



le futur en construction

SAFETY, STRUCTURES AND FIRE DEPARTMENT
Reaction to fire

REACTION TO FIRE CLASSIFICATION REPORT

No. RA06-0181

ACCORDING TO THE EUROPEAN STANDARD

NF EN 13501-1

Notification by the French Government to the European Commission under no 0679.
Seule la version française fait foi.
The french version is legally acceptable

Product standard:

NF EN 13986: "Wood-based panels for use in construction - Characteristics, evaluation of conformity and marking"

Owner: **TAVAPAN SA**
10 rue de la Dout
2710 TAVANNES
SWITZERLAND

Commercial brand(s): **DEWETON® Euro Class B**

Manufacturing unit(s): **TAVAPAN SA**
10 rue de la Dout
2710 TAVANNES
SWITZERLAND

Brief description: **Wood-based acoustic panels**
(see detailed description in paragraph 2)

Date of issue: **July 07th, 2006**

This report cancels and replaces the report number RA06-0181 dated May 24th, 2006.

The indicated classification does not prejudice the conformity of marketed materials with the samples submitted to the tests and under no circumstances, this document should not be considered as type approval or certification of the product in the sense of the L 115-27 article of the consumption's code and of the law dated June 3rd, 1994.

The reproduction of this classification report is only authorised in its integral form, with or without its test report attached.

It comprises 10 pages.

1. Introduction

This classification report defines the classification assigned to the above-mentioned product(s) in accordance with the procedures given in the EN 13501-1 standard.

2. Product description

Wood particleboard, fire-retarded during production, covered with a fire-retarded decorative wood veneer stuck on the visible side (fire-retarded glue) and coated with a transparent acrylic varnish. The backside is bonded with a stability veneer.

Nominal density: 684 kg/m³.

Overall nominal thickness: 24 mm.

Nominal thickness of the wood veneer: 0.35 mm.

Tested wood species:

Family 1: Ash / Beech / Koto.

Family 2: Spruce / Larch / Fir.

Family 3: Birch / Maple / Cherry Tree.

3. Tests reports and tests results in support of this classification

3.1 Tests reports

Name of laboratory	Name of sponsor	Test identification	Test report Nos.	Test method
CSTB	TAVAPAN SA 10 rue de la Dout 2710 TAVANNES SWITZERLAND	ES541040741	RA06-0181	EN ISO 11925-2 EN 13823

3.2 Tests results

Test method	Product	Number of tests	Parameters	Results
				Compliance parameters
EN ISO 11925-2 30s surface exposure	DEWETON® Euro Class B (veneer)	6	Fs > 150 mm Filter paper	Not reached Not ignited
EN ISO 11925-2 30s edge exposure	DEWETON® Euro Class B (veneer)	6	Fs > 150 mm Filter paper	Not reached Not ignited

FAMILY 1 (test results)					
Test method	Product	Number of tests	Parameters	Results	
				Continuous parameters : mean value	Compliance parameters
EN 13823	Type A1 Beech	3	FIGRA _{0.2MJ} (W/s)	76.1	-
			FIGRA _{0.4MJ} (W/s)	35.2	-
			LFS	-	Not reached
			THR _{600s} (MJ)	3.4	-
			SMOGRA(m ² /s ²)	16.0	-
			TSP _{600s} (m ²)	168.5	-
			Flaming droplets or debris	-	None
FAMILY 1 (additional tests)					
EN 13823	Type A1 Ash	1	FIGRA _{0.2MJ} (W/s)	5.5	-
			FIGRA _{0.4MJ} (W/s)	5.5	-
			LFS	-	Not reached
			THR _{600s} (MJ)	0.9	-
			SMOGRA(m ² /s ²)	13.0	-
			TSP _{600s} (m ²)	129.2	-
			Flaming droplets or debris	-	None
EN 13823	Type A1 Koto	1	FIGRA _{0.2MJ} (W/s)	9.7	-
			FIGRA _{0.4MJ} (W/s)	9.7	-
			LFS	-	Not reached
			THR _{600s} (MJ)	1.4	-
			SMOGRA(m ² /s ²)	12.3	-
			TSP _{600s} (m ²)	142.6	-
			Flaming droplets or debris	-	None

(-) means: not applicable

FAMILY 1 (additional tests)					
Test method	Product	Number of tests	Parameters	Results	
				Continuous parameters : mean value	Compliance parameters
EN 13823	Type A4 Koto	1	FIGRA _{0.2MJ} (W/s)	119.2	-
			FIGRA _{0.4MJ} (W/s)	55.8	-
			LFS	-	Not reached
			THR _{600s} (MJ)	3.0	-
			SMOGRA(m ² /s ²)	7.9	-
			TSP _{600s} (m ²)	102.3	-
			Flaming droplets or debris	-	None
EN 13823	Type D1 Koto	1	FIGRA _{0.2MJ} (W/s)	99.9	-
			FIGRA _{0.4MJ} (W/s)	55.9	-
			LFS	-	Not reached
			THR _{600s} (MJ)	3.8	-
			SMOGRA(m ² /s ²)	10.7	-
			TSP _{600s} (m ²)	114.6	-
			Flaming droplets or debris	-	None

