NORDISK PROFIL®

EN

WOODFAC PANEL
FACADE SYSTEM

CONTENTS

STYLISH FACADES WITH A LOW CARBON FOOTPRINT

FACADES WITH OPTIONAL DESIGN

Nordisk Profil is a manufacturer and supplier of patented Danish facade systems that enhance architectural freedom and set new standards for building facades.

With 30 years of experience, we take pride in creating customized and unique facades that transform urban landscapes and contribute to sustainable, climate-friendly, and, above all, fire-safe construction.

We specialise in modular facade solutions for all types of construction, both renovation and new builds, and offer a flexible concept that can be tailored to all kinds of requests and needs.

COMPLETE SOLUTION

At Nordisk Profil, you receive comprehensive advice to ensure that you choose the best facade solution for your project.

You're not just buying facade cladding. You're purchasing complete facade systems that are ready for installation, taking into account the facade's elements and design.

With a focus on delivering exclusive facade solutions, all produced in Denmark, we ensure the highest quality with full control over the entire value chain, from raw material procurement to delivery to the customer.

OUR PRINCIPLE IS SIMPLE

Freedom to choose
Let your fantasy guide and create something extraordinary

A FUTURE-SAFE FACADE CHOICE

SET HIGH STANDARDS

The core idea behind Nordisk Profil's facade cladding is to provide custom facade solutions that make it possible to transform all types of building projects into beautiful architectural masterpieces.

We build with a focus on sustainability, fire safety, and the ability to strike a good balance between the client's vision, needs, technical requirements, and budget.

Our facades are for those who demand high standards for the final product, wish to build responsibly, and expect a future-proof facade of the highest quality.

Quality products are like an investment that stands the test of time.

UNIQUE QUALITIES

- Fire end-use classification tested and approved according to EN 13501-1
- 100% collected and reused aluminium
- Maintenance-free
- Modular and optional design
- No visible screws or transitions
- Built-in thermal movement
- Quick and easy installation

WOODFAC PANEL LAMELLAE CLADDING

THE RIGHT CHOICE

Stricter legal requirements for the climate footprint of construction, demand action. The CO_2 footprint must be reduced, and the choice of materials play a key role in this.

Using wood as the primary facade material can be one way to achieve significant CO_2 savings. Combined with recycled aluminium, this creates a highly climate-friendly facade product.

At Nordisk Profil, you are therefore guaranteed facade systems designed with care, all of which leave a green footprint and are documented with the best EPD values.

This applies to materials like Greenline® aluminium with a CO_2 footprint of only 1.8 kg CO_2-eq/kg, certified wood, sustainable fire retardants, and modular systems that can easily be expanded or repurposed for other uses.

Replace conventional building materials with wood and help reduce the construction industry's climate footprint.

WOODFAC PANEL

Woodfac Panel is a unique, climate-friendly, and fire-safe solution.

The facade system is a closed system that functions as an effective climate screen and protects the building from weather influences while allowing the facade to retain its breathability through the underlying ventilation.

Woodfac is produced with optional wooden lamellae on a backing structure made of recycled aluminium.

The system offers a wide range of accessory profiles for finishes and framing around doors and windows, making it easy to achieve a complete facade solution.

The panels can be installed both horizontally and vertically, with a variable center-to-center distance.

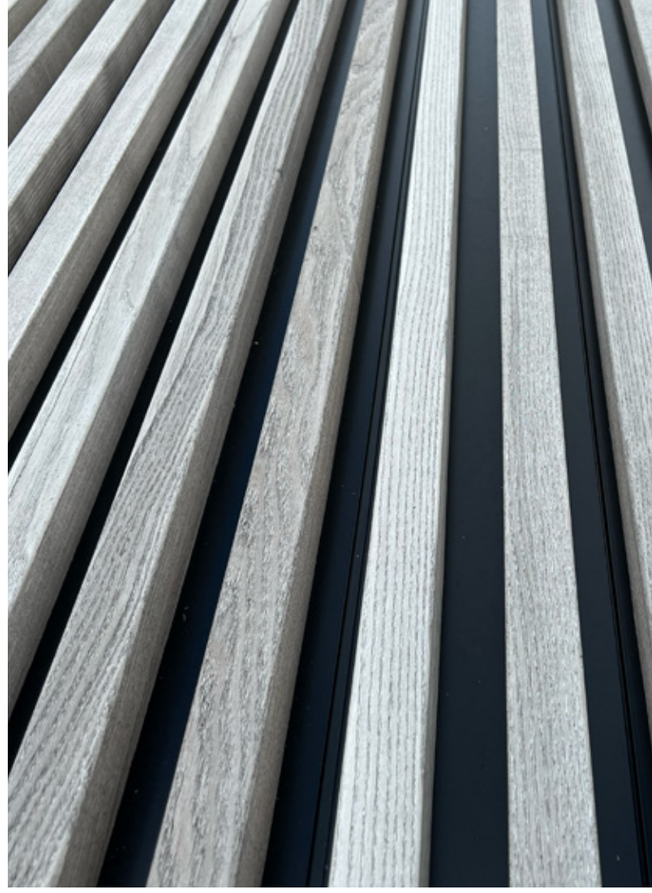
Read more about recommended wood types, installation, and the system's possibilities on the following pages, and discover how easily Woodfac Panel can be adapted to your project.

FACADE SYSTEMS WITH CE-CERTIFICATE

As a customer, you can build safely and sensibly with facade systems from Nordisk Profil, and are always guaranteed that your products are manufactured in accordance with applicable legislation.

Our fire-approved facade systems are CE marked, ensuring they meet the highest European standards for safety and quality.

CE



PREPATINATION

Thermally treated wood is influenced by its surrounding environment and will, over time, develop a patina, transforming into more grayish tones and shades.

Nordisk Profil offers natural pre-patination to give the facade a uniform weathered look from the moment the facade system is installed.

Get in touch to learn more.

OPTIONAL WOOD LAMELLAE

WHAT IS YOUR DESIRED LOOK?

The natural beauty and unique grain of wood create an aesthetically warm and inviting look, naturally integrating the building with its surroundings.

Wood is a versatile material that can be adapted to various architectural styles depending on the choice of wood.

Nordisk Profil recommends five wood species based on longevity, dimensional stability, and fire resistance:

- THERMO ASH
- THERMO PINE
- WESTERN RED CEDAR
- THERMO AYOUS
- ACCOYA

See table about the different wood types.

Nordisk Profil has fire technical documentation on different wood species that have all been end-use classification tested and passed in regards to EN 13501-1.

GREEN QUALITY

Nordisk Profil does not compromise on materials or quality, and continuously strives to make a positive environmental impact by selecting documented components that ensure the best conditions for the climate and environment.

This ensures that, regardless of your choice of wood for the facade, you receive FSC® or PEFC™ certified wood with traceability and legality throughout the entire value chain.

Additionally, only the most sustainable fire retardant is used for wood impregnation. You can read more about this on page 45.

