

SLP-ThermoWood®

Installation and maintenance instruction



Feel the value of wood



Suomen Lämpöpuu

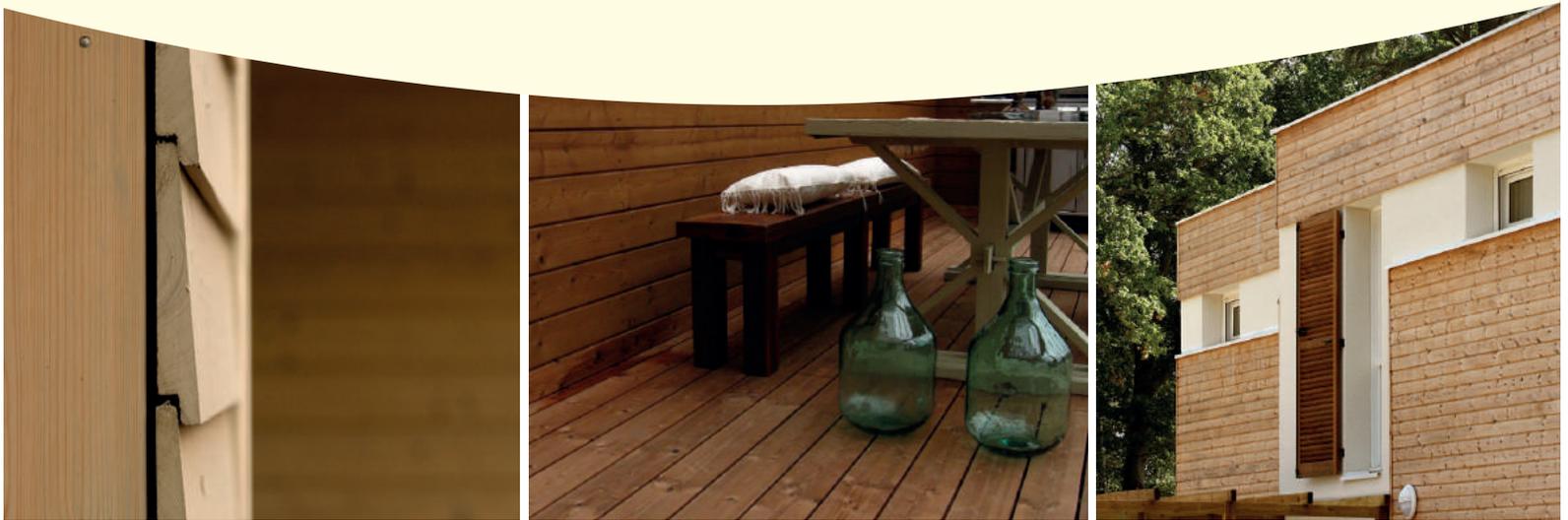
SUOMEN LÄMPÖPUU AND SLP-THERMOWOOD®

Thermo-treatment provides the wood with quality characteristics. It improves the decay resistance, weather resistance and thermal insulation properties of the wood.

Our products are very natural. No chemicals whatsoever are used in our processes, only heat and water steam.

We believe in the excellent features of SLP-ThermoWood® and we want to offer our customers quality products, in which are combined good durability and ecology.

Suomen Lämpöpuu offers our customers quality and luxury.



