



One of the benefits of a wooden facade is its natural beauty. While a renewable and sustainable raw material is helping to fight climate change.

Södra creates solutions in wood that meet the demands of Nordic weather conditions, rational construction and modern architecture.

You can read about what we have achieved so far on the following pages.

This is our guide to our exterior and interior materials – and we hope it will answer many of your questions. But first of all, we have a question for you: How do you want to face the future?











Wood is alive, like you and me. That is why wood is different from all other types of popular cladding materials. That is part of its charm – as well as the challenge.

Different woods and how the trees have grown create natural variations in colour and characteristics. The right wood material is therefore an important consideration. But the most important aspect for the durability, safety and appearance of a wooden facade is that the material has received the pre-treatment required by the environment it will face.

The following pages present valuable facts about our heat treatment, flame-retardant treatment,
Signati® treatment and vacuum impregnation. All of these processes create the right conditions for the wood in its new life as exterior or interior cladding.

Heat treatment



As natural as a grass lawn. Heat-treated wood combined with copper or other metal surfaces like zinc create a beautiful and subtle contrasting effect in the cladding.

Heat-treated wood is not affected by the temperature changes that normally cause wood to shrink or swell. Heat-treated wood is therefore ideal for surfaces subject to weather effects, such as facades, decks and terraces. Our heat-treated wood can also be used in a sauna without any problems.

Decori® is the name of our heattreated wood. Several of our woods can be heat-treated, which makes the panels extremely rigid and weather resistant. That eliminates any problems that can be caused by dimensional changes in the wood.

Heat treatment results in a slightly darker colour than the original. To create other tones, we can combine the process with coating or staining, such as Signati® (see page 12), which enables a wide range of colours.

The heat treatment can also be reinforced with flame-retardant treatment. This presents opportunities for even greater creativity – for both exterior and interior cladding.

We offer heat-treated wooden wall panels with three different profiles, which we call Sweden, Norway and Denmark (see page 26).

If you need a customised solution, please don't hesitate to contact us.







Increases the durability of the wood

»

A natural process using heat and steam

»

Ideal for outdoor surfaces such as facades, decks and terraces



Flameretardant treatment



Black sheet metal and various tiles can be combined with flame-retardant wood to create a really solid look.

Most of our products can be supplied with flame-retardant impregnation. This presents opportunities for creativity for both interior and exterior cladding, since we can solve issues where the flammability of untreated wood would otherwise create obstacles.

Flame-retardant wood can be used for a wide range of applications - interior and exterior wall cladding, acoustic sound panels, decorative elements and much more - regardless of the intended function of your building.

Our flame-retardant wood can be painted in any colour and meets the fire safety regulations for most applications. We have a range of solutions

that meet the SP Fire 105 facade fire test standard.

Södra's flame-retardant wood has two different designations - C260 for indoor use, and for outdoor use if the wood is repainted, and C260 Xteriör for outdoor use, where the wood can be left unfinished.



ADVANTAGES OF FLAME-RE-TARDANT WOOD FROM SÖDRA



Major opportunities to use wood where untreated wood does not meet fire safety regulations

»

Can be painted without affecting flame-retardant properties

»

Several of our woods and products can be supplied with flame-retardant impregnation

Signati® treatment



Vibrant grey. Signati® allows the wood to grey naturally over time, bringing life to the facade. Glass partitions are a nice match and, in addition to grey, are available in several other standard colours.

Signati[®] is a unique, water-based stain where good penetrating capacity is combined with a weather-resistant, mineral-reinforced surface layer. This reinforcement eliminates stickiness, while enhancing the colour, rigidity and abrasion resistance.