	Average density	Shape stability	Duration class* EN 335	Minimum life expectancy**	System fire-class (end-use)
THERMO ASH 	617 kg/m^3	High	1	+50 years	B-s1,d0
THERMO PINE 	432 kg/m^3	Very high	2	+30 years	B-s2,d0
THERMO PINE PREMIUM 	432 kg/m^3	Very high	2	+30 years	B-s2,d0
WESTERN RED CEDAR 	465 kg/m^3	Very high	2	+30 years	B-s2,d0
THERMO AYOUS 	323 kg/m^3	Very high	2	+30 years	B-s2,d0
ACCOYA* ** 	525 kg/m^3	Very high	1	+50 years	D-s2,d2

* Durability classes for wood are graded from 1-5. Durability class 1 is the highest, with class 5 being the lowest.

** Minimum expected lifetimes for vertically mounted lamellae, installed with Nordisk Profil's system solution.

*** Accoya® is FSC® and Cradle to Cradle Gold certified, as well as holding a Nordic Swan Ecolabel. Accoya has a guaranteed durability for +50 years above ground and 25 years in soil/underwater. The Accoya wood is from sustainable sources, CO_2 neutral, and 100% recyclable.

Contact us if you want our facade solution with other wood species.

INSTALLATION OF THE FACADE SYSTEM

UNIQUE PLUG AND PLAY SYSTEM THAT MAKES INSTALLATION EASY

Woodfac Panel is like building with LEGO. The facade system offers countless creative combinations, is easy to handle, and delivers a precise, sharp look.

The straightforward handling and easy installation consist of only three components that are assembled in just three steps.

The result is durable and entirely free of visible screws, giving the facade an elegant finish. If future expansion of the facade is needed, it can be done just as easily, without visible transitions or other technical challenges.

THE SYSTEMS THREE COMPONENTS

1. ALU PANEL

Panels in Greenline aluminium with pre-punched mounting holes

2. WOOD LAMELLA

Lamellae in optional lengths and variable cc distances

3. MOUNTING SCREW

Set-up with mounting screw

DOORS & WINDOWS

When installing the facade system around window and door openings, it is important to begin the installation with the placement of rebate profiles.

Read more about this on page 23.

THE SYSTEMS THREE STEPS

1. MOUNT

The installation of the Woodfac Panel begins by securing a starter profile to a ventilated HAT profile or another substrate with equivalent ventilation.

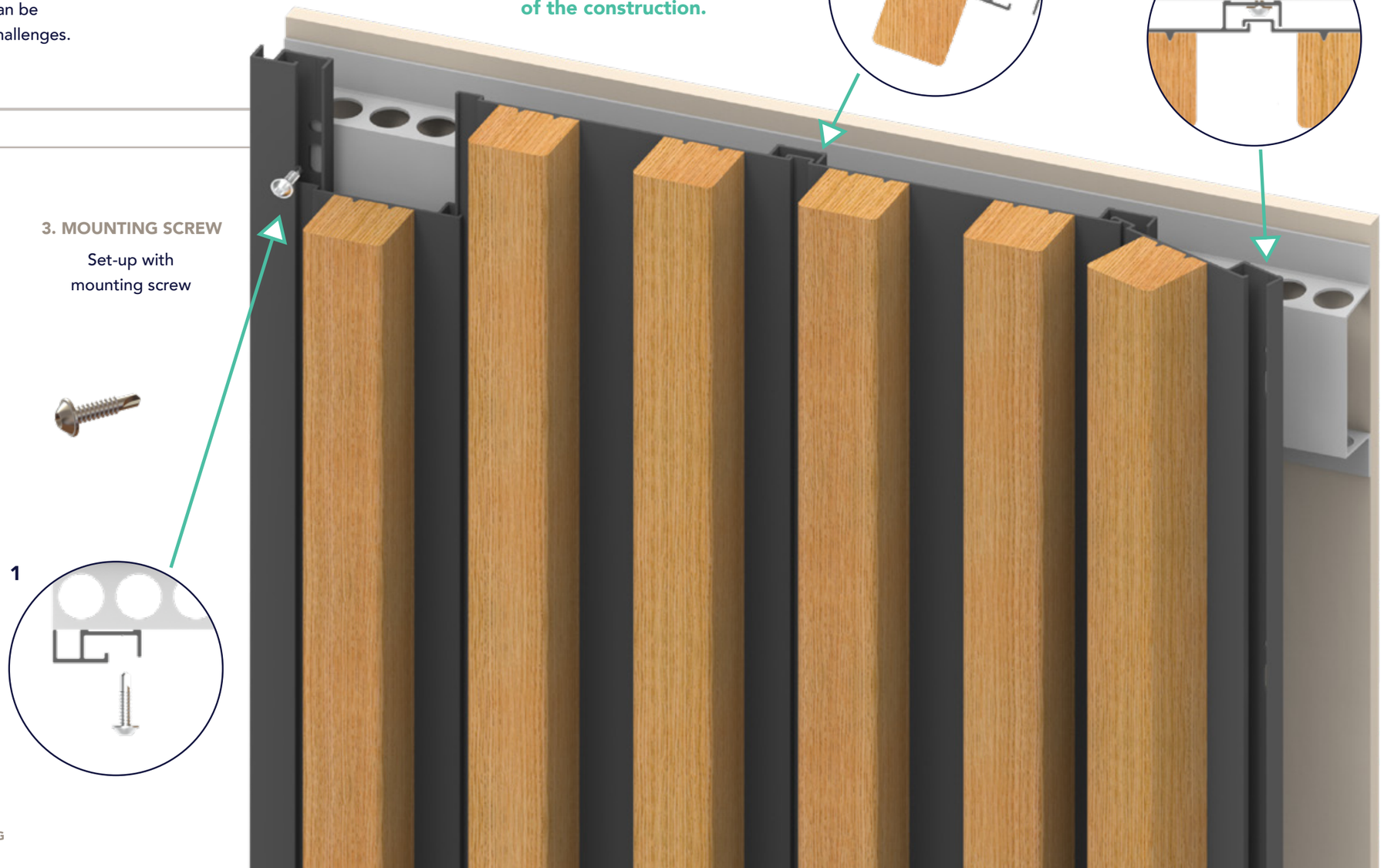
The facade system is developed with space for thermal movement, with full control over all components of the construction.

2. CLICK

The panel is angled into the previous connection and initially pulled to the right for maximum coverage width. Then, the panel is tilted in one smooth motion towards the mounting profile – 'click'.

3. FIX

Once the panel is installed, it is secured with a stainless steel mounting screw. Be sure to position the thermal zero point consistently across all panels, as they are designed to accommodate thermal movement.



HAT PROFILE FOR THE PANEL SYSTEM

ONE COMPLETE SOLUTION

Woodfac Panel can be mounted with ventilated HAT profiles or a similar suspension system.

It is not a requirement to use Nordisk Profil's HAT profiles, but if you want a complete solution ready for installation, it is easy and straightforward.

