain the veneer to achieve different effects on your wall or ceiling. Different veneers react different to certain treatments so contact us to guarantee that the final result matches your vision.

A pigment can be used to change the colour tone of the veneer on Gustafs Panels and we have developed a three stage scale of white pigment for veneers.



Ruskin College, Cambridge University, UK
Penoyre & Prasad Architects, London



SOLID PAINT

Some surfaces are very highly demanding. Among the many advantages of a Gustafs panel is its plane and even surface. This enables us to create a painted surface finish which otherwise is extremely difficult to achieve on site. Utilizing our production technology we can produce painted surfaces in a multitude of colors in accordance with for example NCS or RAL codes up to a gloss rate up to 50.

ART & PRINT

With Gustafs Art there are many options to decorate the panel surface route out your logo or create a printed pattern over the entire surface come to us with your idea.

BF-PRINT Gustafs can now offer new design opportunities with Gustafs BF-Print. Now you can design every panel in a completely unique way. Design panel by panel or spread your graphics over several panels with a seamless transference. You can have your print directly on the veneer, laminate or craft paper.

PATTERNS On our plain panels we can rout out text or patterns. This gives you the opportunity to get for example a logo or maybe directions routed out directly on the panel surface.

LAMINATE

Many interiors utilize the beauty, simplicity and resistance to impact of laminated surfaces. You choose what laminate* we should use. With laminates you can design beautiful surfaces that are durable, impact resistant and easy to clean. Of course we can supply these laminated panels with acoustic perforations and a fire classification that meets the high standards for public rooms.

We also offer a standard collection of metal laminates including, among others, aluminium, brushed steel and bronze, but you can also choose other laminates. Contact us for more information regarding laminates.

* HPL, High Pressure Laminate

VENEER NATURE

NATURE VENEER As wood ages its colour tone matures typically for the species. Variations in colour tone and structure is a part of woods appeal. This too, is the case with veneer. Nature veneer is available in a wide variety of species and matures in colour tone with time and exposure to light. Most nature veneers can be purchased with FSC certification. *Large areas permit a certain amount of variation where as smaller areas demand a more exacting match.*

NATURE GUSTAFS STANDARD VENEER COLLECTION



Oak



Birch



Rotary cut Birch



Maple



Ash



Beech



Pear



Mahogany



Oregon Pine



Elm



Cherry



Teak



Walnut

GEMINI

GEMINI - The major advantage with Gemini® veneers is their colour and pattern consistency irrespective of quantity. The veneers are less photosensitive and do not mature in the same way as natural veneers. The colour tone is therefore more stable over time. The collection consists of a number of chosen patterns which are inspired by their natural counterparts. The Gemini® collection even offers a selection of exotic wooden species patterns which have no negative environmental effect and come with FSC certification. *Gemini® panels can be produced in lengths up to 2400mm.*

GEMINI GUSTAFS STANDARD VENEER COLLECTION



Gemini - Pale Maple



Gemini - American Maple



Gemini - Wavy Maple



Gemini - Birds Eye Maple



Gemini - Birch



Gemini - Ash



Gemini - Oak



Gemini - Beech



Gemini - Pear



Gemini - Cherry



Gemini - Teak



Gemini - Mahogany



Gemini - Walnut



Gemini - Wenge

PAINT, PRINT & SOLID

There are many different surface treatments to choose from to achieve your desired result. Utilizing our unique production technology we can produce painted surfaces in a multitude of colours in accordance with for example NCS or RAL codes.

EXAMPLES OF SURFACE FINISHES You can find all our surface possibilities on www.gustafs.com

MODIFIED VENEER



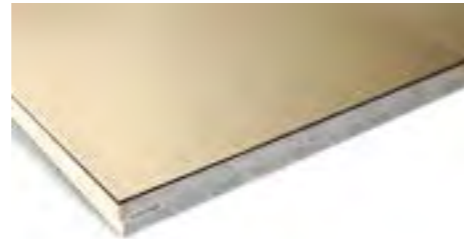
Stained ash veneer

BF-PRINT



BF-Print on maple veneer

SOLID SURFACES



Laminate bronze



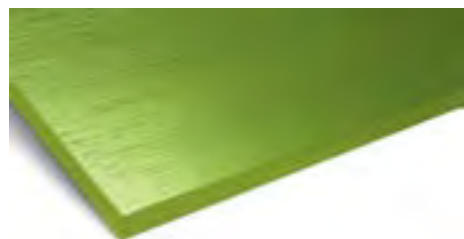
Pigmented lacquer on ash veneer



BF-Print on Paper substrate, UV Print



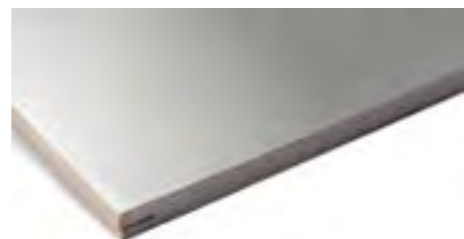
Laminate Aluminium



Solid stained ash veneer



BF-Print on HPL-substrate, UV Print

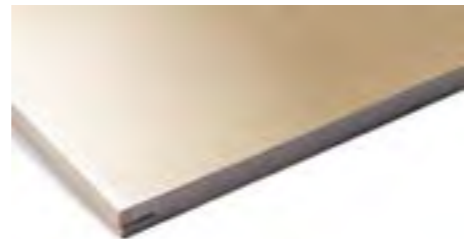


Paint Gustafs Silver Metallic



Nature Ash
no pigment

Nature ash veneer with white pigmented lacquer



Paint Gustafs Champagne Metallic



PIGMENTED

A pigment can be used to change the colour tone of the veneer. We have developed a three stage scale of pigment for veneers. Since various species react differently to the process we recommend a consultation before proceeding with surface finishing.

ACOUSTICS

How we experience sound in a room is as important as how we perceive the designers choice of materials and furnishing. Our customers and the challenges they confront are what we as a company thrive on when developing our solutions and innovations. Designers and architects combine our products to create unique and exciting design solutions. Together we make large rooms greater.

Gustafs Panel System is used to create an aesthetically satisfying and acoustically adjusted environment in a wide range of rooms. We offer both standard and bespoke acoustic solutions to our customers.



University of Technology, Gdansk, Poland
Architect: Andrzej Prusiewicz



Library of Gdansk University,
Architect: ArchiCo-project sp. z o.o.



Gustafs Acoustic
Design: Aperto Architects

REFLECTION

Gustafs Panel System, with plain panels, is often used to reflect sound. The hard surfaces of a room is a decisive factor in the room's total acoustic profile. For amplification of sound, stable and non-vibrating reflective surface are essential in a room to help carry the sound waves to the audience. To achieve a balanced acoustic profile in a room however other acoustic devices must be introduced.

Designers are recommended to consult with an acoustician in order to achieve the required results with our panels.

ABSORPTION

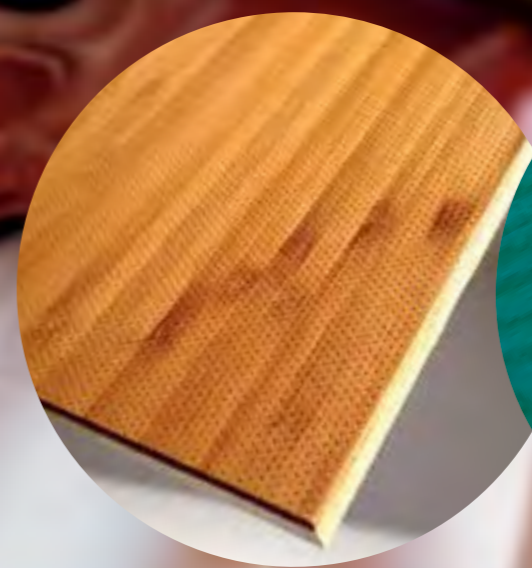
Sound absorption, is attained by using perforated or slotted panels in combination with mineral wool and air space. Gustafs Panel System is used as absorbers with the purpose to reduce the total energy of the sound source. Sound absorption is achieved by creating an amount of open area on a panel surface. The absorbing surface takes away unwanted sound and consequently contributes to a lesser intensity of sound.

The challenge is to find a balance between the absorbing area and the reflective areas of a room to achieve a comfortable and purposeful acoustic depending on its use.

DIFFUSION

A diffuser is an element which purposely reflects and spreads a sound source. Placed properly, the diffuser will improve the overall sound quality in the room while avoiding added sound effects such as echo or reverberation.

An optimal diffuser must be designed based on mathematical principles, and avoid regular patterns in the surface structure. Diffusers are used to create "depth" in the sound and improve the sound experience of the room, the room feels bigger than it really is.



NEW

BF-NANO

INVISIBLE NANO-PERFORATION WITH UNIQUE ACOUSTIC QUALITIES
BF-Nano is our new range with the same unique qualities as our other GPS products. On top the Nano solutions offer exclusive acoustic characters and an "invisible" perforation.

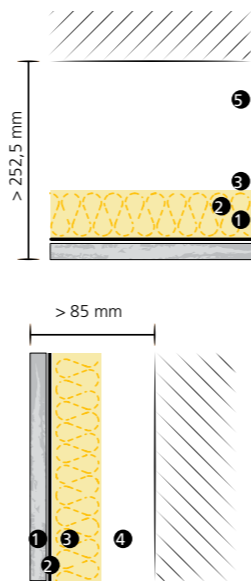
Contact us for more information!

ACOUSTIC PANELS

Our various acoustic standard patterns are tested and documented to achieve known sound absorption coefficients for both walls and ceilings. On www.gustafs.com you can find more information and details on acoustic performance. Certain sounds need to be directionally steered and others reduced or eliminated. We therefore recommend designers to consult with a professional acoustician in order to achieve the required results.