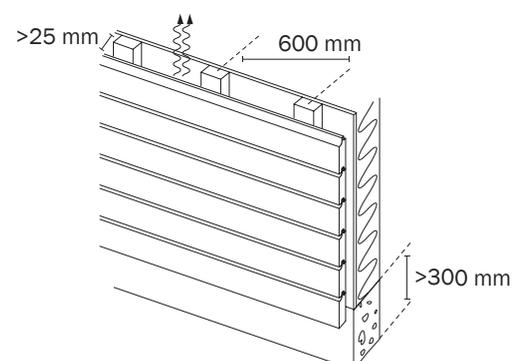
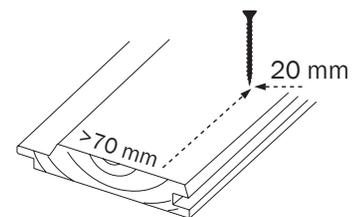
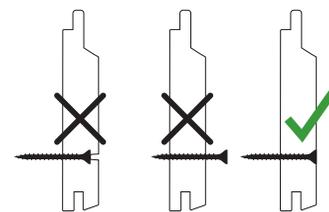
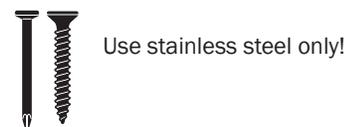
INSTALLATION THERMOWOOD® WARMCLAD AND VIVAXCOLOR

The underlying, supporting boards should be at least 25 mm thick and should be spaced at 600 mm intervals. Panels can be installed vertically or horizontally. If vertically, the supporting boards should be crossed so that air can circulate behind the cladding. Ventilate at top and bottom, space between components 4 mm. Set the boards heartside up.

To be attached with self-tapping and countersinking screws or by pre-drilling the holes. Use low threaded screws, stainless steel hardware is recommended.

Drive the screws in carefully till the heads are level with the board surface.

Attach the screws 70 mm from the ends of the boards and 20 mm from the board edges. Leave 4 mm space between components.



SURFACE TREATMENT THERMOWOOD WARMCLAD

SLP-ThermoWood products for exterior construction (Thermo-D processing) have a decay resistance classification 1 – 2. Products in this class are suitable for outdoor use without additional surface treatment. Without it, thermo-treated wood will grey quickly from UV radiation, but this does not weaken the wood's properties or durability.

Nonetheless, surface treatment protects the wood from wear and improves its appearance. Surface treatment can impact the wood's moisture retention and reduce cracking. It also prevents surface greying and slows water absorption. It is fine to apply ordinary surface treatments to ThermoWood products. However, it is always wise to check manufacturer recommendations as to which of their offerings is best suited for thermally treated wood.

When applying protective surface materials to thermally treated wood products, take into consideration how the heating process has affected the wood's structure. Absorption is generally slowed and the different parts of the wood become more permeable. To maximize absorption of a wood treatment product, you first need to open the surface tissue of the wood as usual. You can do this by brushing, sanding or leaving the surface fine-sawn. Thermally treated wood is stable and resin-free, which is advantageous for surface applications: the wood surface no longer changes, and the coat lasts longer without cracking.

Depending on the desired result, the surface can be treated with paint, wood protection products, or wood oil. If you want to preserve the color of the thermally treated wood, select a transparent wood protection product or suitably pigmented wood oil.

Our product selection includes surface-treated ThermoWood® VivaxColor exterior cladding panels that come ready to install. Industrial surface treatment offers advantages in uniformity and quality. The surface treatment is applied under conditions that optimize temperature and moisture levels, ensuring uniform quality throughout. The panels are carefully brushed beforehand to improve the paint's even distribution and absorption. Then primer is applied first, followed by two or three coats of paint, depending on the color. We offer panels in five basic RAL colors (black, white, green, red, grey). On request we also provide customized colors.

Our painted/oiled products come ready to install, which reduces work on site because no surface treatment phase is needed. This saves the customer considerable time and effort.





