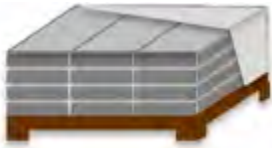


NEOLIFE INSTALLATION GUIDE

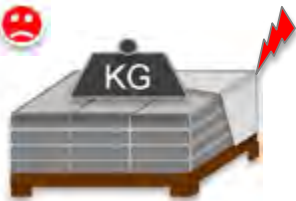
THE 12 KEY POINTS

1- STORAGE

- Store the boards on top of the pack upside down so the brushed face is not visible, in a sheltered place, on a plane and dry surface.
- Keep the pallets' UV protecting cover on every boards during the storage to avoid a partial discolouring.



Protect from sun and bad weather before installation



Protect the boards from deformations and impacts before installation

2- TOOLS

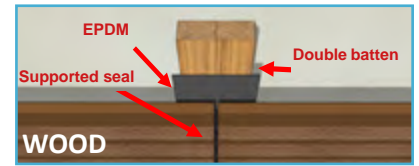


- Radial circular saw on table with 320mm minimum cutting capacity.
- Boards for aluminium or PVC with carbide-tip "HELLER" type.

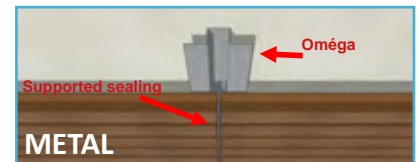


- SR2 long squared head screw gun.

3- SUPPORTS



- Battens should be a minimum of 27x40mm.
- Maximum spacing between the battens should be 600mm centre to centre.
- Double battens or 26x60mm battens at every boards' junction.
- Fix stainless steel screws in the bottom grooves.
- Supported seal.

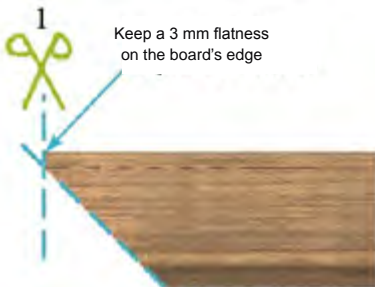


- 87x30mm steel omega profile minimum shade S220 GD or aluminium minimum 3000 serie.

4- CUTTING

- The boards are delivered in 3,25m with a -0/+2cm squaring tolerance: it is highly recommended to cut them at the wanted length to have clean seals.
- The boards can be cut like wood, however, please install them carefully to avoid impacts on the boards' edges.

Mitre cut in "bird's beak"



5-CUTTING ORIENTATION

- **Horizontal:** Boards have to be installed with the groove at the bottom and the tongue at the top.
- **Vertical :** Install the boards in the same orientation for a homogeneous layout (the random brushing captures the light the same way as velvet).
- Install the boards following the pallets' numbering order to keep a homogeneous aspect.



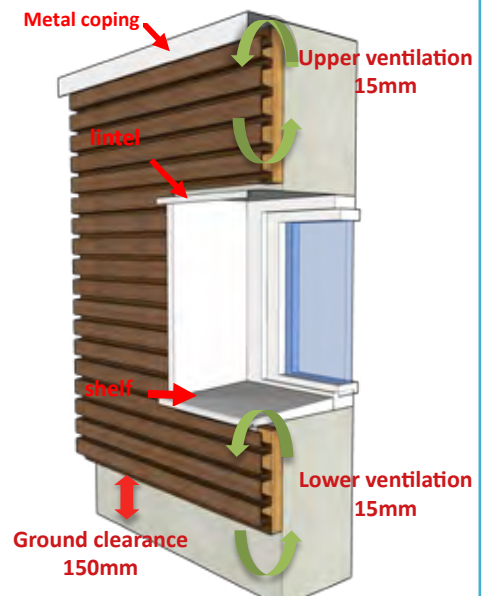
Top tongue



Low groove

6- VENTILATION

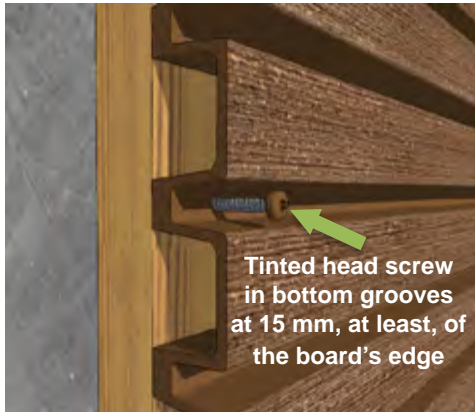
- A minimum 15mm lower and upper ventilation is required.
- For vertical installation, possible back ventilation in the cladding's ribs.
- There should be a minimum 150mm height from the ground up to the bottom of the cladding.



THE 12 KEY POINTS

7- FIXATION

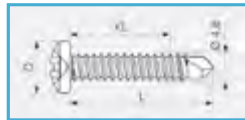
- SFS self-drilling screws with tinted head fitting with the cladding's colour.
- Set the screw gun with clutch mode. **CAUTION, the screw's head has to be supported over the cladding and not drill in to avoid possible crackings.**
- For the fixation on Cladding CLAD 14, use one screw in each bottom grooves.
- For the fixation on Cladding CLAD 4, use one screw at the bottom of every third grooves.
- Place the screw at **15 mm, at least**, of the board's edge to avoid cracking risks.



8- SCREWS

WOOD OR ALUMINIUM STRUCTURE

- SFS SN3/25 screws – 4,2 x 32 mm.
- Stainless steel A2 ISO 7049.
- Wood / aluminium net – self drilling spike.
- Cylindrical curved head 8mm diameter.
- Squared imprint nozzle SR2 long.
- Head screw can be tinted on the RAL matching the NEOLIFE's cladding (epoxy).
- Each box contains 500 screws.



STEEL STRUCTURE 20/10 MAXI

- SFS SAS3/11 – 4,8 x 21 mm screws.
- Bi-metal A2 stainless steel.
- Steel net – self drilling spike (maxi 20/10th steel drilling).
- Cylindrical curved head diam 9,5 mm.
- Squared imprint nozzle SR2 long.
- Head screw can be tinted on the RAL matching the NEOLIFE's cladding (epoxy)
- Each box contains 500 screws.



