

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



APPROVED PRODUCT: Prostruct FR

Formulation Type: WPA Type INT2

Application Method: Approved for use in conjunction with a factory application process operating within the scope of a recognised quality assurance scheme (QAS) such as the WPA Benchmark FR scheme.

Approval Holder: PFS Coatings Ltd, 35 Wilkinson Street, Sheffield, S10 2GB

Approval Scope: For all uses conforming to INT1 and INT2 definitions in BS EN 16755.

Prostruct FR is approved to achieve Euroclass B-s1, d0 level of performance on the materials listed in [Table 1](#) of this certificate.

The scope of this approval relates to installations with ventilated air gap between the treated material and substrate. Horizontal and vertical butt jointing of treated materials is permitted.

Substrate: Any substrate of Class A1 or A2-s1, d0 with a density of at least 338 kg/m³ and a thickness of at least 8mm. Also, any wood-based substrate of Class D-s2, d0 with a density equal to or greater than 338 kg/m³ and a thickness of at least 8mm.

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

Materials Certificated: **Prostruct FR** flame retardant is approved to achieve Euroclass B level of performance on the materials listed in [Table 1](#) of this certificate.

Characteristics: [Table 2](#) of this certificate sets out the characteristics of the treated materials listed in [Table 1](#).

Table 1: Euroclass B Performance

Prostruct FR is approved for the treatment of the following materials to achieve Euroclass B-s1, d0.

MATERIAL	THICKNESS
WISA 7-ply spruce plywood	18mm

Table 2: Characteristics of Prostruct FR treated material(s)

Hygroscopticity:	Type INT2 humidity resistance confirmed for FR system loadings at or below 600 gsm (wet weight) protected by one coat Protective system at or below 100 gsm (wet weight).
Strength:	No significant change from untreated for structural calculations.

Certificate of Approval

Prostruct FR



Approval Certificate no.:
WPA/PAS/FR/201801

Date of first issue:
1 July 2018

Date of this issue:
1 July 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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