However, you also gain several advantages by using our system-adapted HAT profiles:

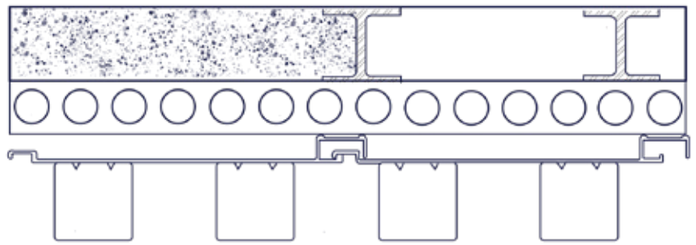
- Perfect fit for the system solution
- Lightweight profile made from collected and recycled aluminium
- Profile thickness of 1.8 mm ensures strong pull-out resistance
- Delivered in fixed lengths up to 7.5 m
- Choice of colour and surface treatment
- No corrosion between metals

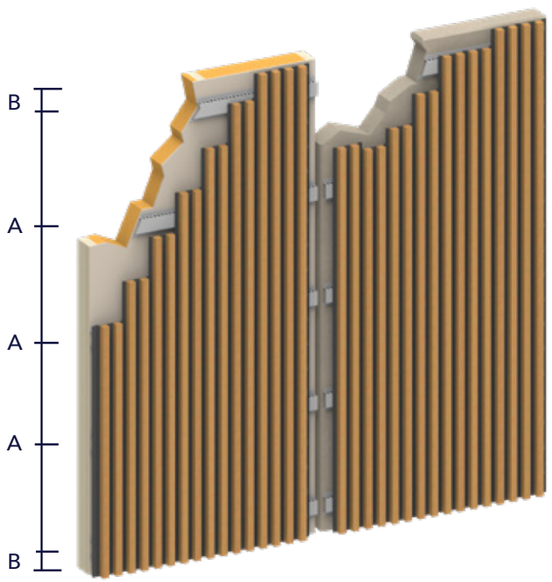
RESIDENTIAL: **SOMMERFUGLEPARKEN**
ARCHITECTS: **LEVEHUSE AND SWECO ARCHITECTS**

WOODFAC PANEL ON LOAD-BEARING FACADES

NO LIMITATIONS

Woodfac Panel is installed on supporting structures, typically made of steel or concrete. However, the facade's supporting material is not limited, as long as the HAT profile can be securely attached to the supporting structure.





THE FREE SPAN OF THE PANELS

There are requirements for the panels' free span, which always depend on the wood type, the lamellae dimensions, and the overall construction of the facade.

A = The free span between the panels' fixation to the supporting profile is typically 500 mm by default.

B = The free span from the center of the outermost load-bearing profile (HAT profile) to the edge of the panel must be a maximum of 250 mm.

CREATE UNIQUE FACADES WITH CURVED SOLUTIONS

Organic forms create a harmonious balance between form and function. They have the ability to transform any building into an architectural gem.

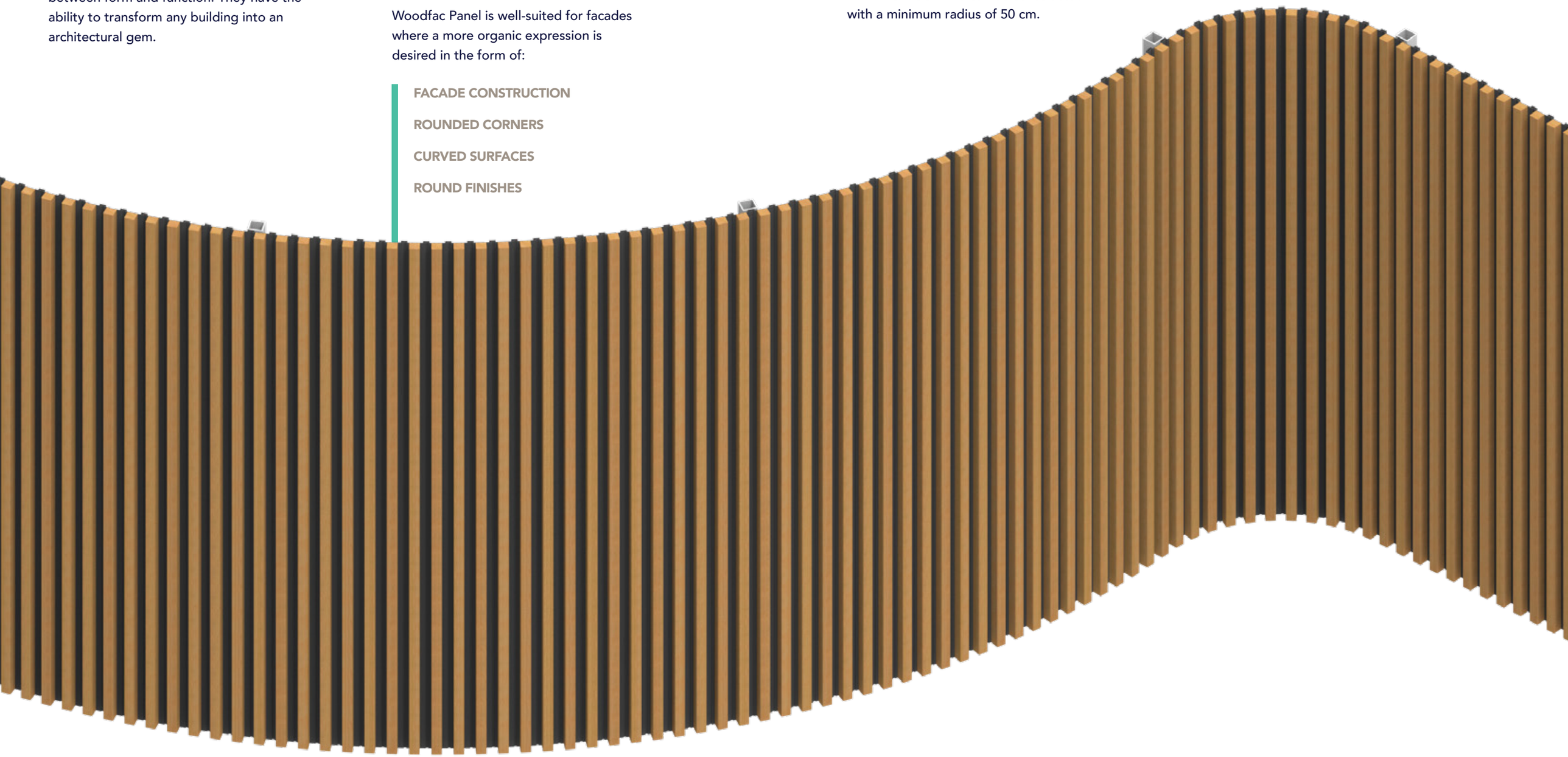
Woodfac Panel is well-suited for facades where a more organic expression is desired in the form of:

- FACADE CONSTRUCTION
- ROUNDED CORNERS
- CURVED SURFACES
- ROUND FINISHES

DESIGN OPTIONS

EXTERIOR CURVES can be constructed with a minimum radius of 500 cm.

INTERIOR CURVES can be constructed with a minimum radius of 50 cm.