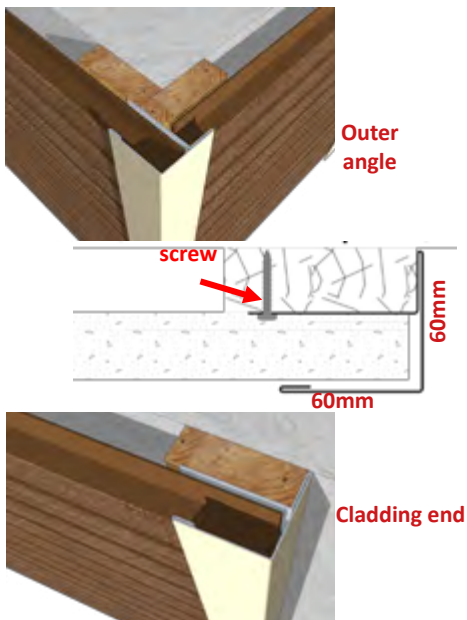
9 - EXPANSION

- Ensure you are leaving a 5mm expansion gap at the full boards edge with other elements like walls, cladding boards, etc.
- Respect a 2mm/linear meter gap for cut boards.
- For 45° mitre-cut, a 3mm gap is enough for the full boards.



10 - FINISH TOUCHES

- Realise the finish touches for singular points with tinted aluminum profiles.
- There should be a standard 60x60mm cover plate on the corner of the cladding in both horizontal and vertical installation.



11 - CLEANING

CONSTRUCTION SITE CLEANING

- Depending on the dirt present on the boards at the end of the construction (mud, site dust...) especially in the grooves, dirty rain stains can appear on the surface.

NEOLIFE strongly advises to clean the boards with pressured water, following the boards grooves at a minimum 20cm above the surface and without using a rotating nozzle.

SUSTAINABILITY

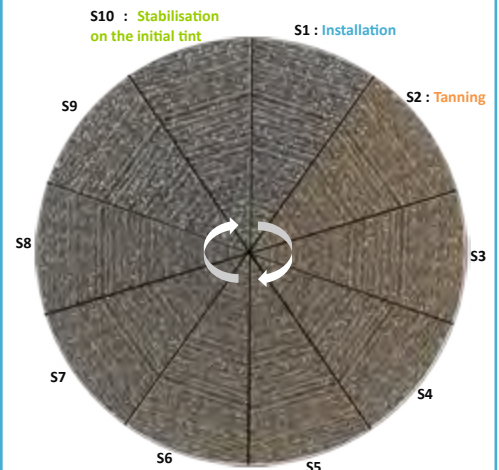
- No wood protecting treatments are necessary (oil, wood stain, saturator...).
- The VESTA material is naturally equivalent class 4 in use.
- It is insect resistant.

STAINS AND DEGRADATION

- Tannins stains: during the first weeks, the rain can create tannins stains at some areas. They will fade with the next rain until they vanish completely.
- Scratches and abrasions: Brush in the length with a brass brush.

12 - AGEING

- VESTA® X-RESIST is a natural material composed of 82% of wood fibres and mineral pigments which bring the colour.
- Within a few weeks, the boards will stabilise on the mineral pigment's colour.
- In the meantime, the fibre will naturally tan before fading and return back to the mineral pigment's original colour.
- Discolouring during the 10 first weeks:

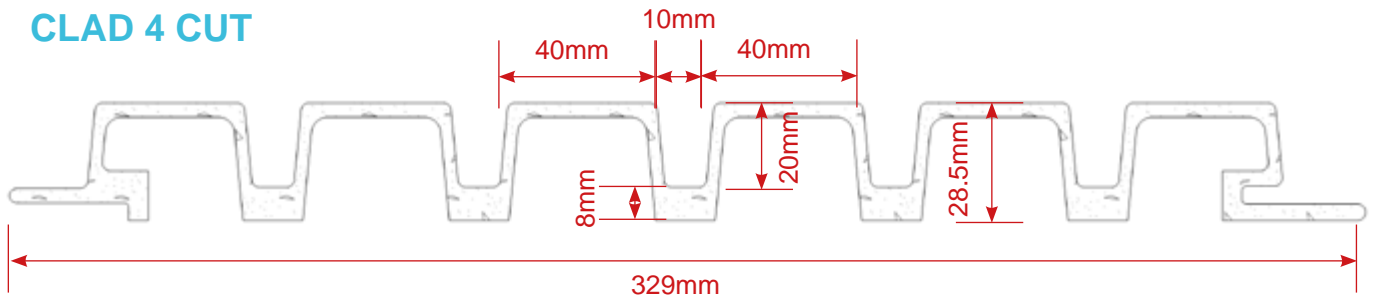


The fibre will naturally tan before fading and return back to the mineral pigment's original colour

