

Fire Retardant Timber Treatment



FireWright
WJ Group

High Pressure Fire Retardant Timber Treatment Technology
Specifying certified, sustainable peace of mind

WJ GROUP - Over a decade of certified timber engineering and treatment.



- Fire Retardant
- Sustainable
- Certified
- Professional
- Trusted

www.wj-group.co.uk

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In partnership with...
 **BURNBLOCK®**



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At WJ FireWright we specialise in fire retardant treatment of timber and wood-based panels. Our state of the art, dedicated facility produces large annual volumes of material impregnated with our natural, non-toxic fire-retardant solution.

Our fire-retardant solution is applied using the latest high-pressure, environmentally friendly treatment technology. Our entire process and factory production manual are both audited annually by our notified body giving us our CE/UKCA and ISO 9001 certification. Giving our customer the assurance their timber is treated to the highest specification possible.

WJ FireWright have tested and classified a long list of wood species to the highest possible standard;

- BS EN 13501-1 Fire classification of construction products and building elements.
- EN 45545:2015 R1&R10 – Railway applications. Fire protection on railway vehicles. Requirements for behavior of materials and components.
- EN 16755:2017 – Durability of Reaction to Fire Performance.

WJ FireWright can ensure that our treatment achieves the required standards and fire classifications through our factory-controlled processes and computer-controlled equipment, ensuring the specific amount of solution is impregnated into the timber / wood-based panels.

INT1	Formerly DI: Dry Interior. For dry interior applications.
INT2	Formerly HR: Humidity Resistant. For humid interior or fully covered exterior applications.
EXT	Formerly LR: Leach Resistant. For all interior and exterior applications.

WJ FireWright can ensure that treatment using Burnblock® achieves the required standards and fire classifications through our factory-controlled processes and computer-controlled equipment, ensuring the exact amount of Burnblock solution is impregnated into the timber / plywood's.

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Kilning

All solid wood and panels are kiln dried post treatment unless requested otherwise. The kiln drying process is performed to bring the wood back to its equilibrium moisture content for the environment it is going to be used in.

To control the kiln drying process we need to monitor the moisture content by placing probes into the product. To achieve this sacrificial timber is required unless the probe holes are acceptable in the treated product.



Health Risks

WJ FireWright fire retardant requires no specific safety equipment, however some data indicates slight irritation should our solution come into direct contact with the eye. The Danish Technological Institute assesses this effect to be less than that of natural lemons and fruit juice.

The health assessment shows there are no components listed with any significant health risks in our fire retardant solution.



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Cradle to Cradle Certified™

WJ FireWright Fire Retardant Powder is Cradle to Cradle Certified™ at 'Gold Level' which makes our product the very first Fire Retardant in the Cradle to Cradle Certified™ Products Program. Part of the sustainability certification includes a Platinum status for Material Health – the highest level of certification possible.

Cradle to Cradle Certified™ model products are designed in a way so that at the end of their initial life they can be readily reused or recycled and therefore avoid landfill altogether. This guides designers and manufacturers through the continual improvement process that looks at a product through five quality categories:

material health; material reutilization; renewable energy and carbon management; water stewardship; and, social fairness.



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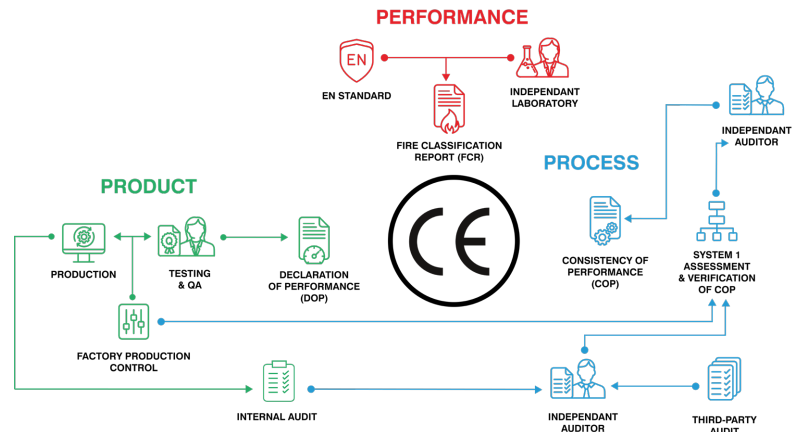
UKCA/CE Marking

WJ FireWright have been independently audited and certified under the Construction Regulation (CPR) in accordance with AVCP system 1. The legal requirements audit factory production control of the fire-retardant facility and ensure the consistency of performance of the manufactured products.

Certificates of Constancy of Performance:

- Solid wood panelling and cladding – EN 14915:2013 + A1:2017
- Wood based panels – EN 13986:2004 + A1:2015

We provide a Declaration of Performance, in line with our CE Mark certification for each of our fire-retardant treatments.



FireWright Euro Classification

The Euro class systems exist to grade materials from A (Not flammable) to E (Highly flammable). Timber in its natural form is a combustible material rated at Euro class D.

At FireWright we strive to achieve Euro Class B on every species we are certified to treat given Euro A denotes noncombustible materials such as steel and concrete therefore B is the best.

Although the priority for fire retardant timber treatment is to attain the highest possible classification in Euro Class B it is important to understand the subclasses involved in the grading system as arguably the contribution of smoke development and burning droplets in a fire is more dangerous than the fire itself.

WJ FireWright & Burnblock®

Fire contribution	Class	Smoke Development	Class	Burning Droplets	Class
No contribution to fire	A1	Very limited emission of smoke / combustion gases (120)	S1	No burning droplets or particles must be emitted	d0
No flashover, very limited contribution to fire	A2				
No flashover	B	Medium emission of smoke / combustion gases (170)	S2	No burning droplets or particles may be released in limited quantities	d1
Flashover for 300kW ignition source	C				
Flashover after 120s for 100kW ignition source	D	No restriction of smoke / combustion gases (>170)	S3	No requirement for restriction of burning droplets and particles	d2
Flashover before 120s for 100kW ignition source	E				

Note: Third-party coatings or treatments may alter these classifications.

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