

Humidity resistant,
fire retardant timber -
permanent protection
from fire

Timber and sheet material



- Tested on a wide variety of wood species
- Applicable for all designs
- With PEFC or FSC® certificate

Fire retardant



- Treated to Euroclass B (EN 13501-1)
- Tested to EN 13823
- Complies with Construction Products Regulation

Humidity resistant



- Non-hygroscopic
- Proven stability – tested to ASTM 3201
- Tested at relative humidity levels above 90%

Available in color



- No peeling of the coating
- Improved coating adhesion
- Guaranteed coating system

Safety guaranteed



- Full certification
- Independently tested
- Free from halogenated compounds





London's Olympic swimming pool

The London Aquatics Centre; the second largest building of the 2012 Games, contains two Olympic-sized swimming pools and a pool for diving. International architect Zaha Hadid designed a ceiling made from slim timber strips.

In Dalfsen more than two hundred tons of material was treated with SafeWood® fire retardant, meeting all the required safety standards.

Architect: Zaha Hadid
Photography: Stock

Fire retardant treatment to comply with European standards

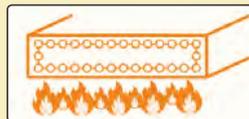
SafeWood® offers fire retardant treated wood and sheet material. The timber is impregnated with DRICON® fire retardant formulation in accordance with the most up to date European standards (Euroclass B) to meet the Construction Products Regulation.

It is also classified in accordance with EN-13501-1. Mechanical characteristics and appearance are not significantly changed when the timber is treated with the water-based fire retardant technique. DRICON® is an advanced, humidity resistant, fire retardant formula. It does not contain halogenated compounds, like bromine.



Heating

Heating forms combustible gases.



