

Reaction to Fire Classification Report

Name of client:	Burnblock ApS		
Product name:	Ассоуа		
File no.:	PCA10713A		
Date:	2021-03-22	Revision no.:	0
Pages:	5	Encl.:	3
Ref:	JAG / MPA		



Client information

Client: Burnblock ApS Address: Wilders Plads 15C DK-1403 Copenhagen K Denmark

The results relate only to the items tested. The report should only be reproduced in extenso - in extracts only with a written agreement with this institute.

1. Introduction

This classification report defines the classification assigned to the product "Accoya" in accordance with the procedures given in EN 13501-1:2018.

2. Details of classified product

2.1 General

The product "Accoya" is defined as solid wood panel of modified pinus radiata according to the product standard:

EN 14915:2013 Solid wood paneling and cladding – Characteristics, evaluation of conformity and marking.

2.2 Product description

The product "Accoya" is a Burnblock impregnated solid wood panel.

Following information was given by the client:

Moisture content average before impregnation:	6.2 %.
Average dry density:	568 kg/m³.
Burnblock solution concentration:	12% and 14.5 %.
Average product retention:	69.8 kg/m³.

Sealed ends (because of the length 1500 mm) with Teknoseal 4002-00. Sealing will be cut of before fire testing.

	Sample	average	median	standard	Minimum	Maximum	Average
	size	retention	retention	deviation	retention	retention	retention on
		(kg/m³)	(kg/m³)	(kg/m³)	(kg/m³)	(kg/m³)	the first 3
							panels in tests
							(kg/m³)
Sampled panels	36	69.9	72.1	6.7	53.0	81.3	76.2

Product was impregnated by Teknologisk Institut and Finotrol Oy (NB No. 2412) sampled panels for test by random selection of the total batch. See sampling report in enclosure 1-3.

Further product specifications are known to DBI - Danish Institute of Fire and Security Technology and are filed under the file number below.

3. Reports and results in support of this classification

3.1 Reports

Name	Name	Report ref. No	Test method	Date
of laboratory	of client		Field of application rules	
DBI	Burnblock ApS	PFA11693A	EN ISO 11925-2:2020	2021-02-12
			EN 13823:2020	2021-02-24

3.2 Results

Test methods	Parameter	Number of tests ^a	Results	
			Continuous	Compliance with
			parameter	parameters
			mean	
			(m)	
EN 13823	FIGRA 0.2 MJ(W/s)	3	91	(-)
	FIGRA _{0.4 MJ} (W/s)	3	88	(-)
	THR 600s (MJ)	3	5.4	(-)
	SMOGRA (m²/s²)	3	0	(-)
	TSP _{600s} (m ²)	3	21	(-)
	LFS < edge	3	(-)	Y
	FDP _{f≤10s}	3	(-)	Y
	FDP _{f>10s}	3	(-)	Y
EN ISO 11925-2				
Surface flame attack,	$F_s {\leq} 150$ mm within 60 s.	6	(-)	Y
30 s exposure	No ignition of filter paper	6	(-)	Y
Edge flame attack,	$F_s \leq 150 \text{ mm}$ within 60 s.	6	(-)	Y
30 s exposure	No ignition of filter	6	()	v
	paper	0	(-)	T
a Not for extended	application			
Y "Compliant"				
(-) not applicable				

4. Classification and field of application4.1 Reference of classification

4.1 Reference of classification

This classification has been carried out in accordance with clause 11.6, 11.9 and 11.10 of EN 13501-1:2018.

4.2 Classification

The product "Accoya" in relation to its reaction to fire behavior is classified: B.

The additional classification in relation to smoke production is: s1.

The additional classification in relation to flaming droplets/particles is: d0.