GUSTAFS STANDARD ACOUSTIC PATTERNS

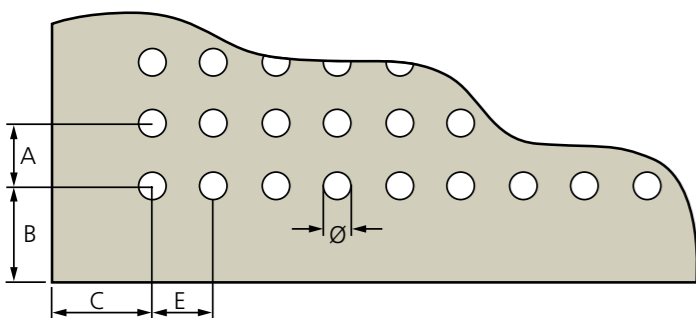
| ACOUSTICS | Typ | Ø | Slott (D) | cc (A/E) | Open area | αw & Class | 45 mm wool + 30 mm gap | | | | 45 mm wool + 200 mm gap | | | |
|-----------|-------|--------|-----------|----------|-----------|------------|------------------------|------|------|------|-------------------------|------|------|------|
| | | | | | | | 200 Hz | 400 | 1000 | 1500 | 200 Hz | 400 | 1000 | 1500 |
| | | | | | | | 0,09 | 0,07 | 0,07 | 0,08 | 0,18 | 0,09 | 0,08 | 0,09 |
| Plain | - | - | - | - | - | - | 0,09 | 0,07 | 0,07 | 0,08 | 0,18 | 0,09 | 0,08 | 0,09 |
| PH5 | 5 mm | - | 20/20 | 5% | 0,35-D | 0,65 | 0,60 | 0,44 | 0,30 | 0,70 | 0,73 | 0,42 | 0,38 | |
| PH8 | 8 mm | - | 20/20 | 12% | 0,55-D | 0,59 | 0,98 | 0,70 | 0,52 | 0,86 | 0,92 | 0,78 | 0,68 | |
| PH10 | 10 mm | - | 20/20 | 18% | 0,75-C | 0,60 | 1,10 | 0,90 | 0,74 | 0,98 | 0,94 | 0,88 | 0,84 | |
| PG5 | 5 mm | - | 20/20 | 3% | 0,3-E/D | 0,48 | 0,49 | 0,32 | 0,24 | 0,50 | 0,44 | 0,35 | 0,28 | |
| PG8 | 8 mm | - | 20/20 | 8% | 0,50-D | 0,67 | 0,94 | 0,60 | 0,45 | 0,83 | 0,73 | 0,64 | 0,51 | |
| PS2 | 3 mm | - | 20/20 | 2% | 0,25-E | 0,70 | 0,91 | 0,31 | 0,18 | 0,70 | 0,67 | 0,37 | 0,22 | |
| PD8 | 8 mm | - | 10/10 | 24% | 0,85-B | 0,56 | 1,12 | 0,94 | 0,81 | 0,95 | 1,04 | 0,93 | 0,89 | |
| SM5 | 5 mm | 20 mm | 20/20 | 15% | 0,65-C | 0,59 | 1,03 | 0,78 | 0,67 | 0,78 | 0,87 | 0,78 | 0,68 | |
| SM8 | 8 mm | 20 mm | 20/20 | 26% | 0,85-B | 0,59 | 1,04 | 0,93 | 0,84 | 0,70 | 0,96 | 0,87 | 0,84 | |
| SH5 | 5 mm | 40 mm | 20/30 | 15% | 0,50-C | 0,60 | 1,07 | 0,81 | 0,62 | 0,92 | 0,93 | 0,81 | 0,71 | |
| SH8 | 8 mm | 40 mm | 20/30 | 26% | 0,75-C | 0,56 | 1,10 | 0,91 | 0,77 | 0,97 | 1,03 | 0,91 | 0,86 | |
| SG5 | 5 mm | 55 mm | 20/30 | 12% | 0,55-D | 0,66 | 1,00 | 0,72 | 0,53 | 0,93 | 0,83 | 0,72 | 0,60 | |
| SG8 | 8 mm | 55 mm | 20/30 | 20% | 0,65-C | 0,63 | 1,08 | 0,84 | 0,65 | 0,99 | 0,95 | 0,84 | 0,73 | |
| SX8 | 8 mm | 140 mm | 20/60 | 29% | 0,85-B | 0,55 | 1,00 | 0,89 | 0,80 | 0,69 | 0,95 | 0,89 | 0,80 | |
| RS8 | 8 mm | 40 mm | 40/30 | 13% | 0,60-C | 0,57 | 0,87 | 0,73 | 0,60 | 0,61 | 0,78 | 0,69 | 0,60 | |
| QS | 20 mm | 190 mm | 40/140 | 28% | 0,75-C | 0,58 | 0,85 | 0,45 | 0,46 | 0,72 | 0,75 | 0,83 | 0,78 | |
| RP8-C10 | 8 mm | - | 10/40 | 2,8% | 0,75-C | 0,70 | 0,83 | 0,59 | 0,60 | 0,73 | 0,77 | 0,82 | 0,75 | |
| RP8-C20 | 8 mm | - | 20/40 | 1,7% | 0,55-D | 0,58 | 0,63 | 0,43 | 0,41 | 0,58 | 0,58 | 0,55 | 0,48 | |



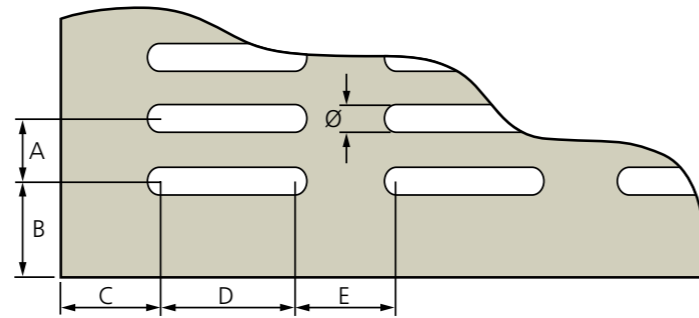
- 1 Panel
- 2 Acoustic felt
- 3 Mineral wool
- 4 Air gap 30 mm
- 5 Air gap 200 mm

On gustafs.com/products-services you can see the absorption coefficient graphs according to SS-EN 20354 (ISO 354) and evaluation to ISO 11654, for our standard patterns.

PANEL MEASUREMENTS



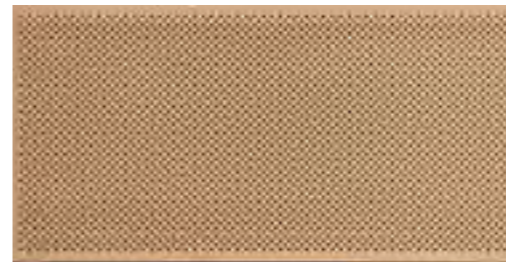
** Normally B and C = 25-35 mm.
When group perforation B and C = 25-95 mm.
A and E = constant.



* Normally B = 25-35 mm, D and E are variably.
When ceiling, edge DG and DA; B & C = 35-45 mm.
When group slotted B and C are variably, as A, D and E = constant.

ACOUSTIC PATTERNS PERFORATIONS

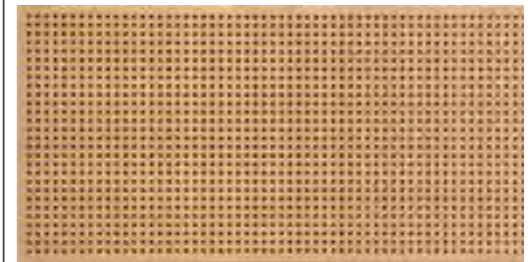
PD8 DOMINO PERFORATION 8 MM, OPEN AREA 24%



A=10 mm
*B=30 mm,
**C=30 mm
E=10 mm,
Diameter=8 mm.

Absorption class B.
Open area 24%

PH10 PERFORATION 10 MM, OPEN AREA 18%



A=20 mm
*B=30 mm,
**C=30 mm
E=20 mm

Diameter=10 mm.
Absorption class C.
Open area 18%

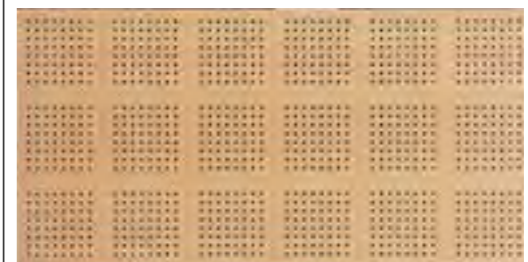
PH8 PERFORATION 8 MM, OPEN AREA 12%



A=20 mm
*B=30 mm,
**C=30 mm
E=20 mm
Diameter = 8 mm

Absorption class D
Open area 12%

PG8 GROUP PERFORATION 8% OPEN AREA



A=20 mm
*B=30 mm
**C=30 mm
E=20 mm,
Diameter=8 mm.

Absorption class D.
Open area 8%

Group measurement 200 mm x 200 mm.

PH5 PERFORATION, 5 % OPEN AREA

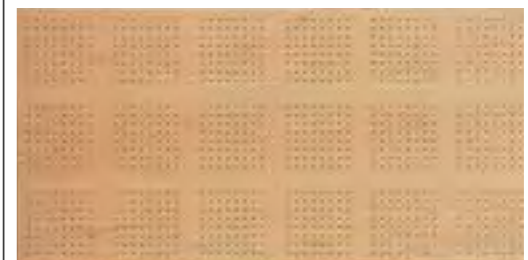


A=20 mm
*B=30 mm
**C=30 mm
E=20 mm

Diameter = 5 mm

Absorption class D
Open area 5%

PG5 GROUP PERFORATION 5 MM, 3% OPEN AREA



A=20 mm
*B=30 mm, **C=30 mm
E=20 mm

Diameter=5 mm.

Absorption class E/D.
Open area 3%

Group measurement 200 mm x 200 mm.

PS2 DOUBLE SIDED PERFORATION 3/10 MM



A=20 mm
*B=30 mm **
C=30 mm
E=20 mm
Diameter visible perforation = 3 mm
Diameter2 = 10 mm

Absorption class E
Open area 2%

RP 8 - C10, 2,8% OPEN AREA



A=20 mm
*B=30 mm
**C=30 mm
E=40 mm

Diameter=8 mm.

Absorption class C
Open area 2,8%

RP 8 - C20, 1,7% OPEN AREA



A=10 mm
*B=30 mm,
**C=30 mm
E=20 mm

Diameter=8 mm.

Absorption class D
Open area 1,7%

NANO



A=1,75 mm
B= -
C= -
E=2,0 mm

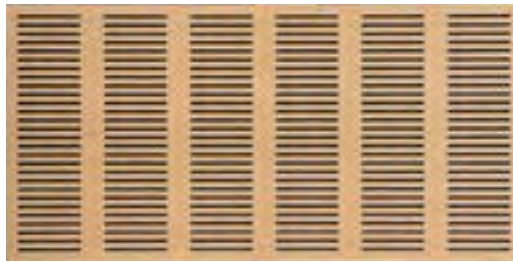
Diameter=0,5 mm

Please note that the image is magnified

ACOUSTIC PATTERNS SLOTTS

On our website gustafs.com/products-services you can see the absorption coefficient graphs according to SS-EN 20354 (ISO 354) and evaluation to ISO 11654. for our standard patterns.

SX8 MAXI SLOTTED, 29% OPEN AREA

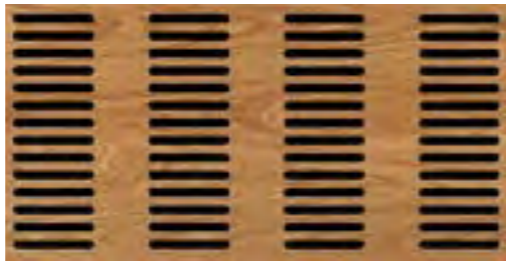


A=20 mm
*B=30 mm
**C=30 mm
D=140 mm
E=60 mm,
Diameter=8 mm.

Absorption class B.
Open area 29%

Group measurement 200 mm x 200 mm.

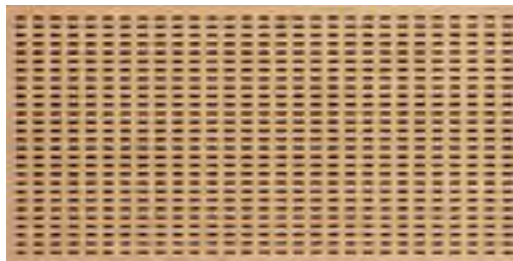
QS SLOTTED 20 MM, 28% OPEN AREA



A=20 mm
*B=30 mm
**C=30 mm D=190 mm
E=140 mm,
Diameter=20 mm.

Absorption class C.
Open area 28%

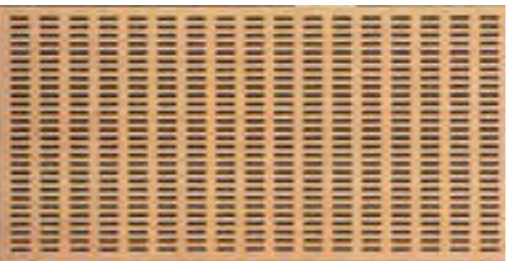
SM8 MINI SLOTTED 8 MM, OPEN AREA 26%



A=20 mm
*B=30 mm
**C=30 mm
D= 20 mm
E=20 mm
Diameter=8 mm.

Absorption class B.
Open area 26%

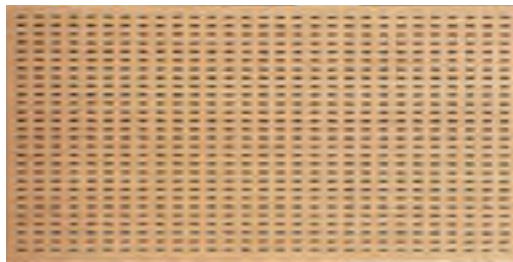
SH8 SLOTTED 8 MM, 26 % OPEN AREA



A=20 mm
*B=30 mm,
**C=30 mm
D= 40 mm
E=30 mm
Diameter=8 mm.

