THERMORY®

Maintenance Guide

Cladding

All Thermory exterior cladding boards undergo intense thermal modification and are durable, stable and rot-resistance without additional surface treatment. For Thermory coated claddings, maintenance painting requirements are based on the specific product. Using the correct installation and supplemental maintenance techniques will result in the most beautiful and long-lasting wooden cladding.

THERMALLY MODIFIED

HIGH DURABILITY

STABILITY

CHEMICAL-FREE NON TOXIC

SUSTAINABLE REAL WOOD

Thermal modification is a way of naturally enhancing wood. The chemical-free heat treatment makes the wood durable and stable for both indoor and outdoor use, giving it a beautiful deep shade and bringing out its natural beauty.

Unlike chemical impregnation, Thermory's thermal modification enhances the wood throughout, not just the outer surface. The result is quality boards that are stable and durable in every sense.

Vivid Opaque by Thermory brushed and painted cladding, C34 thermo-pine. Private house in Estonia. Photography Terje Ugandi

Thermally Modified Cladding Maintenance Guide

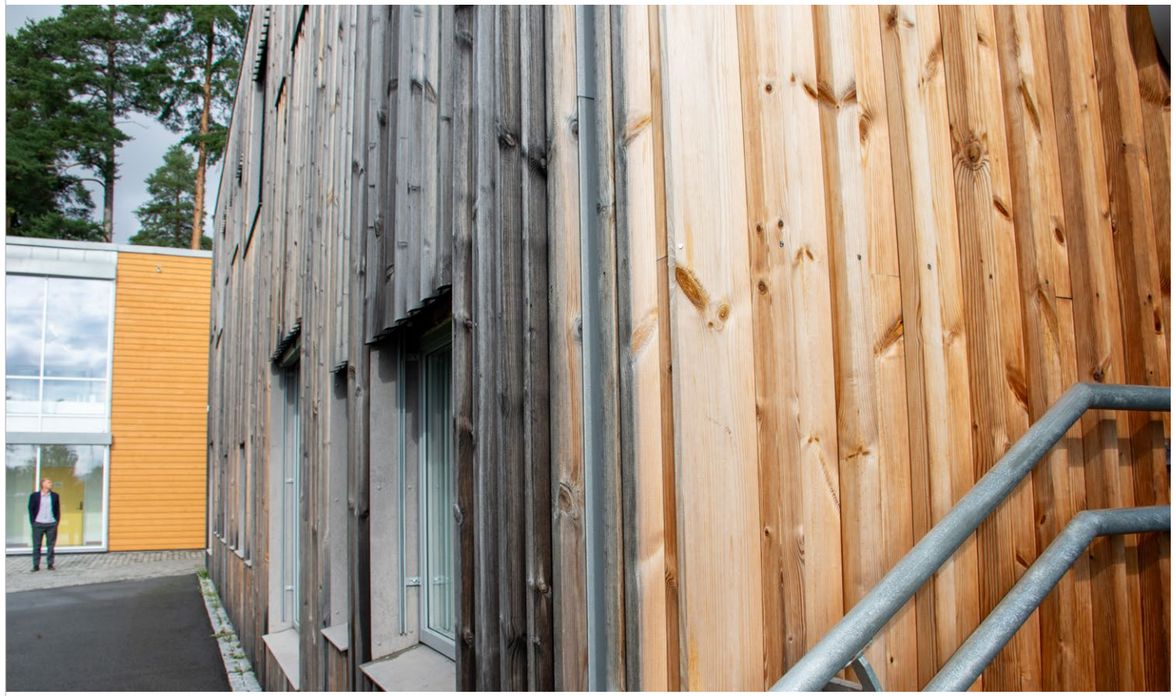
Natural uncoated thermally modified wood does not require any special care. Thermory's thermally modified cladding boards are durable and remain weatherproof for decades, even in the most demanding climates. To ensure that the wood lasts as long as possible, it is important to follow correct installation and maintenance techniques.

If you use thermally modified cladding boards **indoors**, you'll be able to enjoy the beautiful deep wood tone for decades. If the wood becomes dirty, simply wipe off any dirt or dust with a cloth, or wash with water and a soft brush.

When using the boards **outdoors**, the surface will turn gray over time, just like any other wood product. The process starts immediately after the products are installed and can take anything from a few months to a few years depending on the intensity of UV radiation and water exposure they're subjected to.