INSTALLATION THERMOWOOD® WARMDECK

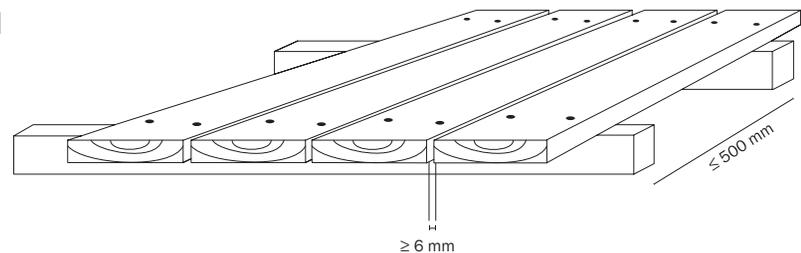
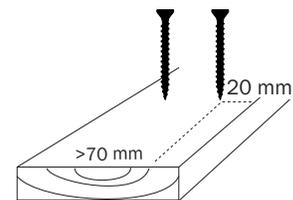
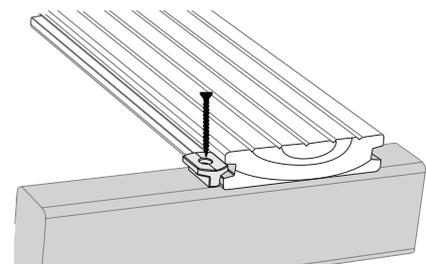
Set the boards heartside up. To be attached with self-tapping and countersinking screws or by pre-drilling the holes. Use low threaded screws, stainless steel hardware is recommended. The underlying, supporting boards should be at least 25 mm thick and should be spaced at 500 mm intervals. Leave at least 6 mm space between components and leave at least 100 mm space to the ground.

The deck can be attached with screws directly through the top of the deck boards or with the SLP concealed fastening system. The advantage to concealed fastening is that the tops of the screws are not visible and you can thus obtain a smooth, harmonious, elegant surface. An additional advantage is that concealed fastening requires fewer screws and they do not have to be stainless steel. The deck boards are fastened directly to the wood frame with screws through nylon clips concealed in grooves between the boards.

When attaching the deck with screws directly through the top of the deck boards, attach the screws 70 mm from the ends of the boards and 20 mm from the board edges.



Stainless steel recommended



OILING THE DECK:

Wash the deck with an appropriate cleaning agent. Rinse thoroughly.

After washing, let the deck dry for about 24 hours before oiling. A dry surface absorbs oil better.

Spread the oil with a brush or sponge. If the wood absorbs a lot of the oil, repeat a second time. Wipe away any unabsorbed oil.

The deck can be used once the surface has dried.



CARING FOR THERMOWOOD PRODUCTS

Compared to untreated wood, thermally treated wood has superior ability to resist decay and withstand weather. Exposure to weather does cause its color to fade and grey, and without surface treatment, small microcracks may appear on the wood's surface. Nevertheless, thermally treated wood does not crack, warp, cup or curl the way untreated wood does, because after the heat processing it no longer changes shape. If no surface treatment is applied to the ends of the wood, however, water may seep out there and cause cracking.

It is not possible to give one set of instructions to cover all thermally treated products. Maintenance requirements depend on many factors: the prevailing climate, fluctuations in humidity, specific location and any surface treatment. Deck boards not under a roof experience the most intense wear. The deck may be exposed to strong UV radiation and standing water that lingers on the boards, both of which cause surface wear. Impurities carried by the wind may intensify the problem in some locations. In certain climates, decks may be repeatedly snow-covered and may freeze and thaw.

Exterior cladding is not generally exposed to as harsh stress as a deck because water does not collect on its surface. Even so, we recommend checking the condition of decks and exterior cladding annually. Impurities such as air-borne pollutants and pollen should be cleaned off the surfaces as quickly as possible before they become fixed in place. It may be enough to wash with water, but a gentle soap solution can also be used on wood to remove more stubborn dirt. Painted surfaces can be cleaned with cleaning products recommended by the paint manufacturer.

To keep the deck surface in the best possible condition and preserve its original color, we recommend that decks exposed to harsh conditions be treated with pigmented wood oil once or twice a year. For decks that are covered and subject to less wear, one treatment a year is enough.

When you choose a surface treatment option, always check the manufacturer recommendations regarding thermally treated wood.

Good care can lengthen a product's service life. Surface treatment is especially valuable for deck boards exposed to stress from weather and from wear and tear. We recommend you also check the boards' attachment points once a year.

When properly cared for, thermo-treated products are extremely durable and decay-resistant. They also withstand humid climates well, retaining their form.





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ISO 9001
BUREAU VERITAS
Certification

