

**NORDSK
PROFIL®**

**HANDLING &
INSTALLATION MANUAL**

**WOODFAC CLICK
NAPSU**



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PRODUCTS

WOODFAC CLICK AND NAPSU

Woodfac Click and Napsu are patented Danish facade systems produced in Denmark.

We ensure the highest quality with full control over our entire value chain, from raw material sourcing to delivery to the customer.

The facade solutions provide a beautiful insight into the building's structural facade, allowing for the creation of dynamic architecture through light, shadows, materials, and design.

The design is flexible, and lamellae can be mounted horizontally, vertically, and with variable center-to-center distances. Only creativity limits the creation of unique and architectural facades.

USAGE

Outdoor facade systems from Nordisk Profil are suitable for all types of:

- New builds
- Renovations
- Screening
- Car parks
- Ceilings in e.g. entrance areas
- Partial, full or combined facade cladding

Nordisk Profil exclusively utilises Greenline aluminium, which is 100% collected and recycled aluminium.

The wooden lamellae are impregnated with a non-toxic and Cradle to Cradle-certified fire retardant.

NAPSU CONSISTS OF ALUMINIUM LAMELLAE ON AN ALUMINIUM STRUCTURE.

WOODFAC CLICK CONSISTS OF WOODEN LAMELLAE ON AN ALUMINIUM STRUCTURE.

PRODUCT BENEFITS

Nordisk Profil offers high-quality facade systems with full fire safety documentation and particularly good EPD values.

Here are some highlights of the facade product benefits:

DESIGN FREEDOM

Architectural design freedom is the hallmark of our products. No standard dimensions and no design requirements need to be met. The facade systems are like playing with LEGO - both in terms of assembly and design. All facade solutions are tailored precisely to the requirements and desires of the customer.

Therefore, you determine the design, and we help with the best solution!
Check out various project references on our website under 'projects'.

MODULAR FACADE SYSTEMS

With a strong focus on environmentally friendly products, all systems are modular with easy expansion and adaptation to future needs.

The flexibility of the products makes it easy to handle repairs and transform them for new needs and desires. Additionally, all products can be easily disassembled and removed for recycling and reuse.

OPTIONAL LAMELLAE

We only use lamellae made from FSC® or PEFC™ certified wood species. As a starting point, we recommend lamellae in the following types of wood:

- Thermo ash
- Thermo pine
- Western Red Cedar
- Thermo ayous
- Accoya

If there is a desire to install pre-patinated lamellae, this is also possible.

OPTIONAL COLOUR AND SURFACE

Our aluminium lamellae can be coloured in all RAL and NCS colours, as well as in a wide range of colours with varying gloss levels. We offer powder coating and anodizing, allowing you to choose precisely the appearance desired without compromising the lamellae's durable properties.

COMPLETE SOLUTION

Nordisk Profil supplies all facade components that are compatible with our systems. We offer a wide range of accessory profiles, ensuring that all terminations and framings are part of a complete solution from Nordisk Profil. This is backed by a guarantee of a sharp, precise appearance when installation is carried out correctly. We provide professional advice and support regarding solutions, design, and fire safety requirements – key factors for the successful completion of any facade project.

INSTALLATION IN ALL DIRECTIONS

Lamellae can be installed vertically or horizontally - or a combination of both. Even as a curved facade or ceiling. A facade with curved elements gives a beautiful and organic look.

MAINTENANCE

Typically, our facade system does not need maintenance. "Wood as facade cladding" and "Aluminium as facade cladding". Documents are available here: www.nordisk-profil.dk/downloads

FIRE SAFETY

Nordisk Profil never compromises when it comes to fire safety – quite the opposite. We lead the way in providing guaranteed fire-safe facade solutions that have been thoroughly tested and fully documented.

Nordisk Profil's Woodfac facade system complies with the fire safety requirements according to EN 14915. Woodfac is the only product on the market that has been tested and certified to meet the classification B-s1,d0 / B-s2,d0.

We provide end-use classification reports for the specified wood types, with the exception of Accoya. Please contact us for more information regarding these tests, fire retardants, and fire safety information.

FORM STABILITY

The wooden lamellae have been thermo treated, which ensures form stability and a unique lifespan.

PROFESSIONAL COOPERATION

We provide professional advice and support regarding solutions, design, material selection, and fire safety requirements, which are crucial for successfully completing the facade project.

From design to installed facade, we follow the construction project and are always on the sidelines with advice and guidance. We also offer planning services and ensure that the architect's wishes are fulfilled, with 100% control over material specifications.

Nordisk Profil is a reliable and professional partner who optimises desires and needs for a facade to benefit you as a customer.

INSTALLATION BENEFITS AND WEIGHT CHART

Nordisk Profil offers high-quality facade systems with full fire safety documentation and particularly good EPD values.

Here are some highlights of the facade installation benefits:

SYSTEM

The facade solutions consist of three components and are installed in three steps.

MOUNTAIN RAIL

The mounting rail has elongated pre-punched holes of varying sizes, prepared for mounting fasteners. This allows for thermal movement while ensuring quick and easy installation without the need for additional drilling.

LAMELLA

The facade lamellae are fixed and secured at all joints (where the mounting rail and lamellae intersect) with a fixing plate and the corresponding mounting screw.

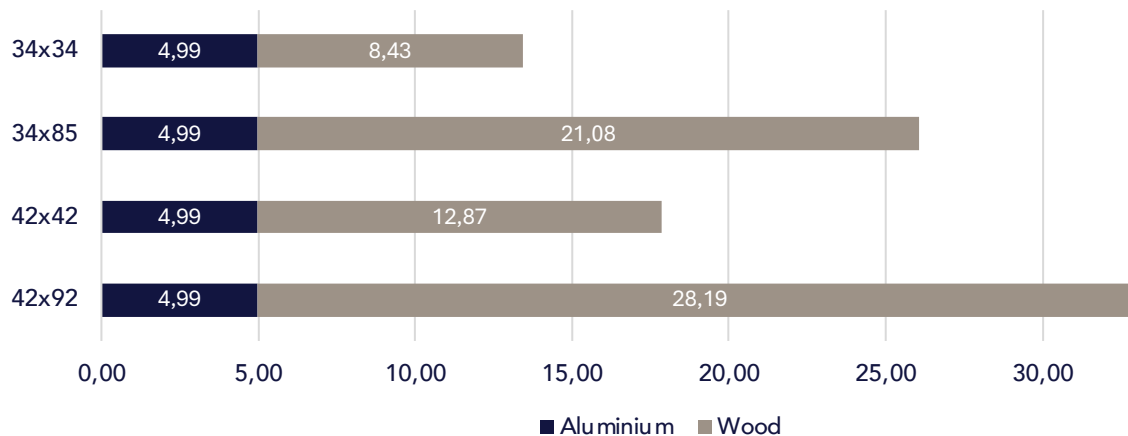
WEIGHT CHART IN KG PER M²

Our facade solutions can be designed with optional lamellae dimensions and center-to-center (cc) distances, with the weight per m² varying accordingly.