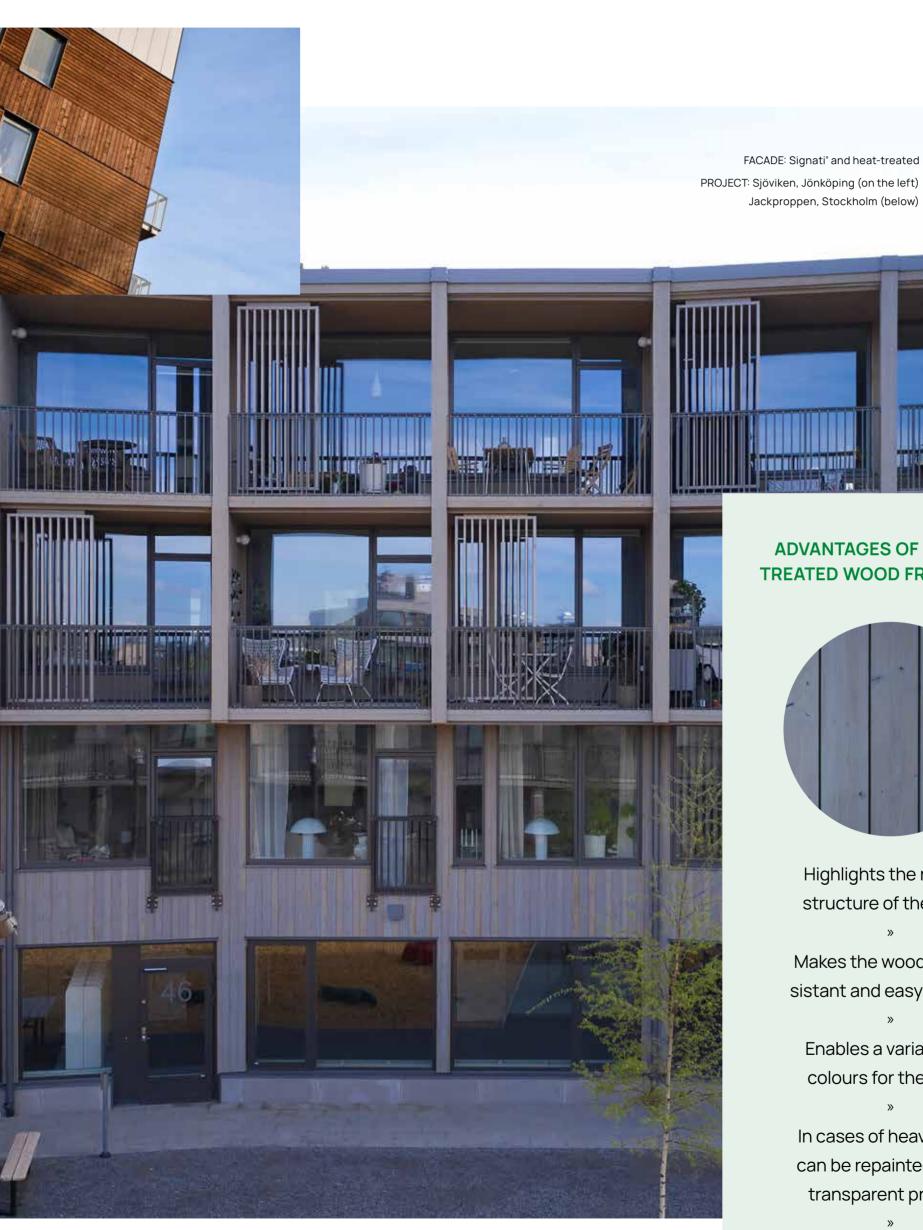
Signati® can be used for all of our woods and works well for both pressure-treated or heat-treated wood. Only two coats are needed to achieve maximum effect.

In addition, Signati® can be used on new pressure-treated wood and is suitable for both decking and cladding. The product is highly flexible and comes in a wide range of colours. Our standard colours are grey, black, brown, white, yellow, red, green and transparent. Don't hesitate to ask about other colours.

Please note, however, that Signati[®]'s colours are not permanent. All colours will turn grey over time. This will allow the natural shades of the wood to emerge.

Signati[®] can be combined with C260 Xteriör (refer to the previous page) if you want a grey facade from when the cladding is installed, for example. The idea then is that Signati® will gradually disappear and allow the natural grey of the wood to emerge.

That will prevent the wood from turning grey with a clear contrast created by shadow angles, or on the north side due to lack of sunlight. The same effect can also be achieved without C260 Xteriör.



