



**FIRE
TECHNOLOGY
SERVICES**

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1 Introduction

This classification report defines the classification assigned to Intumescent Systems Ltd (as described by the sponsor) in accordance with the procedures given in EN 13501-1:2007+A1:2009.

CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH BS EN 13501-1:2007+A1:2009

Sponsor: Intumescent Systems Ltd
Prepared by: BTTG Testing & Certification Ltd
Product name: Softwood Timber
Classification report no.: 27/03707/10/15
Issue number: 1
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This classification report consists of five pages and may only be used or reproduced in its entirety.





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2 Details of classified product

2.1 General

The product, Coated Softwood Timber, is defined as a type of product according to BS EN 1404.

2.2 Product description

The product, Softwood Timber, is described below as:-

- 1 coat of Butinox 1 spirit based coating at 10m² per litre
- 1 coat of Johnsons Wood Stain at 10m² per litre
- 1 coat of Envirograf® QVFR/C No.1 at 12m² per litre
- 1 Coat of Envirograf®QVFR/C No.2 12m² per litre

3 Reports and results in support of this classification

3.1 Reports

Name of Laboratory	Name of sponsor	Report ref. no.	Test method and date Field of application rules and date"
BTTG T & C Ltd	Intumescent Systems Ltd	27/03707/10/15	BS EN 11925-2:2010 BS EN 13823:2010





3.2 Results

Test method and test number	Parameter	No. Tests (specimens)	Results	
			Continuous parameter - mean (m)	Compliance with Class B s1 d0 parameters
BS EN 11925-2:2010	FS (mm)	6	<150mm within 60s	Compliant
	Flaming Droplets / particles		No	Compliant
BS EN 13823:2010	FIGRA _{0.2MJ} (W/s)	3	9.2	Compliant
	FIGRA _{0.4MJ} (W/s)		9.2	
	THR _{600s} (MJ)		1.1	
	LFS to edge (yes or no)		No	Compliant
	SMOGRA (m ² /s ²)		0.0	
	TSP _{600s} (m ²)		22.4	
	FDP flaming ≤ 10 s (yes or no)		N/A	
FDP flaming > 10 s (yes or no)	N/A			

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with BS EN 13501-1:2007+A1:2009.

4.2 Classification

The product Coated Softwood Timber, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke is:

s1

The additional classification in relation to flaming droplets / particles is:

d0



4.2 Classification (continued)

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	1	-	d	0

Reaction to fire classification: B s1 d0

4.3 Field of application

This classification is valid for the following product parameters:

- 1 coat of Butinox 1 spirit based coating at 10m² per litre
- 1 coat of Johnsons Wood Stain at 10m² per litre
- 1 coat of Envirograf® QVFR/C No.1 at 12m² per litre
- 1 Coat of Envirograf®QVFR/C No.2 12m² per litre

The classification is valid for the following end use applications:

The sample was tested over a calcium silicate board (EN 14306) 870 ± 50kg/m³ 11 ± 2mm, class A2-s1,d0.

5 Limitations

This classification document does not represent type approval or certification of the product.

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 attestation of conformity and CE marking under the Construction Products Directive.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested."



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An estimation of uncertainty of measurement has not been taken into account when making a judgement to any pass/fail criteria.

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SIGNED
R Ryan
Fire Technician

.....
APPROVED
P Doherty
Operational Head

Enquiries concerning this report should be addressed to Customer Services.