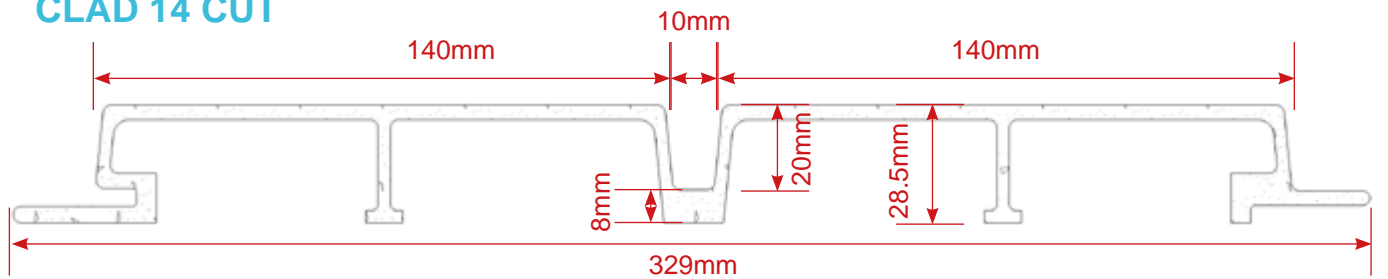


GLOBAL OVERVIEW

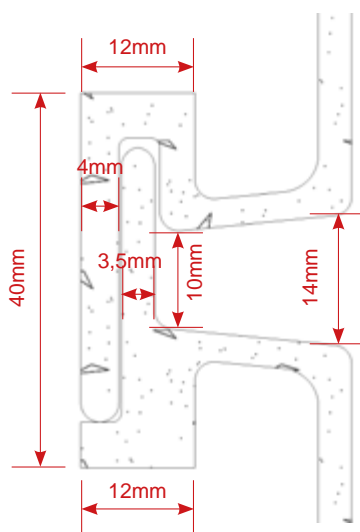
CLAD 4 CUT



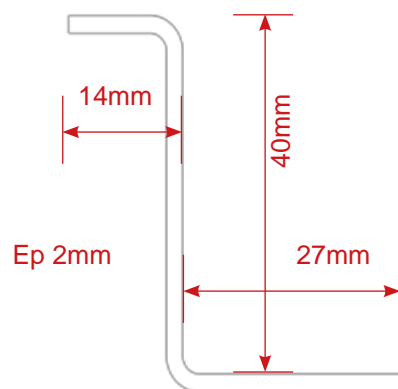
CLAD 14 CUT



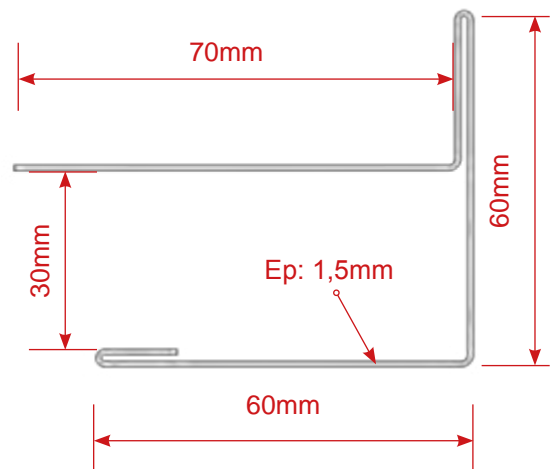
ASSEMBLY
DETAIL



PERFORATED
ALUMINIUM
START PROFILE

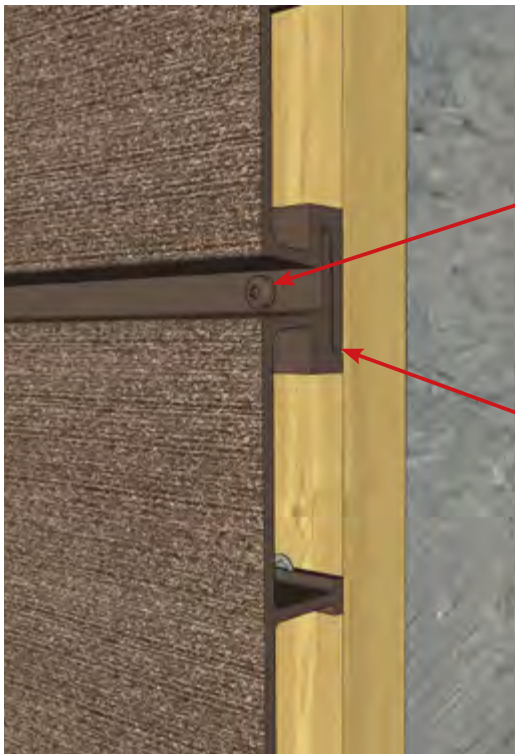


TINTED ALUMINIUM
COVER PLATE





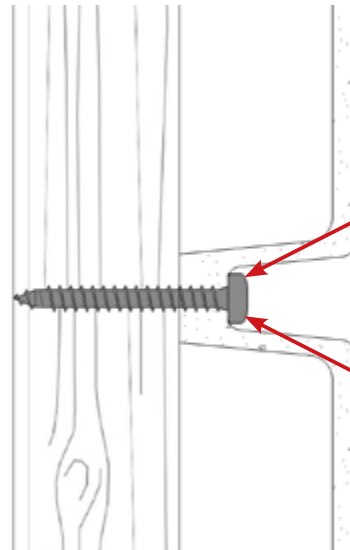
ASSEMBLY PRINCIPLES AND
FIXATION DETAILS



Screwing in bottom grooves after assembly

Abutment assembly

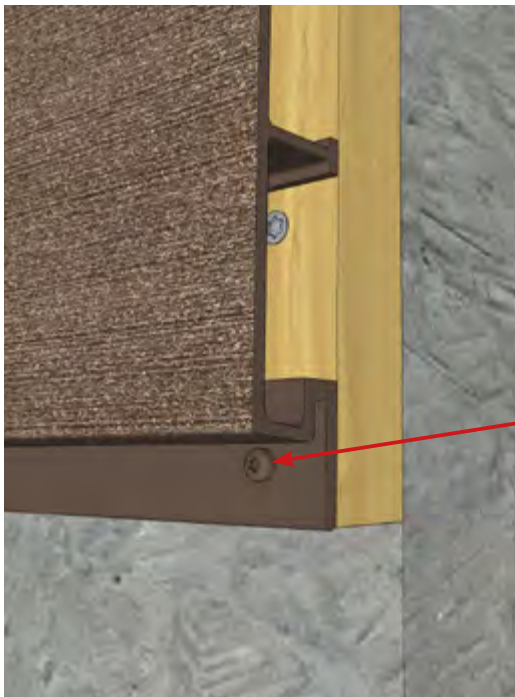
Junction of two boards



Screws type **SFS SN3/25- 4,2x32** with 8mm diam head for wood and aluminium structures

Screws type **SFS SAS3/11- 4,8x21** with maxi 9.5mm diam head for steel structures