(-) means: not applicable

FAMILY 2 (test results)					
Test method	Product	Number of tests	Parameters	Results	
				Continuous parameters : mean value	Compliance parameters
EN 13823	Type D1 Fir	3	FIGRA _{0.2MJ} (W/s)	76.7	-
			FIGRA _{0.4MJ} (W/s)	43.5	-
			LFS	-	Not reached
			THR _{600s} (MJ)	4.1	-
			SMOGRAM(m ² /s ²)	12.2	-
			TSP _{600s} (m ²)	133.9	-
			Flaming droplets or debris	-	None
FAMILY 2 (additional tests)					
EN 13823	Type A1 Spruce	1	FIGRA _{0.2MJ} (W/s)	26.9	-
			FIGRA _{0.4MJ} (W/s)	26.8	-
			LFS	-	Not reached
			THR _{600s} (MJ)	3.0	-
			SMOGRAM(m ² /s ²)	16.8	-
			TSP _{600s} (m ²)	157.9	-
			Flaming droplets or debris	-	None
EN 13823	Type A1 Larch	1	FIGRA _{0.2MJ} (W/s)	62.4	-
			FIGRA _{0.4MJ} (W/s)	49.4	-
			LFS	-	Not reached
			THR _{600s} (MJ)	4.0	-
			SMOGRAM(m ² /s ²)	18.5	-
			TSP _{600s} (m ²)	181.7	-
			Flaming droplets or debris	-	None

(-) means: not applicable

FAMILY 2 (additional tests)					
Test method	Product	Number of tests	Parameters	Results	
				Continuous parameters : mean value	Compliance parameters
EN 13823	Type A1 Fir	1	FIGRA _{0.2MJ} (W/s)	31.3	-
			FIGRA _{0.4MJ} (W/s)	31.3	-
			LFS	-	Not reached
			THR _{600s} (MJ)	4.2	-
			SMOGRA(m ² /s ²)	12.3	-
			TSP _{600s} (m ²)	136.1	-
			Flaming droplets or debris	-	None
EN 13823	Type A4 Spruce	1	FIGRA _{0.2MJ} (W/s)	58.9	-
			FIGRA _{0.4MJ} (W/s)	26.7	-
			LFS	-	Not reached
			THR _{600s} (MJ)	2.3	-
			SMOGRA(m ² /s ²)	8.9	-
			TSP _{600s} (m ²)	114.3	-
			Flaming droplets or debris	-	None

(-) means: not applicable

FAMILY 3 (tets results)					
Test method	Product	Number of tests	Parameters	Results	
				Continuous parameters : mean value	Compliance parameters
EN 13823	Type A1 Maple	3	FIGRA _{0.2MJ} (W/s)	85.2	-
			FIGRA _{0.4MJ} (W/s)	54.1	-
			LFS	-	Not reached
			THR _{600s} (MJ)	3.4	-
			SMOGRA(m ² /s ²)	16.3	-
			TSP _{600s} (m ²)	166.4	-
			Flaming droplets or debris	-	None
EN 13823	Type A4 Birch	5	FIGRA _{0.2MJ} (W/s)	112.4	-
			FIGRA _{0.4MJ} (W/s)	44.7	-
			LFS	-	Not reached
			THR _{600s} (MJ)	2.9	-
			SMOGRA(m ² /s ²)	7.8	-
			TSP _{600s} (m ²)	98.5	-
			Flaming droplets or debris	-	None
EN 13823	Type D1 Birch	3	FIGRA _{0.2MJ} (W/s)	74.3	-
			FIGRA _{0.4MJ} (W/s)	52.0	-
			LFS	-	Not reached
			THR _{600s} (MJ)	3.9	-
			SMOGRA(m ² /s ²)	13.4	-
			TSP _{600s} (m ²)	145.8	-
			Flaming droplets or debris	-	None