ADVANTAGES OF SIGNATI®-TREATED WOOD FROM SÖDRA



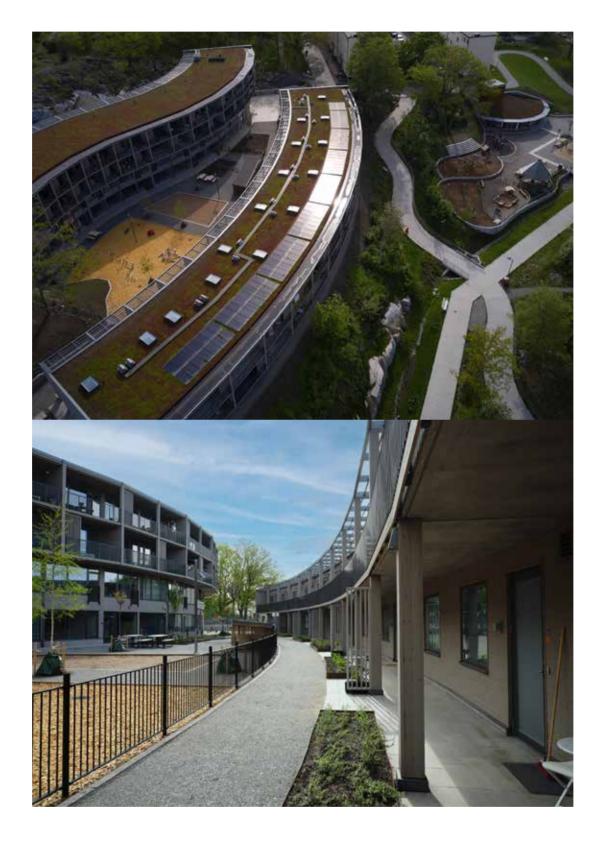
Highlights the natural structure of the wood