Absorption class C.
Open area 26%

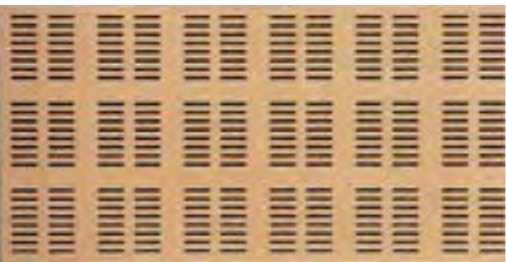
SM5 MINI SLOTTED 5 MM, OPEN AREA 15%



A=20 mm
*B=30 mm,
**C=30 mm
D= 40 mm
E=30 mm
Diameter=5 mm.

Absorption class C.
Open area 15%

SG8 GROUP SLOTTED 8 MM, OPEN AREA 20%



A=20 mm
*B=30 mm, **C=30 mm
D= 55 mm
E=30 mm
Diameter=8 mm.

Absorption class C.
Open area 20%

Group measurement 200 mm x 200 mm.

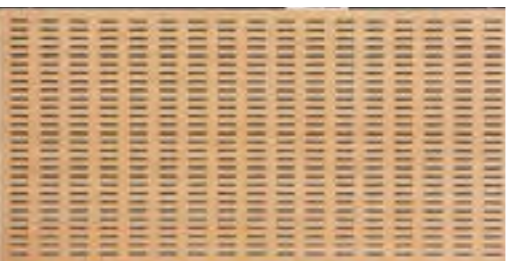
RS8-C40 RIB SLOTTED 8 MM, OPENAREA 13%



A=40 mm
*B=30 mm
**C=30 mm
D= 40 mm
E=30 mm
Diameter = 8 mm.

Absorption class C.
Open area 13%

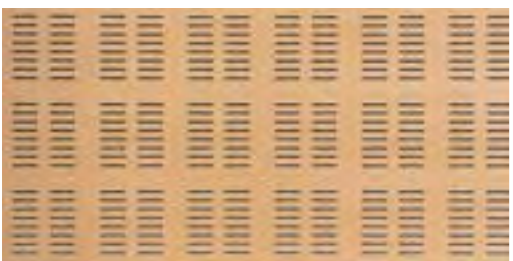
SH5 SLOTTED 5 MM, OPEN AREA 15%



A=20 mm
*B=30 mm
**C=30 mm
D= 40 mm
E=30 mm
Diameter=5 mm.

Absorption class C.
Open area 15%

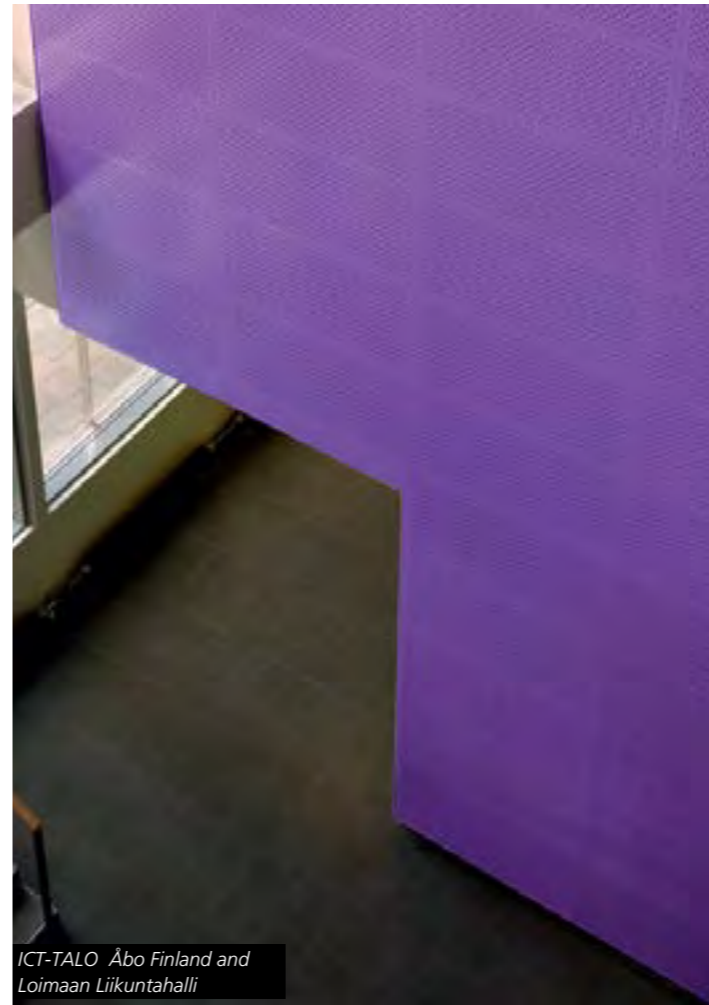
SG5 GROUP SLOTTED 5 MM, OPEN AREA 12%



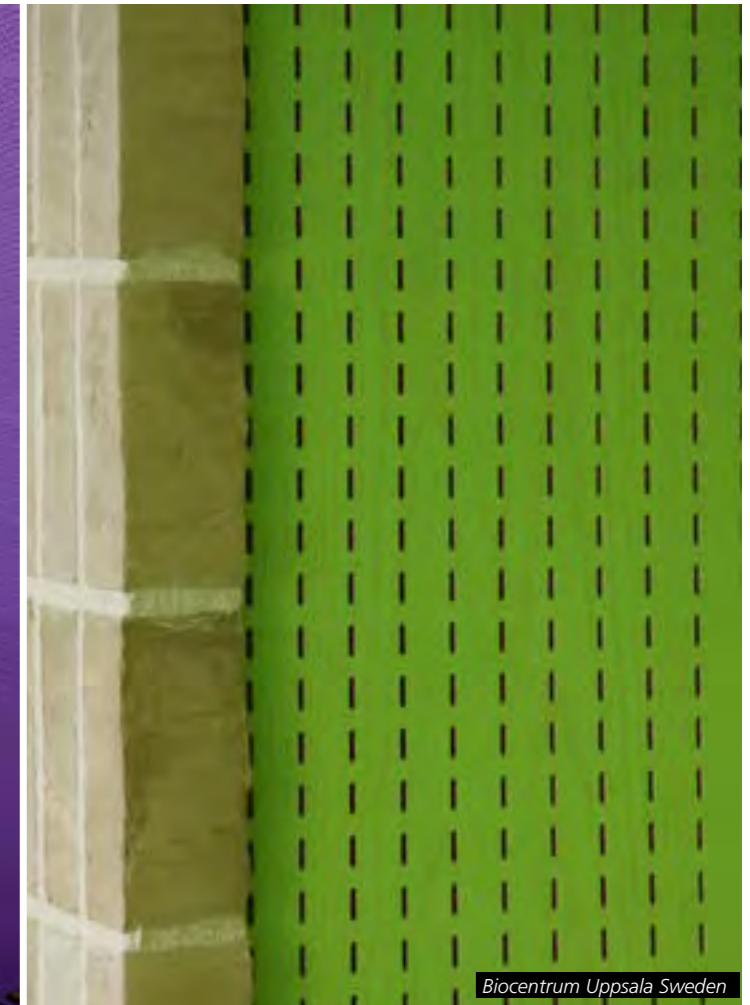
A=20 mm
*B=30 mm, **C=30 mm
D=55 mm
E=30 mm,
Diameter=5 mm.

Absorption class D.
Open area 12%

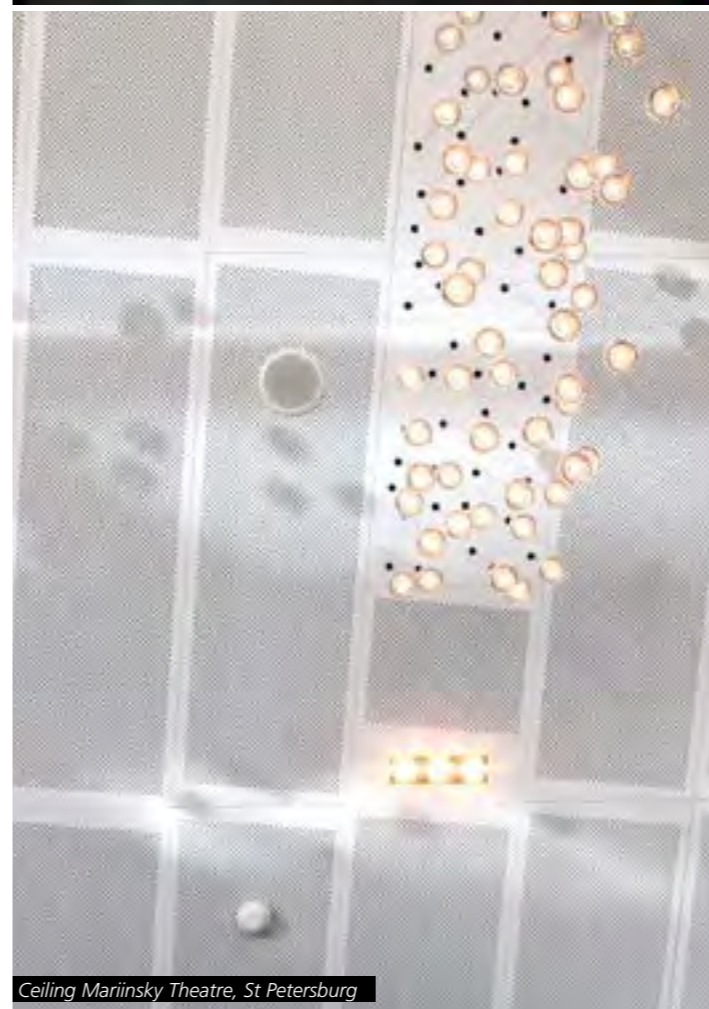
Group measurement 200 mm x 200 mm.



ICT-TALO Åbo Finland and
Loimaan Liikuntahalli



Biocentrum Uppsala Sweden



Ceiling Mariinsky Theatre, St Petersburg



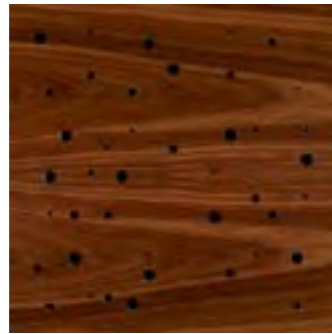
Diamond Hall, University of Ulster, Coleraine
Walnut, 350 m2, SH8 perforation
Samuel Stevenson Architects, Belfast.

BESPOKE PERFORATION PATTERNS

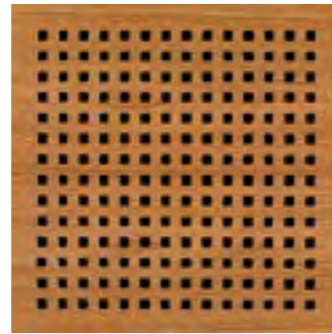
We manufacture and supply many different kinds of bespoke interiors for our customers and strive to make your design vision reality. Together with our project leaders you can also create your own perforation pattern.



