



NORFLAM® solutions

Bio-based fire protection

for timber facades and interior designs



NT®
NORD
TREAT

Create safe and stunning timber facade and interior designs **without compromises**

There is no reason to hide wood's beauty on facades and interior designs. Our tintable, bio-based fire protection solutions ensure that your idea will be realised as designed, ensuring regulatory compliance, sustainability, and the long-term beauty of your vision.

Fire protection treatment with NORFLAM® flame retardants ensures long-lasting visual attractiveness for timber cladding and panelling, and slats. For solid wood and thermally modified timber designs, you can find a certified, tintable flame retardant solution for various tree species in our product portfolio.





Bio-based fire protection of wood

NORFLAM® is bio-based flame retardant technology applicable to a large selection of solid wood and thermally modified timber products, and other wood-based construction materials. It provides the required reaction to fire class B-s1, d0 and lower for cladding, panelling and slats, contributing to the fire protection and the safety of the building.

Our bio-based flame retardants are waterborne with low VOC emissions, non-toxic and with low environmental impact verified by EPD. The one-pot solution gives both flame retardant properties and other coating properties like colour and weather resistance, as well as long-term durability with maintenance programmes throughout the building lifecycle.

Key benefits

for facade and interior applications





Natural wood interiors and facades

The beautiful character of wood remains visible both in interior and exterior surfaces with clear or semi-translucent colours.



Inspiring semi-translucent colour options

The desired semi-translucent tones and the reaction to fire properties are protected in both interior and exterior use.



Certified performance

Euroclass reaction to fire performance class up to B-s1, d0 in exterior, internal humid and internal dry conditions.



Sustainable fire protection

Bio-based, low-VOC, and low-carbon flame retardants do not harm people or the environment.



Economical in use

Fire protection and other coating properties, like colour and weather resistance, with a one-product solution. No need for additional coatings.



Long-term protection

The maintenance program ensures the reaction to fire performance over the life cycle of the building. Regular maintenance also adds to the value of the building.

Unlimited colour options

You can choose any semi-translucent tone to enhance your sustainable wooden vision or let the wood's natural colour shine with a clear flame retardant treatment.

Our Nordic Hues colour selection for exterior and interior solid wood timber products consists of 39 semi-translucent colours. The five semi-translucent colours of the Thermo Shades collection are dedicated to thermally modified timber products.



Also, NORFLAM® flame retardants can be custom-toned. This enables the choice of shade for the wood surfaces to match the surrounding materials.

Certified fire protection solutions

NORFLAM® solutions have been tested according to various European and International standardised test methods:

- EN 13501-1
- EN 13823
- CEN/TS 16516
- EN 16755
- EN 11925

Order colour samples for your project!

The colours displayed here have been produced digitally. Digitally produced colours are no substitute for real colour samples. Please contact Nordtreat technical service for more information. Colour samples of wood treated with NORFLAM® solutions can be ordered at www.nordtreat.com.

NEW! Thermo Shades collection



Nordic hues collection



Flame retardants

for wooden facades and interiors

Economical one-product solutions are easy and safe to apply in industrial processes and off-site and on-site treatments. No topcoat is needed.

Our technical service helps industrial manufacturers certify their treatment process, train on-site application partners and provide guidance for maintenance treatment procedures.



NORFLAM® W310 (NT Deco) for solid wood

Use NORFLAM® W310 (NT Deco) for interior and exterior cladding, panelling and slats made from spruce, larch, cedar or Douglas fir to reach Euroclass **B-s1, d0** reaction to fire performance (EN 13501-1).



NORFLAM® W311 for solid wood and thermally modified spruce

Use NORFLAM® W311 for exterior and interior cladding made from spruce, pine or thermally modified spruce to reach Euroclass **C-s1, d0** reaction to fire performance (EN 13501-1).



NORFLAM® W313 for thermally modified timber

Use NORFLAM® W313 for exterior and interior cladding, panelling and slats made from thermally modified spruce and pine to reach Euroclass **D-s1, d0** reaction to fire performance (EN 13501-1).



NORFLAM® W314 for thermally modified timber

Use NORFLAM® W314 for exterior and interior cladding, panelling and slats made from thermally modified spruce and pine to reach Euroclass **B-s1, d0** reaction to fire performance (EN 13501-1).





Maintenance

of fire-protected wood

In exterior conditions, the maintenance interval of NORFLAM® flame retardant treatment is between 3 and 10 years, depending on the product, application amount, structure, weather exposure and treatment method. After 3–5 years, treated surfaces should be inspected for maintenance needs. Affected surfaces should be maintenance-treated with the same flame retardant that was originally used.

In indoor use, wood cladding that was industrially, off-site or on-site treated according to the manufacturer's instructions will maintain the fire protection properties throughout its life cycle unless the surfaces are mechanically damaged.

For more information about maintenance and on-site treatment instructions, see the Technical datasheets or contact Nordtreat's technical service.



– transparent by nature

Nordtreat is a green chemicals company promoting sustainable wood construction. We focus on the development and production of next-generation protective and decorative flame retardants for wood and wood-based materials.

The bio-based NORFLAM® flame retardants enable the safe use of wood even in the most demanding construction projects. With the translucent finish, there's no

compromise between fire safety and design freedom. We ensure the buildings are safe, stunning and built to last.

NORFLAM® flame retardants are used by leading industrial wood products and wood-based materials manufacturers and treaters globally. Some of the world's largest wooden buildings feature wood products treated with NORFLAM® flame retardant solutions.



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