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MA 39 – VFA 2017-0826.01

Vienna, 27 July 2017

Classification of reaction to fire in accordance with EN 13501-1:2007+A1:2009

Sponsor: FunderMax GmbH

Prepared by: Municipal Department 39 -
Research Centre, Laboratory and Certification Services of the City of
Vienna

Notified body No.: 1139

Product name: Chip boards with red core (thickness range 12 mm to 38 mm)
designated as „Homogen B1“, with a density of at least 650 kg/m³,
product in accordance with EN 312

Classification report No.: MA 39 – VFA 2017-0826.01

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Tests relate exclusively to the test material.

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1 Introduction

This classification report defines the classification assigned in conformity with the procedure set forth in ÖNORM EN 13501-1 to the construction product chip boards with red core (thickness range 12 mm to 38 mm) designated as „Homogen B1“, with a density of at least 650 kg/m³, product in accordance with EN 312, without rear ventilation, which was stored up to mass constancy in standard atmosphere pursuant to ÖNORM EN 13238, as described in the test reports listed under 3.1.

2 Details of the Construction Product(s) Classified

The construction product/s is/are fully described in the test reports listed in 3.1, on which the classification is based.

3 Test Reports and Test Results on which the Classification is Based

3.1 Test Reports

Name of Lab	Test commissioned by	File numbers of test reports	Test procedures
MA 39 Rinnböckstraße 15 1110 Vienna Austria	FunderMax GmbH Bickfordstraße 6 7201 Neudörfel Austria	MA 39 – VFA 2017-0826.02 dated 27 July 2017	ÖNORM EN 13823
		MA 39 – VFA 2016-0569.03 dated 3 May 2016	ÖNORM EN ISO 11925-2

3.2 Test Results

Chip boards "Homogen B1" with red core, density 740 kg/m³, thickness 12 mm, without rear ventilation, mechanically fastened on to supporting boards of type calcium silicate:

Test procedure	Parameters	Number of test runs	Test results	
			Continuous parameters Mean value	Parameter readings
			Mean value	
ÖNORM EN 13823	FIGRA _{0.2 MJ} [W/s]	3	113,3	---
	FIGRA _{0.4 MJ} [W/s]		109,1	---
	LFS < edge of specimen			Y
	THR _{600s} [MJ]		4,4	---
	SMOGR _A [m ² /s ²]		1,7	---
	TSP _{600s} [m ²]		33,6	---
	Fall of flaming droplets/particles			N



Chip boards "Homogen B1" with red core, density 740 kg/m³, thickness 12 mm, without rear ventilation, supporting board of type calcium-silicate:

Test procedure	Parameters	Number of test runs	Test results	
			Continuous parameters Mean value	Parameter readings
ÖNORM EN ISO 11925-2 Surface and edge flaming 30 second flame attack Fall of flaming droplets/particles	$F_s \leq 150$ mm ignition of filter paper	6 + 6	---	Y
			---	N

Chip boards "Homogen B1" with red core, density 650 kg/m³, thickness 38 mm, without rear ventilation, mechanically fastened on to supporting boards of type calcium silicate:

Test procedure	Parameters	Number of test runs	Test results	
			Continuous parameters Mean value	Parameter readings
ÖNORM EN 13823	FIGRA _{0.2 MJ} [W/s]	1	82,0	---
	FIGRA _{0.4 MJ} [W/s]		80,0	---
	LFS < edge of specimen			Y
	THR _{600s} [MJ]		5,1	---
	SMOGRA [m ² /s ²]		0,0	---
	TSP _{600s} [m ²]		4,9	---
	Fall of flaming droplets/particles			N

Chip boards "Homogen B1" with red core, density 650 kg/m³, thickness 38 mm, without rear ventilation, supporting boards of type calcium silicate:

Test procedure	Parameters	Number of test runs	Test results	
			Continuous parameters Mean value	Parameter readings
ÖNORM EN ISO 11925-2 Surface and edge flaming 30 second flame attack Fall of flaming droplets/particles	$F_s \leq 150$ mm ignition of filter paper	6 + 6	---	Y
			---	N



4 Classification and Scope of Direct Application

This classification was carried out in accordance with Austrian standard ÖNORM EN 13501-1.

4.1 Classification

The construction product chip boards with red core (thickness range 12 mm to 38 mm) designated as „Homogen B1“, with a density of at least 650 kg/m³ (described in the test reports listed above), 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 and linear pipe thermal insulation products is:

Reaction to fire performance		Smoke production				Flaming droplets/particles	
B	-	s	1	,	d	0	

i.e. B – s1, d0

Reaction to fire classification: B – s1, d0

4.2 Scope of Application

This classification applies to the construction product designated as “Homogen B1” and described in the above-mentioned test reports in a range of thicknesses 12.0 mm to 38.0 mm.

Moreover, it relates to the mounting of panels in a design without rear ventilation. Panels have to be fastened mechanically onto the substructure that has to be made of products conforming to reaction to fire-classes A1 or A2 with a minimum density of 650 kg/m³.

No open edges are admitted.

5 Restrictions

5.1 General

This classification report is valid for a period of 5 years, it will thus expire on 27 July 2022. Any provisions in European product standards as may restrict the period of validity hereof must be observed.

In the event that fundamental testing or assessment criteria change, the period of validity will end before the expiry of this deadline. Moreover, the report will cease to be valid if the client makes inadmissible technical changes in the product.

5.2 Caveat

This document does not serve the purpose of type certification or certification of the construction product.

This classification report has also been issued in German. In case of doubt, the German wording is valid.

The Case Manager:

Dipl.-Ing. D. Werner, MSc

The Head of the Laboratory
authorised to sign:

Dipl.-Ing. Dr. techn. C. Pöhn

The Head of the Research Centre,
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Dipl.-Ing. G. Pommer