

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

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www.wj-group.co.uk

WJ FireWright, 1A Main Street,
Kirkburn, Drifffield, YO25 9DU
T: 01377 796001
E: info@firewright.co.uk

In partnership with...



BURNBLOCK®



CLASSIFICATION TABLE FOR BURNBLOCK® TREATED WOOD

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.

Soft Wood

According to Classification: EN 13501 1: 2018 & EN 13501 1: 2020

According to Test: EN 13823 (SBI) & EN 14135: 2004

**Members Of The F1 Family
NOTE: Density is measured as Kg/m³*

| Wood Species | Density | Thickness | Ventilated Cavity | Reaction to Fire Classes *1 | Resistance to Fire Classes *2 |
|--------------------|---------|-----------|-------------------|-----------------------------|-------------------------------|
| Spruce* | 355-536 | 15-42 mm | 40 mm | B-s1, d0 | K1, K2, 10/B-s1, d0 |
| Pine* | 450-600 | 15-42 mm | 40 mm | B-s1, d0 | |
| Western Red Cedar* | 316-494 | 15-42 mm | 40 mm | B-s1, d0 | |
| Larch* | 550-630 | 15-42 mm | 40 mm | B-s1, d0 | |
| Ayous* | 330-530 | 15-42 mm | 40 mm | B-s1, d0 | |
| Western Red Cedar | 350-450 | 12, 5 mm | | | |

Hard Wood

According to Classification: EN 13501 1: 2018 & EN 13501 1: 2020

According to Test: EN 13823 (SBI) & EN 14135: 2004

**Members Of The F1 Family
****Members Of The F3 Family
NOTE: Density is measured as Kg/m³*

| Wood Species | Density | Thickness | Ventilated Cavity | Reaction to Fire Classes *1 | Resistance to Fire Classes *2 |
|--------------|---------|-----------|-------------------|-----------------------------|-------------------------------|
| Oak | 500-750 | 20 mm | | B-s1, d0 | |
| Ash* | 650-850 | 15-42 mm | 40 mm | B-s1, d0 | |
| Fraké | 430-730 | 15-42 mm | 40 mm | B-s1, d0 | |
| Sapele**** | 325-690 | 15 mm | 40 mm | B-s1, d0 | |

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Modified Wood

According to Classification: EN 13501 1: 2018 & EN 13501 1: 2020

According to Test: EN 13823 (SBI) & EN 14135: 2004

***Members Of The F2 Family*

******Members Of The F4 Family*

NOTE: Density is measured as Kg/m3

| Wood Species | Density | Thickness | Ventilated Cavity | Reaction to Fire Classes *1 | Resistance to Fire Classes *2 |
|-----------------|---------|-----------|-------------------|-----------------------------|-------------------------------|
| Thermo Spruce** | 314-434 | 15-42 mm | 40 mm | B-s1, d0 | |
| Thermo Fraké** | 410-730 | 15-42 mm | 40 mm | B-s1, d0 | |
| Thermo Poplar** | 350-500 | 15-42 mm | 40 mm | B-s1, d0 | |
| Thermo Ash** | 590-680 | 15-42 mm | 40 mm | B-s1, d0 | |
| Thermo Pine** | 450-500 | 15-42 mm | 40 mm | B-s2, d0 B-s1, d0 | |
| Thermo Ayous** | 269-374 | 15-42 mm | 40 mm | B-s2, d0 B-s1, d0 | |
| Accoya***** | 400-600 | 19 mm | 40 mm | B-s2, d0 B-s1, d0 | |

Did You Know...

- Made only out of natural substances, fully biodegradable, non-toxic, pH-neutral, non-corrosive, and VOC emission free.
- Does not need to be heated when mixed – the fire retardant is fully effective at any temperatures normally occurring during manufacturing processes.
- Available in fluid and powder form and can thus be adapted to suit a company's individual needs and manufacturing facilities.
- Can meet all current statutory requirements for fire retardants. This makes Burnblock a reliable and safe product that can be used for impregnation of absorbent building materials.



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Plywood

According to Classification: EN 13501 1: 2018 & EN 13501 1: 2020

According to Test: EN 13823 (SBI) & EN 14135: 2004

***Members Of The F5 Family

+ Customer Ownership

NOTE: Density is measured as Kg/m³

| Wood Species | Density | Thickness | Ventilated Cavity | Reaction to Fire Classes *1 | Resistance to Fire Classes *2 |
|---------------------|---------|-----------|-------------------|-----------------------------|-------------------------------|
| Birch Plywood*** | 650-750 | 12 mm | 40 mm | B-s1, d0 | |
| Birch Plywood | 650-750 | 12 mm | 40 mm | B-s1, d0 | K1, K2, 10/B-s1,d0 |
| Pine Plywood | 450-600 | 12 mm | 40 mm | B-s1, d0 | K1, K2, 10/B-s1,d0 |
| Eucalyptus Plywood+ | 540-610 | 9 mm | 40 mm | B-s1, d0 | |
| Eucalyptus Plywood+ | 540-610 | 5.5 mm | 40 mm | | |

EN45545 2:2013

Fire behaviour of materials and products used in trains

| Wood Species | Density | Thickness | Resistance to Fire Classes *2 |
|---------------|---------|-----------|-------------------------------|
| Birch Plywood | 700-750 | 12 mm | R10; HL1/HL2/HL3 (flooring) |
| Birch Plywood | 700-750 | 12 mm | R1; HL1/HL2 (walls) |
| Birch Plywood | 700-750 | 12 mm | R7; HL1/HL2 (exterior walls) |