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INSTALLATION AND MAINTENANCE RECOMMENDATIONS

THERMALLY MODIFIED WOOD. CLADDING.DECKING.

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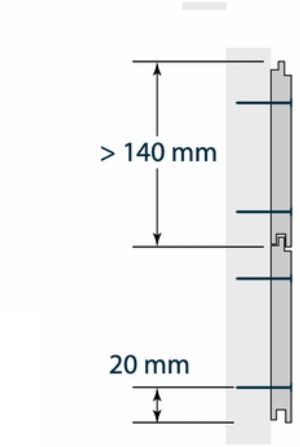
THERMALLY MODIFIED WOOD CLADDING INSTALLATION

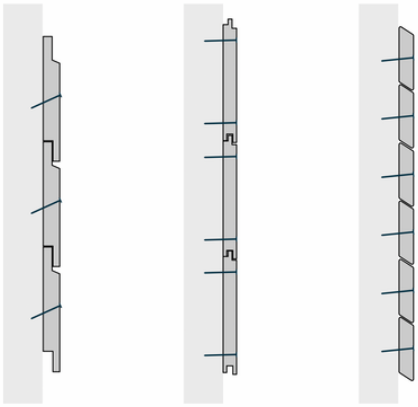
Thermally modified wood materials have a lower (more acidic) pH value than non-modified wood, therefore it is necessary to prevent possible fastener corrosion. When fastening thermally modified wood boards both indoors and outdoors, **stainless steel fasteners** (**A2 or A4 class**) or acid-resistant materials must always be used. Fasteners with lower acid resistance may react with thermally modified wood and cause corrosion, staining, and other damage. When using thermally modified wood together with other materials, any potential reactions between these materials must be identified in advance.

Thermally modified wood can be fastened with **nails or screws,** and various hidden fastening systems are also commonly used. The length of screws or nails must be **at least 2.5 times greater than the board thickness.** During installation, ensure that the screw and nail heads are flush with the wood surface. If exterior cladding or decking boards are fastened using a pneumatic nail gun, the tool must be equipped with a depth-adjustment mechanism—the nail head must remain flush with the board surface, preventing moisture penetration into the structure and ensuring an aesthetically pleasing result.

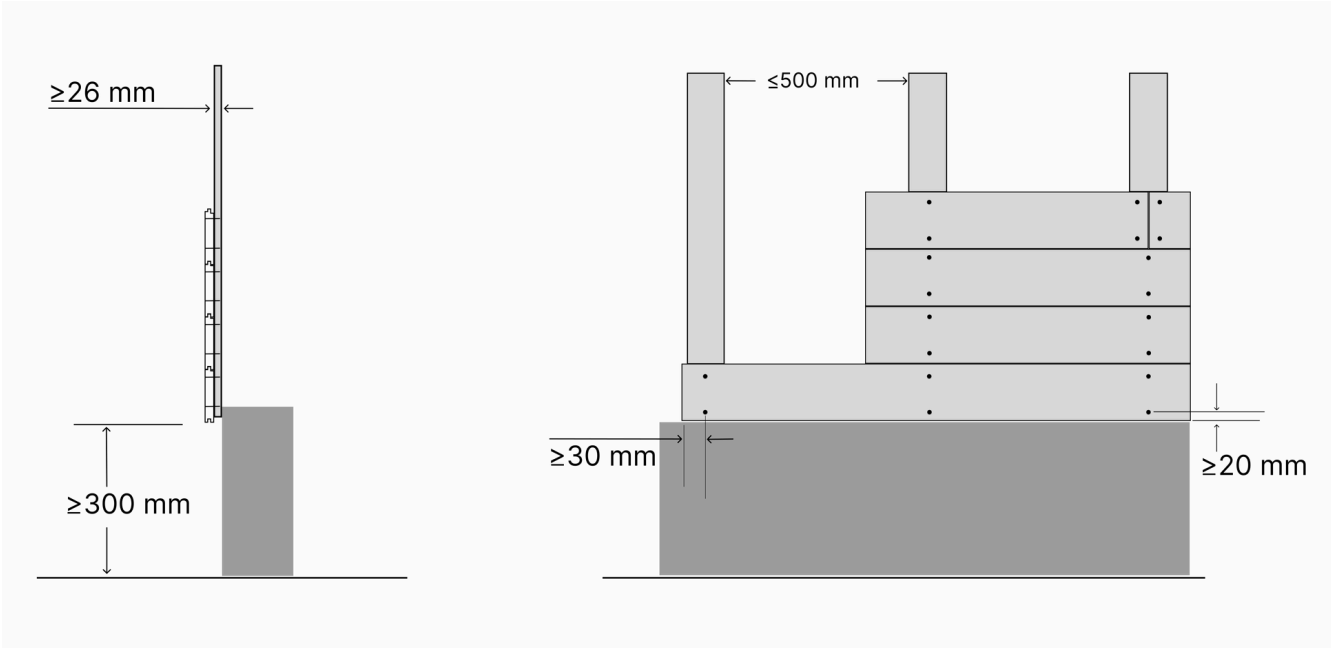
To avoid wood splitting when fastening boards with screws or nails, it is recommended to **pre-drill using a diameter of 3/4D** (D = screw/nail diameter). Pre-drilling is mandatory if the fastening point is located **less than 70 mm** from the end of the board or less **than 20 mm** from the board edge.

