



Confidential Report

Our Ref: 27/05662A1/07/21

Shirley® Technologies Limited. Registered Office: Wira House, West Park Ring Road, Leeds, LS16 6QL.
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Date: 14 January 2025
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1 Introduction

This classification report defines the classification assigned to Substrate Description: 12-15mm Timber panels with a nominal density of 400-550kg/m³, screwed to metal battens, Application rate: Minimum 250ml per square metre, Chemical Name Treatment: Flametect C-WD+ (as described by the sponsor) in accordance with the procedures given in BS EN 13501-1:2018.

CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH BS EN 13501-1:2018

Sponsor: Eco-Sol Ltd

Prepared by: BTTG Testing & Certification Ltd

Product name: Substrate Description: 12-15 Timber panels with a nominal density of 400-550kg/m³, screwed to metal battens, Application rate: Minimum 250ml per square metre, Eco-Sol
Chemical Name: Flametect C-WD+

Classification report no.: 27/05662A1/07/21

Issue number: 1

Date of issue: 3 January 2025

This classification report consists of five pages and may only be used or reproduced in its entirety.

Note: This report relates only to the samples submitted and as described in the report.



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Client: Eco-Sol Ltd

2 Details of classified product

2.1 General

The product, Substrate Description: 12-15 Timber panels with a nominal density of 400-550kg/m³,screwed to metal battens, Application rate: Minimum 250ml per square metre,Chemical Name Treatment: Flametect C-WD+.

2.2 Product description

The product is described below as: -

General description		Flame Retardant for Solid Timber to meet BS EN13501-1:2018
Product reference of composite		
Name of manufacturer of composite		N/A
Thickness of composite		
Surface	Generic type	Solid Bare Timber
	Product reference	Flametect C-WD+ Fire Retardant Treatment
	Name of manufacturer	Flametect C-WD+
	Thickness	12-15mm minimum
	Weight per unit area	400-550kg/m ²
	Colour reference	Clear
	Trade name of flame retardant	Flametect C-WD+ Treatment
	Generic type of flame retardant	Clear fire protection impregnating liquid
Amount of flame retardant		Minimum 250ml per Square Meter
Brief description of manufacturing process		Flametect C-WD+ Treatment to be applied to Solid Bare Timber and allow to penetrate at a rate of 250ml per m ²
Additional Information		



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3 Reports and results in support of this classification

3.1 Reports

Name of Laboratory	Name of sponsor	Report reference number	Test method and date Field of application rules and date"
BTTG Testing & Certification Ltd	Eco-Sol Ltd	27/05662A/07/21	BS EN ISO 11925-2:2020 BS EN 13823:2020+A1:2022

3.2 Results

Test method and test number	Parameter	No. Tests (specimens)	Results	
			Continuous parameter – mean (m)	Compliance with Class B, s2, d0 parameters
BS EN ISO 11925-2:2020	FS (mm)	6	<150mm within 60s	Compliant
	Flaming Droplets / particles		No	Compliant
BS EN 13823:2020+A1:2022	FIGRA _{0.2MJ} (W/s)	3	29.7	Compliant
	FIGRA _{0.4MJ} (W/s)		29.7	
	THR _{600s} (MJ)		4.3	
	LFS to edge (yes or no)		No	
	SMOGRA (m ² /s ²)		18.0	
	TSP _{600s} (m ²)		98.6	
	FDP flaming ≤ 10 s (yes or no)		No	
FDP flaming > 10 s (yes or no)	No	Compliant		

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4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with BS EN 13501-1:2018.

4.2 Classification

The product Substrate Description: 12-15 Timber panels with a nominal density of 400-550kg/m³, screwed to metal battens, Application rate: Minimum 250ml per square metre, Chemical Name Treatment: Flametect C-WD+ Fire Retardant, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke is:

s2

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

d0

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	2	-	d	0

Reaction to fire classification: B s2 d0



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4.3 Field of application

This classification is valid for the following product parameters:

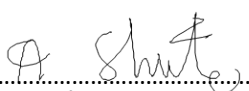
Surface Product Reference	Timber panels, screwed to metal battens.
Thickness	12-15mm
Density	400-550kg/m ³
Flame Retardant Treatment	Flametect C-WD+ Fire Retardant Treatment
Application Rate:	Minimum 250ml per square metre

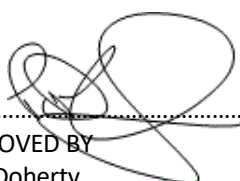
The classification is valid for the following end use applications:

The sample of wallcovering was mounted onto a calcium silicate backing board with the metal batons providing an air gap between the wooden planks and the backing board as defined in BS EN 13238:2010.

5 Limitations

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

Reported by: 
SIGNED BY
A Shute
Section Leader


APPROVED BY
Paul Doherty
Manager

Enquiries concerning this report should be addressed to Customer Services.