Reaction to fire classification:

B-s1,d0

4.3 Field of application

This classification is valid for the following end use conditions:

- any substrates of classes A1 and A2-s1,d0 of at least 12.5 mm thickness and with a density equal to or greater than 525 kg/m³.
- with the product fixed mechanically to the substrate.
- with a ventilated or non-ventilated air gap.
- with no air gap.
- with horizontal and vertical butted joints.
- with the panels mounted horizontally.

According APPROVED GUIDANCE NB-CPR/SH02/19/832r2 of 14 January 2020 and EN 13501-1:

This classification is valid for the following product parameters:

- with a minimum nominel retention level of 76 .2 kg/m³ Burnblock in the individual panel.
- with a nominel thickness of the panel equal to 19 mm.
- with a nominal dry density of 568 kg/m³ of Accoya before impregnation
- with a planned surface.
- without any surface coating.

For nominal thicknesses larger than 19 mm the reaction to fire class is B-s2,d0.

5. Limitations

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

Martin Pauner

Martin Pauner M.Sc.Civ.Eng

Jeppe Ankjær B.Eng. Architectural Engineering

Burnblock ApS Wilders Plads 15C DK-1403 Copenhagen K Denmark

Reaction to fire test regulation and sampling sheet (Should be attached to the test report)

Name of the sec	Subscriber inform	ation (customer or sponso	r of the requisition	1)
Name of the co	npany: Burnblock Ap5 - Wi	iders Plads 15C; 1403	Copenhagen	
Legal a	ddress:			
Reg. no.:	33581173	VAT no.:	Class	Ж33581173
Bank:	Nordea A/S	Account:	215	03498813479
Phone:	+45 70232053	@:	info@	burnblock.com
	(Phone number)	N.		(E-mail address)
Signatory: P	(Position)	N:	(Name)	(Sumame)
	Co	ontact information		
N: Pa	IW C. S: Name)	Fälled (Sumane)	P:	Senior R&D Manager (Postion)
@: <u>pf@bur</u>	block.com Mob.:	+45 31323667	Phone:	
Correspondence ad	dress: Wilders Plads 15C;	1403 Copenhagen		(Phone)
	The way of receiv	ing of the test repor	t (please, select)	
Pers	onally	Post		X E-mail
(receiving in	aboratory) (c	correspondence address)	(α	entact information e-mail)
his ma. a	The owner of the test n	eport (to be indicated if dif	ferent from the o	ustomer)
Name o	Legal address: Wilders Play	4p5 de 15C+ 1403 Conenhar	ion	
Regist	ration number: 33581173	15 150, 1405 Copennag	Jen	
Regise	Information a	about test specimen	/samples	
	Type of the specimen	: Accoya (modified Pinu	us radiata)	
Id	entification of the specimen	: ACC1 - ACC65		
	Date	: Impregnation date 8.	1.2021 - 12.1	.2021
		Danish Technological	Institute, DTI	
	Place (address)	Gregersensvej 3		
	Flace (duuless)	Denmark		
		Contact person: Mort	en Klamer	
	Specimens manufactured by	Accoya material: Acco	sys PLC	-
		Impregnated with Bui	rnblock FR: DI	reve BLC have made the
	Materials used for	material and sent it to	DTI for impr	equation. Contact person
	manufacture of the	e Karl Lindström / Accs	ys PLC	-grade of the second second
	specimen	·	from H. c	Laura of Laura DLC
		Accoya samples took I = 1500 mm W = 1951	mm T=19 mm	nouse of Accsys PLC:
Manufacturing of		Moisture content: 6 9	6,	
the test specimen		Estimated density 400) – 600 kg/m ³	
		Total amount: 65 pier	œs	
		65 pieces delivered D	TI for imprear	ation tests, 12 nieces was
	Parameters of specimo	rejected during the te	sts. 53 pieces	passed and measured:
	(e.g. dimensions, weight	t = 1500 mm W = 105	mm T=10	
	other)	Moisture content aver	rage before im	pregnation: 6.2 %
		Average dry density:	568 kg/m ³	hi all'ingenerie alle ra
		Bumblock solution co	ncentration: 12	2% and 14,5 %
		Sealed ends (because	of the length	1500 mm) with
		Average product reter	ntion: 69.8 ko	cut or before fire testing. /m ³
		reading of produce reading	naon osto ky	