(-) means: not applicable

FAMILY 3 (additional tests)					
Test method	Product	Number of tests	Parameters	Results	
				Continuous parameters : mean value	Compliance parameters
EN 13823	Type A1 Birch	1	FIGRA _{0.2MJ} (W/s)	109.3	-
			FIGRA _{0.4MJ} (W/s)	88.2	-
			LFS	-	Not reached
			THR _{600s} (MJ)	5.9	-
			SMOGRA(m ² /s ²)	17.5	-
			TSP _{600s} (m ²)	179.9	-
			Flaming droplets or debris	-	None
EN 13823	Type A1 Cherry tree	1	FIGRA _{0.2MJ} (W/s)	69.0	-
			FIGRA _{0.4MJ} (W/s)	38.0	-
			LFS	-	Not reached
			THR _{600s} (MJ)	3.2	-
			SMOGRA(m ² /s ²)	15.6	-
			TSP _{600s} (m ²)	149.4	-
			Flaming droplets or debris	-	None

(-) means: not applicable

4. Classification and direct field of application

4.1 Reference of the classification

This classification has been carried out in accordance with clauses 10.6, 10.9.3 and 10.10.1 of the EN 13501-1 standard.

4.2 Classification

Fire behaviour		Smoke production		Flaming droplets or debris
B	-	s2	,	d0

Classification: B - s2, d0

4.3 Field of application

This classification is valid for the following product parameters:

- Wood species families 1, 2 and 3 defined in the appendix.
- Slits types A1, D1, A2, D2, A4, D4.
- Overall thickness of about 24 mm.
- Veneer thickness of about 0.35 mm.
- Density of about 684 kg/m³.

This classification is valid for the following end use conditions:

- With a minimum airgap of 40 mm.
- With horizontal timbers.

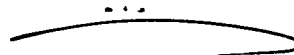
Champs-sur-Marne, July 07th, 2006

Technician
Responsible for the test



Gildas CREACH

Head of the Reaction to Fire Laboratory



Bruce LE MADEC

Wood species families defined for range testing to obtain an Euroclass

Family 1 Ring porous or high impregnable wood	Family 2 Softwood or mid impregnable wood	Family 3 Diffuse pores or low impregnable wood
AFRICAN MAHOGANY (Bassam)	AMARELO	ALDER
AMERICAN MAHOGANY (West Indies, Cuba, St Domingue)	AMAZAKOUE	BIRCH (France, Scandinavia, Russia)
AFRORMOSIA	ANDIROBA	BILINGA
AKO	BASRALOCUS	CAMASSARI BOX TREE
ALERCE	BUBINGA	HORMEBEAM
ANIEGRE	CEDAR	COIGUE
ASPEN	SOUTH AMERICAN CEDAR	SERVICE TREE
AVODIRE	CITRUS	DIBETOU
AYOUS	COURBARIL	BIRD'S EYE MAPLE
BALSA	CYPRESS	MAPLE
BOSSE	SPRUCE	EUCALYPTUS (Burl)
CHESTNUT	ETIMOE	EYONG
OAK / OAK US	EKABA / EKOP	SAP GUM
BOAG OAK	GINKGO BILOBA	YEW
CURUPIXA	HEMLOCK	IMBUA
DOUSSIE	IGAGANGA	KERUING
EMIENE	IROKO	KAURI
FRAMIRE	AMBOYNA (Burl)	MADRONA (Burl)
ASH / OLIVE ASH	THUYA (Burl)	MYRTLE (Burl)
JAPANESE ASH	VAVONA (Burl)	EUROPEN MAPLE (Burl)
SILK COTTON TREE	LARCH	LOURO PRETO
GOIABAO	MERANTI	MENKULANG
GRAND BASSAM (Khaya)	OLIVE WOOD	AMERICAN BLACK CHERRY
GREY POPLAR	OZIGO	EUROPEAN CHERRY
BEECH (White, Steamed)	AFRICAN PADOUK	NIANGON
ILOMBA	ASIAN PADOUK	AUSTRALIAN WALNUT
KOSSIPO	PAO AMARELO	EUROPEAN WALNUT (Burl, Crotch)
KOTIBE	PINE	AMERICAN WALNUT
KOTO-PTERYGOTA	OREGON PINE	NYATOH
LIMBA	RED CEDAR	EUROPEAN ELM (Burl)
CHESTNUT, POPLAR, BEECH, ASH, OAK (Burl)	LOCUST	AMERICAN ELM
LOURO FAIA	FIR	PALDAO
MOVINGUI	ROWAN	PAO ROSE
GABON MAHOGANY	LAUAN (Red, Yellow)	WHITE PEROBA
OLON	SATINE RUBANE	PLANE TREE
POPLAR	TINEO	PEARWOOD (Beam Tree)
RAMIN	TROPICAL OLIVER	APPLE TREE
SAMBA (Ayous)		PLUM TREE
SAPELE		SYCAMORE
SEN		TAUARI
UTILE		
GEDU NOHOR		
BASSWOOD		
TOLA /AGBA		
TULIP WOOD		

Nota: table extracted from document NB-CPD/SG20-04-003.

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