A single fastening point is sufficient for boards with **a width ≤117 mm**; for boards with **a width ≥140 mm, two fastening points** across the width are recommended. The spacing of support battens must be ≤500 mm. The boards should be installed with at least **3 mm gap.** Please consult SIA Termokoksnes.lv regarding the suitability of cladding profiles for vertical and horizontal installation.

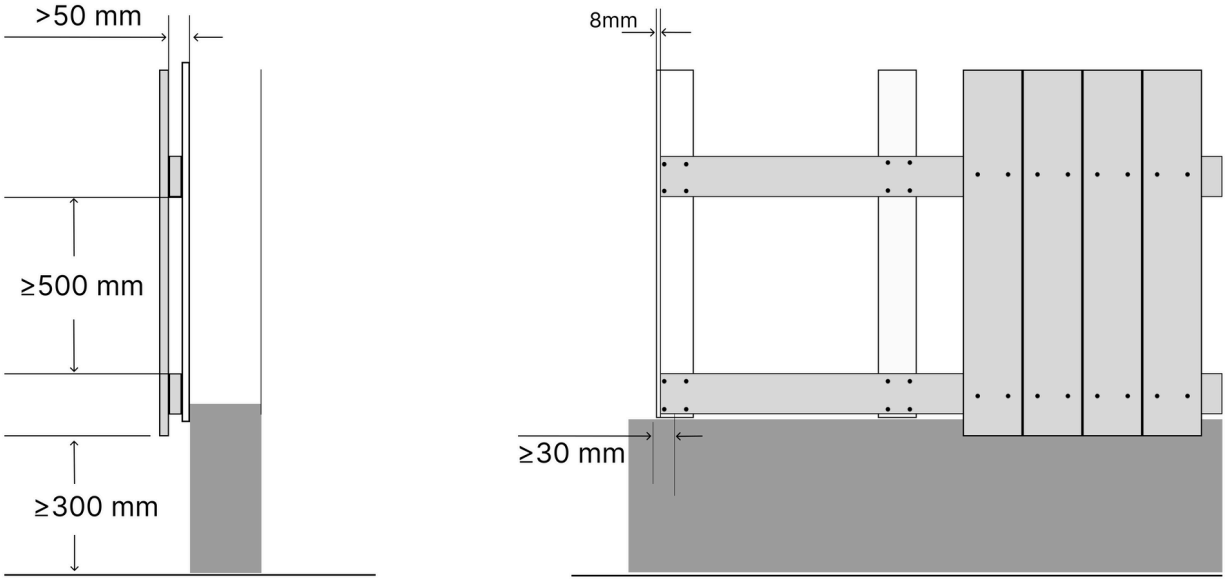




HORIZONTAL CLADDING INSTALLATION



VERTICAL CLADDING INSTALLATION

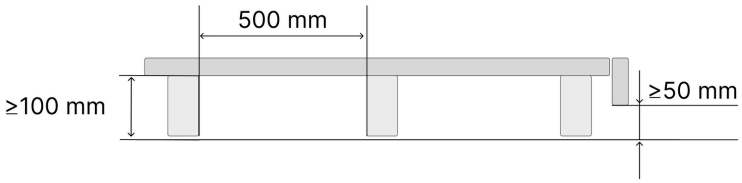


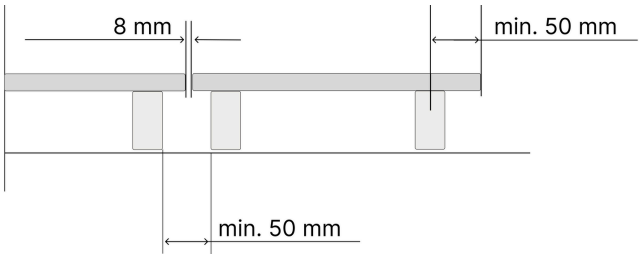
THERMALLY MODIFIED WOOD DECKING INSTALLATION

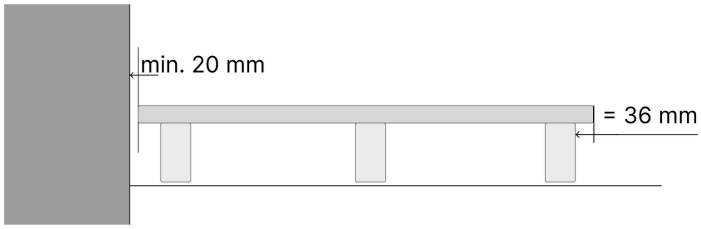
VienmAlways use stainless steel fasteners **(A2 or A4)** to install thermally modified wood decking boards. When fastening the boards with screws or nails, to avoid wood splitting, it is recommended to use a pre-drilled hole with a diameter **of 3/4D** (D = screw/nail diameter). Pre-drilling is not necessary when using self-drilling screws. The screw head must be flush with the decking board surface to prevent water accumulation around the screw head. A screw driven too deep may cause cracks in the board or lead to board breakage.

