iBMB MPA TU BRAUNSCHWEIG
Institut für Baustoffe, Massivbau und Brandschutz | Materialprüfanstalt für das Bauwesen

CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1: 2007

Nr. des Klassifizierungsberichtes: K-3426/310/09-MPA BS

Auftraggeber:	TEPE BETOPAN YAPI MALZEMELERI A.S: Beytepe Köyü Yolu No:3 06800 Bilkent Ankara Turkey
Classified product:	Cement-bound uncoated wood particle board named as “Betopan”
Base of classification:	DIN EN 13501-1: 2007
Prepared by::	MPA Braunschweig Germany
Notified Body No.:	0761-CPD
Date of issue:	31.08.2009
Limitations:	This document does not represent type approval or certification of the product.

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Materialprüfanstalt (MPA)
für das Bauwesen
Beethovenstraße 52
D-38106 Braunschweig

Fon +49 (0)531-391-5400
Fax +49 (0)531-391-5900
info@mpa.tu-bs.de
www.mpa.tu-bs.de

Norddeutsche LB Hannover
106 020 050 BLZ 250 500 00
Swift-Code: NOLADE 2H
USt.-ID-Nr. DE183500654
Steuer-Nr.: 14/201/22859
IBAN: DE58250500000106020050

Notified body (0761-CPD)
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1 General Information

This classification report defines the classification assigned to the product “Betopan” of the company “TEPE BETOPAN YAPI MALZEMELERI A.S:” in accordance with the procedures given in DIN EN 13501-1 : 2007.

2 Details of classified product

2.1 End-use application

For load-bearing use in dry rooms

2.2 Description of the product

Product name : Betopan

Product description	Thickness [mm]
Cement-bound uncoated wood particle board	6 mm – 18 mm

The product is fully described in the test reports in support of this classification listed in clause 3.1.

3 Test reports and test results in support of this classification

3.1 Test reports

Name of laboratory	Name of sponsor / manufacturer	Test report number	Test method
MPA Braunschweig	TEPE BETOPAN YAPI MALZEMELERI A.S:	3426/310/09-a	DIN EN 13823
MPA Braunschweig	TEPE BETOPAN YAPI MALZEMELERI A.S:	3426/310/09-b	DIN EN ISO 11925-2
MPA Braunschweig	TEPE BETOPAN YAPI MALZEMELERI A.S:	3324/1306-A	DIN EN 13823
MPA Braunschweig	TEPE BETOPAN YAPI MALZEMELERI A.S:	3324/1306-B	DIN EN ISO 11925-2

3.2 Test results

3.2.1 Test results for the product “Betopan” (Nominal thickness: 6 mm)

Test method	Parameter	Number of tests	Test results	
			Continuous Parameters (mean value)	Compliance parameter
EN 13823	$FIGRA_{0,2\ MJ}$	3	14	-
	$FIGRA_{0,4\ MJ}$	3	14	-
	THR_{600s} (MJ)	3	2.0	-
	LFS < Edge	3	--	yes
	SMOGRA (m^2/s^2)	3	0	-
	TSP_{600s} (m^2)	3	22	-
	Flaming droplets / particles	3	-	no
EN ISO 11925-2				
Surface flame attack 30 s	Fs ≤ 150 mm	6	-	yes
Burning droplets/particles	Ignition of filter paper	6	-	no
Edge flame attack 30 s	Fs ≤ 150 mm	6	-	yes
Burning droplets/particles	Ignition of filter paper	6	-	no

3.2.2 Test results for the product “Betopan (nominal thickness: 10 mm)”

Test method	Parameter	Number of tests	Test results	
			Continuous Parameters (mean value)	Compliance parameter
EN 13823	$FIGRA_{0,2\ MJ}$	3	11	-
	$FIGRA_{0,4\ MJ}$	3	9	-
	THR_{600s} (MJ)	3	1.3	-
	LFS < Edge	3	--	yes
	SMOGRA (m^2/s^2)	3	0	-
	TSP_{600s} (m^2)	3	22	-
	Flaming droplets / particles	3	-	no
EN ISO 11925-2				
Surface flame attack 30 s	Fs ≤ 150 mm	6	-	yes
Burning droplets/particles	Ignition of filter paper	6	-	no
Edge flame attack 30 s	Fs ≤ 150 mm	6	-	yes
Burning droplets/particles	Ignition of filter paper	6	-	no

3.2.3 Test results for the product “Betopan (nominal thickness: 18 mm)”

Test method	Parameter	Number of tests	Test results	
			Continuous Parameters (mean value)	Compliance parameter
EN 13823	$FIGRA_{0,2\ MJ}$	3	0	-
	$FIGRA_{0,4\ MJ}$	3	0	-
	THR_{600s} (MJ)	3	0.7	-
	LFS < Edge	3	--	yes
	SMOGRA (m^2/s^2)	3	0	-
	TSP_{600s} (m^2)	3	20	-
	Flaming droplets / particles	3	-	no
EN ISO 11925-2				
Surface flame attack 30 s	Fs ≤ 150 mm	6	-	yes
Burning droplets/particles	Ignition of filter paper	6	-	no
Edge flame attack 30 s	Fs ≤ 150 mm	6	-	yes
Burning droplets/particles	Ignition of filter paper	6	-	no

4 Classification and direct field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 11 of DIN EN 13501-1 : 2007.

4.2 Classification

The products in relation to its fire behaviour are classified:

Betopan (Thickness: 6 mm – 18 mm)	**B**

The additional classification in relation to smoke production is:

Betopan (Thickness: 6 mm – 18 mm)	**s1**

The additional classification in relation with burning droplets/particles is:

Betopan (Thickness: 6 mm – 18 mm)	**d0**

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

Fire behaviour		**Smoke production**		**Flaming droplets**
B	**-**	**s1**	**,**	**d0**

The classification in accordance with DIN EN 13501-1:2007 for the product “Betopan” is:

Reaction to fire classification: B-s1,d0

4.3 End-use application and product parameters

The classification in clause 4.2 only applies to the products described in clause 2 and is only valid for the following product parameters and applications:

End-use application: For use in dry rooms.

Parameter	Validity range
Density	1250 kg/m³ - 1400 kg/m³
Thickness	6 – 18 mm
Substrate	Minerally substrates of fire performance classes A1 and A2,s1-d0

5 Limitations

5.1 Used with other substrates or with additional other coatings than given in clause 4.3 its performance is likely to be influenced thus negative, that the given classification in clause 4.2 is no longer valid. Fire performance with other substrates or with additional coatings is to be tested and classified separately.

5.2 This classification report does not represent approval or certification of the product.

i.A.

ORR Dr.-Ing. B. Blume
Vice head of testing laboratory

Dipl.-Phys. H. J. Herbst
Official in charge

Braunschweig, 31.08.2009