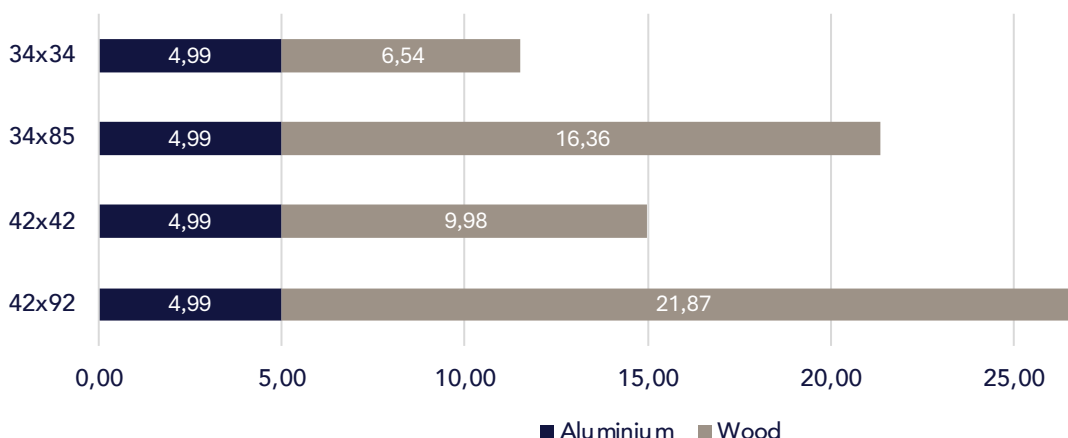
Refer to the weight chart for each wood species, with a cc distance of 70 mm and varying lamellae lengths.

**We recommend adding a 25% weight safety margin.*

THERMO ASH

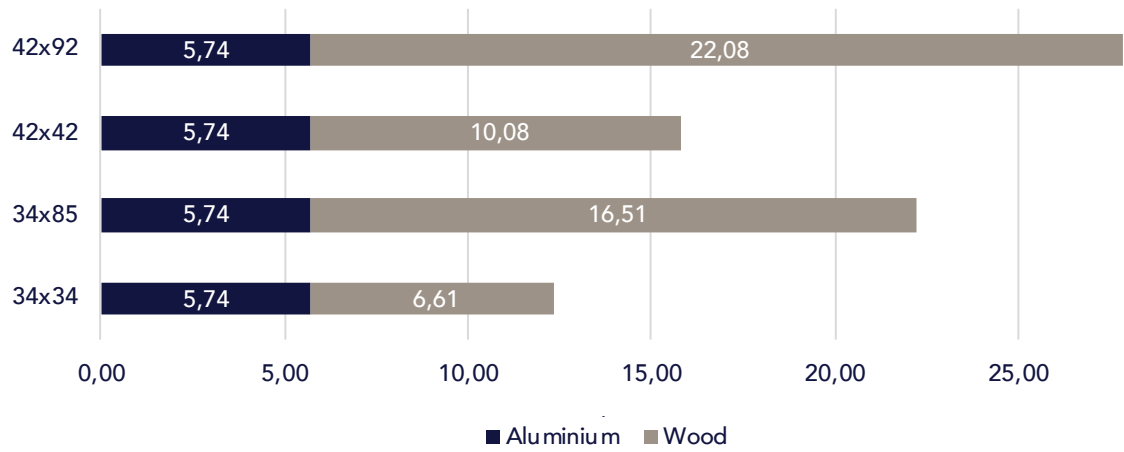


THERMO PINE

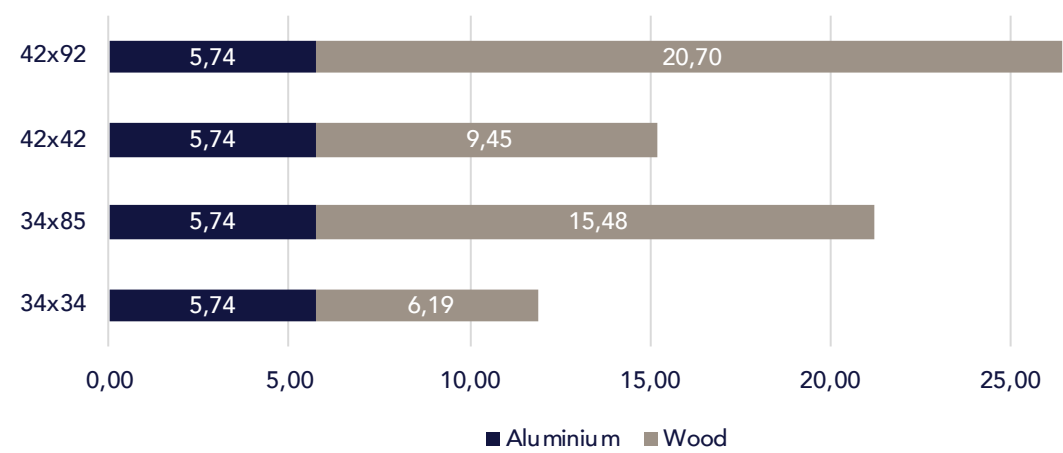


WEIGHT CHART CONTINUED

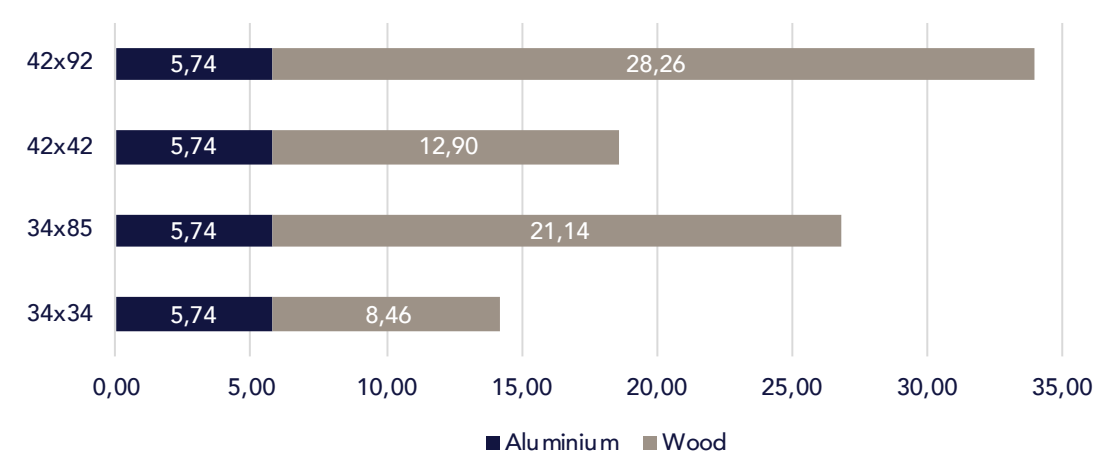
WESTERN RED CEDAR



THERMO AYOUS



ACCOYA



PRODUCTS

DO'S & DON'TS

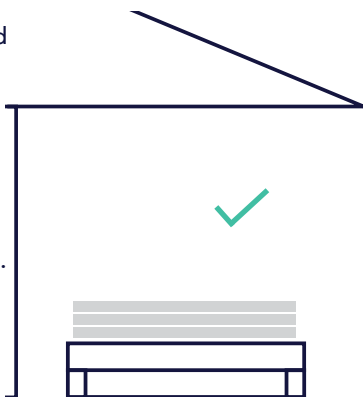
It is important to read the following requirements for correct handling and storage, as the product warranty depends on the handling and storage from receipt of the goods.