HOTEL: **COMWELL MIDDELFART**
ARCHITECT: **AFRY**

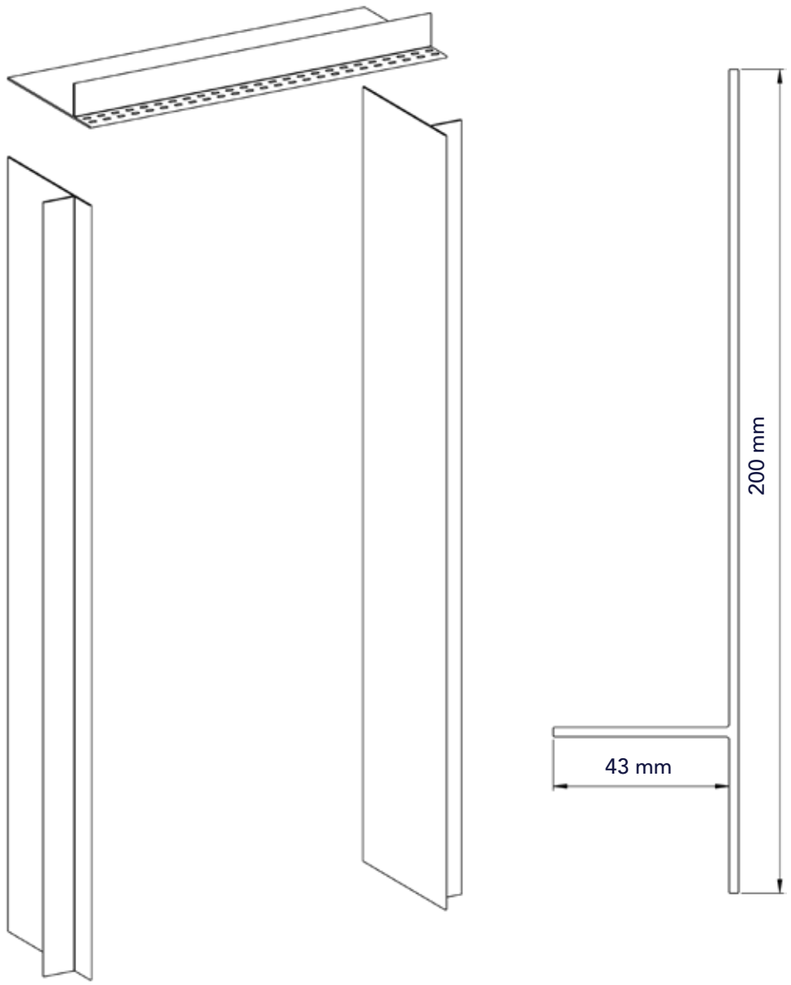
UNIVERSAL REBATE PROFILE

2-IN-1 PROFILE FOR DOORS & WINDOWS

The universal rebate profile functions both as a side rebate and top rebate around doors and windows. The profile has the same design, but with the variation that the top rebate is adapted with punched holes for ventilation and drainage.

SIDE REBATE: A rebate profile without perforations

TOP REBATE: A rebate profile with punched holes



INSTALLATION

STEP 1: MEASURING AND CUTTING

Rebate profile (side and top) is measured and cut to the desired lengths.

STEP 2: INSTALL TOP REBATE

The top rebate is installed and runs from edge to edge.

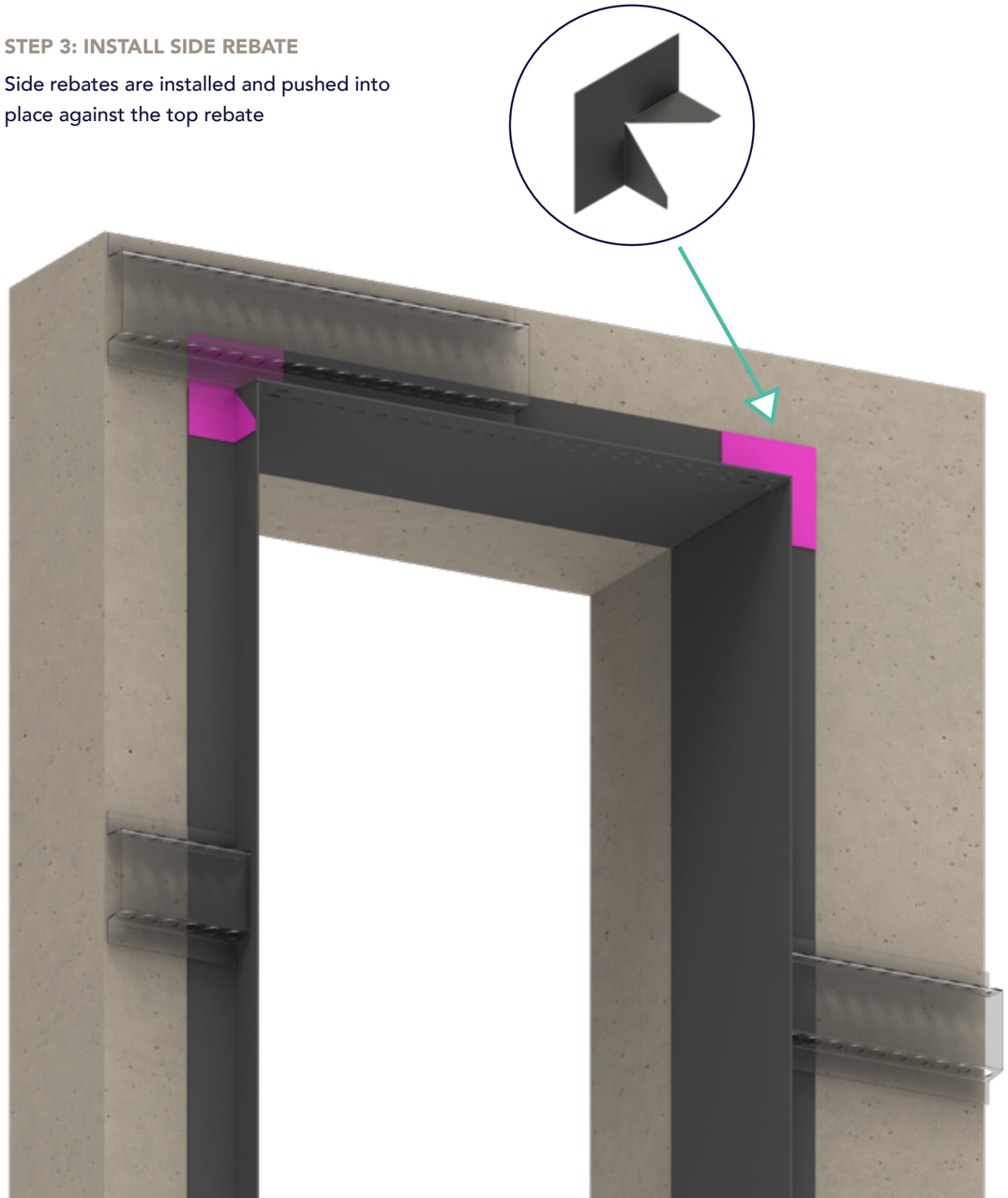
STEP 3: INSTALL SIDE REBATE

Side rebates are installed and pushed into place against the top rebate

STEP 4: CORNER BEND

At the joints between the top and side rebates, a corner bracket is installed to ensure a wind and waterproof seal in the external sealing layer.

After this, the installation of the facade system itself can begin. You can read more about this on page 11.