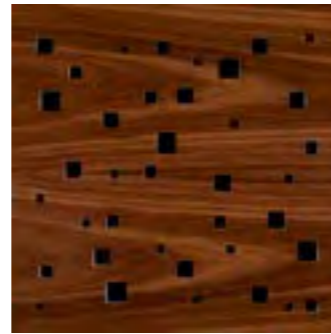
Cloud



Stars 2% Open area



Square 18% Open area



Square 2.0, 6% Open area



Wave, 13% Open area



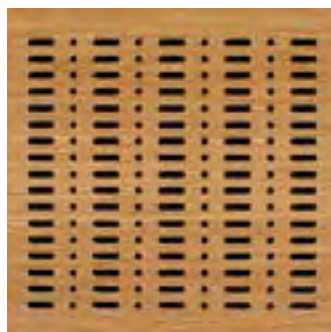
Wave 2.0, 11% Open area



Wave 3.0, 13% Open area



Wave 4.0, 12% Open area



Morse, 15% Open area



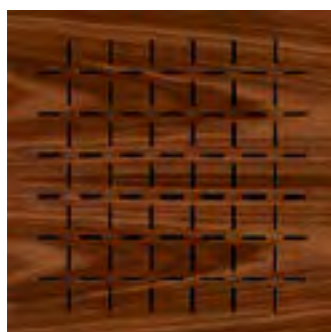
Morse 2.0, 14% Open area



Symmetry, 27% Open area



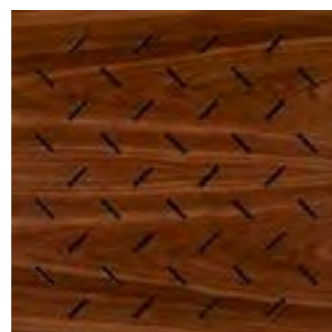
Tornados, 21% Open area



Cross, 8% Open area



Autumn, 8% Open area



Station, 4% Open area



Storm, 8% Open area



CREATE
YOU CAN CREATE YOUR
OWN PERFORATION PATTERN.
Contact us and we will tell you more

THE BF-PANEL

Most of our products are based on a fibre gypsum board which has very good properties regarding both fire safety and acoustics. The panel is less sensitive to changes in temperature and humidity which in turn maintains the panels' linearity over time. All together, this unique combination contributes to produce a panel suited for application not only in large areas but also in a wide variety of demanding situations.



FIBRE GYPSUM BOARD

When constructing a cladding panel there are many requirements that steer the choice of component materials. Among our first demands were; a strictly plane surface, dimensional stability, fire retardation and acoustic characteristics. These demands effectively eliminate most traditional wood-based choices. However, a panel constructed of highly compressed fibre gypsum incorporates the properties needed to meet fire prevention demands and offers good acoustic characteristics while at the same time offers versatility and aesthetic charm.



SOLID WOOD EDGING

Prior to veneering, a solid wood edging is integrated around the panel, disguising the core material. When the veneer is then applied it covers the wooden edge and effectively gives the panel the appearance of being entirely of wood. This process contributes to the total strength of the panel making it more robust and ensures its dimensional characteristics.

On gustafs.com you can find all the different edges and related capax profiles.



DARK CORE

Using a dark core, the holes or slots in an acoustic panel will be less visible in combination with dark veneers or paints. Unless the perforation pattern is a very important part of the design, "hiding" the holes is a great new aesthetic benefit that Gustafs can offer.

Gustafs recommends the use of a Dark Core for perforated acoustic panels with dark veneers like Walnut, Wenge, Mahogany, Teak or painted in dark colours. For the lighter range of both veneers and paints we still recommend using the standard white core substrate.

STABILITY

It is an inherent characteristic of natural wood to move in relationship with changes in humidity and temperature. This can result in bulging or shrinkage of wall panel surfaces. A fiber gypsum board is considerably less susceptible to these effects than other commonly used materials. This results in a planer and more linear surface.

FIRE

Due to the surface veneer's strongly bound adhesion to the fibre gypsum board, initial sources of fire are prevented from spreading over the panel's surface. Even when an intensive fire source has developed, the dense nonflammable core of the panel prevents fire penetration thus protecting underlying and adjacent materials. For veneered and painted surfaces the fire classification is A2-s1,d0 and K₁10,K₂10.

MDF OR PLYWOOD

We also manufacture panels in MDF, and Plywood (DF-Panel and PF-Panel). These are primarily used to certain design solutions such as curved panels or at joinery and acoustic boxes.

Contact us for more information about DL-panels and PF-panels.

Comparative technical data Gypsum cellulose fibre board/MDF board

| Properties of the core | Gypsum cellulose fibre | MDF |
|-------------------------------------------|--------------------------------------|-----------------------|
| Density | 1 250 kg/m ³ | 780 kg/m ³ |
| Weight | 15,7 kg/m ² | 9,3 kg/m ² |
| Moisture content on delivery 65% RH +20°C | 2% | 5-8% |
| Moisture difference 40-65% RH | 2% | 5-7% |
| Linear expansion 30-80% RH | 0,08% | 0,4% |
| Thermal conductivity | 0,24 W/Km | 0,14 W/Km |
| Specific heat capacity | 1 320 J/kg °C | 1 851 J/kg °C |
| Fire Euroclass | A2 | D |
| Properties of Gustafs Panel System® | Type BF-panel | Type DF-panel |
| Fire Euroclass | A2-s1,d0 | D-s2,d0 |
| Reaction to fire Resistance to fire | K ₁ 10, K ₂ 10 | - |

INSULATION

The fibre gypsum panel offers insulating properties that are considerably better than other popular board and panel solutions. Due to the panel's high density and its low level of thermal conductivity, the material helps to maintain room temperatures at a constant. Effectively, this means temperate rooms which are steered by air conditioning systems will maintain their temperature more efficiently and longer even when the air conditioning system is turned off.

ACOUSTICS

With regard to room acoustics, the use of innately heavy wall cladding is often favourable compared to lighter materials. Gustafs Panel System® utilizing fibre gypsum board weighing 15 kg/m² is roughly twice as heavy as most wood-based panel materials.

| GUSTAFS | | Technical Data Sheet | | | | Doc | TDS-GPS | | | | | | | |
|------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------|---------------------------|------------|------------------------|------|------|------|-------------------------|------|------|------|
| GUSTAFS | | Gustafs Panel System | | | | Rev | 2013-05-29 | | | | | | | |
| GUSTAFS | | Gustafs Panel System | | | | Page | 1/1 | | | | | | | |
| CORE | SURFACE | DESIGN | THICKNESS | WIDTH | LENGTH | | | | | | | | | |
| Fiber Gypsum | Wood Veneer Lacquer | Plain | 13,2 mm | Standard 600 mm | 600 mm, 1000, | | | | | | | | | |
| | Painted Craft Paper | Acoustical Perforation | | | 1200, 1500, 1800, 2400 | | | | | | | | | |
| ESTETICS & MAINTENANCE | | | | | | | | | | | | | | |
| Colour, pattern & finish | | Wood is a natural product and each veneer is unique. Colour, pattern and structural differences are considered as normal and a part of the décor. Wood changes over time when exposed to UV-light. When painted, please supply RAL or NCS numbers. | | | | | | | | | | | | |
| Maintenance | | Only for indoor use. Use and installation at 18-50 C° and 25-60% humidity. Cleanings 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. | | | | | | | | | | | | |
| TOLERANCES | | PERFORMANCE | DESCRIPTION | STANDARD | | | | | | | | | | |
| Thickness | | ±0,5 mm | / panel | SS-EN 13986/324-1/324-2 | | | | | | | | | | |
| Length and width | | +0,2 mm / - 0,5 mm | / panel | SS-EN 13986/324-1/324-2 | | | | | | | | | | |
| Diagonal size | | +0,5 mm / - 0,5 mm | / panel | SS-EN 13986/324-1/324-2 | | | | | | | | | | |
| Flatness | | ±2,0 mm | /meter | SS-EN 13986/324-1/324-2 | | | | | | | | | | |
| PHYSICALS | | PERFORMANCE | DESCRIPTION | STANDARD | | | | | | | | | | |
| CE declaration | | Yes | suspended ceilings | EN 13964 | | | | | | | | | | |
| Weight | | 15,7 kg/m² | | SS-EN 13986/324-1/324-2 | | | | | | | | | | |
| Flexural tensile strenght | | Class 1 / A / no load | | EN 13964 | | | | | | | | | | |
| Service load bearing | | 450 N | for ceiling use | EN 13964 | | | | | | | | | | |
| Failing load bearing | | 3520 N | for ceiling use | EN 13964 | | | | | | | | | | |
| Thermal conductivity | | NPD | | | | | | | | | | | | |
| ENVIRONMENT | | PERFORMANCE | DESCRIPTION | STANDARD | | | | | | | | | | |
| Release of asbestos | | NPD | | | | | | | | | | | | |
| Formaldehyde | | 0,016 mg/m³ | E1 ≤ 0,05 mg/m³ | EN 717-1 | | | | | | | | | | |
| TVOC | | 0,023 mg/m³h | total emission | SS-EN ISO 16000-9 | | | | | | | | | | |
| Recycled content, pre-cons. | | 77% | industrial gypsum | | | | | | | | | | | |
| Recycled content, post-cons. | | 17% | cellulosa fibers | | | | | | | | | | | |
| FSC | | Yes | stewardship for woods | FSC | | | | | | | | | | |
| Durability | | > 50 years | expected life time | | | | | | | | | | | |
| Energy for production | | 99% water, 1% wind energy | | | | | | | | | | | | |
| Possible LEED points | | EA C1, MR C1.2, MR C2, MR C3, MR C4, MR C5, MR C6, MR C7, IEQ C3.1, IEQ C3.2, IEQ C4.1, IEQ C4.4. Schools: EQ C4, option 6, EQ C9 | sustainable buildings | LEED for New Construction and Major Renovations, LEED for Schools | | | | | | | | | | |
| Possible BREEAM points | | | sustainable buildings | | | | | | | | | | | |
| FIRE | | PERFORMANCE | DESCRIPTION | STANDARD | | | | | | | | | | |
| Reaction to fire | | A2-s1,d0 | Euroclass | EN 13501-1 | | | | | | | | | | |
| Resistance to fire | | K1-10/K2-10 | Euroclass | EN 13501-2 | | | | | | | | | | |
| ACOUSTICS | | | | | | | | | | | | | | |
| Sound absorption (α) | Typ | Ø | Slott | cc | Open | aw & Class | 45 mm wool + 30 mm gap | | | | 45 mm wool + 200 mm gap | | | |
| | | | | | | | 200 Hz | 400 | 1000 | 1500 | 200 Hz | 400 | 1000 | 1500 |
| EN ISO 354 / EN ISO 11654 | Plain | - | - | - | - | - | 0,09 | 0,07 | 0,07 | 0,08 | 0,18 | 0,09 | 0,08 | 0,09 |
| | PH5 | 5 mm | - | 20/20 | 5 % | 0,35-D | 0,65 | 0,60 | 0,44 | 0,30 | 0,70 | 0,73 | 0,42 | 0,38 |
| | PH8 | 8 mm | - | 20/20 | 12 % | 0,55-D | 0,59 | 0,98 | 0,70 | 0,52 | 0,86 | 0,92 | 0,78 | 0,68 |
| | PH10 | 10 mm | - | 20/20 | 18 % | 0,75-C | 0,60 | 1,10 | 0,90 | 0,74 | 0,98 | 0,94 | 0,88 | 0,84 |
| | PG5 | 5 mm | - | 20/20 | 3 % | 0,3-E/D | 0,48 | 0,49 | 0,32 | 0,24 | 0,50 | 0,44 | 0,35 | 0,28 |
| | PG8 | 8 mm | - | 20/20 | 8 % | 0,50-D | 0,67 | 0,94 | 0,60 | 0,45 | 0,83 | 0,73 | 0,64 | 0,51 |
| | PS2 | 3 mm | - | 20/20 | 2 % | 0,25-E | 0,70 | 0,91 | 0,31 | 0,18 | 0,70 | 0,67 | 0,37 | 0,22 |
| | PD8 | 8 mm | - | 10/10 | 24 % | 0,85-B | 0,56 | 1,12 | 0,94 | 0,81 | 0,95 | 1,04 | 0,93 | 0,89 |
| | SM5 | 5 mm | 20 mm | 20/20 | 15 % | 0,65-C | 0,59 | 1,03 | 0,78 | 0,67 | 0,78 | 0,87 | 0,78 | 0,68 |
| | SM8 | 8 mm | 20 mm | 20/20 | 26 % | 0,85-B | 0,59 | 1,04 | 0,93 | 0,84 | 0,70 | 0,96 | 0,87 | 0,84 |
| | SH5 | 5 mm | 40 mm | 20/30 | 15 % | 0,50-C | 0,60 | 1,07 | 0,81 | 0,62 | 0,92 | 0,93 | 0,81 | 0,71 |
| | SH8 | 8 mm | 40 mm | 20/30 | 26 % | 0,75-C | 0,56 | 1,10 | 0,91 | 0,77 | 0,97 | 1,03 | 0,91 | 0,86 |
| | SG5 | 5 mm | 55 mm | 20/30 | 12 % | 0,55-D | 0,66 | 1,00 | 0,72 | 0,53 | 0,93 | 0,83 | 0,72 | 0,60 |
| | SG8 | 8 mm | 55 mm | 20/30 | 20 % | 0,65-C | 0,63 | 1,08 | 0,84 | 0,65 | 0,99 | 0,95 | 0,84 | 0,73 |
| | SX8 | 8 mm | 140 mm | 20/60 | 29 % | 0,85-B | 0,55 | 1,00 | 0,89 | 0,80 | 0,69 | 0,95 | 0,89 | 0,80 |
| RS8 | 8 mm | 40 mm | 40/30 | 13 % | 0,60-C | 0,57 | 0,87 | 0,73 | 0,60 | 0,61 | 0,78 | 0,69 | 0,60 | |
| QS | 20 mm | 190 mm | 40/140 | 28 % | 0,75-C | 0,58 | 0,85 | 0,45 | 0,46 | 0,72 | 0,75 | 0,83 | 0,78 | |