Please contact Nordisk Profil if there are any doubts or questions regarding this.

1. PLACEMENT

It is recommended to store lamellae under a roof.

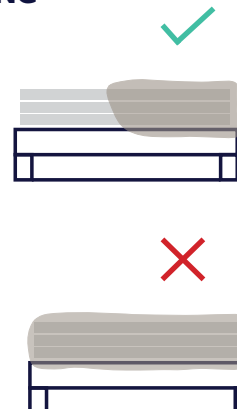
Lamellae should never be placed in direct sunlight before installation.



2. REMOVE PACKAGING

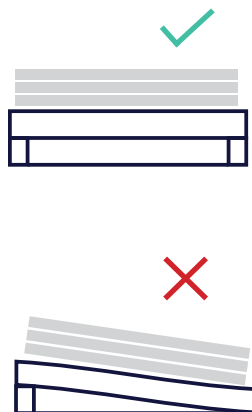
Immediately after receiving the lamellae, plastic packaging around pallets should be removed to ensure ventilation between the lamellae.

Failure to ensure good ventilation can lead to moisture-related fungal growth.



3. SURFACE

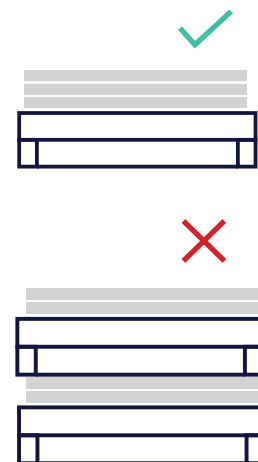
Lamellae pallets should always be placed on a level surface.



4. PALLETS

Lamellae should always be stored on the specially made pallets.

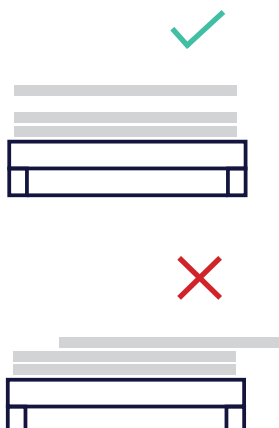
Pallets must not be stacked, as this may cause pressure marks.



5. LIFT

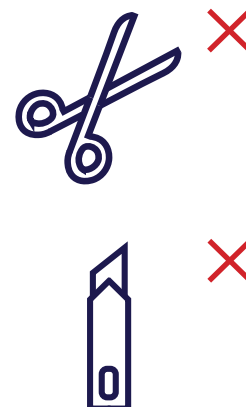
Lamellae must always be lifted off the pallet.

Lamellae must not be dragged on the pallet.



6. OTHER

Products must never be opened with sharp objects as it will increase the risk of damaging the product.



PREPARATION BEFORE INSTALLATION

1. OVERVIEW

Check that all materials in your order have been delivered. It is then a good idea to get an overview of where on the facade the different lamellae will be used, so that all pallets are placed in the correct locations.

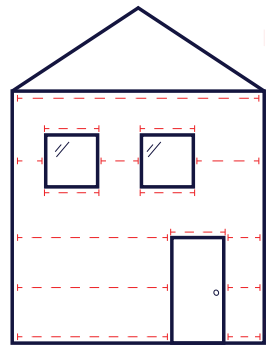
As lamellae must always be installed in one direction – from left to right – it is important to ensure that installation can begin in coordination with any other ongoing work on the facade.

2. MEASUREMENT

Once the materials and facade layout are in order, the measurement phase can begin. This step is crucial for ensuring correct installation with a clean, high-quality finish.

3. IDENTIFY

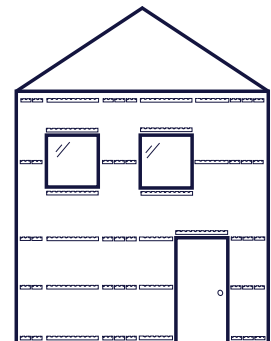
Identify the key areas where installation will take place – such as around and between windows, doors, corners, and other architectural elements that break the facade.



4. PRIORITISE

If lamellae are to be installed in multiple vertical sections, it is important to start with the section that is most interrupted by elements such as windows, doors, etc. This ensures that the facade's vertical lines are maintained consistently across multiple storeys.

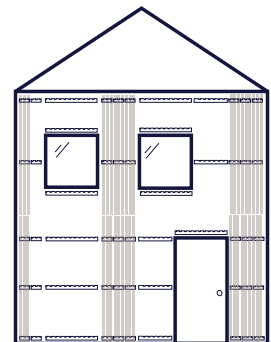
Be sure to make consistent adjustments in each storey section to a uniform appearance.



5. OPTIMISE

In areas between window openings, corners, or similar features where there are discrepancies between the drawings and the finished facade, these can be adjusted by cutting the mounting rails into shorter lengths — for example, 3 × 1 m instead of 1 × 3 m.

This allows for fine-tuning or offsetting via the positioning of the mounting rails.



INSTALLATION OF FACADE SYSTEM

UNIQUE AND SIMPLE PLUG AND PLAY SYSTEM

The modular facade systems consist of three components and are installed in three steps. It is simple and fast, providing a detailed result without visible screws in the lamellae.

Here you get an overview of the system components and the three installation phases. The following pages contain specific instructions for the installation of vertical and horizontal lamellae, respectively.

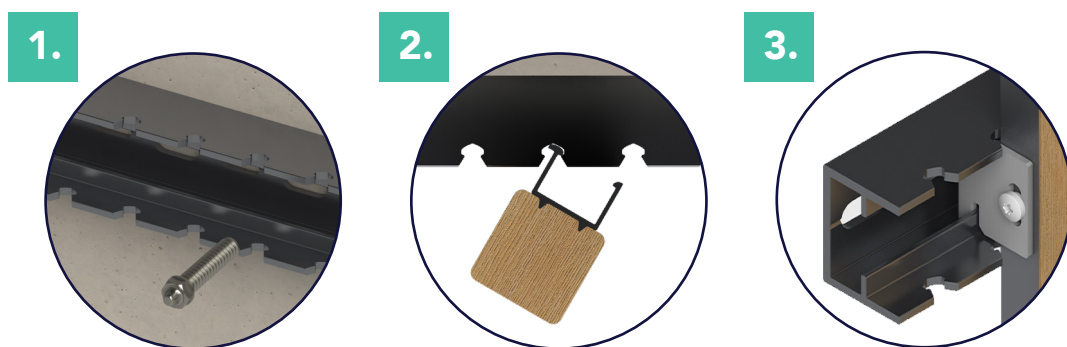
THE SYSTEM'S THREE COMPONENT'S

1. **MOUNTING RAIL:** Mounting rail with punched holes.
2. **LAMELLA:** Lamellae in optional lengths and variable cc distances.
3. **FIX-PLATE:** Setup with fix-plates.