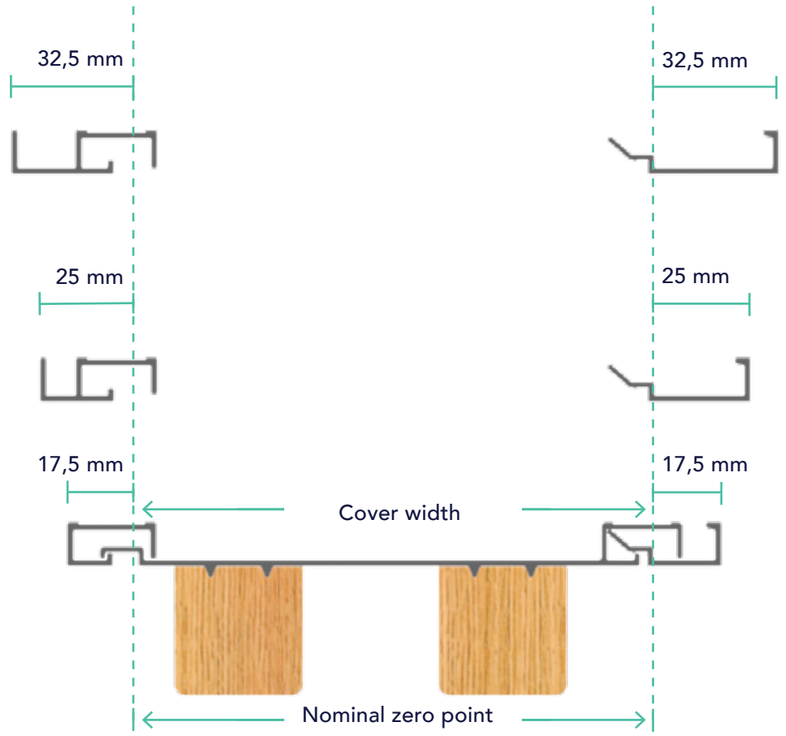


START AND END PROFILES

VARIABLE ADJUSTMENT

Woodfac Panel makes it easy to design and adjust with different tolerances, depending on the structure of the facade.

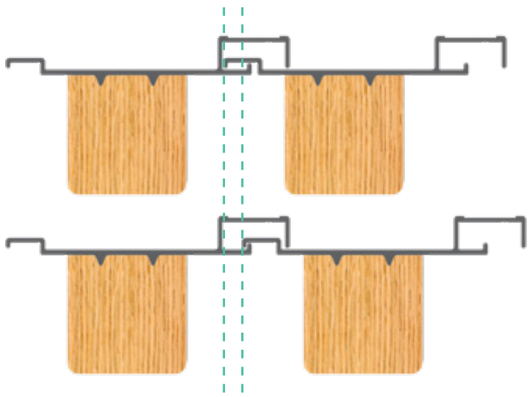
The system offers start and end profiles in three different dimensions, making it easy to complete the installation with an elegant finish.



ADJUSTMENTS AND COVER WIDTH

ADJUSTMENTS

The system's flexibility allows the panels to be adjusted by up to 5.5 mm per joint. This ensures precise alignment and easier installation.



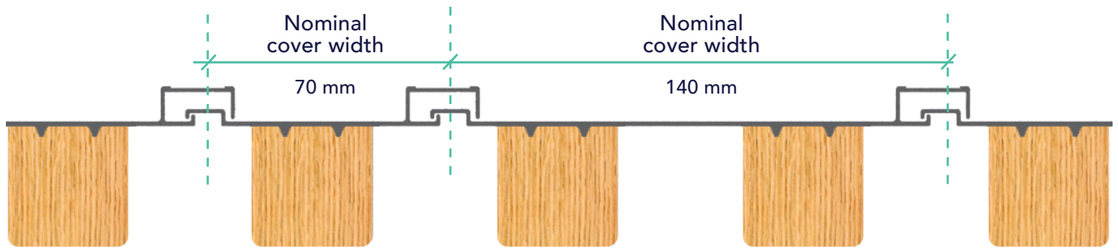
If you would like to see the different profile drawings of the facade system, feel free to contact us.

COVER WIDTH

Typically, the panel's cover width corresponds to the center-to-center (cc) distance of the lamellae.

For example, a system solution with a cc distance of 70 mm will have a nominal cover width of 70 mm for a single panel and 140 mm for a double panel.

However, the design is flexible, allowing you to achieve the exact cc distance that suits your facade project.



CORNERS AND TRANSITIONS

CORNERS

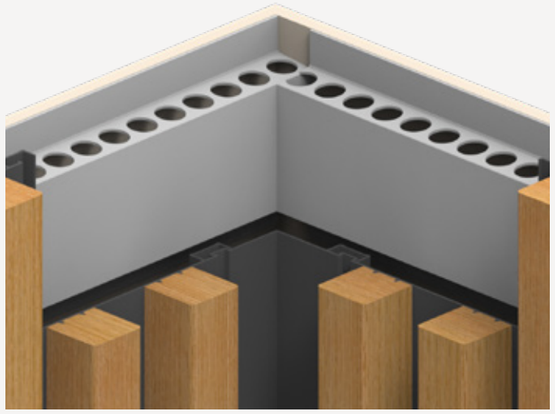
For each facade project, it is important to handle details such as corner solutions, section divisions, and transitions with respect for both design, thermal movement, and necessary fire safety requirements.

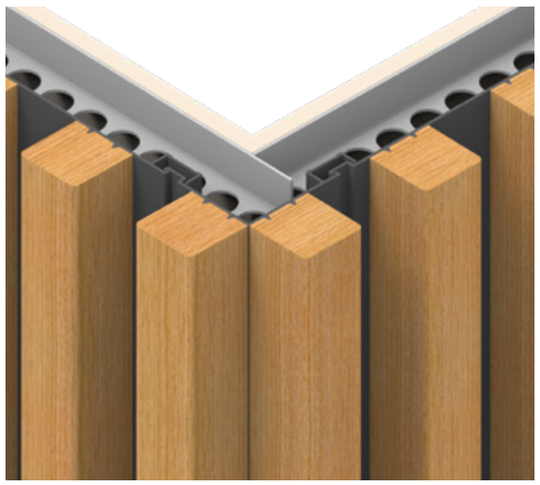
The Woodfac Panel facade system takes these aspects into account, ensuring a complete and high-quality solution.

INTERNAL CORNER

It is ensured that the individual details, as well as the center-to-center distance, in and around the corners, are sharp and consistent across the entire facade solution.

For each specific center-to-center (cc) spacing, a system-matched internal corner profile is available. This profile does not have lamellae.





EXTERNAL CORNER

For each specific cc spacing, a system-matched corner profile with lamellae is available. The external corner features lamellae.

HORIZONTAL TRANSITIONS

In horizontal transitions, it is important to consider the individual components and materials of the facade solution, as these have different expansion coefficients. The transitions must allow space for individual thermal movement.

TRANSITION WITH CONTINUOUS ALUMINIUM PANEL

When the facade solution requires a horizontal division, it is usually due to the design, technical requirements, or limitations in the length of the wooden lamellae.

Aluminium panels can generally be delivered in the full height of the sections (up to 7.5 meters), so transitions can typically be resolved with a climate shield where the panels are not divided.

TRANSITION WITH SPLIT ALUMINIUM PANEL

If the panel needs to be divided, a weather-resistant EPDM strip or similar should be installed over the underlying HAT profile. This ensures a tight joint between the individual aluminium panels.

THE SYSTEM'S ZIPPER

EASY POSSIBILITY FOR SEPARATION

For larger facade areas, it is important to have a solution that makes it easy to manage damages, etc., and replace individual facade elements.