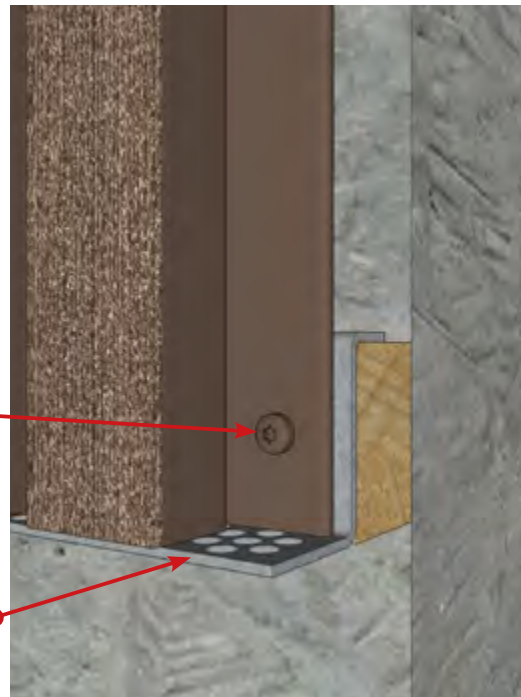
Fixation with screws for wood and metal structure



Screwing in the strap

Optional perforated starting profile

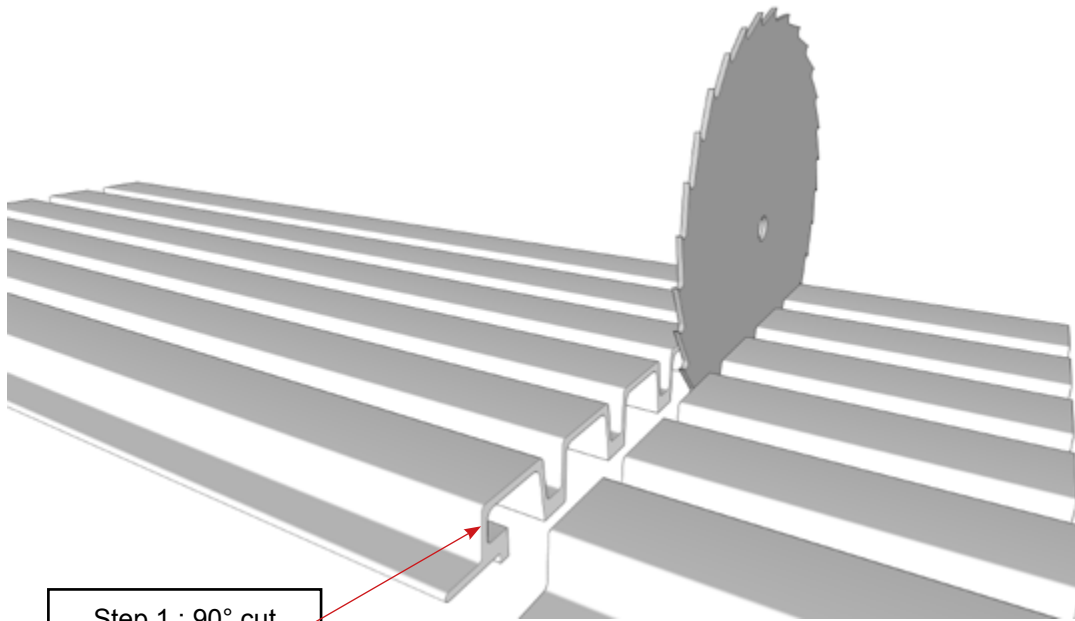
Bottom start horizontal installation



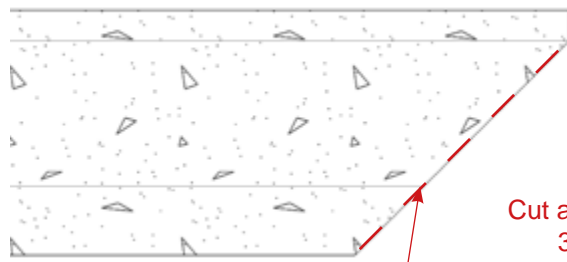
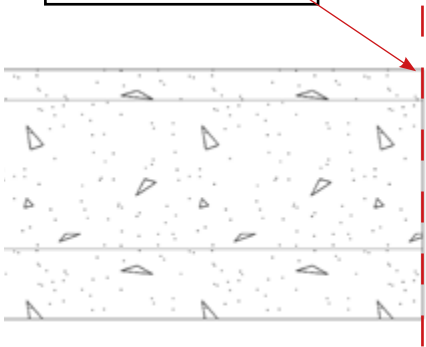
Bottom start vertical installation