The facade system has been developed to allow for thermal movement while maintaining full control over all components of the structure.

THE SYSTEM'S THREE INSTALLATION PHASES

1. **MOUNT:** Installation of Woodfac Click and Napsu begins with fastening the mounting rail to the load-bearing facade.
2. **CLICK:** The lamella is slid into the click groove, and the larger foot is pushed into place. Once the lamella foot is in the groove, the lamella is tilted into position in one smooth motion – click.
3. **FIX:** Once the lamella is clicked into place, fix plates are mounted at all cross joints between the mounting rail and the lamella.

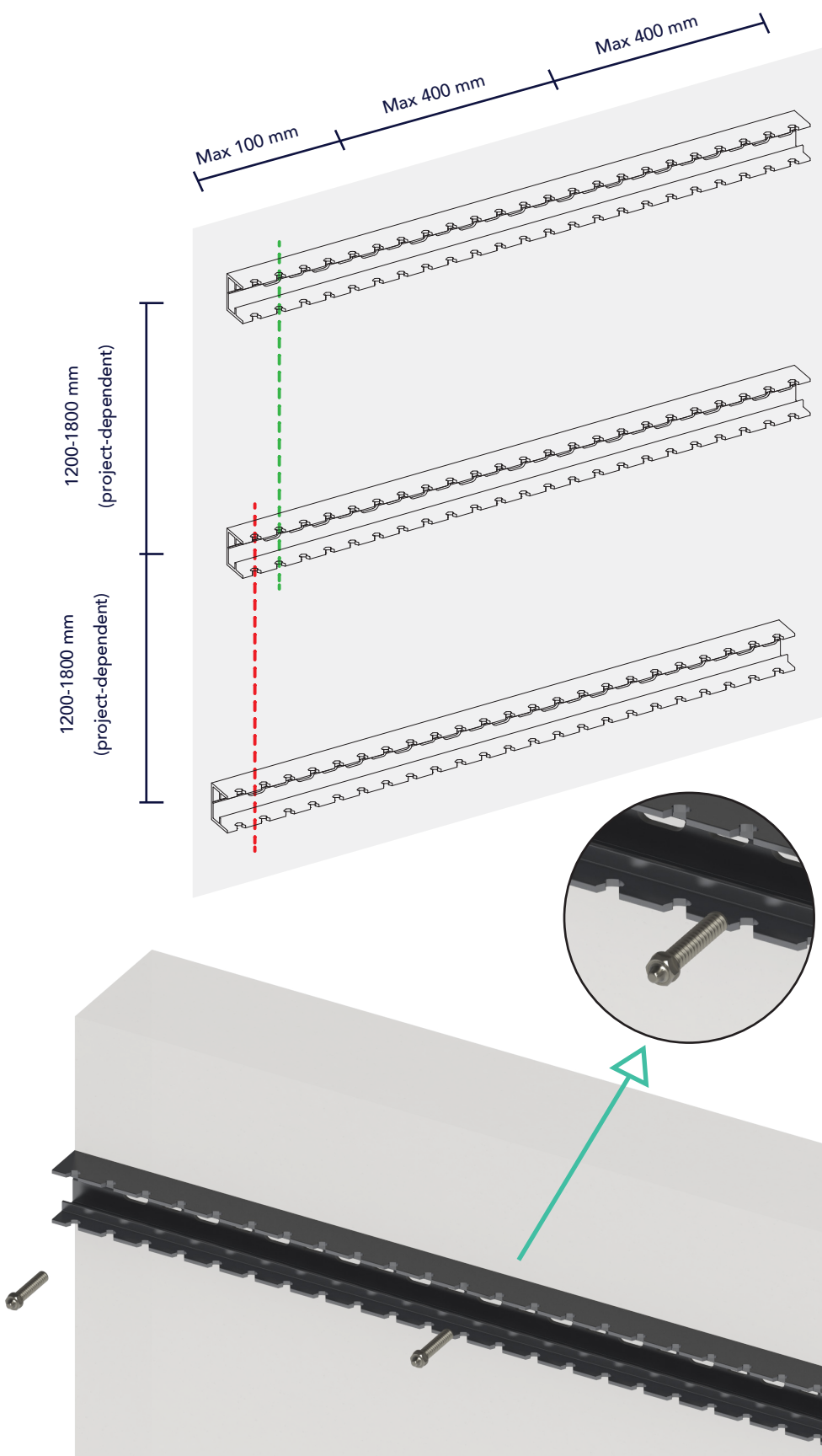


STEP 1 - VERTICAL LAMELLA INSTALLATION

MOUNT

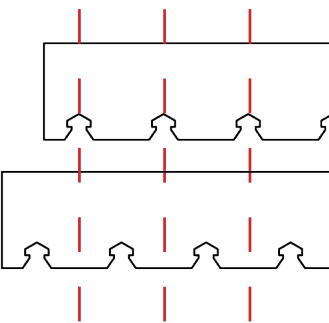
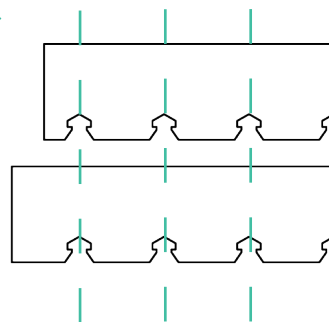
The mounting rail is fastened to the facade. The maximum distance between fastening points must not exceed 400 mm, and the vertical distance between the rails should be a maximum of 1200-1800mm (depending on the project). Additionally, there must be a maximum of 100 mm from the end of the mounting rail to the nearest fastening point.

The entire mounting rail must be in contact with the substructure.



! The distance from the mounting rail to the first click groove may vary, depending on where the previous cut ended.

It is essential that the grooves are aligned vertically to ensure a consistent and accurate installation.