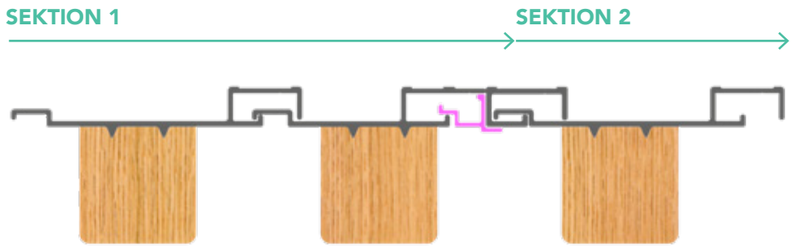
Here, the facade system's integrated 'zip' offers an effective solution. With the zip, the facade can be divided into sections that can be quickly and easily separated – without the need to dismantle the entire facade.

INSTALLATION

When the facade is divided, the tailored single profile is inserted.

Once section 2 begins with a start profile, the zip is then mounted between section 1 and section 2.

It's straightforward, and you can quickly move on to the next section.



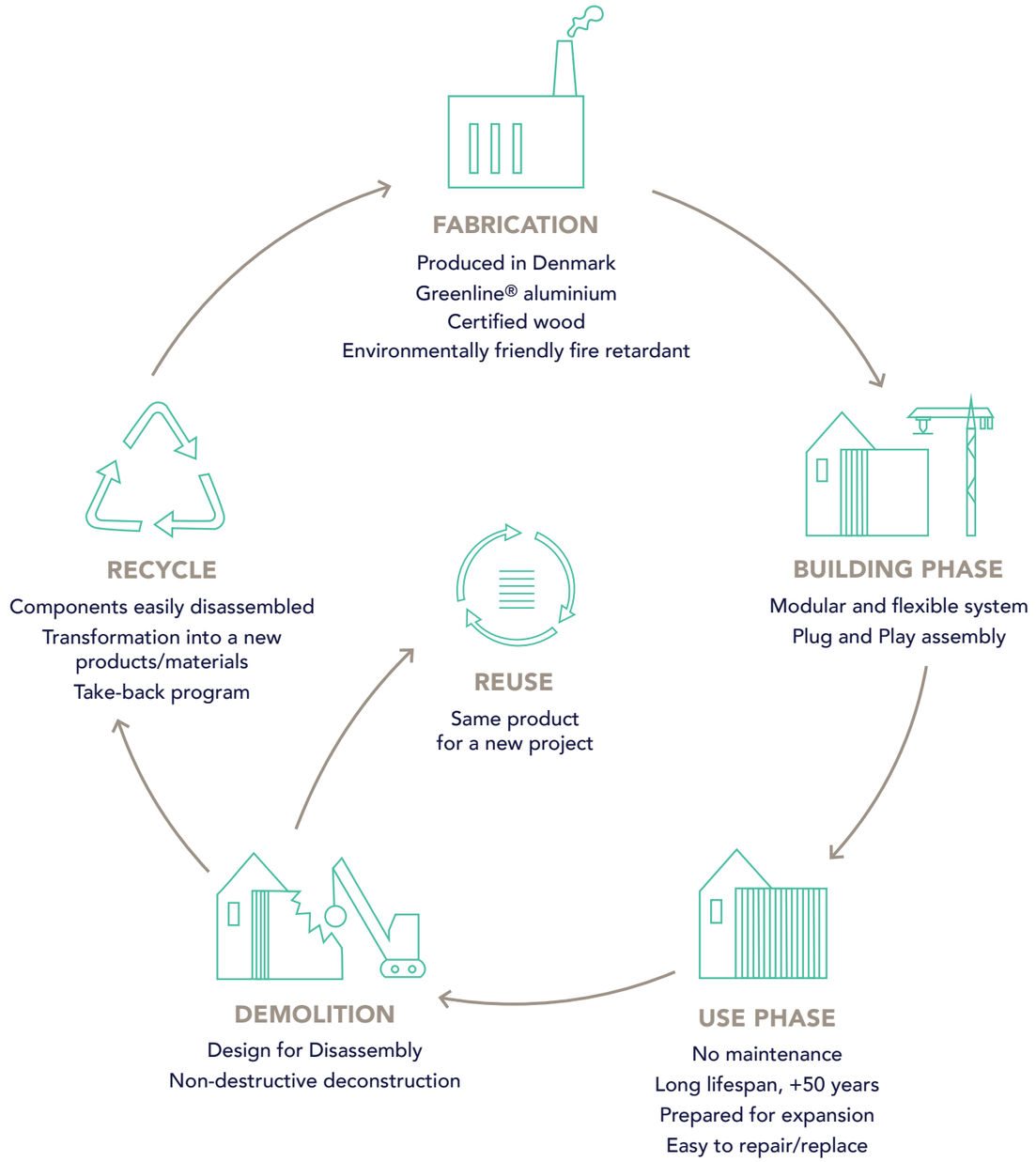
HOUSING: **HERMODSGADE**
ARCHITECT: **HOLSCHER NORDBERG**

OUR GREEN FOOTPRINT

As a manufacturer and supplier of facade solutions, we see it as our responsibility to contribute to sustainable development in the construction industry with a focus on the environment.

We are focused on being a leader in proper and responsible facade solutions, with a strong emphasis on the products' lifecycle.

We guarantee CE-marked products that are flexible, modular, and recyclable – with ample opportunities for transformation to other purposes. We only offer a facade range with sustainable, circular, and well-documented properties.



Read about the individual phases on the following pages.

THE PRODUCT'S CLIMATE-CONSCIOUS LIFECYCLE

FABRICATION

Woodfac Panel is manufactured from top-quality materials with a strong focus on environmental and climate considerations.

The systems construction, profiles, and lamellae are made exclusively from Greenline aluminium, which is 100% collected and recycled. Greenline has a very low CO_2 footprint of only 1.8 CO_2-eq/kg. compared to primary aluminium at 11.1.

Wood lamellae are made solely from FSC® or PEFC™ certified wood, ensuring responsible and sustainable forestry.

For fireproofing the wood lamellae, we use a Cradle to Cradle-certified flame retardant, which is made from 100% natural substances, free from toxins and VOC emissions, and is 100% biodegradable.

Production and preparation in Denmark.

BUILDING PHASE

The facade solution is customized and tailored to each individual customer and building project, ensuring minimal waste.

It is designed as a modular system with large design freedom and flexibility. Modular elements make it easy to expand and adapt the facade for future use.

Key features of the facade system includes easy, fast, and quality-assured installation thanks to the unique Plug and Play mounting system, which ensures a high level of detail.

USE PHASE

The facade system requires minimal maintenance and has a lifespan of at least +30-50 years.

The thermal treatment of the wood lamellae helps ensure dimensional stability and long lifespan. Aluminium is renowned for its exceptional durability, with 70% still in its original form.

The modular facade system is designed to handle facade repairs without visible transitions and allows for the addition of extra lamellae cladding from Nordisk Profil.

Nordisk Profil deliver Greenline certification and EPD reports that document a low climate footprint and the markets best EPD values.

DEMOLITION RECYCLE REUSE

It is essential for Nordisk Profil to offer products that can easily be disassembled and repurposed for other projects and purposes.

With the design principle 'Design for Disassembly', the facade system is designed and assembled to allow for easy separation of each individual component.

All components can therefore be dismantled and reused for other purposes, and the facade cladding can also be disassembled and reused 1:1 for a new building project.

In case of demolition, Nordisk Profil offers a take-back program, including collection and recycling.

GREENLINE ALUMINIUM

CO_2 footprint is only 1.8 kg CO_2-eq/kg.