«BIRD'S BEAK» CUTTING

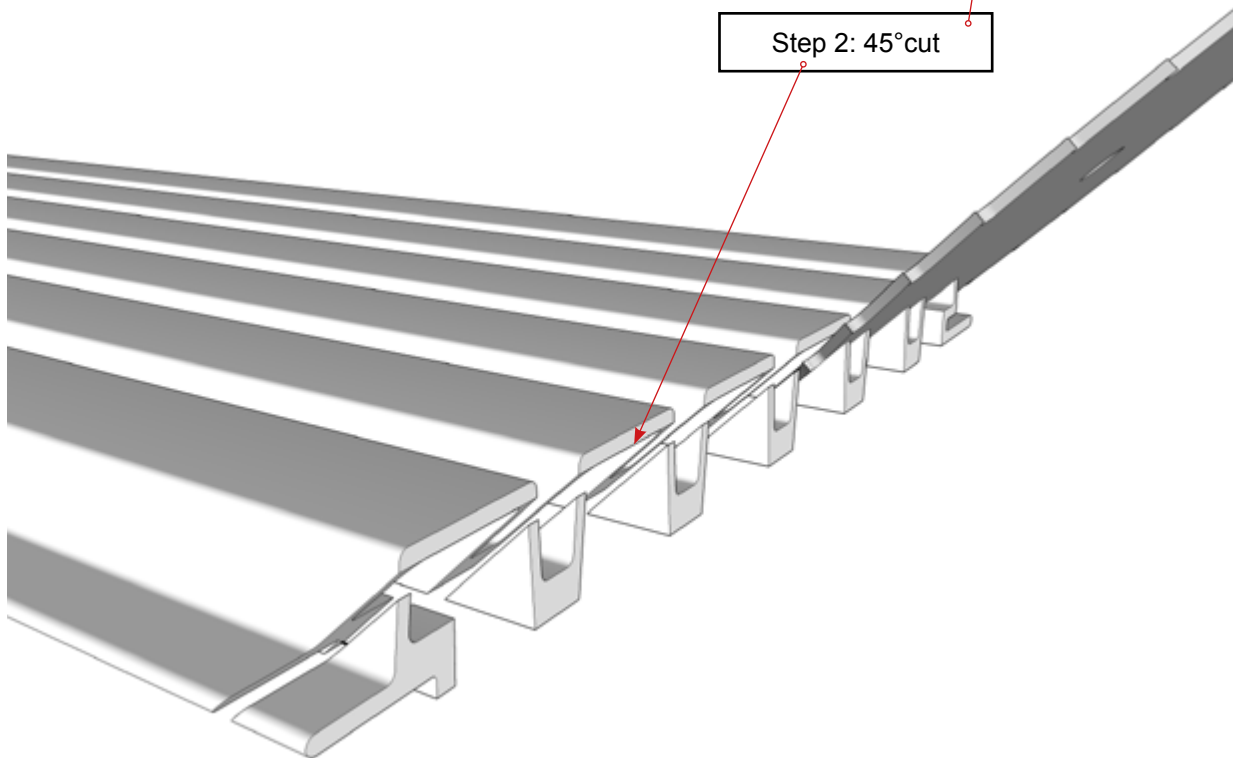


Step 1 : 90° cut



Cut at 45° under the 3,5mm face

Step 2: 45° cut



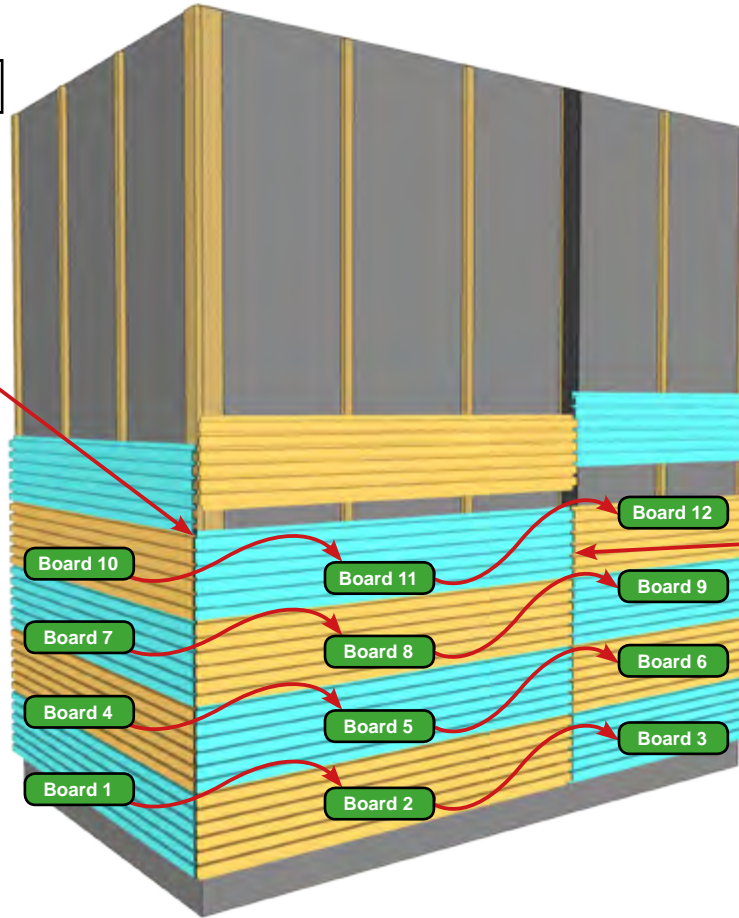


LAYOUT PRINCIPLES IN HORIZONTAL INSTALLATION

Recommended installation



Perfect alignments by setting up the strap all along the construction progress

