

Wood Protection Association Benchmark Quality Approval Scheme: Approved Flame Retardant Formulation



APPROVED PRODUCT: DRICON

Formulation Type: WPA Type INT2 (humidity resistant)

Application Method: Vacuum pressure impregnation with kiln drying of treated wood and wood-based board materials.

Approval Holder: Lonza Wood Protection, Wheldon Road, Castleford, West Yorkshire, WF10 2JT, TEL: 01977 714000 Email: timberprotectionadvice.ukca@lonza.com

Approval Scope: This Certificate of Approval covers **DRICON** flame retardant and **DRICON** treated wood /wood-based board materials for which suitable evidence of performance was endorsed by the independent Flame Retardant Approval Panel appointed by WPA.

DRICON is only approved when used in conjunction with a vacuum pressure impregnation process operating within the scope of a recognised quality assurance scheme (QAS) such as the WPA Benchmark Scheme.

Period of Validity: Approval lasts for five years from the issue date of this Certificate of Approval.

Materials Certified: **DRICON** flame retardant is approved to achieve Euroclass B or Euroclass C level of performance on the materials listed below in [Table 1](#) and [Table 2](#).

Characteristics: [Table 3](#) of this certificate sets out the characteristics of **DRICON** treated wood/wood-based materials.

Table 1: Euroclass B Performance

DRICON is approved for treatment of the following materials to Euroclass B*

MATERIAL	THICKNESSES	MATERIAL	THICKNESSES
American White Oak	18mm and thicker	Opepe	21mm and thicker
Ash	18mm and thicker	Pine	12mm and thicker
Birch Plywood	12mm and thicker	Spruce	12mm and thicker
Douglas Fir	18mm and thicker	Spruce Plywood	12mm - 25mm
European Oak	18mm and thicker	Thermally modified spruce	18/9mm (for cladding profile) and thicker
Larch	18/9mm (for cladding profile) and thicker	Western Red Cedar	17/8mm (for cladding profile) and thicker

Table 2: Euroclass C Performance

DRICON is approved for treatment of the following materials to Euroclass C*

MATERIAL	THICKNESSES	MATERIAL	THICKNESSES
American White Oak	18mm and thicker	Opepe	21mm and thicker
Ash	18mm and thicker	Pine	12mm and thicker
Birch Plywood	4mm and thicker	Spruce	12mm and thicker
Douglas Fir	18mm and thicker	Spruce Plywood	12mm - 25mm
European Oak	18mm and thicker	Thermally modified spruce	18/9mm (for cladding profile) and thicker
Hardboard	3.0mm and thicker	Western Red Cedar	17/8mm (for cladding profile) and thicker
Larch	18/9mm (for cladding profile) and thicker		

*Contact the manufacturer for further details if the material or thickness is not included in the table

Table 3: Characteristics of DRICON treated material(s)

Hygroscopicity:	Type INT2 humidity classification in accordance with EN 16755.
Leach resistance under a maintained coating:	Type EXT leach resistance under a coating classification confirmed in accordance with EN16755.
Durability in service:	WPA Type INT2-treated wood maintained fire performance after 21 years in test (TRADA long-term programme started 1986).
Metal fixings and fasteners:	Corrosion of metals in contact with DRICON- treated wood products is no greater than with untreated wood products
Strength of treated timber:	No performance declared.
Other approvals:	Agrément Certificate 87/1841 (British Board of Agrément) Underwriters Laboratories Inc (USA).

Certificate of Approval

DRICON



Approval Certificate no.:
WPA/PAS/FR/200601

Date of first issue:
1 October 2006

Date of this issue:
13 September 2018

Approval lasts for five years from the date of issue after which it will lapse unless the Approval Holder applies for a renewal review.

About the Wood Protection Association (WPA)

The WPA is a technical and advisory organisation concerned with the products and processes that improve the value and performance of wood as a sustainable, cost effective construction material – mainly through preservation, wood modification and flame retardant treatment.

The association provides guidance to specifiers, contractors, engineers and architects on the best ways to ensure wood is fit for its intended purpose. The WPA is a leading body in the UK on all matters relating to wood protection and has a respected voice with many British and European Standards setting agencies. The WPA's technical publications set the specification guidelines in the UK for industrial pre-treatment processes and are widely referenced by major architectural, building standards and landscaping bodies.

See the WPA Flame Retardant Specification Manual and many other useful Guidance Notes – available free to download from the Resource Centre of the Association's web site: www.thewpa.org.uk.

Benchmark Quality Approval Schemes - providing valid independent assessment and verification

The WPA administer three interlocking approval schemes which cover every stage in the production and distribution of flame retardant wood based materials. In each scheme, assessments and audits are conducted by independent experts.

The **WPA Benchmark Approved Formulation (FR)** scheme provides independent verification of the efficacy of a flame retardant formulation. It must be applied or added to wood based materials by a factory controlled process monitored under a recognised quality assurance scheme.

The data to be supplied in support of an application is clearly defined in a Scheme Document and is submitted to the WPA for assessment by an independent Efficacy Panel, which is drawn from leading organisations like Exova, BRE and private consultancy. The assessment includes: examination of fire test certificates and classification reports and; other characteristics that affect performance in service such as wood strength and smoke emission. The decision to approve a flame retardant is the responsibility of the Panel.

Approval lasts for five years from the date of issue on the Certificate of Approval after which it will lapse unless the Approval Holder applies to WPA for a renewal review.



Wood Protection Association

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