NT Deco is an environmentally friendly, water-based fire-retardant wood stain for construction products. Designed for industrial fire-retardant treatment NT Deco is suitable for various methods of application and end-use.

Available in thousands of semi-translucent tones for both interior (Indoor Air Comfort®) and exterior use (Weather Guard™).

NT Deco is typically used for the fire protection of facades, elements, beams and other wooden construction products in multistorey buildings, hospitals, schools and other public buildings.

NT Deco has a resistance to fire rating to EN 11925-2:2010, EN 13823:2010, EN 13501-1, EN ISO 1182, CEN/TS 16516, ISO 16000 and ASTM E84. Wooden panels can be CE-marked according to EN14915:2013.

**FINISHES**

NT Deco is available in thousands of translucent and semi-translucent tones.

Colour charts available from Nordtreat or authorised treaters.

**TECHNICAL INFORMATION**

- **Product type:** Fire-retardant wood stain
- **Finish:** Clear / Semi-transparent
- **pH value:** 6.8
- **Density at 20° C:** 1.15 g/ cm³
- **Euroclass:** B-s1,d0 (EN13501-1)
- **DRF Class:** INT, INT2, EXT (EN16755)
Project: Allas Sea Pool
Location: Helsinki, Finland
Fire-retardant treatment: Wooden interior and facade
Project: Finland's tallest wooden apartment building
Location: Jyväskylä
Fire-retardant treatment: Wooden facade
REACTION TO FIRE

European fire testing of construction products is based on the Euroclass system. European commission decision (200/147/EY) on 08.02.2000.

Reaction to fire classification: (B-s1,d0)EN13501-1:2007+A1:2009
Fire technical testing of building products – non combustibility: EN ISO 1182
Fire technical testing of building products – single burning item test (SBI): EN 13823
Fire technical testing of building products – ignability test: EN ISO 11925-2

DURABILITY OF REACTION TO FIRE

NT Deco has undergone Durability of reaction to fire testing according to EN16755 (CEN/TS15912. NT053, NT054). NT Deco meets Drf classes INT, INT2 and EXT requirements applied by surface or pressure treatment.

<table>
<thead>
<tr>
<th>Wood species</th>
<th>Product type</th>
<th>Min. Thickness</th>
<th>Density (kg/m3)</th>
<th>Reaction to fire</th>
<th>DRF Class</th>
<th>LEED</th>
<th>M1</th>
<th>BREEAM</th>
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<tbody>
<tr>
<td>Spruce</td>
<td>Panel or cladding</td>
<td>20mm</td>
<td>350-700</td>
<td>B-s1, d0</td>
<td>INT, INT2, EXT</td>
<td>V4 low emitting</td>
<td>Approved</td>
<td>Compliant</td>
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<tr>
<td>Larch</td>
<td>Panel or cladding</td>
<td>20mm</td>
<td>400-650</td>
<td>B-s1, d0</td>
<td>INT, INT2, EXT</td>
<td>V4 low emitting</td>
<td>Approved</td>
<td>Compliant</td>
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<tr>
<td>Cedar</td>
<td>Panel or cladding</td>
<td>20mm</td>
<td>300-600</td>
<td>B-s1, d0</td>
<td>INT, INT2, EXT</td>
<td>V4 low emitting</td>
<td>Approved</td>
<td>Compliant</td>
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VOC TESTING

Nordtreat fire retardants have undergone extensive testing to ensure safe interior use in public- and commercial buildings.

The Building Information Foundation RTS has classified NT Deco as a M1 class building material.

NT Deco is compliant with GN22: BREEAM Recognised Schemes for VOC Emissions from Building Products.

NT Deco qualifies for LEED v4 and LEED 2009 EQ credit “Low-emitting products”. The testing has been carried out by Eurofins Product Testing A/S, Denmark.

NT Deco is compliant with German AgBB requirements.

ENGINEERED WOOD PRODUCTS

In addition to panel and cladding products, NT Deco is suitable for a wide variety of engineered wood products, such as CLT, LVL, Thermally treated wood, Plywood and Glulam. As engineered wood products have more complex properties, product-specific classification is required to produce CE-marked EWP’s treated with NT Deco.
Arctia Shipping Ltd’s headquarters in Helsinki feature fire-retardant treated B-s1,d0 panels with a custom translucent tone.

Wood producers can integrate Nordtreat fire-retardant treatment into CE-production of wooden construction products, according to I.e 14915:2013.

The fire-retardant properties of NT Deco have been tested according to EN13501-1 (B-s1,d0).

Extensive certification covers panels and boards, a variety of wood species, thicknesses, mounting methods.

NT Deco is manufactured from naturally occurring non-toxic substances, and is based on over 10 years of development with the leading research laboratories around the world.

NT Deco is classified as a emissions class M1 coating, and holds IAC product certification, along with LEEDv4 “low emitting products” classification and BREEAM-compliance.

NT Deco is not hazardous to people, animals or the environment.

A patented fire-retardant compound creates a protective char layer as well as a intumescence reaction when exposed to high temperatures.

The latest binder technologies and high-performance pigments guarantee a long lasting and stable decorative B-s1,d0 finish.

Proprietary Weather Guard™ technology enhances woods natural resistance against moulds and fungi along UV-protection.

Fazer visitor centre in Vantaa, Finland features NT Deco treated fire-retardant treated roof panels.

Europe’s largest wooden apartment building features NT fire-retardant treated corridors.

5-storey wooden apartment building “Mäihä” in Seinäjoki features translucent-red NT Deco fire-retardant treated corridor surfaces.

Arctia Shipping Ltd’s headquarters in Helsinki feature fire-retardant treated B-s1,d0 panels with a custom translucent tone.
Project: Pirkkala High-School
Location: Pirkkala
Fire-retardant treatment: Wooden facade

Project: Arctia Shipping Ltd
Location: Helsinki, Finland
Fire-retardant treatment: Wooden facade
Project: "Poiju" residential building
Location: Helsinki, Finland
Fire-retardant treatment: Balconies
Project: Fazer visitor center
Location: Vantaa, Finland
Fire-retardant treatment: Wooden roof elements
Project: IKEA
Location: Lublin, Poland
Fire-retardant treatment: Wooden facade
## CONTACTS

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<tr>
<th></th>
<th>ESTONIA</th>
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<tr>
<td><strong>SALES</strong></td>
<td>Narva mnt 5, EE-10117, Tallinn</td>
<td>Timpurinkuja 5, FI-06150, Porvoo</td>
<td>Sildreveien 24, 3123, Tønsberg</td>
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