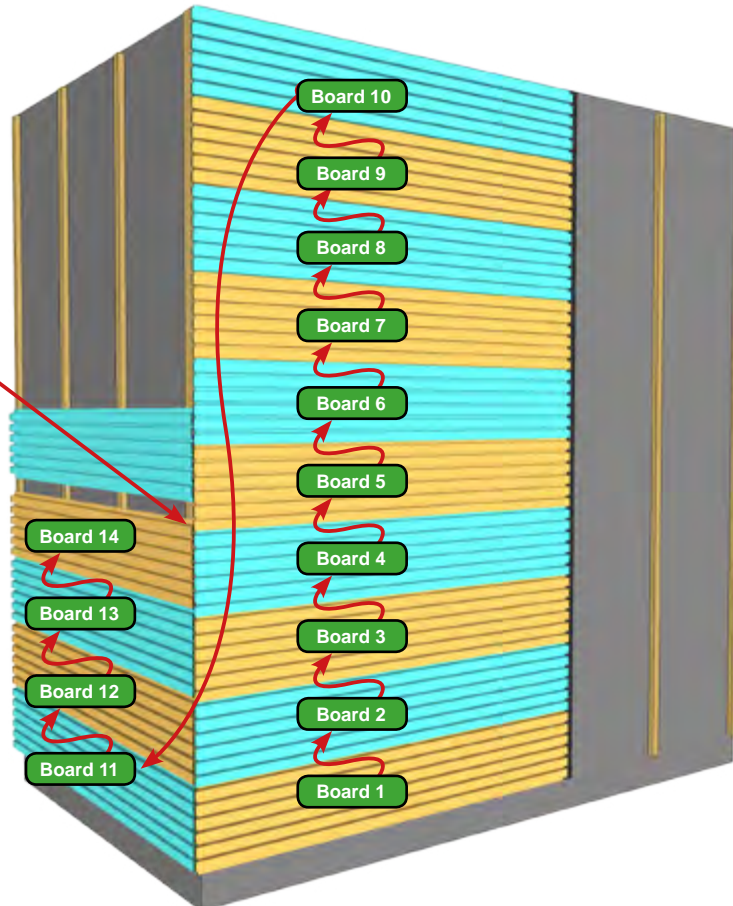


Perfect alignments by setting up the strap all along the construction progress

Installation to avoid



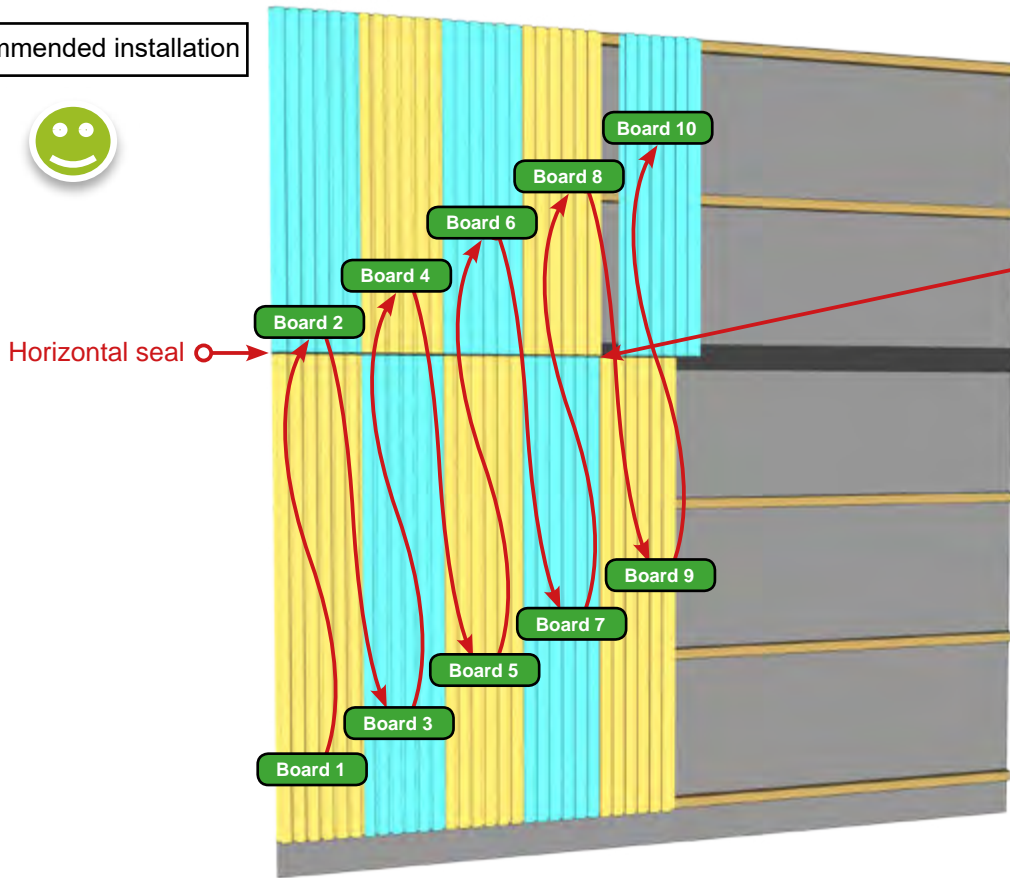
Due to natural tolerances in the width of the boards, the grooves may shift and not line up.