Keep in mind that wood is a natural material and so any color changes may be uneven. Each board ages in its own way, and different sides of a buliding's façade will also age differently depending on the sun and rain they're exposed to.

Residential building in Norway. Thermory thermo-pine cladding a few years after installation. Photo by Thermory.



Public building in Norway. Thermory thermo-pine cladding a few years after installation. Photo by Thermory.

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After installation

Unoiled wood exposed to UV light and water

If you want to maintain or change the color of your thermally modified wood cladding:

To maintain uncoated natural thermally modified wood cladding with intention to never surface coat and have it go naturally gray, we recommend washing it with water. If needed, you can sand, brush or wash the wood with wood cleaners on your own responsibility. These actions help even graying and longer lifetime of the cladding.

In order to keep the original brown tone of thermally modified wood, coat it with a UV-resistant pigmented finish such as stain, paint or oil.

Thermory cladding boards can be coated in all possible colours with a variety of UV-resistant pigmented finishes such as, stain, paint or oil. Thermowood compliant finishes have to be used.

Sealing the ends of the boards prolongs the claddings lifetime. Even with the unfinished façade, end-sealing is a must! If the boards ends are accessible you can keep on sealing them over the lifetime.

Cleaning thermally modified wood:

Thermally modified wood can be washed with water. For rinsing, it's a good idea to use a garden hose with a spray nozzle in a soft shower setting; test it on a small area beforehand. A strong jet of water can damage the wood material and result in an uneven appearance.

When to maintain your outdoor cladding?

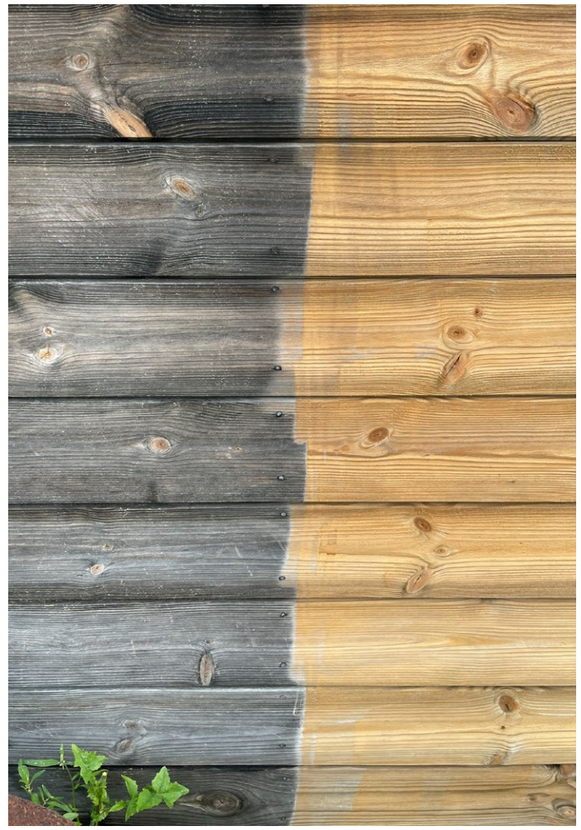
We recommend cleaning the wooden façade if it becomes dirty or mossy, and at least once annually.

If you want to cover the board with oil or paint, clean the surface beforehand and make sure that the surface is dry before you begin.

Always follow the instructions supplied by the oil or paint manufacturer, as application and drying times can vary.

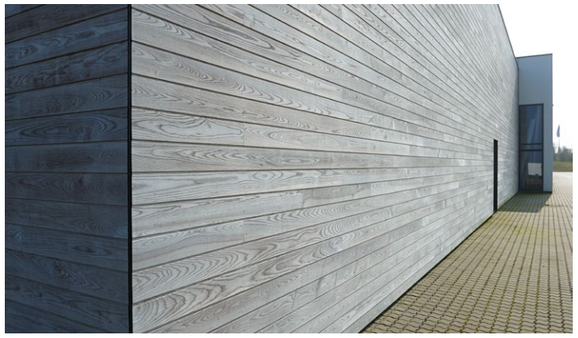
A nearly original thermowood appearance can be restored through professional pressure washing or surface blasting. While the result won't be flawless- some discoloration and streaks will always remain- the overall change in appearance may be sufficient to justify the effort.