SHOP: **MENY SØNDERVIG**
ARCHITECT: **BAY ARCH ARKITEKTER**

YOUR FIRE-TECHNICAL SPARRING PARTNER

GET CONTROL OF PASSIVE FIRE PROTECTION

Nordisk Profil offer professional advice about choices regarding a facade right from the initial idea to the installed facade, and ensures that you operate in accordance with legislation and fire safety requirements.

We know how important it is to have control of the fire technical requirements, as they often determine material choice, dimensions, design and budget.

That is why we are more than just your facade supplier!

We are also available as your fire technical sparring partner that advises on fire strategy for a facade project, and help ensure the passive fire protection in the initial phase.

Facade solutions from Nordisk Profil are delivered with full documentation according to fire (end-use classification test), sustainability (EPD, VOC) and durability (EN 16755).

We assist in identifying opportunities and variables for facade cladding in relation to applicable building regulations and provide guidance on necessary fire safety documentation, including pre-accepted solutions, comparative analysis, fire safety dimensioning, and preliminary fire testing.

GET ADVICE AND GUIDANCE ON

- Fire strategy report
- Material selection and design with regard to fire class requirement
- Fire technical rules and options for the main facade and climate shield
- Facade cladding options and variables with regard to European Standards, EN 14915

FIRE-APPROVED FACADE SOLUTIONS

YOUR GUARANTEE FOR QUALITY AND SAFETY

As the leading producer and supplier of wood facades, Nordisk Profil fulfills the requirements of European standards in regards to EN 14915.

This means that our wooden facades comply with all necessary harmonised standards and meet the requirements and regulations for external facade cladding, which include:

THIRD-PARTY SAMPLING
Independent sampling to ensure consistent quality

CLASSIFICATION REPORT
Documentation of products' performance

MONITORING AND CONTROL
Continuous monitoring of products conducted by a notified third-party organisation

FIRE-SAFE FACADE CLADDING

At Nordisk Profil you get a facade system fully fire-technically approved and documented that coheres with international standards.

Lamellae cladding that is end-use tested and documented in regards to EN 13501-1 after standard EN 13823.

Read more about wood lamellae durability and how it is tested on the following pages.

Woodfac is therefore a facade solution that lives up to the fire-technical requirements EN 14915 and is the only facade system on the market to be classification tested and passed, according to B-s1,d0, and B-s2,d0.

We have also tested and passed reaction-to-fire facade test according to ISO 13785-1 with a guarantee and quality stamp for fire-safe materials.

FIRE-TECHNICAL DURABILITY

FIRE IMPREGNATION THAT LIVES UP TO EN 16755...

The EN 16755 standard for fire-retardant wood is your guarantee for long-term fire safety.

It is not a fire safety requirement but rather a method to measure and document fire-retardant properties over time, as the wood lamellae are exposed to different weather conditions.

To ensure the best and safest conditions for our wood cladding, we exclusively use Burnblock's fire retardant, which is the only product on the market to have achieved full accreditation, approval, and complete classification according to EN 16755.

The fire retardant provides complete protection, maintaining the fire-resistant properties for the lifespan of the wood (ISO 5660-1) – both before and after accelerated aging tests according to test method EN 927-6, which is part of the EN 16755:2017 testing process.

...AND THIS WE HAVE TESTED AND DOCUMENTED

In order to document the fire-technical properties according to ISO 5660-1, Nordisk Profil has removed and tested 3-year-old thermowood lamellae that have been impregnated with Burnblock's fire retardant.

The test shows that the THR value – after 3 years – is still significantly below 7.5 MJ, which is the limit for fire class B. This means that the test result supports the EN 16755 standard for our facade solutions.

Additionally, it meets the hygroscopic requirements specified in EN 16755:2017. This ensures a healthy and durable facade, as the wood retains its strength and shape when exposed to moisture.

CLIMATE-CONSCIOUS THINKING

In addition to fire safety requirements, the sustainability of a fire retardant is, of course, also crucial for Nordisk Profil.

An important factor for sustainability is the standard for VOC emissions and material health, which Burnblock's fire retardant fully satisfies.

The fire retardant is made of 100% natural substances, is 100% biodegradable, non-toxic, and free from VOC emissions.

With these excellent sustainable qualities, the fire retardant has achieved Cradle to Cradle Gold certification and has earned Platinum status in material health.

TEST PROCESS FOR DURABILITY

EN 16755:2017

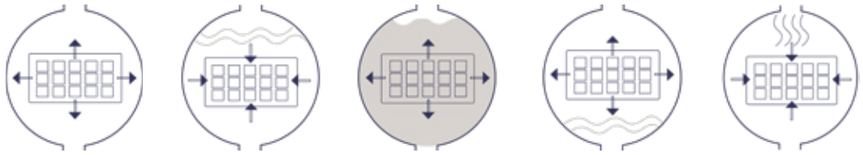
EN 16755:2017 is a test that ensures the wood's fire-retardant properties are maintained over time before and after weathering tests.

To provide a guarantee for fire-protective materials, Nordisk Profil has tested the Woodfac facade system according to EN 16755:2017.

The test has been successfully passed, documenting that the wooden cladding retains its protective qualities.

PHASE 1 WOOD SELECTION
Sample wood 19x100x750 mm
Density acc. to EN 350

PHASE 2 IMPREGNATION



Vacuum pressure impregnation with Burnblock

PHASE 3 HYGROSCOPIC TEST

PHASE 4 ACCELERATED WEATHERING TEST
With reaction to fire performance

PHASE 3A SAMPLING
3 pcs. 200x100 mm for Hygroscopic test acc. to EN 16755

PHASE 4A SAMPLING
3 pcs. 100x100 mm as comparative measurement for fire performance acc. to ISO 5660-1

PHASE 4A SAMPLING
3 pcs. 100x100 mm for aging acc. to EN 927-6

PHASE 3B HYGROSCOPIC TEST
3 pcs. 200x100 mm for Hygroscopic test acc. to EN 16755
PASSED

PHASE 4B AGING
Accelerated weathering test acc. to EN 927-6.
Days: 84
Rain*: 100 + UV = app. 130 years

PHASE 4C FIRE TEST
Acc. to ISO 5660-1. Acc. to the fire behaviour in the standard EN 13501-1.
Total heat release "THR" the max of THR is 7,5 (MJ)
PASSED

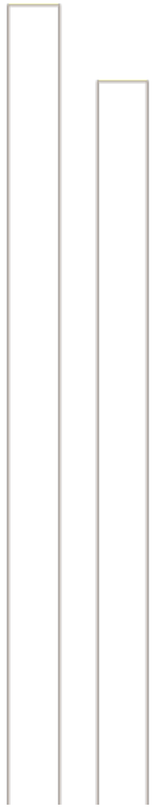
PHASE 4D FIRE TEST
Acc. to ISO 5660-1. Acc. to the fire behaviour in the standard EN 13501-1.
Total heat release "THR" the max of THR is 7,5 (MJ)
PASSED

*Index of water/m2 Alt. 3: 103.608 litres/m2 = 100 = app. 130 years of rain in DK

PHASE 1
WOOD SELECTION
The wood must comply with EN 14915 and be selected according to the specifications (species, moisture, density and quality) in the classification reports.

PHASE 2
IMPREGNATION
The wood is impregnated with fire retardant by vacuum-pressure impregnation process.