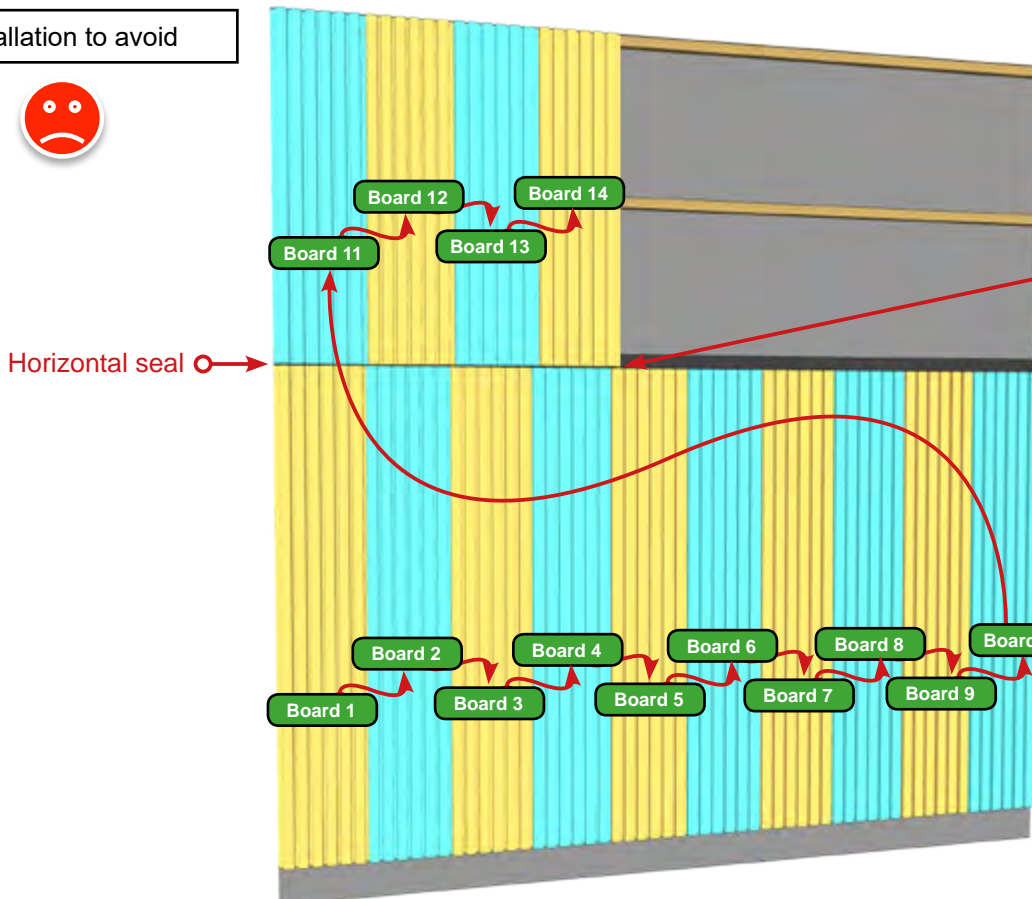
LAYOUT PRINCIPLES IN VERTICAL
INSTALLATION

Recommended installation



Perfect alignments by setting up the strap all along the construction progress

Installation to avoid



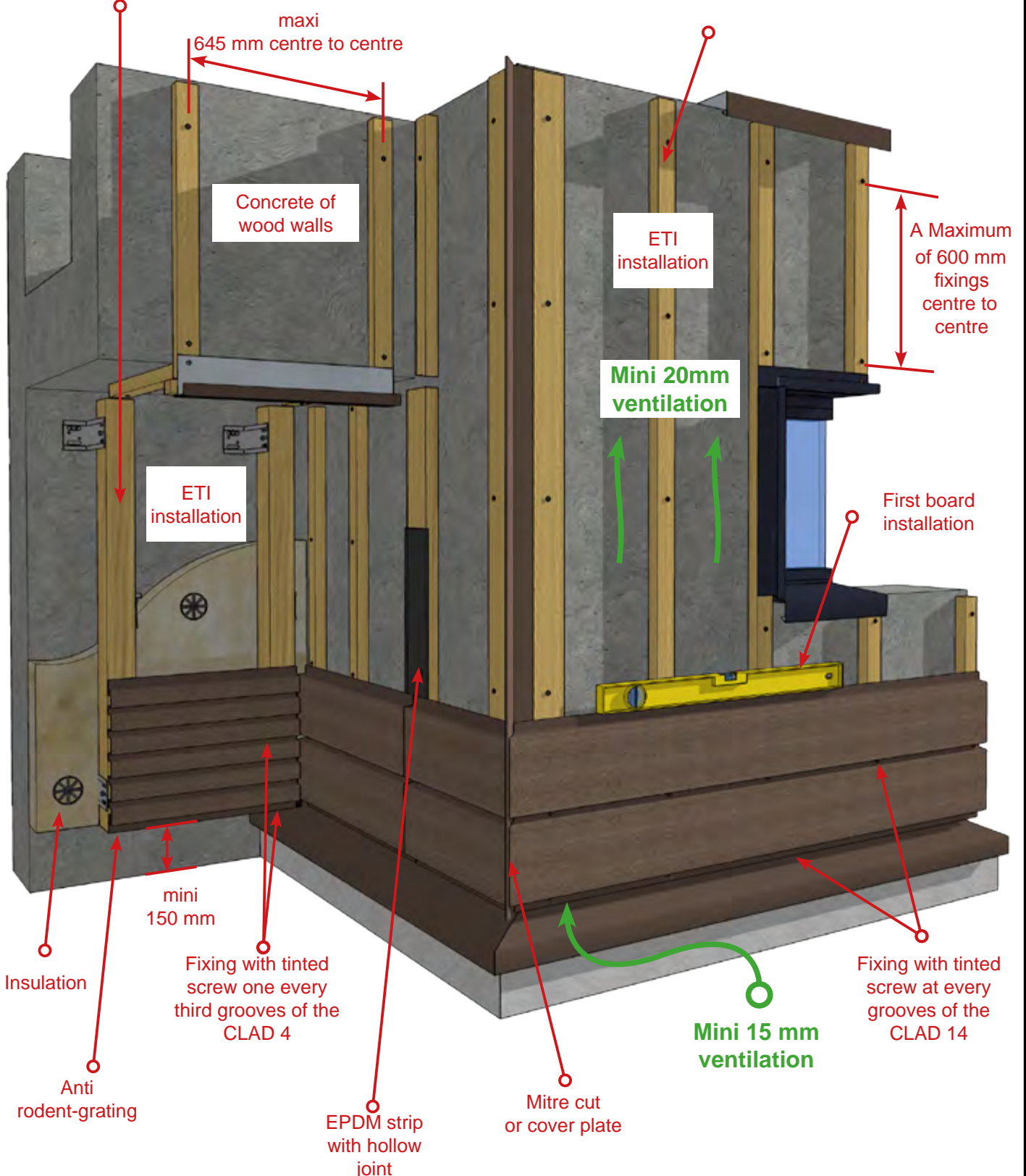
Due to natural tolerances in the width of the boards, the grooves may shift and not line up.



HORIZONTAL INSTALLATION ON ANY SUPPORTING WALLS

Battens should be 600mm
centre-to-centre
with a maximum 250mm foot
mounting in staggered rows
every 1000mm

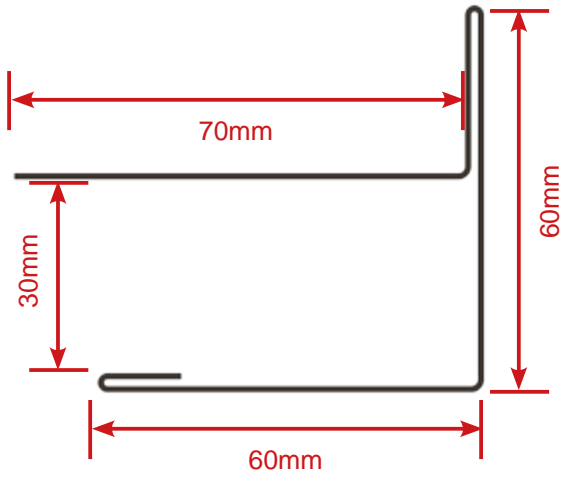
Battens 27x40mm wood batten
or 30x87mm metal battens
with 600mm maximum