FIRE

Gustafs Panel System® with a veneered or painted surface, achieves classification A2-s1, d0, which means that the product has no noticeable contribution to fire. To meet the market demands for all kind of rooms it is necessary to be in the absolute front line regarding fire safety.

Gustafs products meet the fire regulations and demands for public localities such as schools, meeting rooms, concert halls, hotels, airport terminals and other similar public meeting places. The system has been tested and certified according to the latest European standards. For regions such as Asia and the United States, we have been certified at a national level as well.

The fire retardant properties of Gustafs Panel System® are not reliant on chemical treatment; instead it is the mechanical composition of all the details which create the end result. Our perforated and slotted panels fall into this classification provided they are installed in combination with mineral wool.

PROTECT THE UNDERLYING CONSTRUCTIONS
Escape routes and roof structures have high demands for the use of fire retardant materials. It is of little help however if the non-combustible outer wall or ceiling cladding conveys heat to structures and facilities behind the surfaces which results in fire break out. Claddings with K₁10/K₂10 for example protect the underlying constructions in the event of fire.

Consequently approval of cladding materials is always associated with an installation system or method. The Gustafs Panels System® employs Capax as an integral part of its installation and is approved to classification K₁10/K₂10.

REACTION TO FIRE, EN13501-1

The Euroclass-system is divided into various classes in accordance to the following:

- A1 Nonflammable materials No contribution to fire
- A2 Nonflammable materials** No noticeable contribution to fire
- B Flammable Little or no contribution to fire
- C Flammable Limited contribution to fire
- D Flammable Contributes to fire
- E Flammable Major contribution to fire
- F Flammable Not within classes A1-E

- s1 the panels contribute little or insignificantly to the development of smoke.
- d0 the panels do not create flaming particles or droplets when subjected to fire.

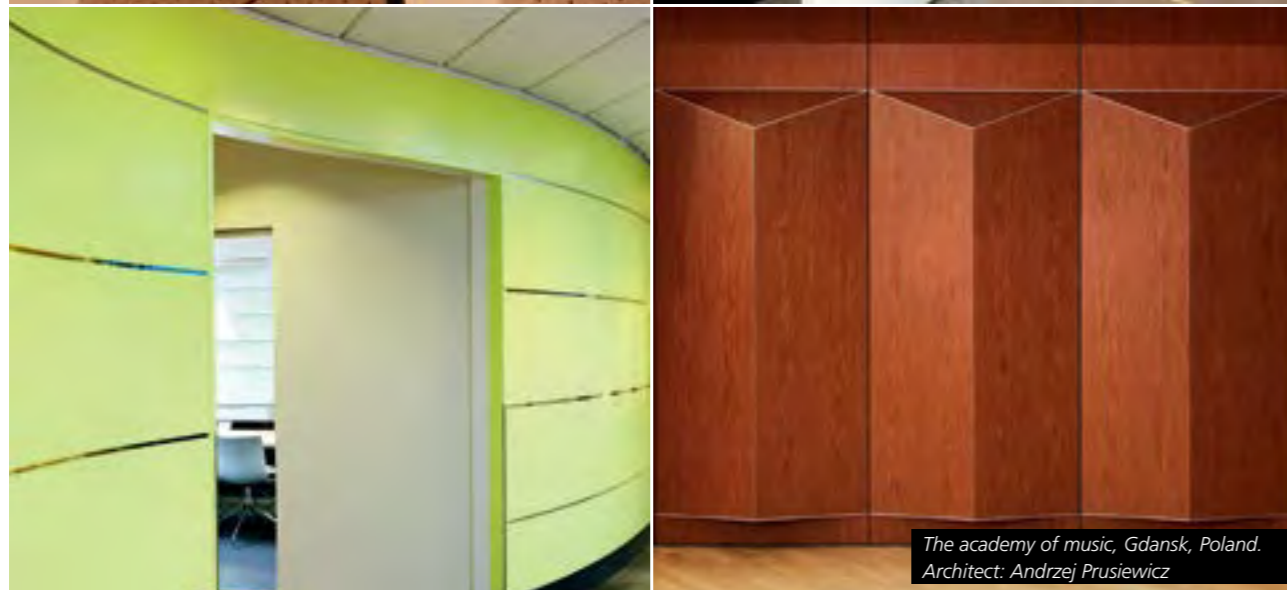
RESISTANCE TO FIRE, EN13501-2

- K₁10/K₂10 Gustafs Panel System® protect the underlying constructions in the event of fire.



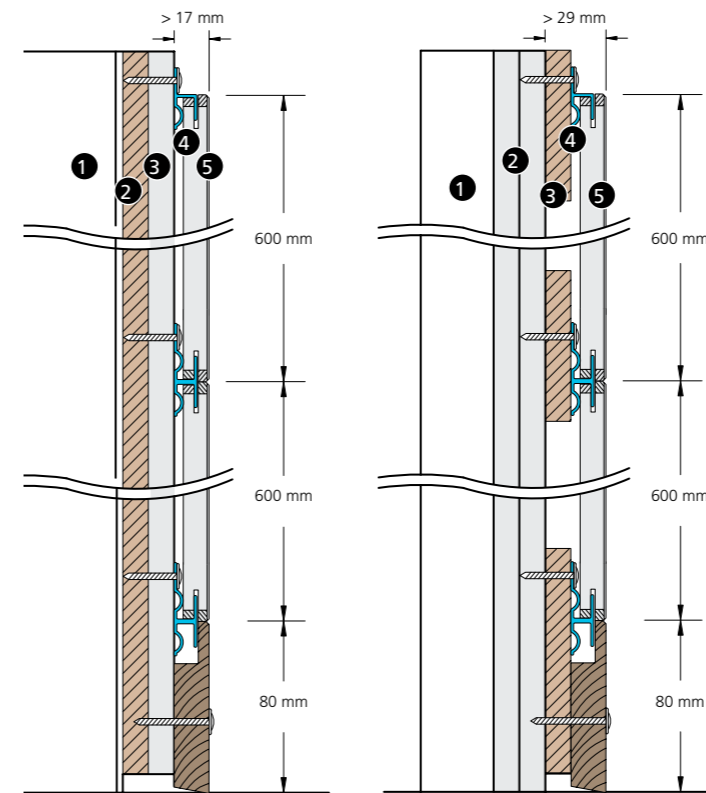
INSTALLATION SIMPLE & FAST

Capax is the name of our unique installation system of aluminum profiles for walls and ceilings. The profiles are strong and their torsional rigidity ensures the outmost lineal accuracy. The range of Capax profiles accommodates both aesthetic and functional demands. There are a variety of joints and connections to choose from. Special profile types disguise cut edges and allow for panel cutting on site. Thus, panels can be ordered in standard sizes and then adjusted on site to meet the actual dimensions, allowing for a more cost-effective installation.



WALL INSTALLATION

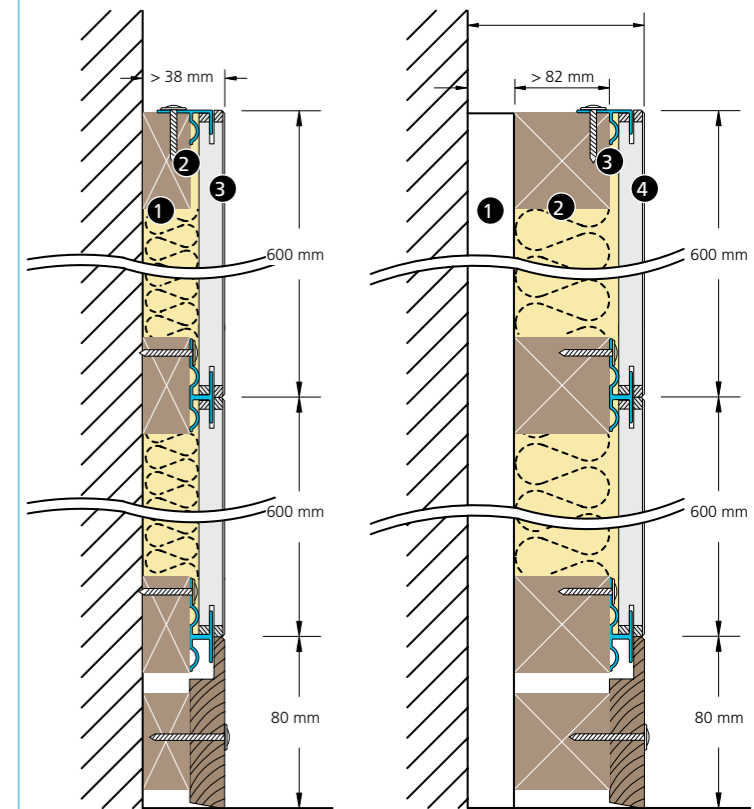
EXAMPLE WALL ASSEMBLY



- 1 Metal batten
- 2 12 mm Plywood n.b. board
- 3 12 mm Gypsum board
- 4 Capax profile
- 5 Gustafs panel

- 1 Metal batten
- 2 2x12 mm Gypsum board
- 3 12 mm Plywood strips
- 4 Capax profile
- 5 Gustafs panel

EXAMPLE ACOUSTIC SECTION



- 1 Battens and insulation
- 2 Capax profile
- 3 Gustafs panel

- 1 Battens and air space
- 2 Battens and insulation
- 3 Capax profile
- 4 Gustafs panel

WALL PANEL EDGES



A SOLID WOOD EDGING

There are a variety of choices in terms of joints and edges on the panel, depending on how you want the final result to look and whether the panel should be demountable or fixed. On the following pages you will find our various mounting options.

Our panels are equipped with a solid wood edging around the panel, this edging disguises the core material. When the veneer, laminate or paint is applied it covers the wooden edge. This process also contributes to the total strength of the panel making it more robust and ensures its dimensional characteristics.

