



Natural Fire Retardant.

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About HALT NFR

HALT provide a CE and UKCA certified, environmentally friendly, non-toxic, natural fire retardant for both internal and external timber and plywood suitable for all projects.

This innovative treatment process creates timber products that comply fully with the Construction Products Regulations (CPR) and each species achieves a **Euroclass rating of b,s1-d0**.

Impregnating timber prior to construction vastly reduces the spread of fire and production of smoke. In turn, this enables people to have more time to escape should a fire break out, as well as limiting damage costs.

HALT utilise a Cradle-To-Cradle certified Fire Retardant which is water based, meaning there is little or no change to the appearance of timber once impregnated.

Unlike fire retardant coatings, impregnated timber can also be cut and sanded post treatment, without compromising its fire rating.

At present, 20 species of timber have been suitably tested including popular interior woods like birch plywood, oak and accoya.

100% Natural & Biodegradable

Ingredients found within our impregnation solution occur naturally in fruits and vegetables or are found in nature in their elemental form. The solution degrades naturally 100% with no adverse environmental effects

Environmentally Friendly & Non-Toxic

None of the ingredients found in our impregnation solution appear on the REACH Substances of Very High Concern (SVHC) list, meaning it is completely non-toxic.





Certification

HALT's treatment process has been independently audited by a notified body.

The CPR indicates all timber products to be sold on the European market must be CE certified, and UKCA marked for products within Great Britain.

Two harmonised standards exist for timber products:

- EN14915 - standard solid wood
- EN13986 - wood based panel or plywood

CE/UKCA certification assures the customer that the product and manufacturing process has been third party assessed.

All timber products with a reaction to fire produced at HALT are CE/UKCA certified

Testing and Classification

All products that HALT offer have been independently tested and certified in accordance with EN13501-1:2020. Under AVCP-1, it is mandatory that a Notified Body is involved in each step of the testing and classification process.

You can rest assured that any product we offer is fully compliant and tested in accordance with end-use application.

Documentation

At HALT, we provide full documentation. We provide a Declaration of Performance with each order we process for our clients, which guarantees that the products will perform to the same exacting standards as those achieved during testing at an accredited test facility.

The CE certification process is provided via an independent Notified Body, and a copy of our Certificate of Constancy of Performance (CCoP) can be provided for evidence.



The Sustainable Choice For Fire Protection

At HALT, we want to contribute to sustainable development around the world.

We are committed to ensuring structurally safer buildings for all and our goal is to ensure we do this with no harm to our local or wider environment.

HALT utilise a non-toxic, solution made from 100% natural ingredients from our partner BURNBLOCK which causes no adverse effects to our environment.

The treatment is water based and is completely biodegradable with all components found in nature in their elemental form.

None (0%) of the substances in our fire retardant are included in the list of Substances of Very High Concern.

The product is **Cradle to Cradle**® certified at the Gold level and HALT is **FSC** (Forest Stewardship Group) and **PEFC** certified (Programme for the Endorsement of Forest Certification).





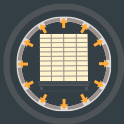


The HALT NFR Impregnation Process



STAGE ONE

Batches of timber are loaded and placed into the autoclave.



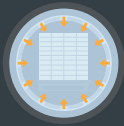
STAGE TWO

A pre vacuum is applied to remove air from the autoclave.



STAGE THREE

Our 100% natural, safe and environmentally friendly solution fills the autoclave.



STAGE FOUR

Stepped pressure, of varying strength and time, is applied to penetrate the liquid into the timber. This is species and density specific. The liquid is evacuated to the storage tank and a final vacuum is applied.



STAGE FIVE

Timber is treated and solution uptake is checked. Timber is removed from the autoclave and placed for drying.



STAGE SIX

Timber is loaded inside kilns in preparation for drying. Controlled drying cycles are applied in relation to species and dimensions of timber.



Species Tested for Impregnation

The protocol on fire testing and classification of GNB-CPD position paper NB-CPD/SH02/12/096 (issued 21 December 2012), from the group of Notified Bodies for the Construction Products Directive, has been applied in the process of testing.