Makes the wood dirt-resistant and easy to clean

Enables a variation of colours for the wood

In cases of heavy wear, can be repainted with a transparent product

Easy to manage due to a less slippery surface

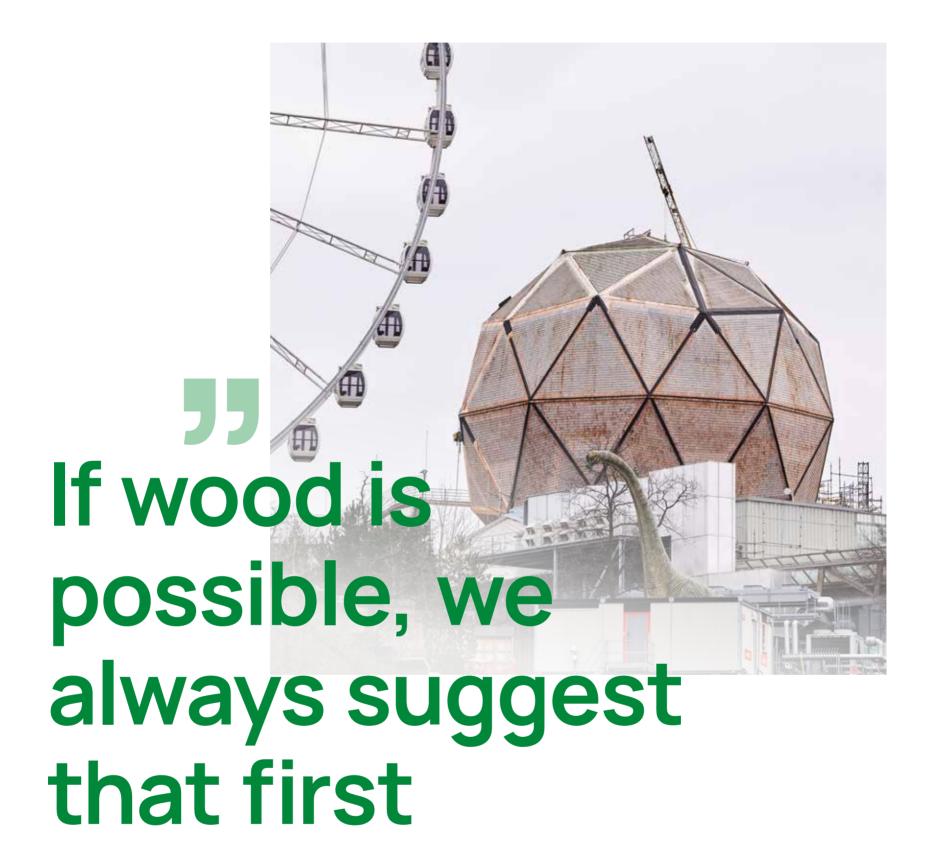


FACADE: Signati* and heat-treated PROJECT: Jackproppen, Stockholm









After decades of concrete, aluminium and glass, yesterday's knowledge of how to build large structures with wood has been lost. Now that wood is considered a lifeline for environmental declarations, the old techniques need to be re-learned.

This is according to Ulrika Davidsson, a construction engineer at Wingårdh Arkitektkontor. Since 1989, Ulrika has been involved in many of Winghårdh's most acclaimed projects – projects that put Sweden on the international architecture map. Combined with Wingårdh's famous mantra "wood is our first choice", we are meeting an expert who can give us both a report on the current situation and a vision for the future when it comes to using wood in construction in Sweden.

We begin the meeting with a brief summary of Ulrika's role as a construction engineer at Wingårdh's and how she ended up where she is today.

"I am pretty much involved in the entire process, from beginning to end. When we are competing for a new project, it's not just about winning. It must also be possible to construct the building. I am involved at first as a sounding board and make sure that we include the technical descriptions that account for the selection of materials – and confirm that the architect's vision is actually feasible. If we are awarded the project, we are usually involved all the way up to the finished building.

After 22 years at the head office in Gothenburg, Ulrika moved to Malmö. Construction of the Wingårdh-designed shopping mall, Emporia, was about to commence, and the client demanded the architectural firm's presence all the way up to inauguration.

After five years, when Emporia was finally finished, Wingårdh decided to invest in a permanent office in Malmö. Ulrika decided to remain in Skåne, and now works with around 30 colleagues in the office in Varvsstaden.

From experiment to policy

"Universeum in Gothenburg was the first project that I was involved in that used wood on a large scale. That led to new and exciting discoveries for the whole office. And that was totally in line with the function

Some 15 years later, Gert Wingårdh introduced the office's current policy - for the sake of the climate, and to challenge the industry. A wood expert with a background in production was also recruited.

of the building.

"We made it our mantra. If it's possible to use wood, we will push wood. Wood is the material of choice for every new project.

It isn't always that easy though, admits Ulrika. From a health and safety perspective, wood makes construction sites drier and less noisy. But the construction industry is not particularly flexible. Better safe than sorry is the usual motto.

"So to help raise knowledge about using wood in construction, I do a lot of research in my work and study old wooden buildings in Sweden in detail. How was a church roof constructed, for example, long before concrete was discovered? You can't find that information in today's manuals, it is pure detective work.

Many of us love wood because it is a living material. But it also requires our love in return.

"One of the most important things to consider in the rational process is that wood moves. That requires a certain sympathy for the material, both on the drawing board and as a builder. You have to let wood be wood, it's as simple as that."

Beyond the icon buildings

"The construction of one of our ongoing projects has just started in Hyllie, outside Malmö. It's an 11-storey office building that will have a Swedish red facade with cedar shingles. No one would have dared to say Yes to that ten years ago.

At the same time, individual icon buildings will never make a major difference from an environmental perspective,"

> says Ulrika. "There won't be any significant shift until wood becomes the first choice for multi-family buildings."

"Kilströmskaj in Karlskrona is a good example of what we want to see more of. Four to five-storey apartment blocks using wood for both the frames and facades. And in our era, where everything has to be measured, and in every way, Ulrika would also like to mention a yardstick with more humanistic characteristics.

"Something that is rarely brought up when speaking about wood is social sustainability. Various surveys have been carried out of people's well-being in different environments - and the results show that we actually feel better when there is wood around us that we can see and touch. It will be interesting to see whether this aspect is used to measure new buildings in the future.

