

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

APPROVED PRODUCT: Wolmanit® Firestop

Formulation Type: WPA Type INT2 (humidity resistant)

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

Approval Holder: BASF Wolman GmbH, Dr.-Wolman-Str. 31-33, 76547 Sinzheim, Germany
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Approval Scope: For all uses conforming to INT1 and INT2 definitions in BS EN 16755.

This Certificate of Approval applies to **Wolmanit® Firestop** flame retardant and **Wolmanit® Firestop** treated wood and wood-based board materials for which suitable evidence of performance has been accepted by the independent Approval Panel for Flame Retardant Formulations operated by the WPA.

Wolmanit® Firestop is only approved for use in conjunction with a 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 date of this Certificate of Approval.

Materials Certified: **Wolmanit® Firestop** 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 **Wolmanit® Firestop** treated wood/wood-based materials.

Table 1: Euroclass B Performance

Wolmanit® Firestop is approved for treatment of the following materials to Euroclass B

MATERIAL	THICKNESS	MATERIAL	THICKNESS
Ash	15 mm and thicker	Platowood Poplar	18 mm and thicker
Ayous, Abachi (Obeche)	15 mm and thicker	Platowood Spruce	15 mm and thicker
Beech	15 mm and thicker	Sipo Mahonie (Utile in UK)	15 mm and thicker
European Redwood	15 mm and thicker	Spruce plywood (LVL)	21 mm and thicker
Larch	15 mm and thicker	Spruce plywood	12 mm and thicker
Maple	15 mm and thicker	Spruce ¹	15 mm and thicker
Oak (American Red Oak in EN 350)	15 mm and thicker	Thermally modified Ayous (Obeche) ²	18 mm and thicker
Okoumé plywood (Gaboon in EN 350)	15 mm and thicker	Thermally modified softwood ^{1,2}	21 mm and thicker
Oregon Pine/Douglas fir	15 mm and thicker	Western Red Cedar	15 mm and thicker
Platowood Fraké	15 mm and thicker	Yellow Pine	15 mm and thicker
		Yellow Poplar	15 mm and thicker

1: Euroclass B performance achieved in test with additional coating of Innoshield DRF. 2: Thermowood Type D.

Table 2: Euroclass C Performance

Wolmanit® Firestop is approved for treatment of the following materials to Euroclass C

MATERIAL	THICKNESS	MATERIAL	THICKNESS
Birch plywood	12 mm and thicker	Spruce	15 mm and thicker

Table 3: Characteristics of Wolmanit® Firestop treated material(s)

Hygroscopicity:	Type INT2 humidity classification in accordance with EN 16755.
Maximum loading:	INT2 at treated zone loadings at or below 97 kg/m³.
Smoke emission:	Wolmanit® Firestop treated wood and wood-based materials are classified typically as smoke classification s1 or s2 according to EN 13501-1.
Strength:	No significant change from untreated for structural calculations.
Durability:	For products classified according to the criteria in BS EN 16755 as Durability of Reaction to Fire (DRF) INT1 and INT2, the classifications apply for the lifetime of the wood product provided the product is only used in the intended service class.
Metal fixings and fasteners:	Metals suitable for use with untreated wood may be used with Wolmanit® Firestop treated materials when used in the same service conditions.
Other approvals:	Wolmanit® Firestop is approved to achieve DIN 4102 Class B1 ('schwerentflammbar') on the following 10 mm or thicker species: Douglas fir; Larch; Oak; Pine and Spruce/Fir. Wolmanit® Firestop has been tested with the following materials according to ASTM E 84 to achieve Class I (Class A) of the principal USA building codes: Ayous (Obeche).



Certificate of Approval

Wolmanit® Firestop



Approval Certificate no.:
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1 September 2018

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1 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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