Softwood

- Spruce
- Pine
- Western Red Cedar
- Larch
- Ayous

Hardwood

- Oak
- Ash
- Frake
- Sapele

Modified Wood & Others

- Thermo Ash
- Thermo D-Pine
- Thermo Spruce
- Thermo Frake
- Thermo Ayous
- Thermo Poplar
- Accoya

For thickness, density, testing partners and any other queries, please email info@haltnfr.com.

We are constantly expanding our certifications. Please contact us for specific requests.





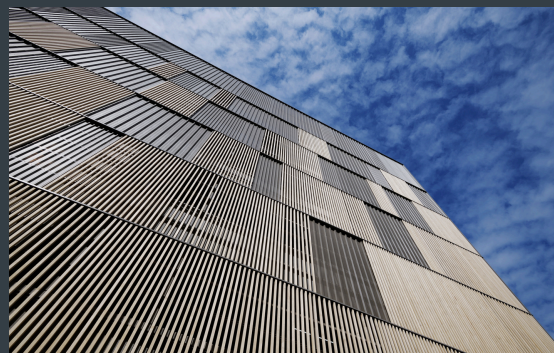
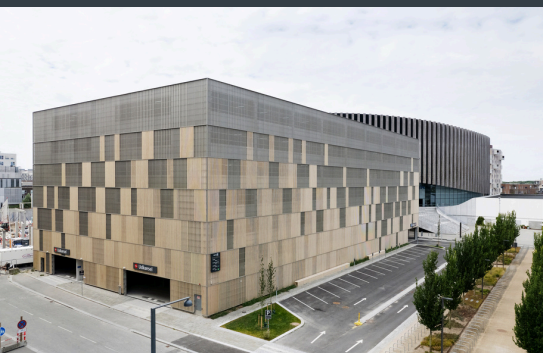
Reclaimed timber has grown in popularity in recent years, with its rustic charm adding unique character to a project.

HALT treated Reclaimed Pine that was recently installed in Jean-Georges rooftop restaurant, located in The Leinster Hotel, Dublin.

Burnblock® is 100% natural and water based, so has no effect on the physical appearance of the timber after treatment - and the finished result at The Leinster is a stunning example of this.

Case Study
The Leinster Hotel
Dublin, Ireland





Royal Arena is Copenhagen's newest multi-purpose arena, hosting sport, music and more.

A multi-storey car park was built right next to the 16,000 capacity arena to ensure an adequate number of parking spaces were available for major events.

The facade of the parking lot has been covered with wooden slats in accoya from Nordisk Profil A/S that are Burnblock® impregnated, fire-technical tested and approved.

Case Study
Royal Arena
Copenhagen, Denmark



Classification

The Euroclass System is a single classification system that exists for all EU member states and has introduced a common method for comparing Reaction to Fire performance of construction products.

Testing is standardised through the use of EN13501-1. All HALT treated timber species achieve a Euroclass rating of b,s1-d0.

FIRE

Class	Performance	Products/Examples
A1 & A2	No contribution to fire	Stones, bricks, concrete
B	Very limited contribution	Gypsum boards, FR wood
C	Limited contribution	Gypsum boards with surface
D	Acceptable contribution	Wood > 10mm / > 400 density
E	Acceptable contribution	LDF, plastic insulation
F	No requirement	Non tested materials

SMOKE

Classes for Smoke Development		
S1		A very limited emission of smoke/combustion gasses (120)
S2		A medium emission of smoke/combustion gasses (170)
S3		No restriction of smoke/combustion gasses (> 170)

BURNING DROPLETS

Classes for Burning Droplets		
d0		No burning droplets or particles must be emitted
d1		No burning droplets or particles may be released in limited quantities
d2		No requirement for restriction of burning droplets and particles





SOLE is a stylish, contemporary seafood restaurant located in the heart of Dublin's south side. The venue recently underwent refurbishments, including a new entrance on Drury Street and two private dining rooms.

HALT treated pine cladding throughout the new entrance area, adding a warm and welcoming finish to the space.

All timber was treated using Burnblock and achieved a B-s1,d0 fire rating—providing full fire protection without compromising the aesthetic.

Case Study
SOLE Seafood & Grill,
Dublin





Located in Hermodsgade, Copenhagen, the former Electrolux factory building has been brought back to life as student accommodation.

Rather than demolishing the 87 year old factory, it has been transformed into a new, sustainable building.

The exterior cladding was delivered by Nordisk Profil, using thermo ash lamellae that were treated and fire tested by Burnblock® and classified with a Euroclass rating of b,s1-d0.

