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Testing. Advising. Assuring.

Title:

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

Notified Body No:

0833

Product Name:

"Non-Com® Exterior Treated Nobelwood"

Report No:

338051

Issue No:

2

Prepared for:

Arch Timber Protection Limited
Wheldon Road
Castleford
West Yorkshire
WF10 2JT

Date:

14th February 2014

1. Introduction

This classification report defines the classification assigned to "Non-Com® Exterior Treated Nobelwood", a flame retardant grade timber for exterior use, in line with the procedures given in EN 13501-1:2007+A1: 2009.

2. Details of classified product

2.1 General

The product, "Non-Com® Exterior Treated Nobelwood", a flame retardant grade timber for exterior use, is defined as being suitable for construction applications, excluding flooring and linear pipe thermal insulation.

2.2 Product description

The product, "Non-Com® Exterior Treated Nobelwood", a flame retardant grade timber for exterior use, is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Flame retardant grade treated timber
Trade name of treated product		"Non-Com® Exterior Treated Timber"
Manufacturer of treated product		Lonza Wood Protection
Timber details	Species	Nobelwood
	Width	142mm (overall)
	Thickness	18/9mm cladding profile {As defined in BS EN 14915:2006 (Solid wood panelling and cladding – Characteristics, evaluation of conformity and marking), where the thicknesses of cladding profiles are described in terms of t1/t2, where t1 = the total thickness and t2 = the minimum exposed thickness}
	Density	Density range 531-755kg/m^3 (average 644kg/m^3)
	Treatment process	Vacuum Pressure Impregnation
Flame retardant details	Trade name	The sponsor provided this information but at the specific request of the sponsor, this information has been omitted from the test report and is instead held on our confidential file relating to this investigation
	Generic type	
	Supplier	
	Flame retardant treatment process conducted by	
	Solution strength	
	Impregnation date	
	Net chemical retention	
	Cycle details	
Brief description of manufacturing process		Non-Com® Exterior is applied under controlled conditions in a vacuum pressure timber impregnation plant, followed by a kiln drying and high temperature curing schedule.
Mounting and fixing details		The timber was mechanically fixed to 25mm (thickness) x 40mm (width) flame retardant treated spruce battens. A plasterboard substrate was butted up against the battens.

3. Test reports & test results in support of classification.

3.1 Test reports.

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Exova Warringtonfire	Arch Timber Protection Limited	WF 334524	EN ISO 11925-2
Exova Warringtonfire	Arch Timber Protection Limited	WF 334523	EN 13823

3.2 Test results

Test method & test number	Parameter	No. tests	Results	
			Continuous parameter - mean (m)	Compliance parameters
EN ISO 11925-2 (30s exposure - surface)	F_s	6	Nil	Compliant
	Flaming droplets/ particles		None	Compliant
EN ISO 11925-2 (30s exposure – edge)	F_s	6	Nil	Compliant
	Flaming droplets/ particles		None	Compliant
EN 13823	$FIGRA_{0.2MJ}$	3	63.61	Compliant
	THR_{600s}		3.87	Compliant
	LFS		Nil	Compliant
	SMOGRA		0.00	Compliant
	TSP_{600s}		43.88	Compliant

3.3 Additional information

Commission Decision 2000/147/EC Annex Table 1.

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1:2007+A1: 2009.

4.2 Classification

The product, "Non-Com® Exterior Treated Nobelwood", a flame retardant grade timber for exterior use, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s1

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

d0

The format of the reaction to fire classification for construction products excluding floorings is:

Fire Behaviour		Smoke Production			Flaming Droplets	
B	**-**	**s**	**1**	**,**	**d**	**0**

i.e. B – s1 , d0

Reaction to fire classification: B – s1, d0

4.3 Field of application

This classification is valid for the following end use applications:

i) Construction applications, mechanically installed with or without an airgap, over any substrate with a density equal to or greater than 800Kg/m³, having a minimum thickness of 12mm and a fire performance of A2 or better.

This classification is also valid for the following product parameters:

Product thickness	18mm and above - for timber with a uniform cross section 18/9mm (total/minimum exposed thickness) and above – for cladding profiles
Timber species	No variation allowed
Timber density	Between 531 and 755 kg/m^3
Timber treatment	No variation

SIGNED

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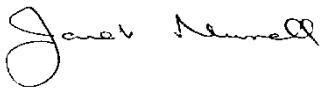
Matthew Dale
Certification Engineer
Technical Department

APPROVED



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Janet Murrell
Technical Manager
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on behalf of **Exova Warringtonfire**

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