WINGÅRDH ARKITEKTKONTOR



WHO Ulrika Davidsson

WHAT Construction engineer at Wingårdh Arkitektkontor



OK, we don't want to sound too confident now – but we think that Södra can deliver any type of wood cladding that you can expect. Maybe even some that you don't expect.

Every product in our range has been selected to proudly and confidently deliver on its promise – indoors and outdoors, today and tomorrow. We have already presented the various treatments that help us to achieve that on the preceding pages, but the products can also be delivered directly to your construction site, coated and cut to size.

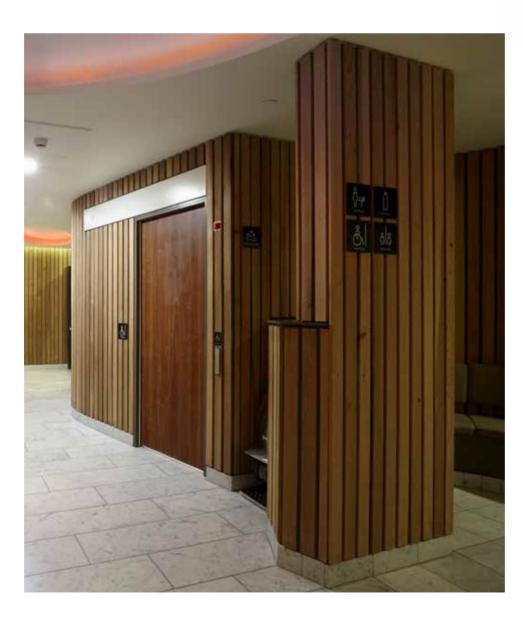
We think that more people should dare to choose wood for facade material and accents. That's why we do everything to ensure that a solution from us satisfies requirements for sustainability, classes of fire, safety and certifications.

As a result, Södra's offering is much more than a facade. And that's good for everyone.

Cedar panels

Cedar is a popular and attractive wood that is weather-resistant, dimensionally stable and naturally rot resistant. These characteristics mean that cedar will age gracefully if left to weather naturally.

The reddish-brown tones of cedar create a beautiful architectural and visual effect in the cityscape. The panels can be installed either horizontally or vertically. Profiles and lengths are offered upon request.



Sand, gravel and cedar. With their resistance to moisture, cedar panels also retain their outstanding dimensional stability in seaside locations. Metals like zinc create a beautiful contrast.

PANELLING: Cedar panels PROJECT: Fisketorvet, Copenhagen



Södra's cedar is only offered in the highest quality, WRC Clear #2. This wood is ideal for exterior cladding and for various types of construction work.

Cedar is naturally resistant to rot, and is one of the most mould-resistant woods.

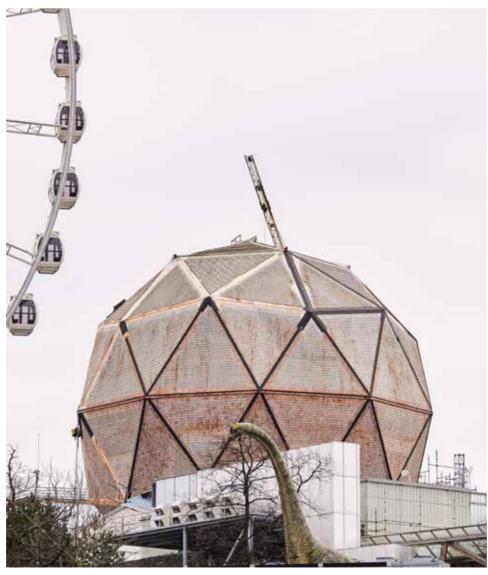
Left untreated, cedar will develop a silver-grey patina over time. The original colour can be retained by regular cleaning and surface treatment.

Södra can supply cedar with any profile or length, such as panels or cedar shingles (see next page) – or in any other form, whatever your needs may be.

Cedar shingles

Cedar shingles can be used to clad exterior walls and roofs. The rectangular profile offers flexibility when creating buildings with a unique expression.





opportunities for unique facades - and other natural materials like sedum roofs create a natural look.