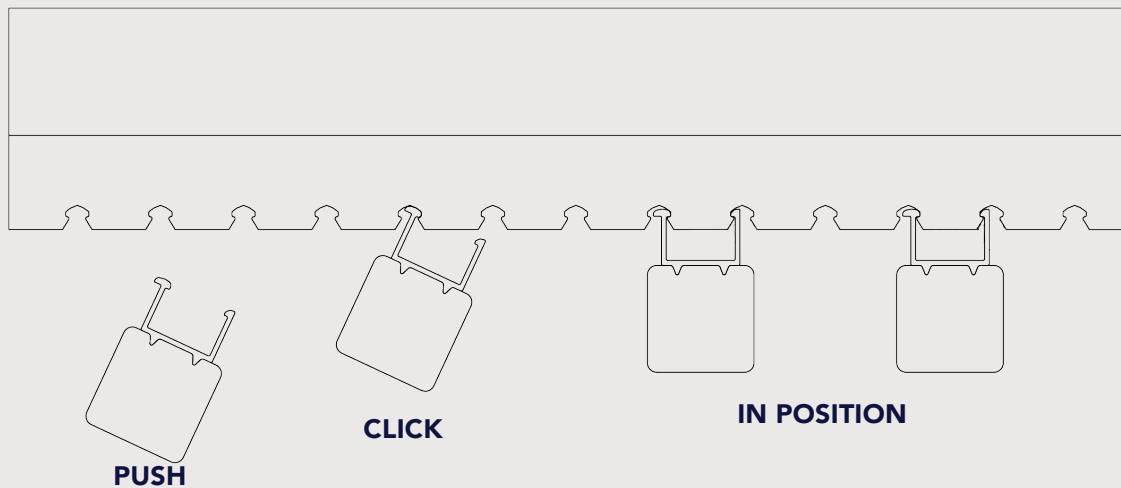
STEP 2 - VERTICAL LAMELLA INSTALLATION

CLICK

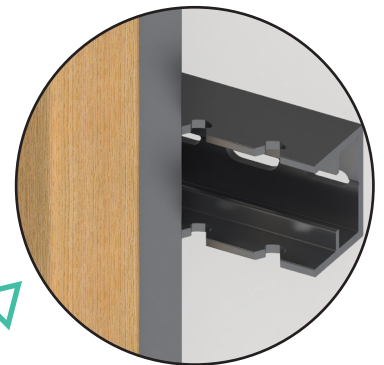
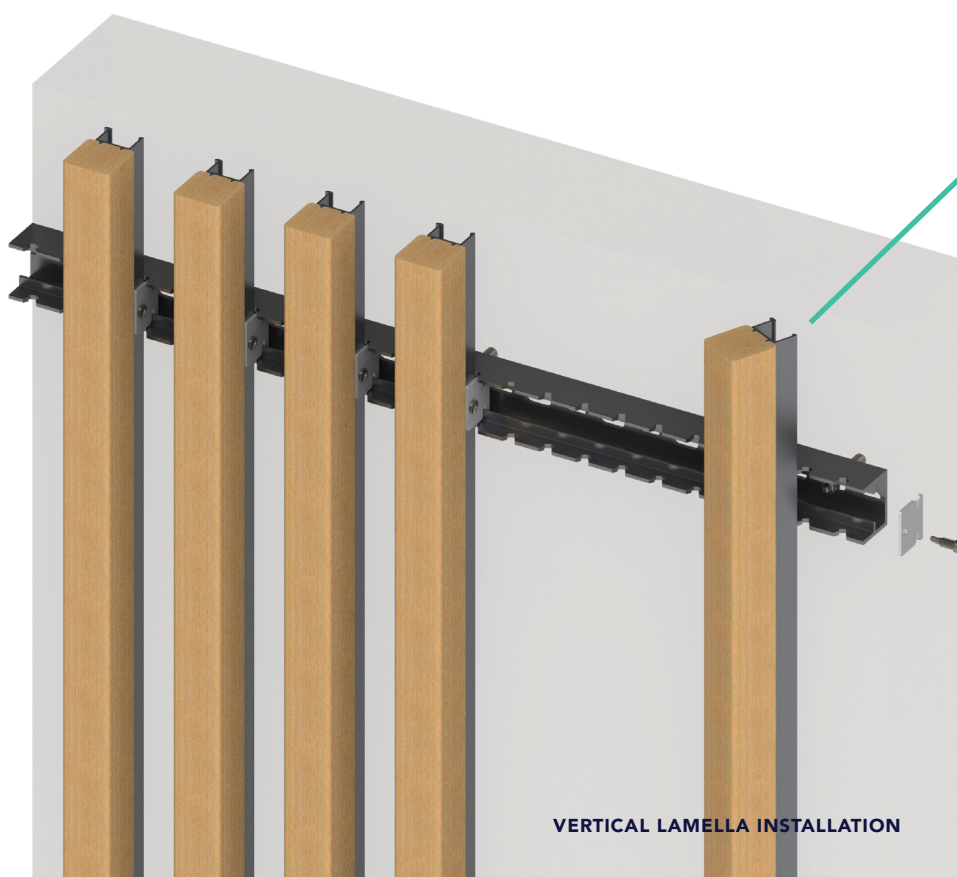
Once the mounting rails are secured, the lamellae are installed onto the rails. The 'larger foot' of the lamella is pushed into the groove on the rail by sliding/angling it into the click groove.

Once the lamella foot is in the click groove, the lamella is tilted into place in one smooth motion. With a "click," the lamella is securely fixed to the mounting rail.

Remember to check that the lamella foot is clicked into place before proceeding with the installation of the fix plates, which is the next step.



Mount from left to right.



CLICK



IN POSITION

VERTICAL LAMELLA INSTALLATION

STEP 3 - VERTICAL LAMELLA INSTALLATION

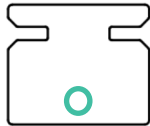
FIX

The lamellae are now clicked into place (step 2), and the facade system is 'locked' in place with fix plates. Fix plates are installed at all cross joints between the mounting rail and the lamella.

Two different types of fix plates are required for the installation. **All fix plates and fix plate screws are included in the facade delivery.**

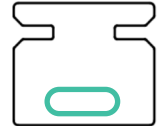
1. FIX-PLATE 1 WITH ROUND HOLE

Fix-plate 1 is fastened to each lamella as shown below and ensures the thermal zero point.



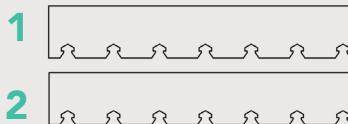
2. FIX-PLATE 2 WITH LONG HOLE

Fix-plate 2 is installed at all other intersections between the mounting rail and the lamella, ensuring space for thermal movement.

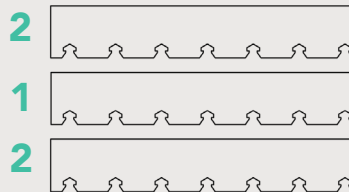


Fix-plate 1 must be uniformly attached to all lamellae in the section, following these rules:

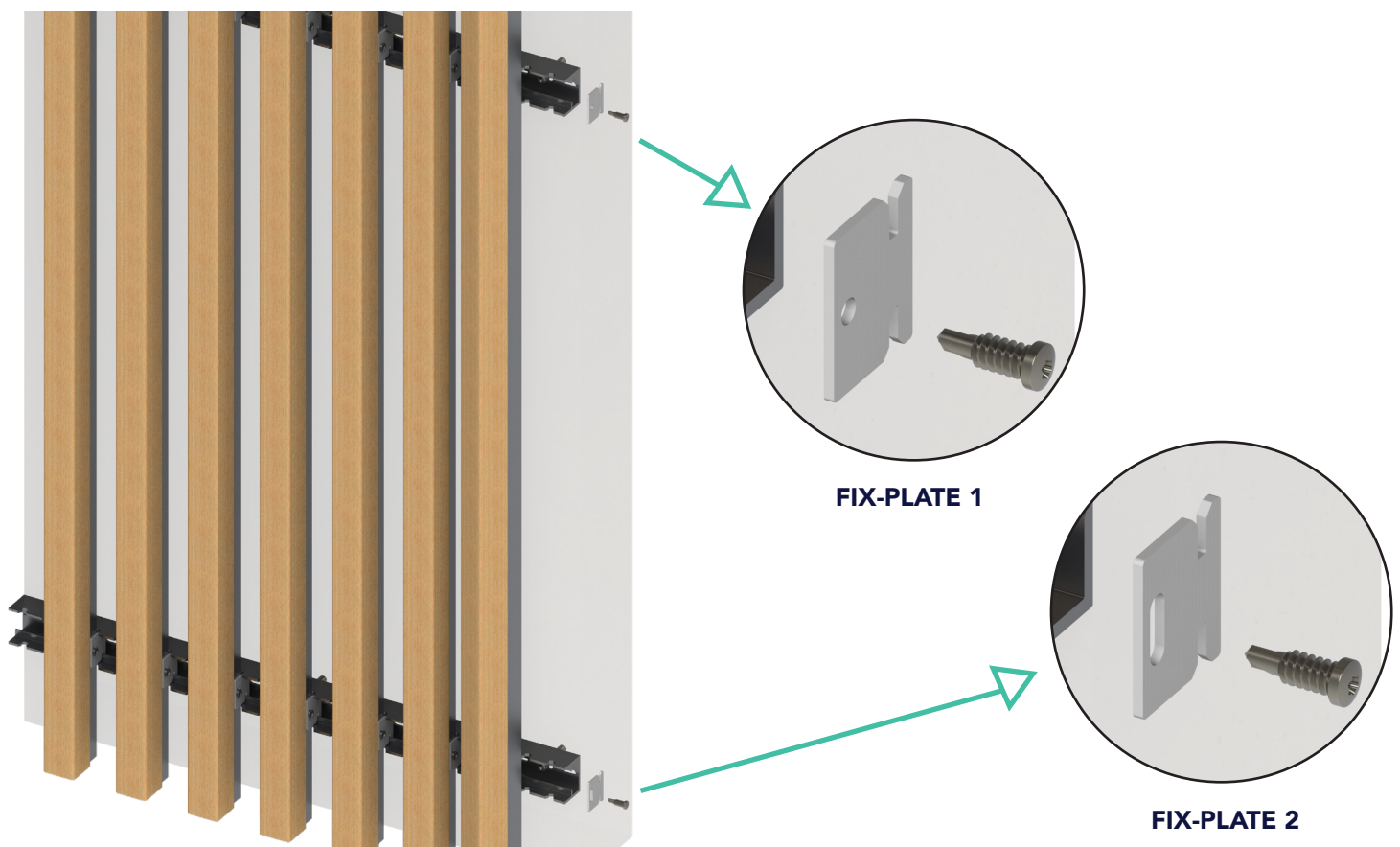
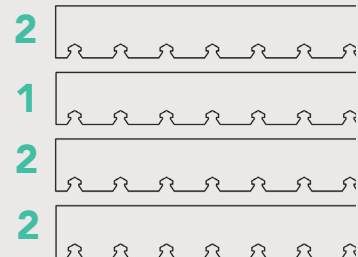
If the lamellae is fixed over 2 mounting rails, fix-plate 1 is always placed at the top.



If the lamella is fixed over 3 mounting rails, fix-plate 1 is placed in the middle.