The fire retardant content, measured in kg/m³, has to follow the specifications of the classification report.



PHASE 3
HYGROSCOPIC TEST
The hygroscopic properties are assessed by the wood when exposed to high relative humidity. This exposure leads to high moisture content, possible migration of the fire-retardant chemicals in the wood product and salt crystallisation on the product surface, which can change the fire engineering properties.

PHASE 3A
SAMPLING
Three identical fire-retardant wood samples are required for testing. The wood must be free of knots, visible cracks, stains, rot, insect damage and other defects.

Fire retardant content has to follow specifications in the classification report.

PHASE 3B
HYGROSCOPIC TEST
PASSED
The samples shall be exposed to constant humidity conditions of (90 ± 5) % at (27 ± 2) °C until equilibrium is reached. The requirements of the test are: Moisture in the wood shall not exceed 28%, no visible liquid and deposition of fire retardant on the surface.

Contact us for more information about our fire testing and documentation.

PHASE 4
ACCELERATED WEATHERING TEST
Risk testing is performed for leaching of fire retardant, which reduces the fire engineering properties. The maintenance of the fire performance after accelerated leaching tests is verified by fire tests.

PHASE 4A
SAMPLING
For accelerated weathering tests according to ISO 5660-1, three wood samples are required before the leaching test and three fire-retarded wood samples cut from the sealed edge of the exposed board after the weathering test. Fire retardant content (kg/m³) has to follow the specifications of the classification report.

PHASE 4B
AGING
Accelerated leaching test according to EN 927-6. Samples are subjected to an exposure cycle of 84 days (12 one-week cycles). Each cycle consists of rain, drying and UV exposure. The water exposure corresponds to 103,680 litres/m², which is equivalent to approximately 130 years of rainfall in Denmark.

PHASE 4C
FIRE TEST AFTER AGING TEST
PASSED
Classification according to EN 13501-1 shall be applied. Class B products; Total Heat Release (THR) ≤7,5 MJ. At least three replicates of heat flux 50kW/m² according to ISO 5660-1. Heat Release Rate (HRR30s ave) ≤150kW/m² during 600 seconds after ignition.

PHASE 4D
FIRE TEST AFTER AGING TEST
PASSED
Classification according to EN 13501-1 shall be applied. Class B products; Total Heat Release (THR) ≤7,5 MJ. At least three replicates at a heat flux 50kW/m² according to ISO 5660-1. Heat Release Rate (HRR30s ave) ≤150kW/m² during 600 s after ignition. Sustained reaction to fire with (THR) ≤7,5 MJ, as before weathering test, see phase 4C.

HOTEL: **COMWELL KOLDING**
ARCHITECT: **SKOVGAARD SØRENSEN ARKITEKTER**

DESIGN AND PROJECT MANAGEMENT

GET OFF TO A GOOD START

At Nordisk Profil, we highly value close collaboration, working together to find the optimal facade solution.

We offer professional and comprehensive project planning, where the architect's visions are brought to life, and the client's or authorities' requirements are met – all with thorough review and assessment,

SPECIALISED PROJECT PLANNING FOR A COMPLETE RESULT

TECHNICAL DRAWINGS AND ILLUSTRATIONS

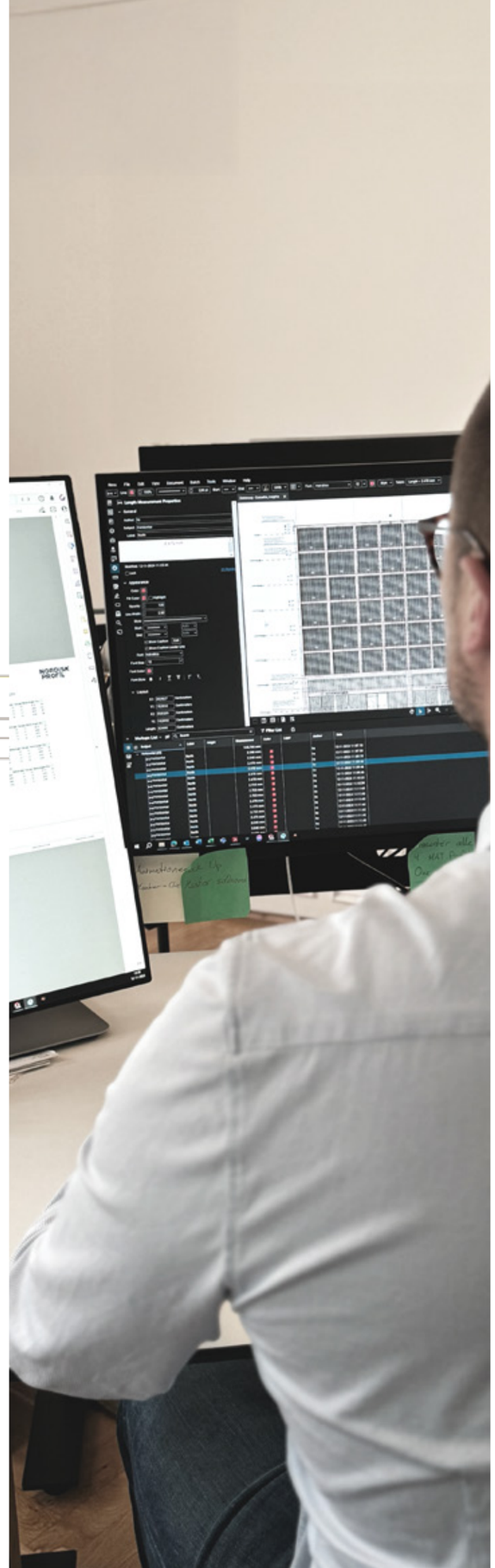
We prepare facade drawings, facade sections, and technical details that describe and illustrate the design and geometry of the facade solution. These drawings serve as a basis for collaboration with the architect, contractor, and installer to ensure consensus regarding the final solution, aesthetic expression, and installation process.

STATIC CALCULATIONS

When Nordisk Profil is part of the project planning, we handle the facade solutions static calculations while taking into consideration all safety and performance standards. The calculations ensure that the facade withstands the forces it is exposed to while maintaining aesthetic and functional quality. The work includes factors such as self-weight, wind load, temperature effects, material strength, load-bearing capacity, connections, and fire-safety assessment.

MATERIAL SPECIFICATIONS

Based on collaboration with the project stakeholders, facade drawings, technical details, and structural calculations, we prepare the final material specification for all facade components. From then on you are ready to place an order for materials without shortcomings or surprises.



LEAVE THE PROJECT PLANNING TO US

Project planning needs to be prioritised. Lead this to Nordisk Profil and get off to a good start, and leave the risks behind.

EFFECTIVENESS

Leave the whole process to Nordisk Profil and save valuable time and resources.

RISK FREE

Avoid the risk of having to create material specifications and detailed design solutions for corners, transitions, doors, windows, etc., on your own.

IMPLEMENTATION SUPPORT

Our expertise is available from start to finish, supporting you throughout the entire implementation process.

COLLABORATION

We don't expect ourselves to just deliver the expected, but also to be a reliable sparring partner that optimises wishes and needs for the facade for the benefit of you as a client.

Nordisk Profil is a specialist in facade solutions and a supplier of patented Danish facade systems that enhance architectural freedom and set new standards for building facades.

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