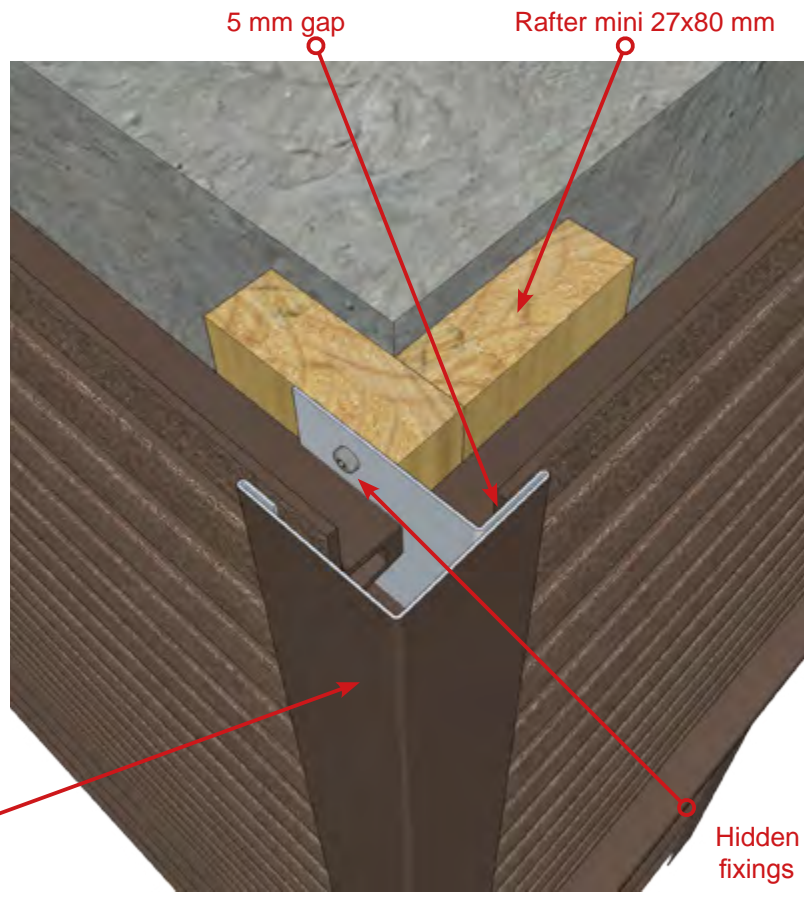


OUTER ANGLES WITH COVER PLATE OR PROFILE & COVERAGE GUIDE

OUTER ANGLE COVER PLATE IN F



Cover plate in F
NEOLIFE

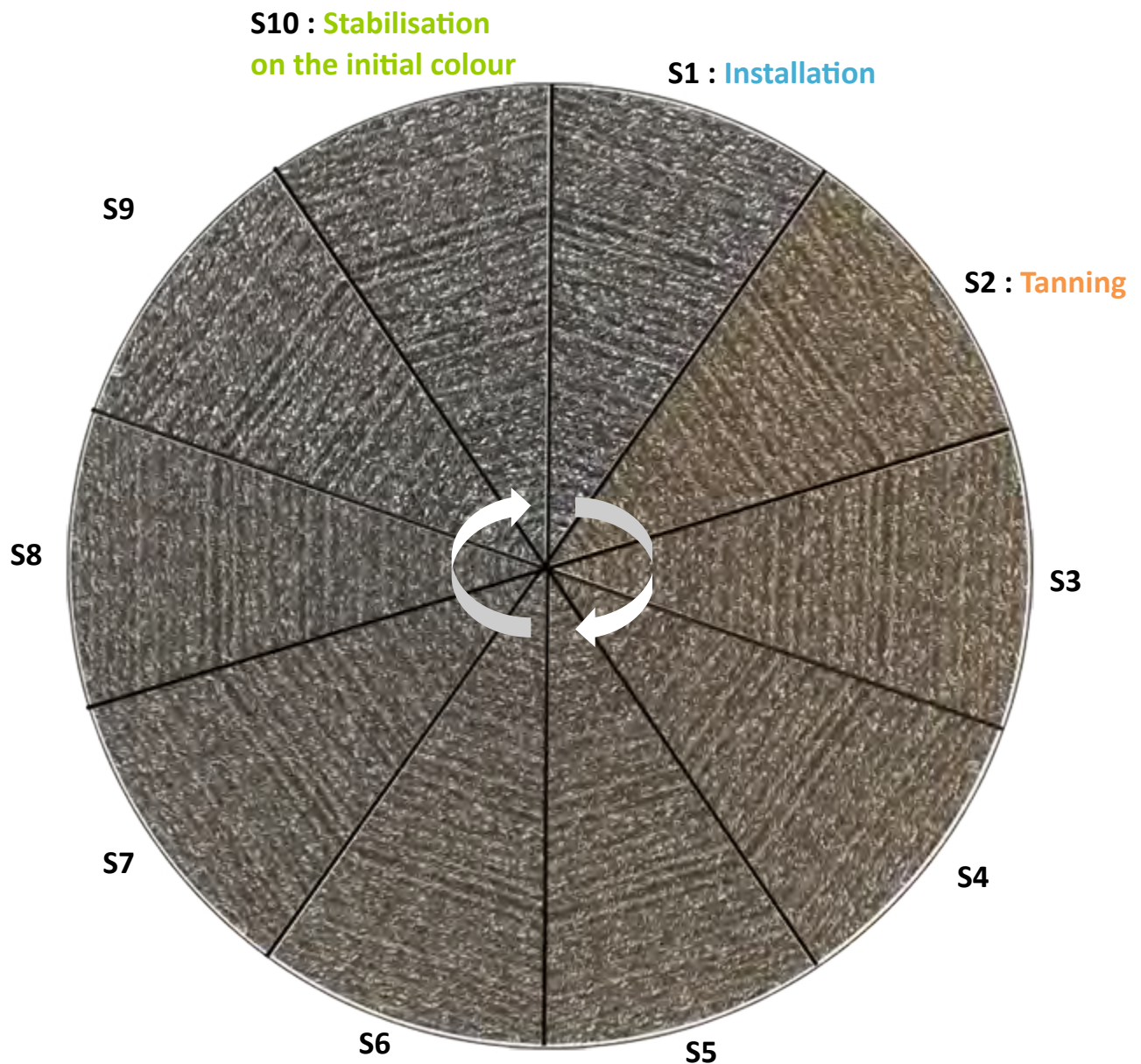


Number of screws per m ²	CLAD 4	CLAD 14
60 cm centre-to-centre spacing	13 / m ²	13 / m ²
40 cm centre-to-centrespacing	20 / m ²	20 / m ²
Number of screws / rib	1 / 3	Every ribs

AGEING

BOARDS AGEING PROCESS

- VESTA® X-RESIST is a natural material composed of 82% of wood fibres and mineral pigments which bring the colour.
- Within a few weeks, the boards will stabilise on the mineral pigment's colour.
- In the meantime, the fibre will naturally tan before fading and return back to the mineral pigment's original colour.



The final patina will be obtained within 10 weeks: the fibre will naturally tan before fading and return back to the mineral pigment's original colour.

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