Shingle freely. Cedar shingles create

FACADE: Cedar shingles PROJECT: Universeum, Gothenburg



Cedar is a popular and attractive wood that is weather-resistant, dimensionally stable and naturally rot resistant. These characteristics mean that cedar will age gracefully if left to weather naturally. Södra's cedar is only offered in the highest quality, WRC Clear #2. Please note that wood is a living material and natural variations may occur.

ADVANTAGES OF CEDAR SHINGLES FROM SÖDRA



Weather resistant with natural rot protection

>>

No treatment required

»

Dimensionally stable

»

Virtually knot-free

>>

Sorted as normal wood waste

Decoration

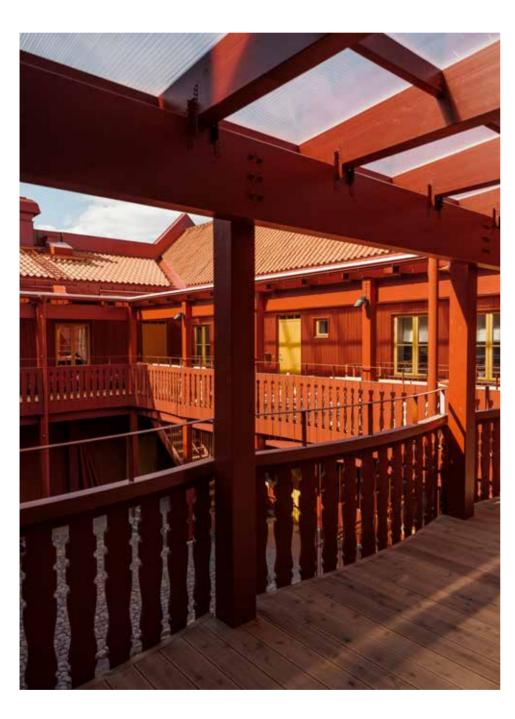
Our joinery workshop in Torsås provides endless opportunities for realising your ideas in wood. External or interior cladding with unique wood appliqués will set your building apart from the crowd – and give it that special feeling that only wood can. Within the regulations for fire, moisture or acoustics, there are no limits to what we can help you create.





PANELLING: Spruce panels with a unique diamond pattern, custom-made balcony columns

PROJECT: Ciselören, Eksjö







Like most of our products, we offer priming and undercoating in our joinery, but recommend a final coat after installation on the site.

Forsellska gården, which was centrally located in the wooden town of Eksjö, was destroyed by a tragic fire in 2015. When reconstructing the building, the appliqués on the facade were an important piece of the puzzle. The wood appliqués we supplied for the reborn building represent details from Eksjö's architectural heritage and take the beholder back in time.

PANELLING: Spruce panels and custom solutions

PROJECT: Ciselören, Eksjö

Profiles

Södra's three standard profiles are made with our glulam panels. Unlike many others, our glulam panels contain an extra lamella to keep the panels straighter. The profiles can be used for exterior cladding and installed at any time of the year due to the durability of the glulam.

Profile Denmark





Profile Sweden





Profile Denmark: Best installed as horizontal panelling.



Profile Norway: Can only be installed as vertical panelling.



Profile Sweden: Can be installed as both horizontal and vertical panelling.



The profiles are available in many different types of wood, combined with our treatments and coated colours. To avoid unnecessary exposure to weather and wind, the profiles can be primed and undercoated before delivery to the construction site. In order to avoid any colour differences

on the facade, however, we recommend a final coat after installation.

Södra's profiles are end-matched, which means they can always be joined. This helps to create a smooth process, which saves both time and money. The profiles can be used for both low and high-rise buildings – and a mix of horizontal and vertical panels brings life to the facade. We can also offer other profiles for your projects.