Case Study
Hermodsgade Student Housing
Copenhagen, Denmark





After a four year hiatus, The Turk's Head recently underwent a complete refurbishment, reopening their doors in early 2024.

HALT treated Reclaimed Pine and Spruce that was fitted throughout both floors of the premises, reflecting the rustic, warm, traditional Irish atmosphere in the pub.

All timber was treated to B-s1,d0 - the highest possible classification for treated timber.

Case Study
The Turk's Head
Dublin, Ireland





Pre-Treated Timber

HALT offer a variety of pre-treated timbers available off the shelf. We have recently partnered with leading suppliers and distributors to supply pre-treated timbers across the UK and Ireland.

Reclaimed Timber

The use of reclaimed timber has experienced a huge surge in popularity in recent years. This is partly due to the emergence of sustainable building and the growing popularity of industrial interior design.

HALT offer a variety of reclaimed timbers and its visual appeal, durability and strength make it the perfect choice for both residential and commercial projects.

Sheet Materials

Sheet materials are versatile wood panels manufactured from solid or recycled timber and bonded together with an adhesive. They can be used in almost any form of construction, are extremely cost effective and are suitable for furniture making, flooring, roofing, wall partitions and more.

HALT offer a range of pre-treated sheet materials including:

- Beech Faced Eucalyptus Plywood
- Pine Plywood
- Poplar Plywood
- Birch Plywood
- Eucalyptus Plywood

Partners

HALT are partnered with some of the biggest timber suppliers in the UK and Ireland to bring pre-treated timbers to the market. Our partners include:

- Falcon Timber
- Haldane Fisher
- Wilson's Yard Architectural Salvage
- E&A Reclamation
- Brooks Bros Timber
- Timber Ireland
- United Hardware
- Corell Timber

For more information, visit haltnfr.com/partners/

For pricing and bulk order enquiries, contact us at info@haltnfr.com, or visit one of our partners.

Frequently Asked Questions

Is the fire retardant treatment toxic?

No. The fire retardant we use, Burnblock®, is the only Cradle-to-Cradle certified fire retardant on the market. It has been independently tested by various laboratories. None of the ingredients are found on the REACH SVHC list. The ingredients are 100% natural, fully biodegradable and awarded A+ attestation for VOC emission.

Does it need reapplied?

Unlike a surface applied FR coating, which does need reapplied according to the maintenance schedule provided, HALT's impregnation treatment does not need to be reapplied once complete.

The fire retardant we use is deposited into the cell structure of the wood, and will stay there until the wood decays.

Can you impregnate any timber?

The short answer is yes. However, each timber species has a different biological makeup, and therefore will absorb different amounts of fire retardant, and it is essential that each species is tested in the correct manner.

The timber species we offer at HALT have all been fully tested to the correct standard. We are continually adding to our species list, but only after they have passed the correct testing and classification.

What is the appearance of impregnated timber?

Burnblock® is a water based treatment, so in effect there is little or no change to the appearance of timber once impregnated. Certain timbers may have a low pH value or can be high in tannic acid. Occasionally these can react with water and may cause some discolouration during impregnation. This is normally only a surface issue and can be removed with light sanding. We provide our customers with advice on how particular timbers may react during treatment.

Can you sand, cut or drill holes in treated timber?

Yes. Unlike an FR coating which is only applied to the surface of the timber, you can sand impregnated timber without compromising its fire rating. This is down to the fact that we have factory production control which ensures a homogenous distribution of fire retardant throughout the timber. So you can drill holes and make cuts in the timber without the need to re-treat cut ends.

Euro Class B Fire-Treated Cladding



HALT NFR, in partnership with **Brooks UK LTD**, is proud to announce the launch of Euro Class B fire-treated cladding available ex stock—ready for fast delivery across the UK and Ireland.

This premium range includes Western Red Cedar, ThermoWood, and Thermo Radiata Pine, all treated with Burnblock. Each product meets Euroclass B-s1,d0 standards, offering reliable fire protection without compromising on appearance or performance.

Available for delivery ***within 7-10 working days***, this new offering ensures specifiers, contractors, and designers can access compliant, high-quality timber cladding quickly and efficiently.



HALT Natural Fire Retardant Treatment
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