EXAMPLES OF JOINT POSSIBILITIES

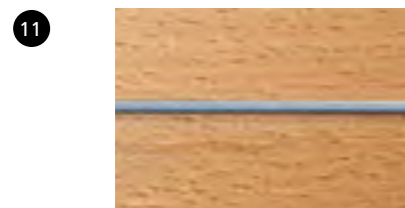
CLOSED JOINTS



Capax profile 3201



Capax profile 3217



Capax profile 3208

OPEN JOINTS - 10, 13 and 15 mm

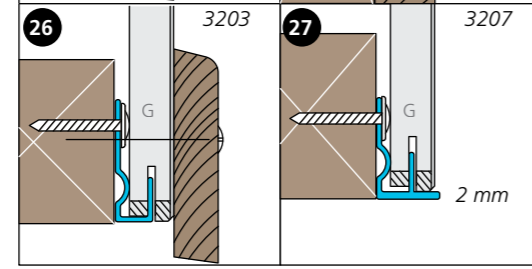
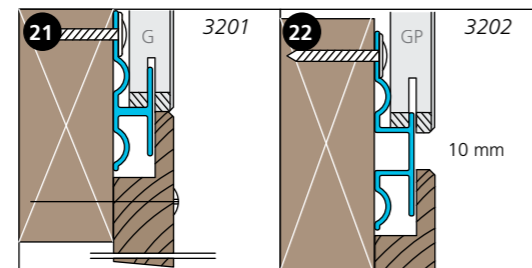
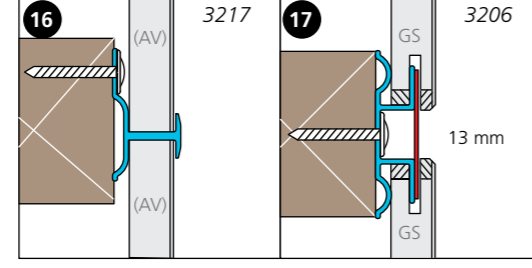
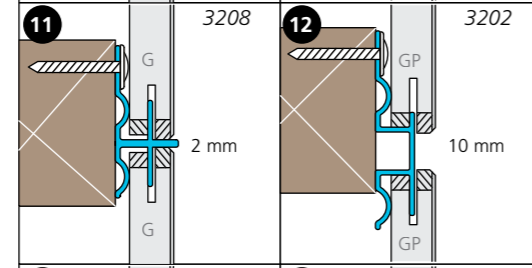
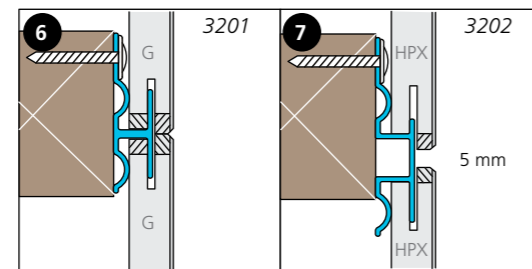
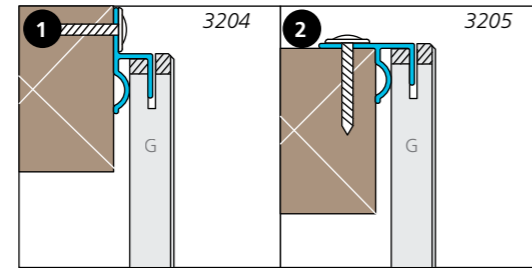


Capax profile 3202, 3212, 3211

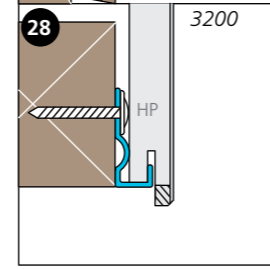
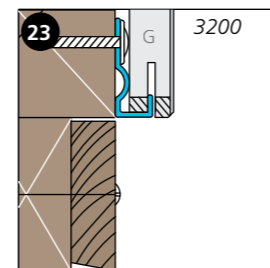
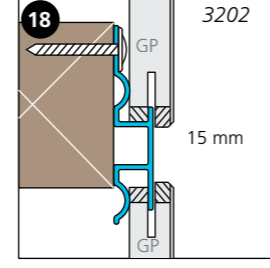
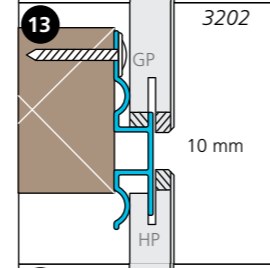
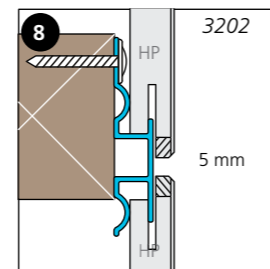
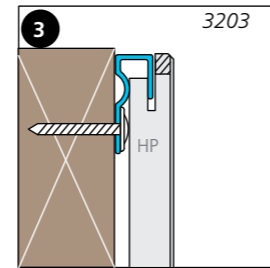


Capax profile 3206 with LED-line, diffuser lens and power supply

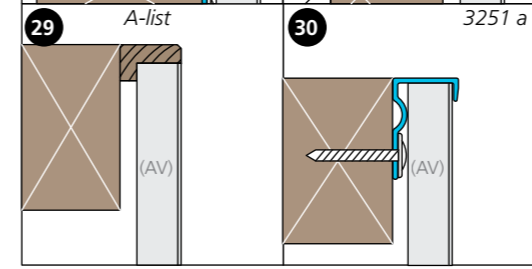
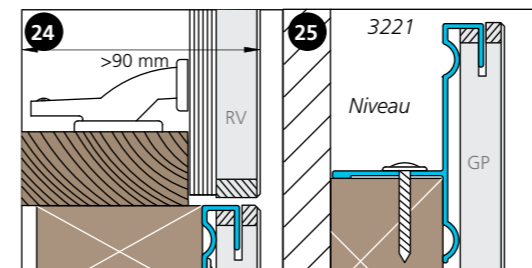
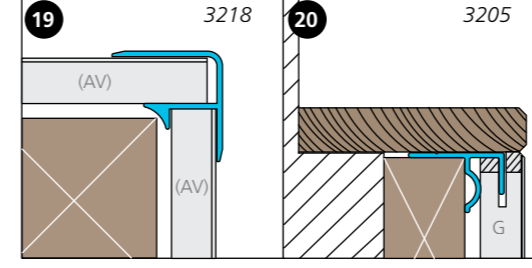
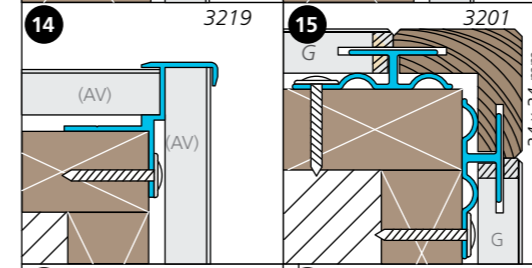
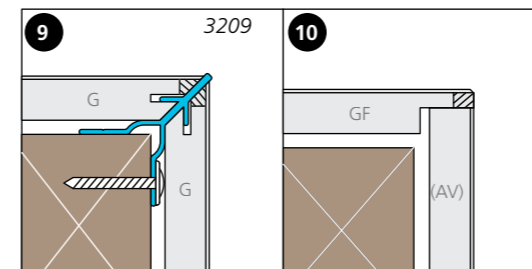
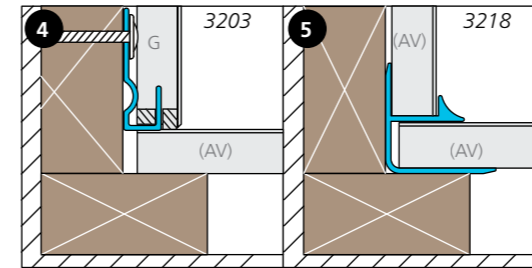
FIXED PANELS



DEMOUNTABLE PANELS



CORNERS AND EDGES



EXAMPLES OF JOINT POSSIBILITIES

CORNERS



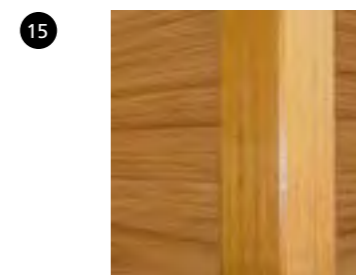
Capax profile 3209



Capax profile 3219



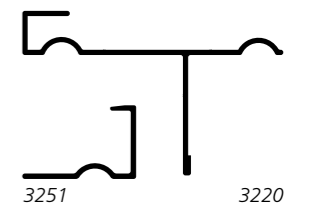
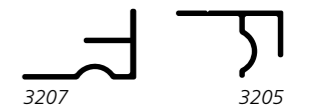
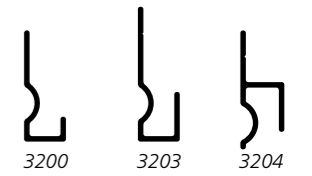
Capax profile 3218



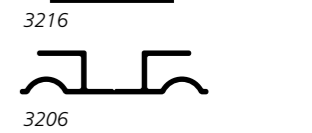
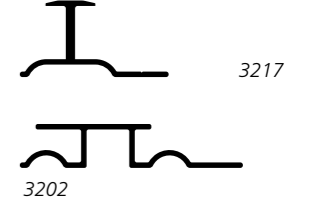
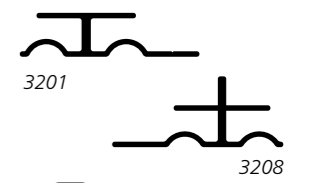
Capax profile 3201

CAPAX WALL

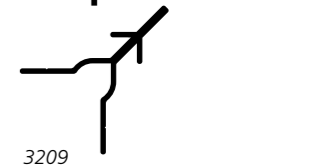
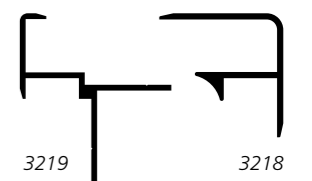
CAPAX WALL START & END



CAPAX WALL JOINTS



CAPAX WALL CORNERS



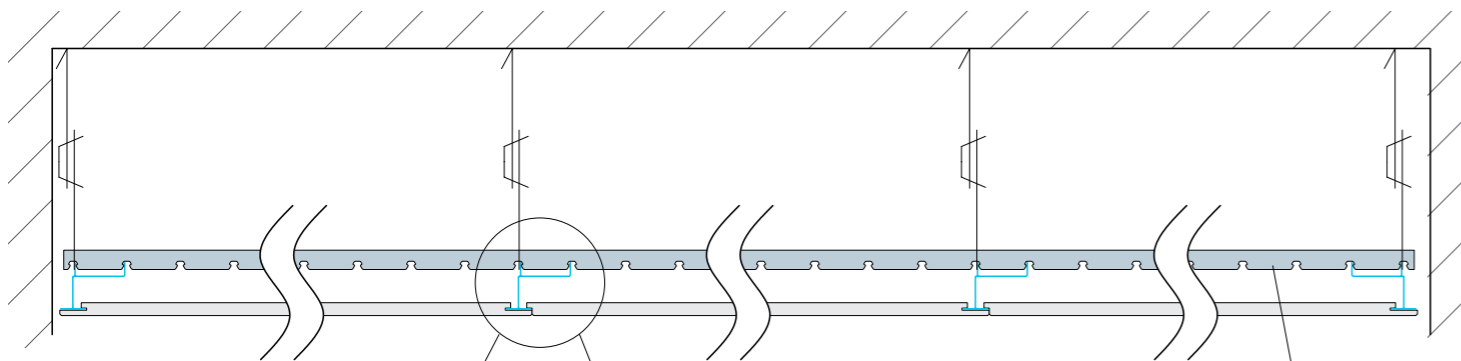
Edges = G, GP GF, GS, HP, HPX, RV, AV.