Do not use low-pressure home pressure washer as in this case streaks and nozzle marks will inevitably be visible. Use hot water and professional washer with high pressure. Test the outcome on a small area first, and proceed at your own risk. Keep in mind that any pressure washing or blasting removes a thin surface layer of wood, meaning it causes some damage. Therefore, it shouldn't be done too frequently, but overall, it can be a worthwhile tradeoff. Refer to the photos as an example.



9 year old thermowood wall, partially pressure washed. Photo by Thermory.

Thermory Benchmark thermo-ash cladding few months after installation. Maidla Nature Resort in Estonia.
Photography Elvo Jakobson.



Unoiled Thermory Benchmark thermo-ash one year after installation. Denmark.

Unoiled Benchmark thermo-pine cladding and roofing one year after installation. Apartments in Poland.
Photo and distribution: Komplex Market.

Thermory thermo radiata pine in Vivid Opaque Black, Oomens Timber Products B.V. Photo Studio Meulenberg.

NB! When using thermo-radiata pine cladding for exteriors, we recommend applying a finish to seal the wood due to its porous structure. Thermory's products include factory-finished thermally modified radiata pine cladding, for which the product-specific maintenance instructions should be followed. Unfinished radiata pine cladding should be oiled or painted on all four sides with a UV-resistant surface-sealing oil or paint prior to outdoor installation, with the finish regularly reapplied before it wears off. You can also leave your thermo-radiata pine cladding un- coated, but dust and other airborne particles are more likely to adhere to the porous surface of the natural wood.

Finishing the wooden façade:

1. Clean any dust or dirt from the wooden facade using water and a scrubbing brush.
2. For finishing, the façade surface must be clean and dry.
3. Use a scraper to remove any excess dirt, loose paint or resin that has accumulated in the surface.
4. Before using a tinted finishing product, mix it thoroughly and test the suitability of the shade on a small area.
5. We recommend using the tool suggested by the manufacturer of the finishing product.
6. Apply the finishing product along the cladding board according to the manufacturer's instructions.
7. We recommend following the instructions provided by the paint manufacturer.

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Thermory Coated Cladding Maintenance Guide

THERMORY VIVID SERIES

Vivid by THERMORY®

VIVID SILVERED

Vivid Silvered brushed and gray-tinted products do not require any special care other than cleaning, as their appearance harmonizes with the natural gray tone of the wood over time.

We recommend leaving Vivid Silvered cladding to weather naturally rather than repainting it, but if you would like to update your cladding with a fresh new look, it can simply be repainted with any paint that is approved for use on exterior thermally modified wood cladding. Test the suitability of the hue on a small area before applying the finish, and follow Thermory's finishing maintenance instructions.

If the wall becomes dirty, clean the surface with water and a soft brush.

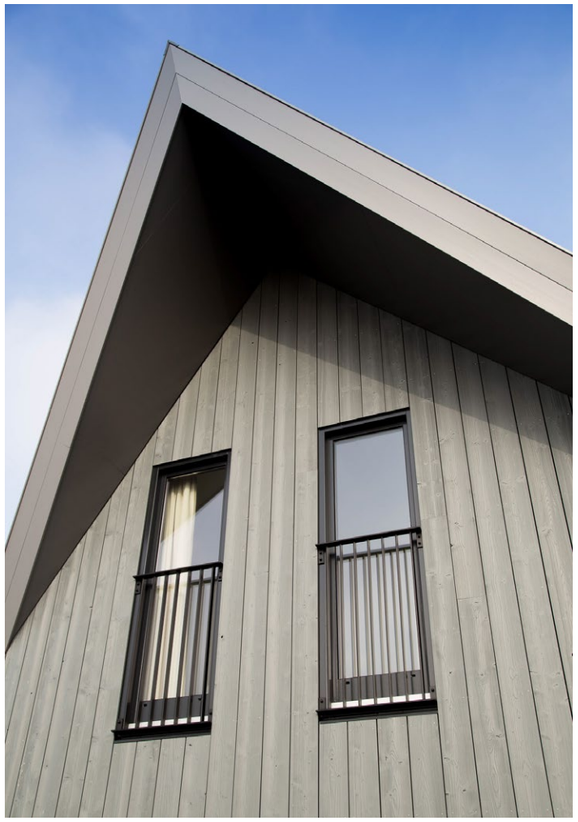
Residential building in Norway. Vivid Silvered Shield cladding 6 years after installation. Distributor: Moelven. Photo by Thermory.