If the lamella is fixed over 4 mounting rails, fix-plate 1 is placed in the second-highest position.



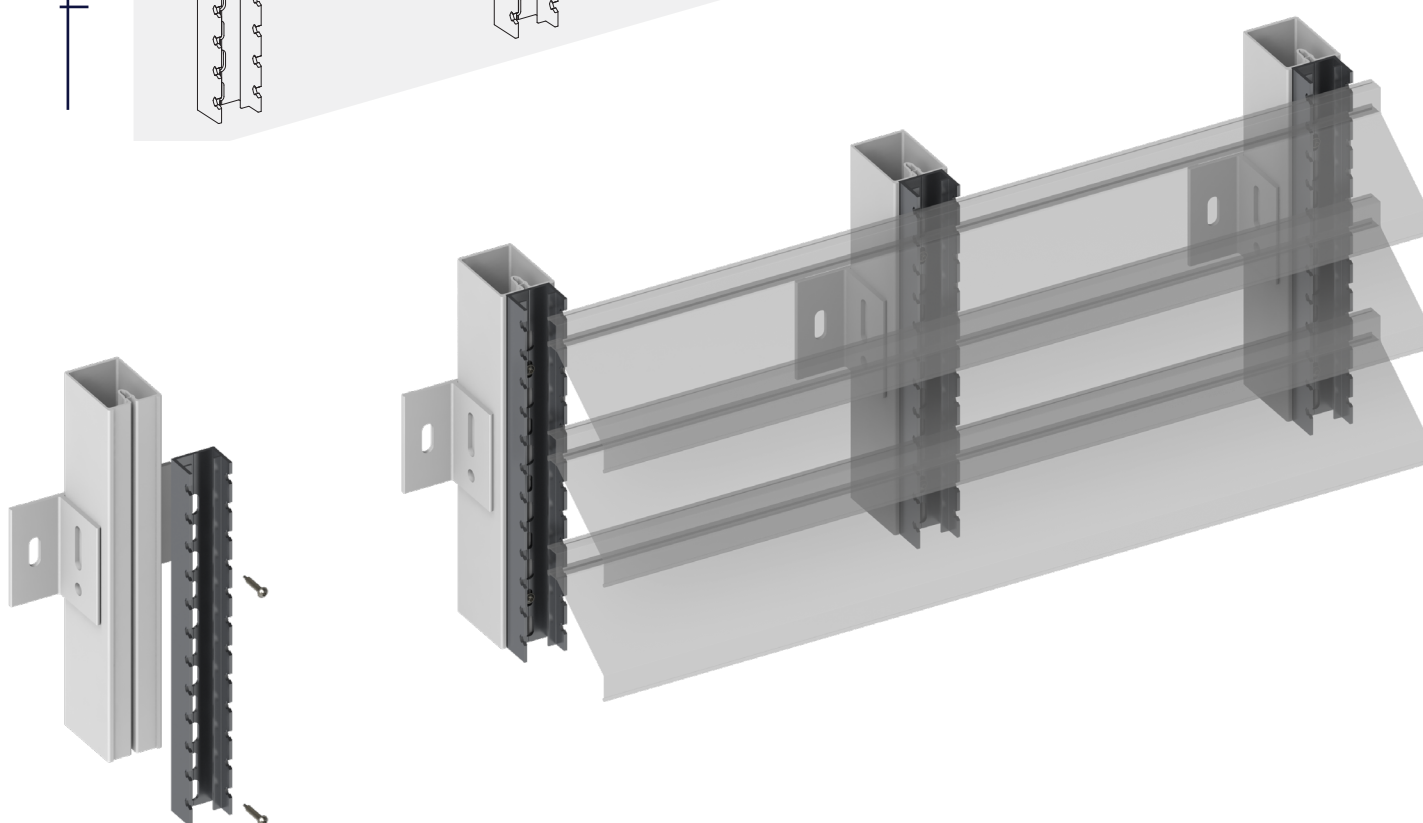
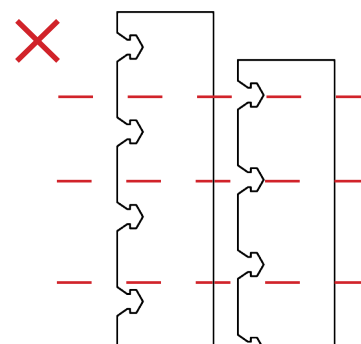
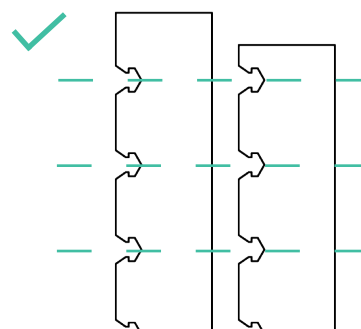
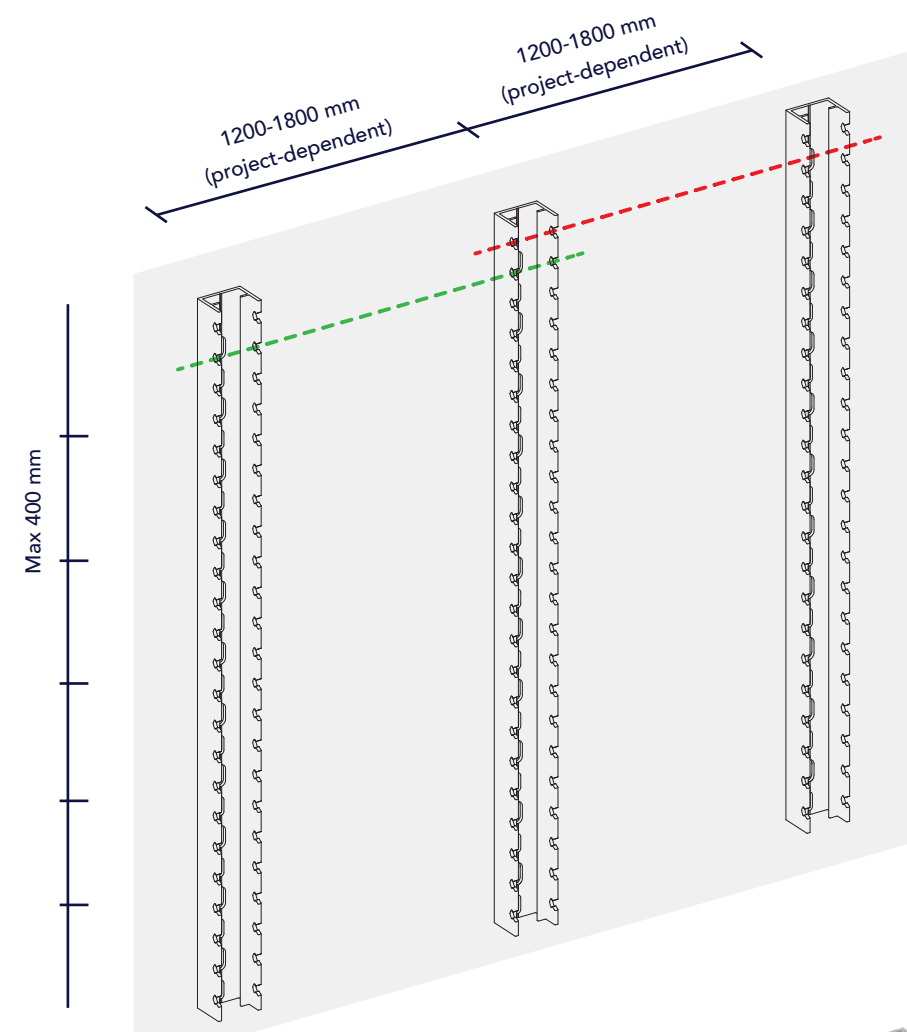
STEP 1 - HORIZONTAL LAMELLA INSTALLATION