X Solution number for order

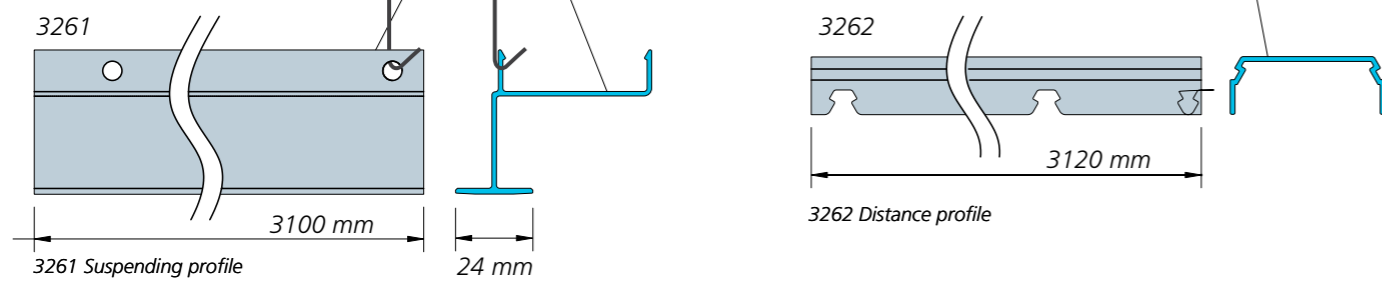
CEILING INSTALLATION

- The construction is torsionally rigid and self-bearing, lacking the need to fix onto adjacent walls.
- The system offers full panel demountability and thereby access to overlying technical installations while maintaining its overall stability and strength.
- Capax ceiling profile system is aesthetically appealing because totally hidden.
- The system is constructed for a panel width of 600 mm but even allows for a 50 mm variation between 300 and 800 mm.
- Capax suspended ceiling system consists of a robust T-profile main runner which supports the panel's length. The broad side of the panels meet each other end to end with precision. The main runner profile is locked in place by means of a distance profile, thus creating a very stable grid system.

THE SYSTEM - CAPAX CEILING SUSPENSION

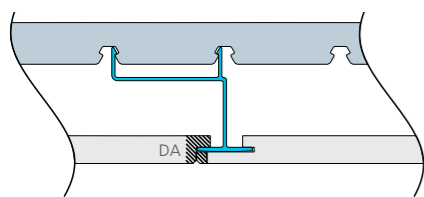


THE PROFILES

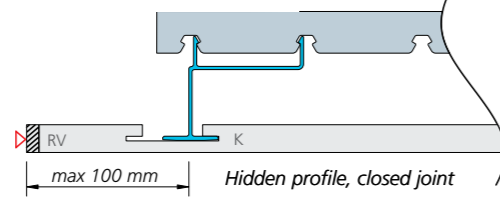


EDGES & JOINTS

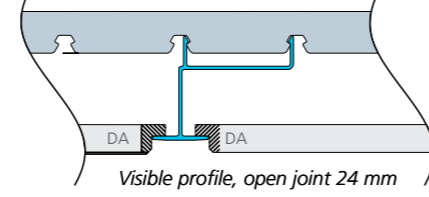
DEMOUNTABLE AND INVISIBLE



DEMOUNTABLE AND INVISIBLE

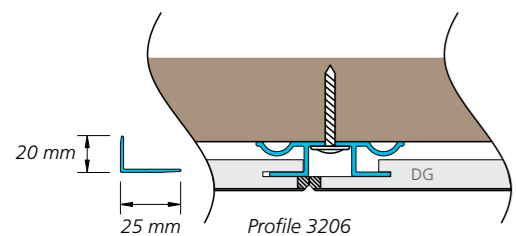


DEMOUNTABLE AND VISIBLE

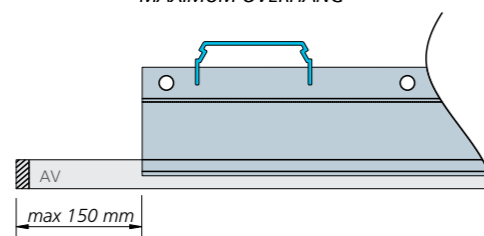


SPECIAL

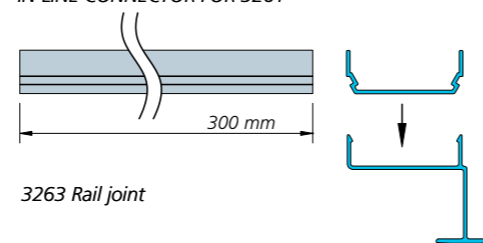
FIXED INSTALLATION



MAXIMUM OVERHANG



IN-LINE CONNECTOR FOR 3261



ACCESSORIES

Small details that make a difference



HATCHES

The need of having access to the ancillary system cannot be avoided. Gustafs offer real integral hatches, of course with a fully matched veneer and a handle free "push-open" mechanism to make them almost invisible. The hatches have the same fire class as the rest of our panel system. Different models of hatches are available, for reliable every day use or in simpler designs for occasional use.



GRILLES

Grilles to cover heating and ventilation systems are a natural part of our cladding system. To make the grilles sturdy they are made of solid wood and supported by a clever construction. As a one stop supplier, we will match the visual appearance of the grill with the rest of the interior for an optimal result.



LIGHT – LED LINE

Integral LED illumination system for Gustafs Panels. The 12V plug and play system provides an easy and time saving installation. The result is a brilliant light line in between the panels, either vertically or horizontally. The slim power supply system is easily hidden behind the panels by using standard components.

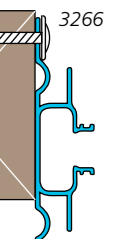
[Visit gustafs.com](http://gustafs.com) for more information



SLAT WALL

Open up a world of opportunities by integrating our Slat-Wall profile to your wall. The profile 3266 provides a visible open joint of 15 mm and can be used everywhere and directly in-between our panels. Slat-Wall is a universal World standard and the number of accessories is infinite, like the suspensions of shelves, hooks, lamps, art, office tools, meeting room tools etc.

[Visit gustafs.com](http://gustafs.com) for more information





*GUSTAFS
LINEAR
SYSTEM*

GUSTAFS LINEAR SYSTEM

Wood has always been a natural ingredient in Scandinavian architecture. Gustafs Linear System is a new and innovative system for walls and ceilings. Utilizing real wood veneer Gustafs Linear System integrates the Quick-Up installation system to achieve a reliable, labour saving and exclusive interior finish. Naturally, Gustafs Linear System offers a design attribute which comes with the best fire rating, optimal sound absorption and sound diffusion.

DESIGN

Gustafs Linear System provides designers the possibility to create exciting and appealing rooms while at the same time assuring the highest possible well-being for their occupants.

Gustafs Linear System can easily be combined with Gustafs Panel System, with matching surfaces and installation.

We can assist you with your design wishes and help provide a rib solution with your own personal touch.

FLEXIBILITY IS STANDARD

To offer maximum design and installation flexibility, Gustafs Linear System ribs comprises a range of cores, veneers, colours, dimensions and open or closed gaps. Gustafs Linear System can be used in curved or straight installations and is easily combined with Gustafs Panel System.

ACOUSTICS

Our linear system automatically gives a relatively large open area of 24% which warrants for a good sound absorption over a wide band of frequencies. The three dimensional shape of the Ribs will also act like a sound diffuser. The diffusion can be tuned by working with varying depths and widths for the Ribs.

INSTALLATION

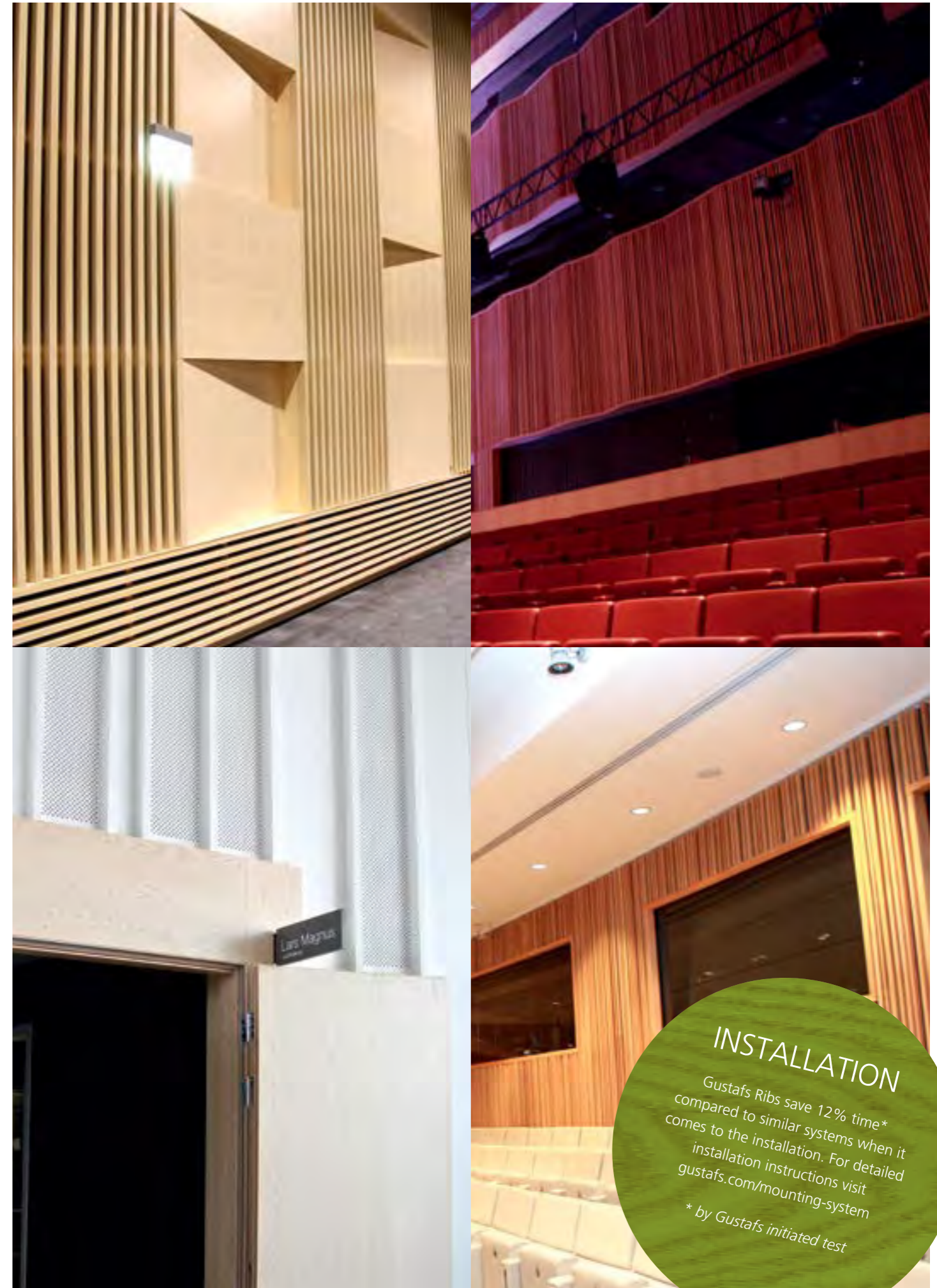
We offer user-friendly aluminum grid providing installation reliability and a professional visual result. No tools are needed to assemble the interlocking components. A fully demountable version is available, ideal when access to the ancillary systems is required.

Compared to similar systems, Gustafs Linear System is a considerable time saver when it comes to the installation.

FIRE

Gustafs Linear System, have, in accordance with the Euroclass system, achieved classification B-s1,d0.

- B** the rib contributes little or insignificantly to fire.
- s1** the rib contributes little or insignificantly to the development of smoke.
- d0** the rib does not create flaming particles or droplets when subjected to fire.