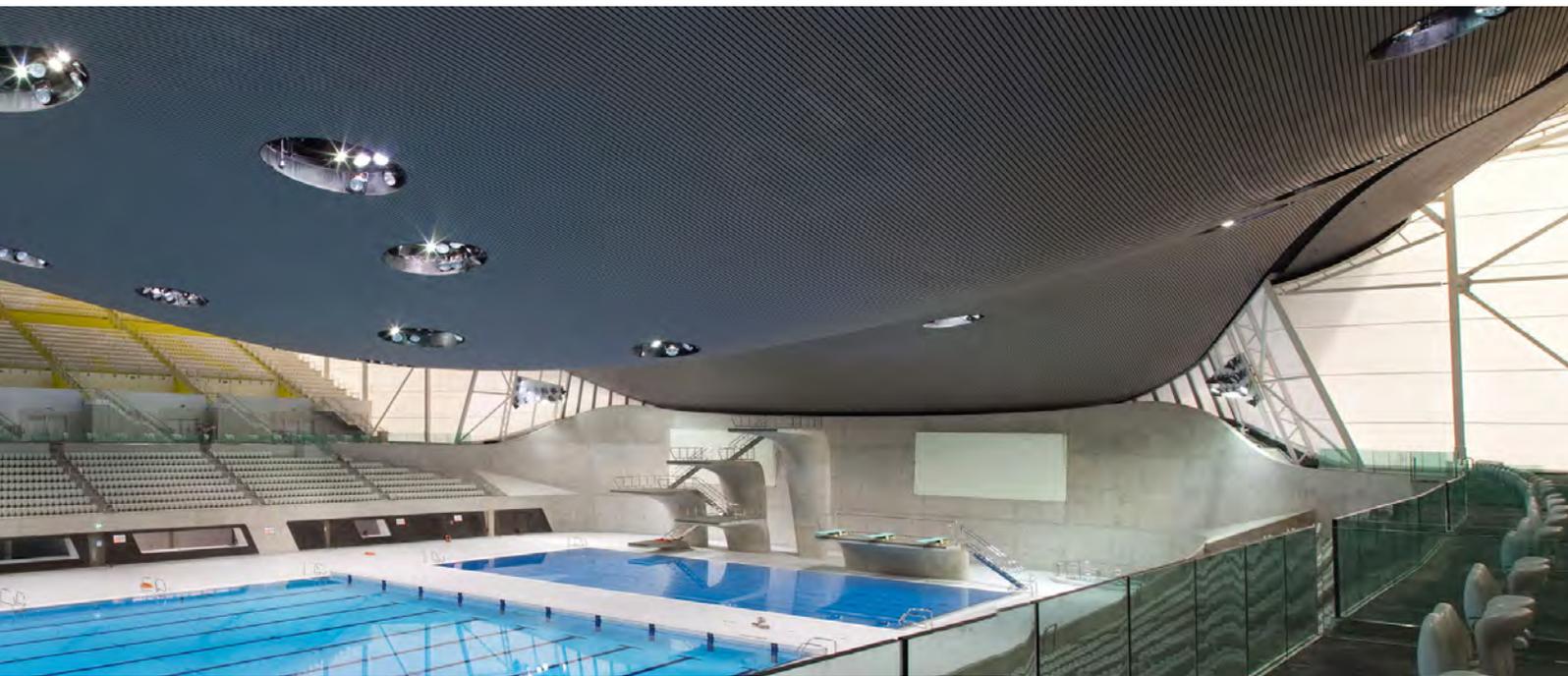
The process

Counteracting elements bind the combustible gases



The result

A protective layer of char is formed



Humidity resistant in accordance with the Construction Products Regulation

SafeWood® timber products are impregnated with DRICON®, an advanced, water-based, fire retardant formulation in a vacuum-pressure impregnation plant, followed by a careful kiln drying schedule to return the timber to the required moisture content. DRICON® is listed in the UK Wood Protection Association's (WPA) Flame Retardant Manual as an approved humidity resistant type formulation and has also been approved for use in the London Underground. In contrast to traditional fire retardant treatments, SafeWood® does not use inorganic salts which can affect the strength properties of timber and board materials. The absence of these salts makes the timber humidity resistant. SafeWood® has been tested at humidity levels above 90% which means the product can be used in humid climates like the Netherlands. Components treated with SafeWood® meet the requirements of the Construction Products Regulation.

Long-life non-hygroscopic

The durability of the SafeWood® fire-retardant treatment is guaranteed in humid climates, such as in the Netherlands. Since the treatment does not use inorganic salts, the treated timbers are unaffected by high and fluctuating relative humidities. Hygroscopic resistance has been tested in accordance with ASTM 3201, so SafeWood® can be used for interior applications with high humidity, or other recreational spaces with an indoor 'swimming pool-like' climate.



Funen, Amsterdam

The residential complex "Het Funen" consists of 304 apartments. SafeWood® treated Western Red Cedar has been used in the galleries to create a natural and warm appearance. "Het Funen" is one of the largest residential buildings in the Netherlands with six floors, and even nine floors in some parts, all utilising SafeWood® timbers.

Architect: De Architecten Cie
Photography: Foreco





Quay apartments in Reitdiep, Groningen

In Groningen a building with 29 residential apartments and one public space has been completed. The project is situated on the Reitdiep quay. A combination of SafeWood® Color and WaxedWood® Color has been used to create the outer walls. Face band sawn spruce cladding with a semi-transparent coating gives the complex a warm and charming appearance.

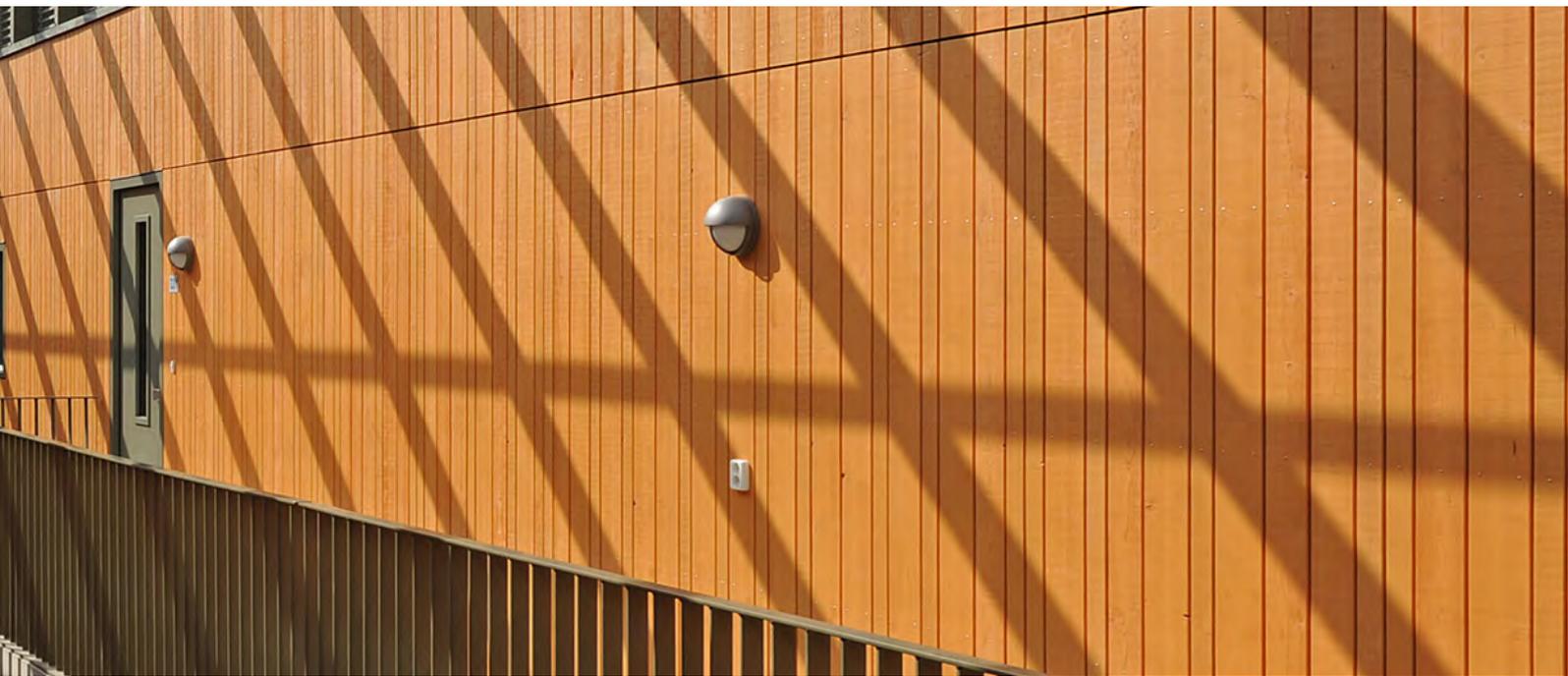
Architect: Oving Architecten
Photography: Jim Ernst