VIVID OPAQUE

Vivid Opaque cladding boards are coated with a full-covering finishing agent. We recommend performing maintenance painting when the paint layer of the cladding board has become worn and the appearance is uneven.

For Vivid Opaque 7D and Vivid Opaque 10 cladding, we recommend applying a maintenance finish whenever the paint layer wears down to leave the cladding board with an uneven appearance, and at least every 7-10 years, with a water-based opaque paint that is approved for use on exterior thermally modified wood cladding.

Vivid Opaque thermo-spruce cladding. Holiday Houses in Netherlands. Distrubution & Photography InterFaca.



VIVID TRANSLUCENT 3, 5D, 7

Vivid Translucent cladding boards are covered with a semi-translucent coating.

Maintenance coating should be carried out:
Vivid Translucent 3 - every 1-3 years
Vivid Translucent 5D – every 3-5 years
Vivid Translucent 7 – every 5-7 years

To finish, choose a semi-translucent water-based paint based on the tone you want to achieve for your façade.

Vivid Translucent 3 Brown. Private house in Estonia.
Photography Aivo Kallas.

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Oiled Thermory Benchmark thermo-ash cladding. NOA Restaurant in Estonia Photography Elvo Jakobson.

VIVID OILED CLADDING

Vivid oiled cladding boards are covered with a water-based oil. We recommend carrying out maintenance oiling when the oil layer of the cladding board has worn and the appearance is uneven. The expected service lifetime of the oil is 1-3 years, depending on weather conditions and the building's location. The oil should be reapplied minimally every three years, but if the existing layer of oil becomes worn and uneven the oil may be applied before the three year mark.

Carrying out maintenance finishing:

1. Remove any loose finish, dust or other dirt from the wooden façade using water and a scrubbing brush.
2. The façade surface must be clean and dry before applying the finish.
3. If using a tinted finishing product, mix it thoroughly and test the suitability of the hue on a small area first.
4. We recommend using the tool suggested by the manufacturer of the finishing product.
5. Apply the finishing product along the cladding board according to the manufacturer's instructions.
6. We recommend following the instructions provided by the oil manufacturer.

Vivid Oiled Black (thermo-ash)

Vivid Oiled Dark (thermo-ash)

Vivid Oiled Dark (thermo-pine)

Vivid Oiled Light (thermo-pine)

VIVID STRIPES CLADDING

Vivid Stripes cladding boards mimic the appearance of open cladding thanks to the black stripes in the panel grooves. We recommend maintaining the black stripes simply by cleaning the façade. We have not forseen recoating the black stripes, but it can be carried out with care.

We recommend leaving Stripes cladding to weather naturally rather than repainting it, but if you would like to update your cladding with a fresh new look, it can simply be repainted with any paint that is approved for use on exterior thermally modified wood cladding. Test the suitability of the hue on a small area before applying the finish, and follow Thermory's finishing maintenance instructions.

Stripes by Thermory, thermo-spruce CAR10 26x140, smooth.

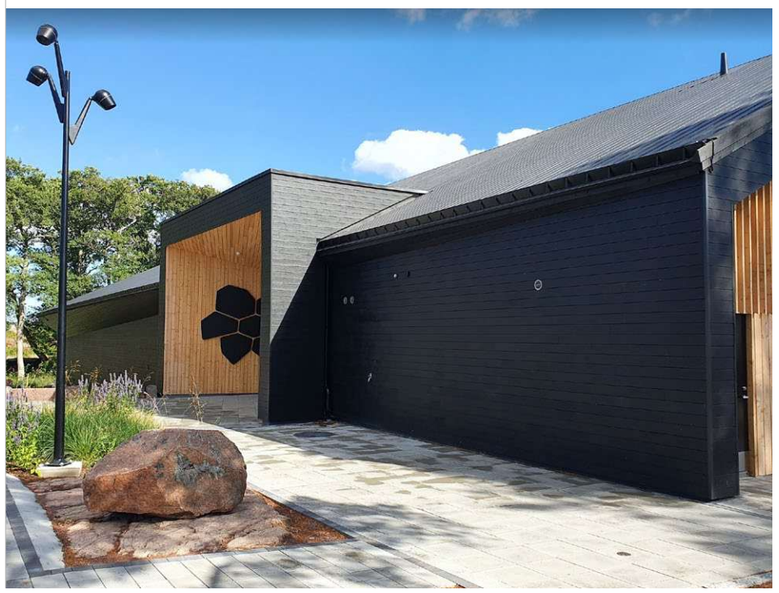
Stripes by Thermory, thermo-pine C34 20x90, brushed.