INSTALLATION
Gustafs Ribs save 12% time* compared to similar systems when it comes to the installation. For detailed installation instructions visit gustafs.com/mounting-system
* by Gustafs initiated test

SURFACES VENEERS

Gustafs Linear System is available in any of our standard veneer collections, Nature & Gemini, and is therefore very easy to match with Gustafs Panel System. The veneers presented below are Gustafs Nature collection, for Gemini veneers see page 45.



Nature Oak Nature Birch Nature Rotary cut Birch Nature Maple

Nature Ash Nature Beech Nature Pear Nature Mahogany

Nature Oregon Pine Nature Elm Nature Cherry Nature Teak

Nature Walnut

It is also possible to wrap the ribs with coloured foil. Contact us for more information regarding coloured ribs.

THE RIB

GLS FACTS

| | |
|--------------|-------------------------|
| Core | Fibre reinforced Gypsum |
| Surface | Veneer or foils |
| Thickness | 22, 28, 34 and 44 mm |
| Width | 38 mm |
| Length | 2400 mm |
| Fire rating | B-s1,d0 |
| Acoustics | 24% open area |
| Installation | Quick-Up Assembly Capax |



When the Ribs are installed with the spring clips, they can be demounted by gently pulling close to all the points of connection.

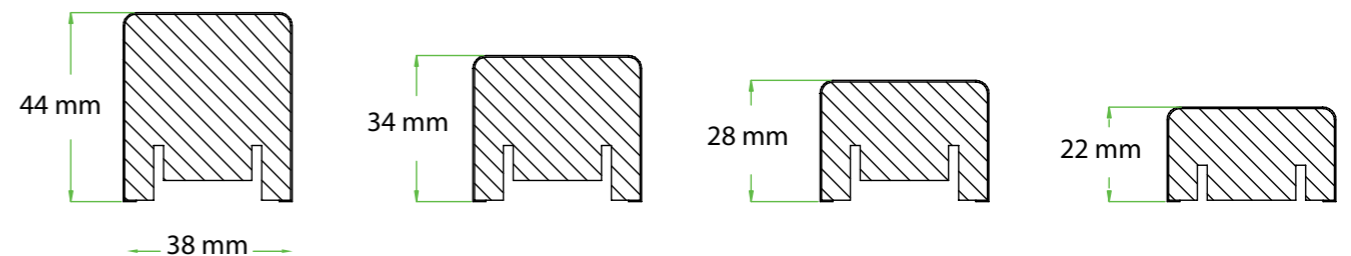
THE RIBS

A fiber reinforced gypsum core wrapped with real wood veneer. The natural wood finish provides the impression of a genuine solid wood product with natural variations in pattern and colors.

HIGH IMPACT RIBS, HIR

For walls in tough environments like in schools, restaurants and aisles and entrances in general, we have designed a special sturdy and more impact resistant RIB with a unique sandwich core construction, HIR-High Impact Ribs.

HIR are available in the following dimensions: 44, 34 and 28 mm.



The Gypsum core ribs are available in four heights, 44 mm, 34 mm, 28 mm and 22 mm. The standard width is 38 mm, with 12 mm inbetween the ribs.

INSTALLATION SIMPLE & FAST

The Quick-Up assembly system is a user friendly aluminum grid offering installation reliability providing a perfect visual result. No tools are needed to assemble the interlocking components. A fully demountable version is available, ideal when access to the ancillary systems is required. Gustafs Ribs save 12% time compared to similar systems when it comes to the installation.

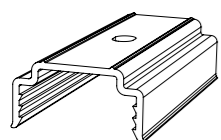
CAPAX WALL INSTALLATION



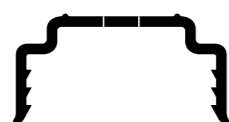
1. Capax BASE-W
2. Wall fixing screw
3. Air gap or insulation
4. Capax U-FIX
5. Capax in-line connector
6. Gustafs Ribs
7. Spring clips

The installation is made with screws or, for demountable ribs, spring clips.

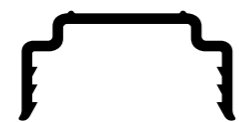
CAPAX WALL GLS



U-FIX-50, Gripper for Rib's, with hole, length 50 mm



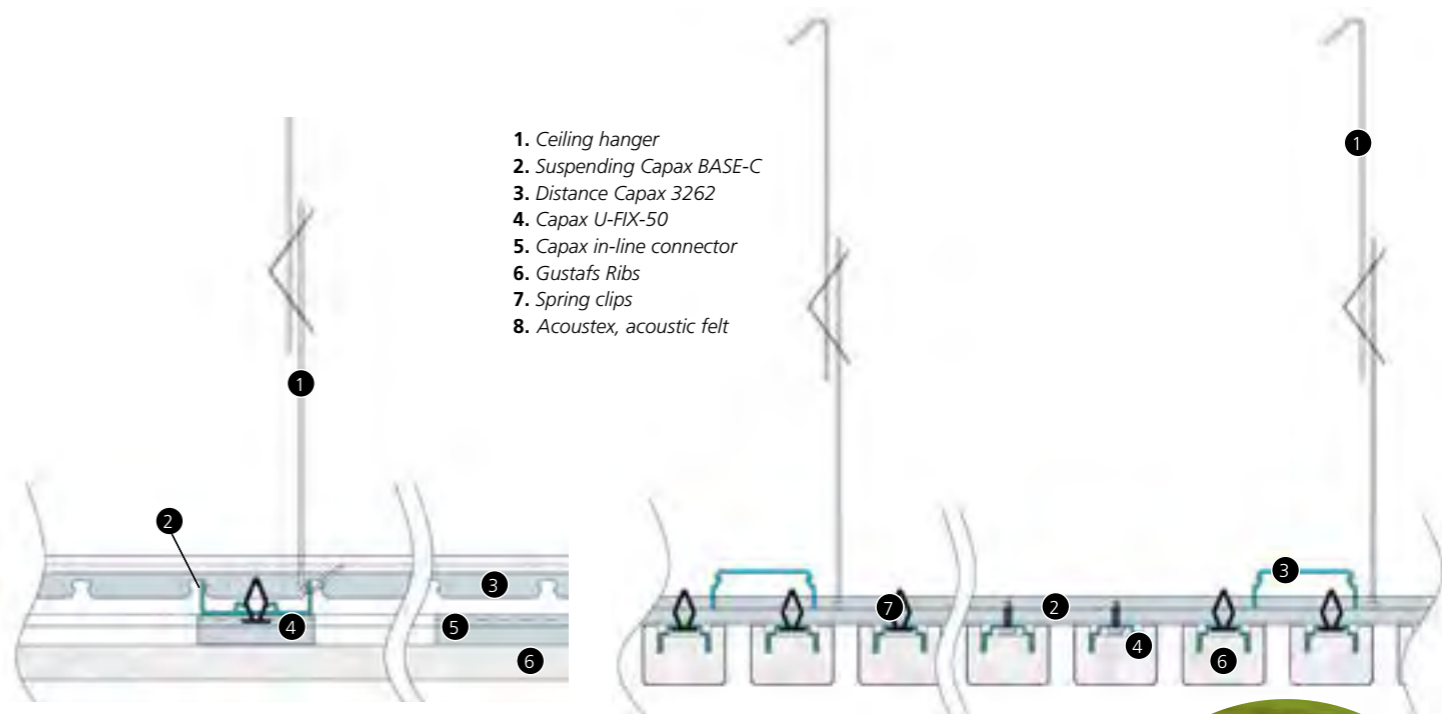
U-FIX-200, In-line connector for Rib's, lenght 200 mm



BASE-W, Wall batten, length 3000 mm



CAPAX CEILING SUSPENSION

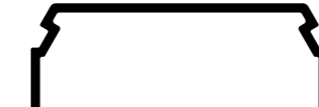


1. Ceiling hanger
2. Suspending Capax BASE-C
3. Distance Capax 3262
4. Capax U-FIX-50
5. Capax in-line connector
6. Gustafs Ribs
7. Spring clips
8. Acoustex, acoustic felt

CAPAX CEILING GLS



BASE-C Ceiling carrier



3262 - Distance profil, with cuts every 50 mm



U-FIX-50, Gripper for Ribs, with hole, length 50 mm

GLS
INSTALLATION
INSTRUCTIONS
Please visit www.gustafs.com
for more detailed installation
instructions.

HOW WE WORK

Our customers and the challenges they confront are what we as a company thrive on when developing our solutions and innovations. Designers and architects combine our products to create unique and exciting design solutions. Together we make large rooms greater.

INNOVATION

It is imperative in today's building industry to stay on top of the technical and legislative developments. Gustafs have great focus on improving and developing our product. Through direct contact and our various marketing devices we reach out to our customers with all our latest news and developments. Our brochures and newsletters contain helpful and vital information which help make our customer's job easier and Gustafs products more interesting.

While working with process and product development Gustafs mission is to offer innovative solutions which are efficient, safe and secure. Our project references, whether in acoustic applications or just plain designs, are testimony to that and they cover a wide international base.

CUSTOMER & SALES SUPPORT

We strive to provide the highest level of support to our customers in all phases of their project development. Our goals are to satisfy the technical and aesthetic ambitions and the project vision demands. This requires a tight cooperation between our customers, sales staff and our project managers. From phase to phase we track the project and submit the material and resources required to assist our customers in design and construction development.

The final phases and implementing stages of any project are important for us and not least our customers. It is then the experience of our solving problems and snags in a short time comes to the fore. Our assigned project manager maintains continuity in this critical stage. This ensures that important information is communicated to the right people at the right time.

Our customer and sales support team are always at your service whenever you need them

PRODUCTION

The combination of special carpentry skills and modern technological processes is the key to Gustafs flexibility and ultimately our quality. We understand our customer needs and visions. We encourage them to challenge us to provide the unique solution they seek.

Time and cost factor play a major role in all building processes today. Our manufacturing process is tuned to the needs of fast and accurate deliveries. The chain of communication from samples to full scale production is therefore a continuum we understand and safeguard to provide our customer with the optimal product delivered at the right time.

Systematic control and independent routine inspections are the foundations of our quality control and international certifications. Raw materials are chosen from proven and reputable sources. Our products and processes are tested to reach and fulfill today's environmental building certification programs.

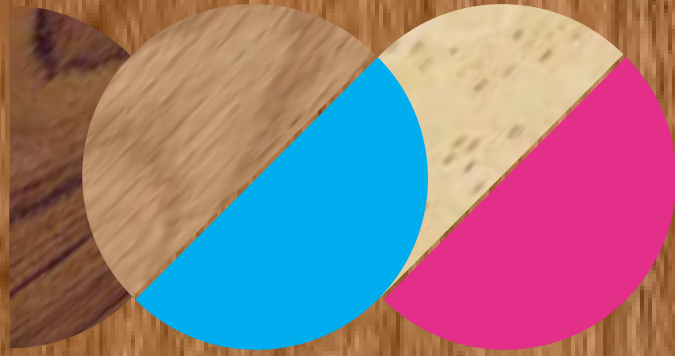
AFTER SALES

Working with natural materials we have learned to respect the passage of time. Our wood based products mature but lose none of their technical functionality when it comes to acoustic characteristics or fire retardation performance. On the other hand wood veneers do change color tone as they are exposed to light and atmosphere and this is part of beauty of natural wood.

We are often called on to provide replacements for damaged panels in projects long after we have worked on them. Thanks to our material archive and project history we can provide suitable material for these needs. No minimum size or volume is required. We simply continue to be our customer's partner after project completion.

This is just one example of our after sales service, naturally we assist our customers in whatever way we can to complete and complement our commitments to the project.

Visit gustafs.com for contact info



GUSTAFS ::::

SINCE 1913 - 100 YEARS OF SCANDINAVIAN WOOD CULTURE