25-year track record and fully tested

The technology of SafeWood® has been used with confidence for over 25 years within major construction projects throughout world to provide stable, long-term protection. Independent research by the UK Wood Protection Association and subsequent fire tests by Warrington Fire have confirmed the same initial fire retardant performance of SafeWood®, even after 21 years of internal exposure. SafeWood® materials were successfully used at the London Aquatic centre during the 2012 Olympics, for the London Underground and for 'Het Funen' complex in Amsterdam.



Single Burning Item (SBI) testing to EN 13823



Maintaining appearance and structural properties

The SafeWood® treatment lets you consciously choose and maintain the color and structure of specific timber species. After impregnation a controlled kiln-drying schedule returns the timber to the required moisture content and has only a negligible effect on the high-quality appearance and structural properties of the timber.

Model specification sheet

A model specification sheet can be used to assure the correct treatment with SafeWood®. Model specification sheets are available on request - more information can be found on our website: www.foreco.nl

CE marking

Timber and sheet material treated with SafeWood® technology can receive a CE marking subject to specific requirements. Contact us for more details.

Westervoorde plan

Commissioned by SallandWonen in Raalte, a building with 38 apartments has been designed and constructed. This is part of the Westervoorde plan, for which three buildings are to be constructed in a rural green setting. Spruce treated with SafeWood® Color and with a beige-grey coating was chosen for a natural and warm appearance.

Architect: TWA Architecten
Photography: Foreco





Apartments for the elderly in Wijhe

Old rental residences in Wijhe have been replaced with 20 new apartment homes. The project was finished in December 2012 and now accommodates the previous residences for the elderly from the old building. Palazzo at SallandWonen included SafeWood® Color for the design because of its excellent energy performance coefficient. The claddings look open and warm with a light brown SafeWood® Color coating.