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	Date:	9.2.2021
	Sampling place:	Danish Institute of Fire and Security Technology, DBI according to remote sampling procedure of Finotrol Ov
	Address:	DBI Jemholmen 12 2650 Hvidovre Denmark
		Accoya samples took from the warehouse of Accsys PLC Total amount: 65 pieces) Accoya material delivered to DTI 4.2.2020
		DTI picked 53 pieces after rejected 12 pieces (numbers marked originally 1 – 65) for the final impregnation tests. Impregnation tests were performed during 8.1.2021 – 12.1.2021. Average product retention 69,8 kg/m ³ .
Sampling	Sampling procedure, methods*:	Sampling made for the classification test, 3 SBI tests, 12 samples $x = 36$ samples.
		Additional information: Average retention of randomly chosen samples is 69,6 kg/m ³
		Sampling of 36 pieces is made randomly from the batch of 53 pieces.
	Numbers of the samples:	Marking of the samples ACC + number: ACC 1, 2, 4, 7, 8, 9, 11, 12, 14, 15, 19, 21, 23, 24, 26, 28, 29, 31, 32, 35, 37, 38, 40, 41, 43, 44, 45, 46, 48, 50, 52, 54, 57, 59, 62 and ACC 63
	Sample photos:	X. Photos taken. 🗆 Photos not taken
	Sampling done by:	Remote procedure: Petteri Torniainen and Timo Aavakallio Finotrol Oy, Notified Body nr. 2412 Picking, photo and marking: Jeppe Ankjaer, DBI, accredited
		abora tory
	Test and classification star	ndards
	Test shall be carried out a	ccording to (mark actual):
	x EN 13823 requirement	'S
	EN ISO 11925-2 require	ements
	The relevant classificatio	on system accordance EN 13501-1.
	Scope of the test:	
	X Initial type testing;	
	Factory product control.	
	Conditioning of specimens	:
	x required i not required.	
Other information:	Reference of related barm	onized product standard in CE marking:
	EN 14915:2013	

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Descripti	on of the wood material:
	 Accoya (modified Pinus radiata) impregnated with Burnblock fire retardant.
Descripti	on of the treatment:
· ·	 Application method: Vacuum-pressure impregnation
	 Parameters: Vacuum 20 min 0,1 bar and pressure 90 min 12 bar
	 Burnblock (PO number PRO100577) concentration: 12-14,5 %
	 Burnblock (PO number PRO100577) retention: 69,8 kg/m³
Manufact	ure of specimen:
	 Accoya: Accsys PLC
	- Impregnation: DTI
Product d	lescription in test:
	 product name: Accoya
	 wood species: Pinus radiata
	 treatment: impregnated with Burnblock
Additiona	Information:
	 end-use conditions; mounted horizontally, standard substrate, ventilated air
	fixing: horisontal/vertical joints.

* For example: 1) Sampling carried out accordingly with described procedure and plan or with standardized method; 2) The sample taken from the production line; 3) The sample taken from warehouse of ready production; 4) Specially made for testing; 5) The sample taken at random; 6) Specially selected the best/strongest; 7) Other ...

Other conditions:

The test order presumes that the laboratory is accredited as notified test laboratory and meets the requirements of CPR Article 43 and there is valid written subcontracting agreement with Finotrol Oy.

Test laboratory has a request to verify that the samples received correspond to the information in this test requisition and sampling sheet.

If any ambiguity is noticed, should contact Finotrol Oy immediately.

10.03.2021

Peter laining (Signature)

(Date)

Petteri Torniainen

(Name, surname)

Test order No. DBI PFA11693A (fil in by testing laboratory)

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