Glulam panels

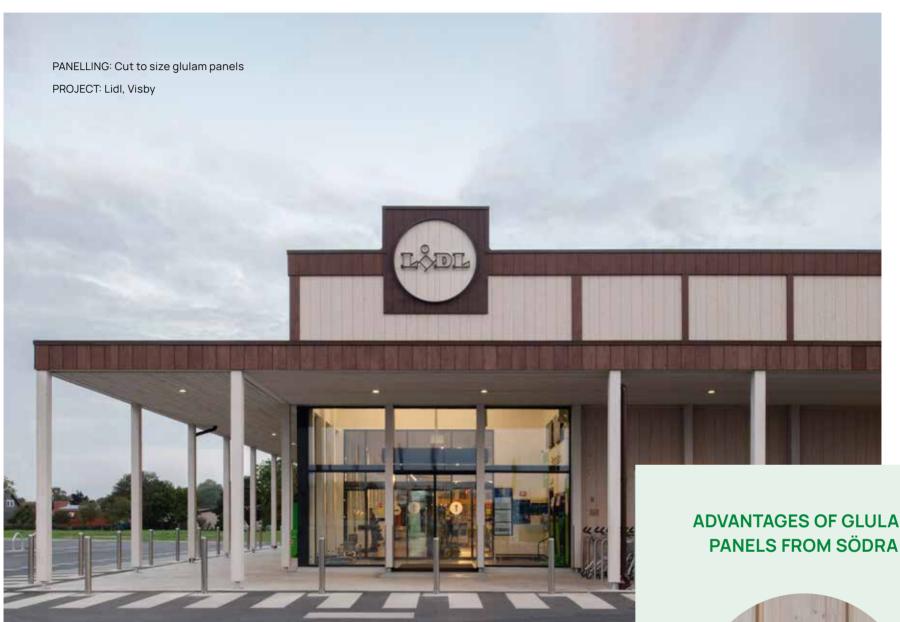
Glulam is a smart financial choice due to its durability and dimensional stability. An external glulam panel is broad, dimensionally stable and easy to install, which saves both time and money. It can also be delivered primed and undercoated, which makes installation possible at any time of the year.



Facades for the future. We want to make glulam panels as popular as brick, sheet metal and stone.



PANELLING: Glulam panels in spruce, flame-retardant, coated and cut to size PROJECT: Lunden neighbourhood, Eksjö



An unfinished glulam panel is ideal for interior projects, but requires some type of surface treatment for exterior use.

With a suitable type of surface treatment, glulam panels are highly resilient and will retain their original properties for a long time in shifting weather conditions. The service life of the panels without any maintenance depends on the climate and the position of the facade. If the facade is subject to extreme conditions, the choice

of surface treatment should be carefully considered.

Our coated glulam panels for exterior cladding are third-party controlled to ensure the quality of the coating and that the Swedish raw material maintains consistent and high quality.

We can supply primed and undercoated glulam panels in any NCS standard colour. The panels can therefore be installed at any time of year and only need a final coat within 12 months of the installation.

ADVANTAGES OF GLULAM



Dimensionally stable and durable over time

Easy to install

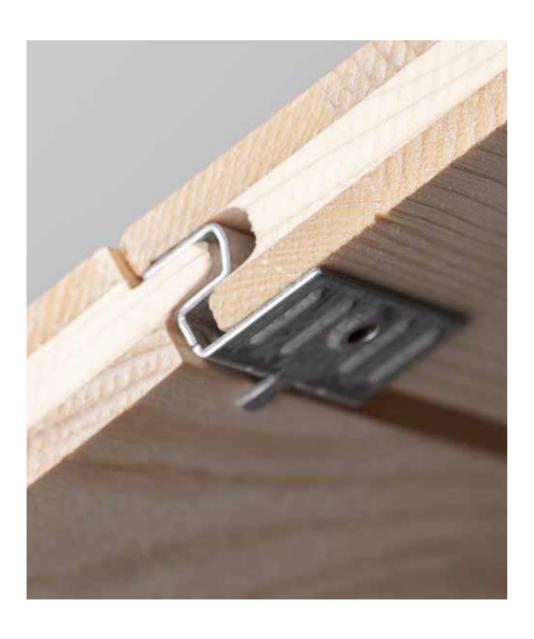
Consistent and high quality

No unnecessary waste

Outdoor installation at any time of year with priming and undercoating

Frontwood®

Frontwood® is a solid wood board made of three layers of spruce. The board creates a natural, clean and stylish look and can also be flame-retardant impregnated, heat-treated, stained and treated in many other ways. It provides opportunities for a wide range of creative applications, both exterior and interior.