MOUNT

The mounting rail is fastened to the façade. The distance between fastening points must not exceed 400 mm, and the vertical distance between the rails should be a maximum of 1200-1800mm (project-dependent).

The entire mounting rail must be in contact with the substructure.

The mounting rails may have varying distances to the first click groove, depending on where the previous cut ended. It is important that the grooves are vertically aligned.



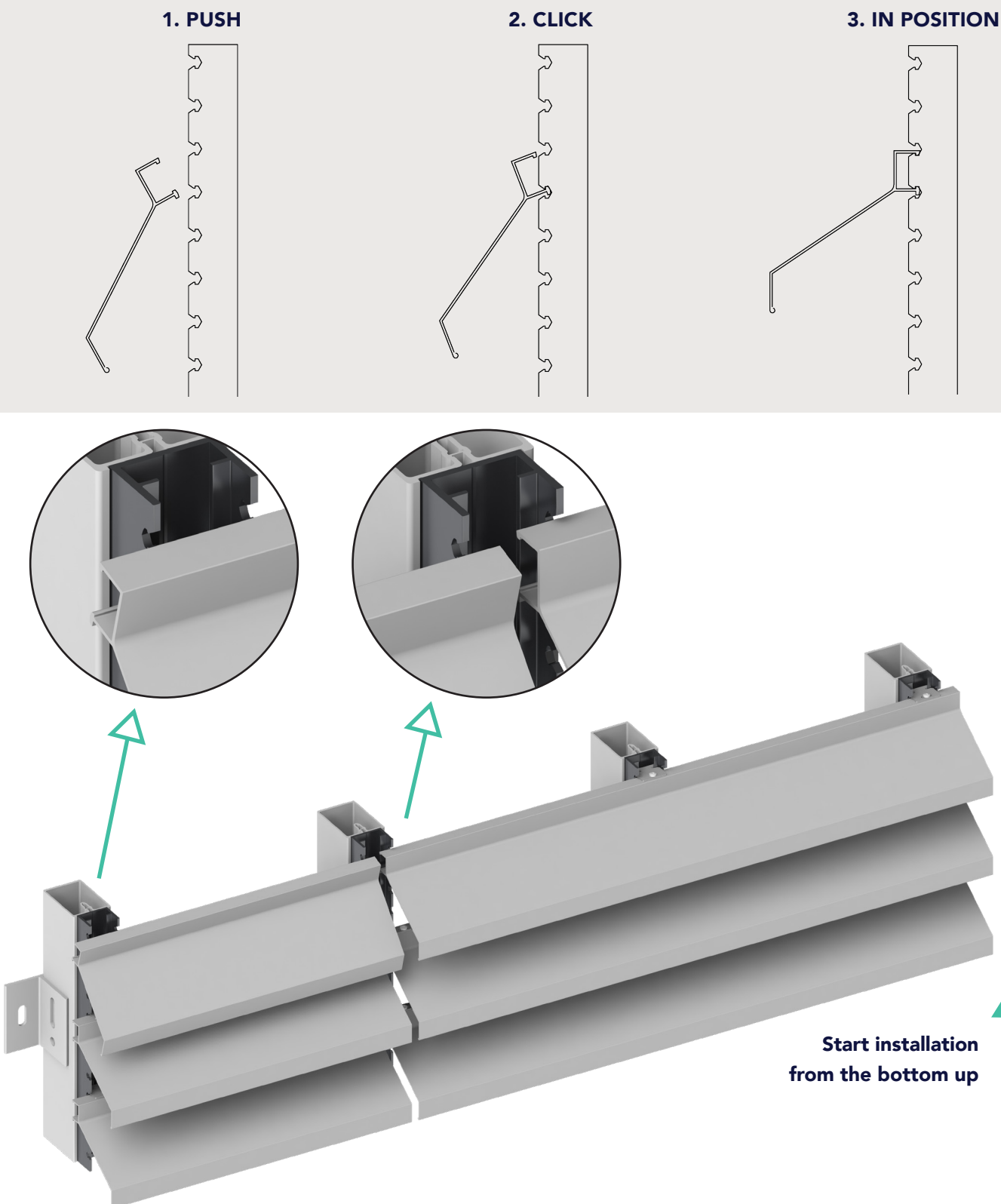
STEP 2 - HORIZONTAL LAMELLA INSTALLATION

CLICK

Once the mounting rails are secured, the lamellae are installed onto the rails. It is important to always install from 'bottom to top' when mounting horizontally. This ensures the possibility of fixing the lamella on the top side. The 'larger foot' of the lamella is pushed into the groove on the rail by sliding/angling it into the click groove.

Once the lamella foot is in the click groove, the lamella is tilted into place in one smooth motion. With a "click," the lamella is securely fastened to the mounting rail.

Remember to check that the lamella foot is clicked into place before proceeding with the installation of the fix plates, which is the next step.



STEP 3 - HORIZONTAL LAMELLA INSTALLATION

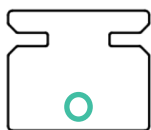
FIX

The lamellae are now clicked into place (step 2), and the facade system is 'locked' with fix plates. Fix plates are mounted in all cross joints between the mounting rail and the lamella.

Three different fix plates are required for the installation. **All fix plates and fix plate screws are included in the facade delivery.**

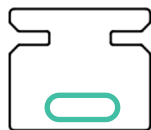
1. FIX-PLATE 1 WITH ROUND HOLE

Fix-plate 1 is fixed to each lamella as per the below and ensures the thermal zero point.



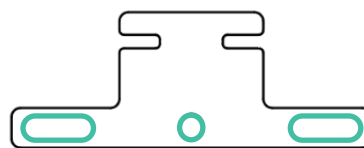
2. FIX-PLATE 2 WITH LONG HOLE

Fix-plate 2 is installed in all other joints between the mounting rail and the lamellae, ensuring space for thermal movement.



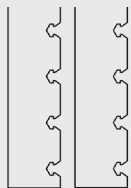
4. FIX-PLATE 4 WITH TWO LONG HOLES

Fix-plate 4 is installed in all section joints where two lamellae are installed on the same mounting rail.



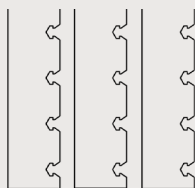
Fix-plate 1 must be fastened in the same manner on all lamellae in the relevant section, following these guidelines:

If the lamella is fixed over two mounting rails, fix-plate 1 and fix-plate 2 are used.



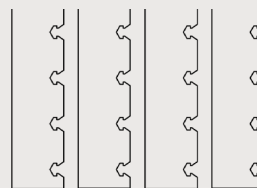
2 1

If the lamella is fixed over three mounting rails, fix-plate 1 is placed in the centre.



2 1 2

If the lamella is fixed over four mounting rails, fix-plate 1 is placed in the second-highest joint.



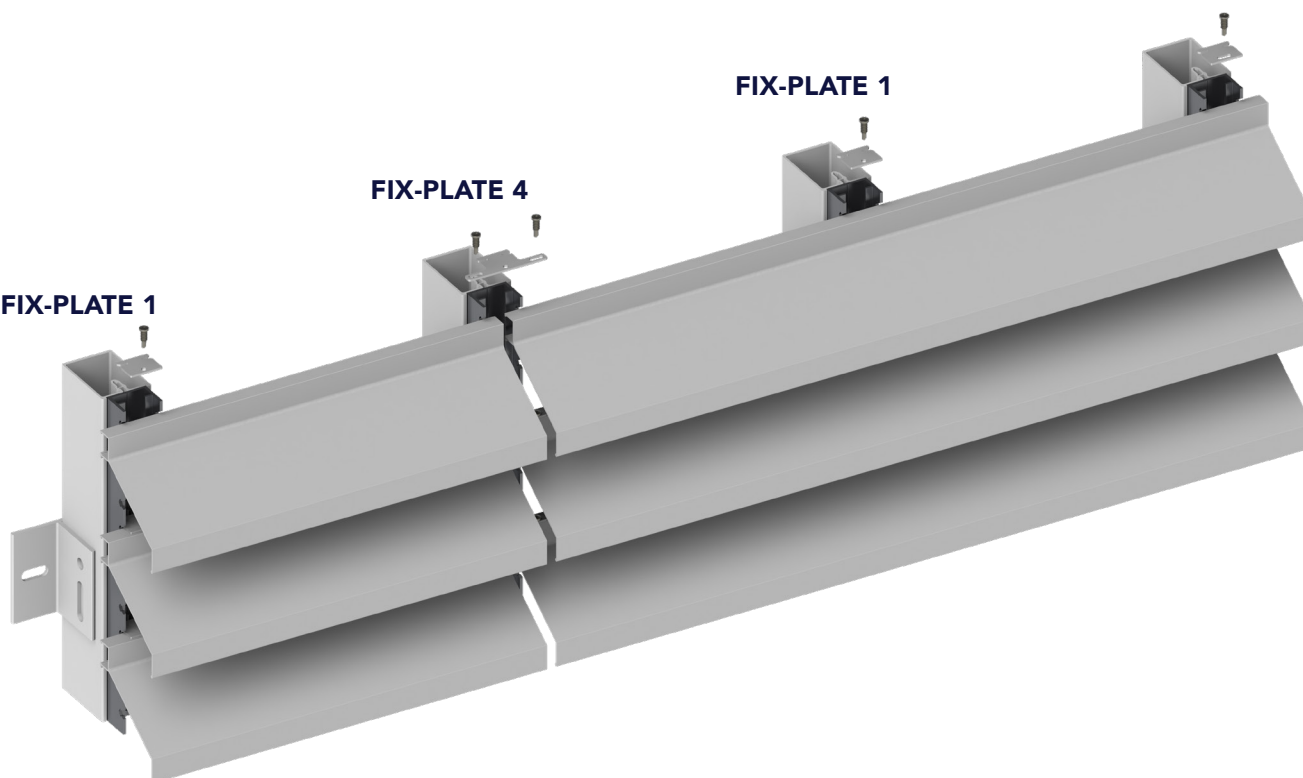
2 1 2 2

FIX-PLATE 2

FIX-PLATE 1

FIX-PLATE 4

FIX-PLATE 1



TERMS AND CONDITIONS

GUARANTEE

Nordisk Profil provides a 5-year product warranty on all facade systems.

However, the warranty is contingent upon correct handling and installation in accordance with our instructions in this handling and installation manual.

Reference is also made to our current terms and conditions of sale and delivery.



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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