Architect: Palazzo Oost
Photography: Nikkels and Foreco

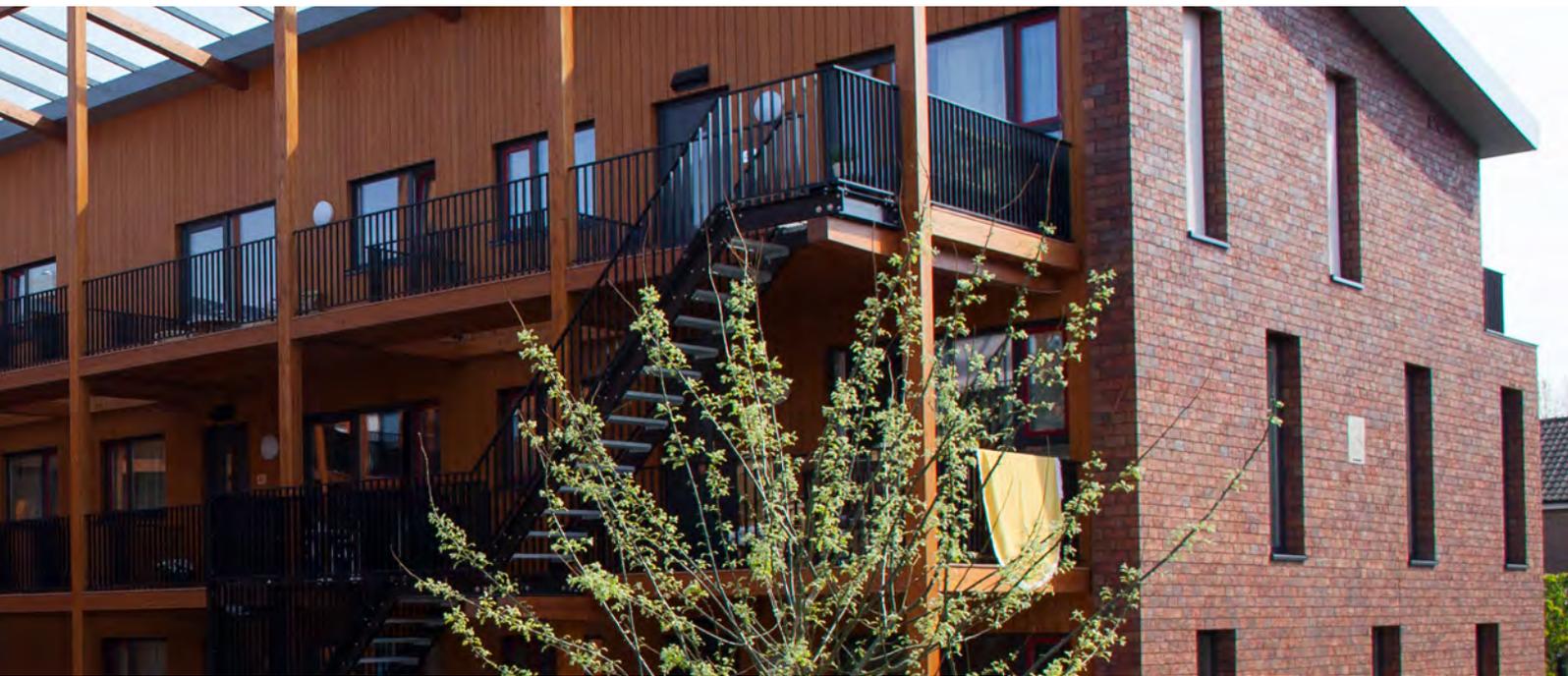


DUBOkeur® for timber cladding products

The Dutch institute for building and ecology (NIBE) carried out an indicative assessment to determine the environmental impact of SafeWood®. They concluded that the use of SafeWood® has less impact on the environment than comparable building materials and awarded Foreco their trademark DUBOkeur® accreditation. The review compared different products with each other and was based on scientific Life Cycle Assessment (LCA) data and 'cradle to grave' calculations. The environmental impact is calculated based on an assessment of:

- production methods;
- maintenance requirements;
- end-of-life impact.

DUBOKEUR®



SafeWood® Color with a high-quality coating system

Architects and designers have the possibility to use a wide range of colors in SafeWood® projects, based on the SafeWood® Color system. It offers a range of natural colors and the option of using any RAL color. The coatings are applied in a modern and controlled factory environment. The coating is a water-based system with a proven combination of oil-modified waterborne binders. The system weathers slowly and evenly over its surface and can be easily overcoated with minimum preparation. It provides a robust protection against UV degradation and its transparent finish makes it possible to accentuate the natural appearance of the selected wood.



Timber with PEFC or FSC® certification

SafeWood® is a renewable building material sourced from sustainable managed forest areas, according to the FSC® or PEFC standards, providing a high-quality, safe and assured choice of a sustainable material in the building industry.



Photo and design studio, Ossenzijl

In the middle of the “De Weerribben” nature reserve a professional photo studio has been built. The exterior has a rustic look, whilst the interior is modern and cosy. The rustic appearance comes from SafeWood® Color face band sawn spruce in ebony black.

Photography: Sara Muis Photo and design studio



SAFEWOOD® (Color)

Innovation by Foreco



WaxedWood®



SafeWood®



NobelWood®



SafeWood® Select



Foreco timber constructions



Ijreka playgrounds

Build sustainable - use wood!

Wood is the perfect sustainable building material. NobelWood®, developed by Foreco, is a prime example. Wood from sustainably managed forests is processed with innovative preservative technologies to offer a high performance construction material. Similarly, WaxedWood® is a durable, low-maintenance cladding material with built-in water repellence. Our SafeWood® technologies provide timber with fire protection. Foreco timber products are sustainable and clean, with proven high performance, confirmed through certification and project warranties. We aim to provide effective and reliable products for wherever timber is to be used - from riverside water contact timbers to sustainable and safe cladding systems.

Nature produces the renewable raw material, we extend its possibilities!

www.foreco.nl



FORECO®