Expressions that are growing. Sheet metal with precise geometric patterns can create an interesting effect when combined with the living lines of the wood.

FRONTWOOD® FASTENINGS

- » Tongue-and-groove Frontwood® with screw or nail fastenings.
- » Frontwood® solid 3-layer board with screw or nail fastenings.
- » Frontwood® 3-layer board with hidden clips (image on left).



ADVANTAGES OF FRONTWOOD® FROM SÖDRA



Stable, resilient and relatively low-weight

»

Easy to work and durable material with minimal cracking

»

Natural and sustainable building material

»

A range of surface and edge treatments are possible

Frontwood* is an easy-to-work building material with a relatively low weight, as well as stable, resilient and less prone to cracking. In addition, the material is natural, sustainable and biologically sound. While a surface treatment is not necessary, most of Södra's surface treatments can be used, as well as edge treatments – in line with your project's needs.

In order to maintain a visually clean surface of just wood, Frontwood® can be installed with clips. Södra offers a standard size that matches the beams.

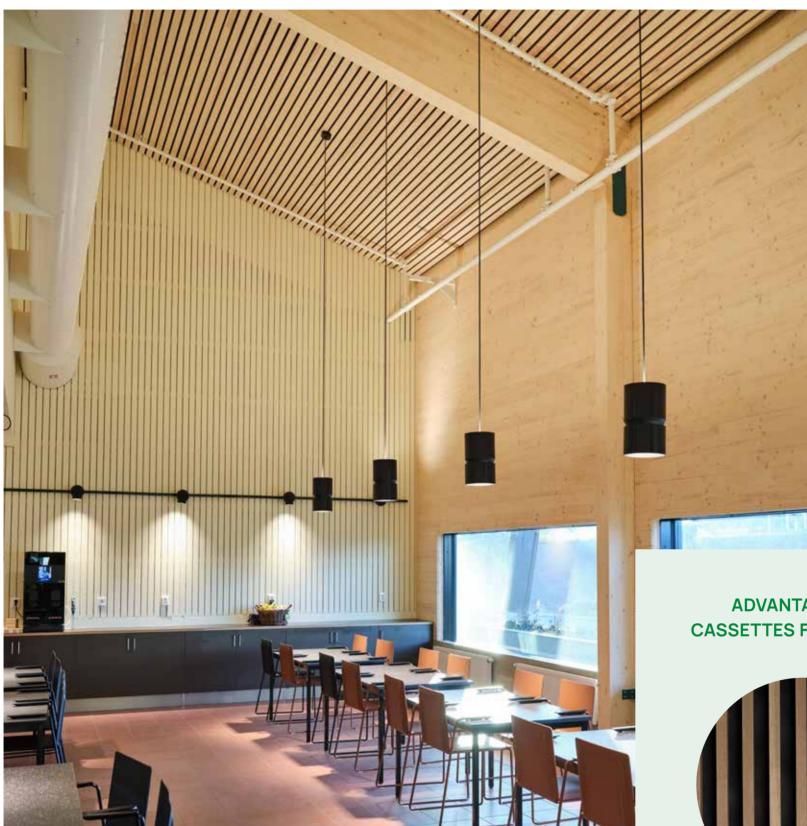
Cassettes

Södra's cassettes are elements of wooden slats that are assembled to create a system solution. That saves time and space at the construction site and makes installation easier and more efficient. At the same time, the end result is a neat and stylish look.



Stripes and squares. Why not let the flooring material form a calm and uniformly coloured contrast to the linear effect of the slats on the walls and ceiling





Our cassettes are designed to match their intended setting, and to meet customer requirements. The cassettes can therefore look very different, depending on the type of wood, lengths, dimensions and any insulation.

How they are suspended also depends on the conditions of the setting in which they are installed, and whether they are supplied with or without insulation. The suspension method is decided in consultation between Södra and the customer prior to pre-assembly of the element in our facility. That avoids any confusion on the construction site.

ADVANTAGES OF CASSETTES FROM SÖDRA



Major flexibility in terms of environment requirements and requests

A system solution that saves time and space in construction

A neat and stylish look