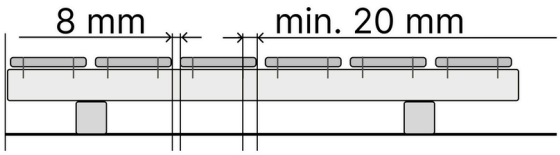
The spacing of support battens must be ≤500 mm for boards with a thickness of **26 mm and ≤600 mm for boards with a thickness of 40 mm**.

The recommended screw length is 1.5 times the board thickness (for a 26 mm board, we recommend a screw length of 40 mm).



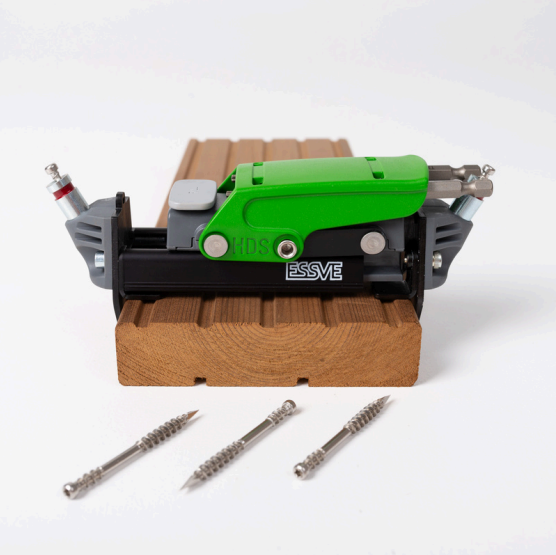


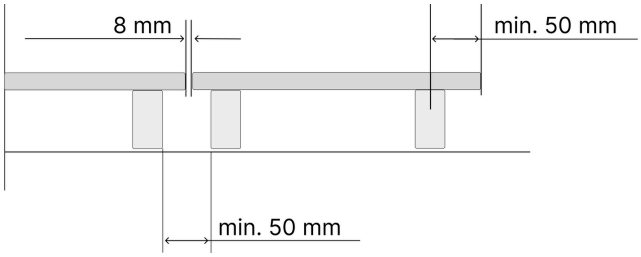


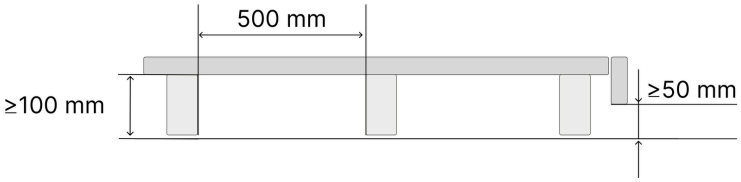


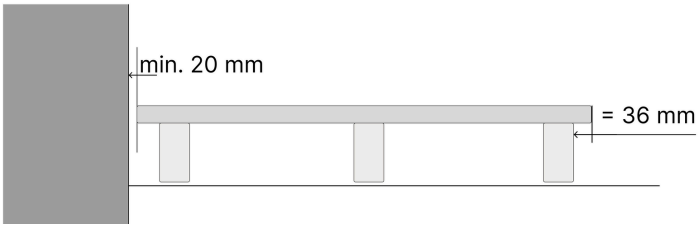
THERMALLY MODIFIED WOOD DECKING INSTALLATION - ESSVE SYSTEM

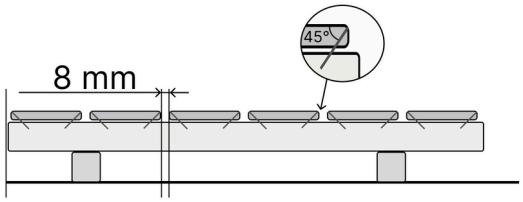
The ESSVE hidden decking system **(HDS)** allows you to build decking without visible screw heads. Always use stainless steel screws **(A2 or A4)** when installing thermally modified wood decking boards. The HDS system ensures that the screw is driven precisely to the correct position at a **45-degree angle**, making installation easier and faster.
The recommended screw for the HDS system is **A2/A4, L = 60 mm, dk = 4.8 mm, D = 5 mm, B = 25 mm.**
The spacing of support **battens must be ≤500** mm for boards with a thickness of 26 mm and ≤600 mm for boards with a thickness of 40 mm.











THERMALLY MODIFIED WOOD MAINTENANCE

Thermally modified wood that is exposed to outdoor weather conditions—i.e., exterior cladding and decking boards—should be maintained at least twice a year, in autumn and spring. Household and organic debris, leaves, and soil that accumulate under the deck must be cleaned out.

Without pigment-based colour treatment, thermally modified wood develops a silvery-grey patina; colour changes caused by sunlight will become noticeable after about 6 months.

Colour change of thermally modified pine under sunlight without colour treatment:

If thermally modified boards are treated with colour:
For cladding, we recommend renewing the colour: after 5 years on the south-facing side, and after 7–9 years on the north-facing side.
For decking, colour renewal is needed every 2 seasons.

If you have any questions, please contact us

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