



LIGNIA FIRE

(available in North America only)

The same beauty, sustainability and all-round performance as standard LIGNIA, but with built-in flame retardancy.

Product overview

LIGNIA Fire has all the attributes of standard LIGNIA, with the added benefit and safety of a built-in treatment that meets the flame spread requirement for building codes that require USA ASTM E 84 Flame Spread Rating of Class A. LIGNIA Fire is manufactured under an I.S. EN ISO 9001 quality management system.

LIGNIA Fire leads to reduced cost and greater time efficiencies – it is supplied to the US construction market with built-in flame retardancy (locked in at molecular level so there's no leaching). Thanks to this systemic benefit there is no need for time-consuming and expensive additional treatments with third parties, in an industry which needs to constantly monitor its tight margins.

Like its fellow LIGNIA stablemate, LIGNIA Fire is highly sustainable as it's modified from FSC® plantation softwood and is turned into a beautiful and durable timber that matches or exceeds hardwoods in performance and looks.

LIGNIA[®]FIRE

Wood tested to endure

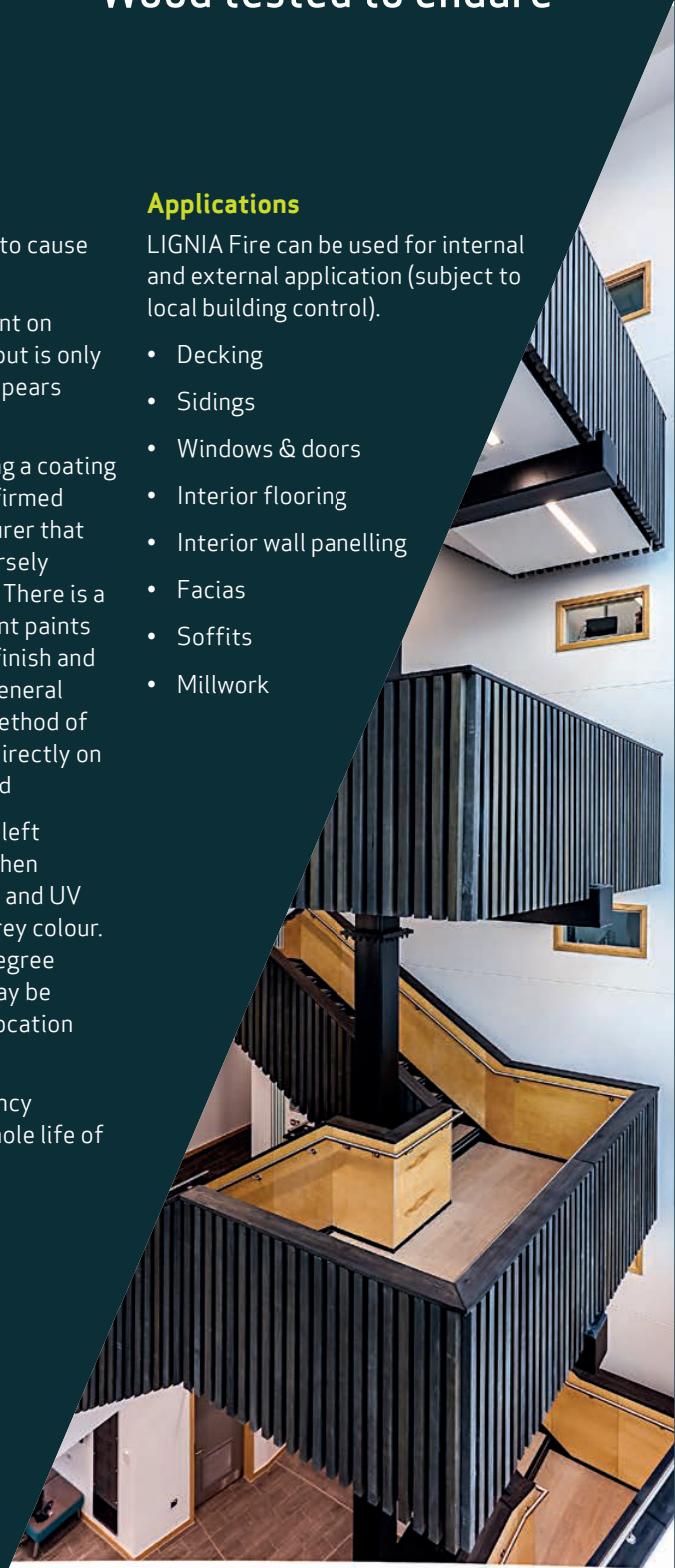
LIGNIA Fire Working Properties

- Moisture movement – 1.22 (average 4) small movement classification
- Sustainable and legal timber - FSC[®] certified from managed plantations
- Below limit of quantification – 0.008 ppm emissions of formaldehyde under ASTM D6007 – 14 (HPVA Laboratories)
- Durability class 1 – use class UC3B (60 years minimum life against rot and fungal decay in above ground applications)
- Durability against termites – RTF Institute demonstrates high resistance to attack from subterranean termites
- Density through modification is increased to an average of 650kg/m³, improving mechanical properties
- Janka hardness test – increased to 5170 N (average of 3)
- Points of bending – Modulus of rupture 114.28 N/mm³
- Points of bending – Modulus of elasticity 1218 N/mm³
- Superior machining finish with minimal sanding required
- Supplied with minimal visual defects and good levels of colour consistency
- pH neutral, so less likely to cause corrosion
- Stick mark may be present on rough sawn LIGNIA Fire but is only a surface mark and disappears once planed
- Coatings – When choosing a coating system, it should be confirmed with the paint manufacturer that the coating will not adversely affect the classification. There is a variety of flame-retardant paints which provide the same finish and wear qualities equal to general decorative paints. The method of application will depend directly on the type of paint selected
- As with all timbers when left uncoated, LIGNIA Fire, when exposed to the elements and UV will over time turn to a grey colour. The length of time and degree of surface weathering may be determined by building location and facing elevation.
- No leaching, fire retardancy properties remain for whole life of product.

Applications

LIGNIA Fire can be used for internal and external application (subject to local building control).

- Decking
- Siding
- Windows & doors
- Interior flooring
- Interior wall panelling
- Facias
- Soffits
- Millwork





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