IGNITE 3, 5, 7 BY THERMORY

We recommend performing maintenance painting for Ignite if the paint layer of the cladding board is worn and the appearance has become uneven.

Maintenance coating should be carried out:
Ignite 3 - every 1-3 years
Ignite 5 - every 3-5 years
Ignite 7 - every 5-7 years

Reapplying the black paint regularly preserves the visual effect of a burnt surface on the wood.



Thermory Ignite 5 thermo-spruce cladding. Bomarsund Visitor Centre in Åland. Architect Daniel Andersson.

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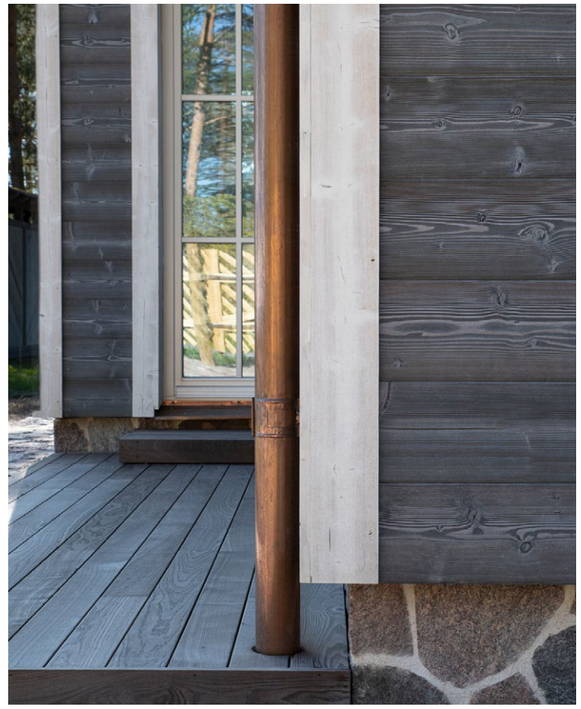
DRIFT BY THERMORY

Drift by Thermory imitates the look of reclaimed wood, mimicking products that have been painted in different color tones over the years. Over time, these tones wear off to give the same look as old reclaimed wood – different tones weather out to the surface of the cladding, therefore repainting is neither necessary nor advised. As a paint-free cladding option, Drift by Thermory does not have a coating service lifetime.

As Drift products weather over time, the intended reclaimed wood look becomes more prominent. Fading, discoloration and minor flaking occur naturally when the wood is exposed to the elements, and these are not considered product defects.

We recommend leaving Drift cladding to weather naturally rather than repainting it, but if you would like to update your cladding with a fresh new look, it can simply be repainted with any paint that is approved for use on exterior thermally modified wood cladding. Test the suitability of the hue on a small area before applying the finish, and follow Thermory's finishing maintenance instructions.



Drift Platinum and Sandy Pearl thermo-spruce cladding. Private house in Estonia. Photography Aivo Kallas.

After installation

Coated cladding exposed to UV light after 3 years, the southern side of the house in Estonia

WOODSAFE®

Thermory thermo-pine posts with fire protection by Woodsafe. Pelgulinna State Highschool in Estonia. Architect Ott Alver. Photo Tõnu Tunnel.

WOODSAFE WFX FIRE SOLUTION MAINTENANCE

Woodsafe WFX Fire Retardant Impregnation is a high-performing solution designed to enhance the fire resistance of wood, providing protection against fire and reducing the spread of flames.

The product is deeply impregnated into wood fibers, effectively increasing the material's fire rating. The treatment does not compromise the natural appearance or durability of wood.

WOOD**SAFE**® WFX™ is the only fire-retardant system in Europe with approved properties for outdoor use without the need for surface treatment, according to EN16755 EXT.

Woodsafe WFX Fire Retardant Impregnation is suitable for both indoor and outdoor applications.

For further information please visit Woodsafe's website www.woodsafe.com.

Last updated: April 2025
All previous versions are null and void.