



Classification of Reaction to Fire Performance

Report on classification of the burning behaviour of the building product
„Aluminium-sandwich system Dibond FR“

Report no.: 06033110ae

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IBS-KI/gk

<u>Applicant:</u>	Alcan Singen GmbH Alusingen-Platz 1 D-78224 Singen
<u>Date of application:</u>	09.06.2006
<u>Product name</u>	„Aluminium-sandwich system Dibond FR“
<u>Tested bond dimension:</u>	3 mm
<u>Short evaluation:</u>	In accordance with EN 13501-1:2002 the above mentioned building product is ranked into the European Class B – s1, d0 because of its fire behaviour. The classification of reaction to fire and the therefore valid practical range of application is obvious by the representational classification report.
<u>Validity for Austria:</u>	according to the Austrian standard B 3800-2 until 08.08.2010
This report contains:	5 text pages

The duplication of this classification report in extracts is only allowed with written authorisation from the IBS.

Due to the BGBl. 468/1992 by notification of the Federal Ministry for Buildings and Engineering national accredited for tests on the specific field of material testing on behaviour against impact of fire as well as tests, proving and material proving on gear and installations on fire prevention.

1.) Introduction:

This classification report defines the classification which is assigned to the building product „Aluminium-sandwich system Dibond FR” in agreement with the in EN 13501-1 stated method.

2.) Details of the classified building product:

2.1) Type and application range:

The building product „Aluminium-sandwich system Dibond FR” is defined as a „form of a classified building product”. This classification applies to the field of application mentioned under 5.).

2.2) Description:

The building product „Aluminium-sandwich system Dibond FR” is completely described in the test reports mentioned under 3.1) which are based on the classification.

3.) Test reports and results in support of classification:

3.1) Test reports:

Name of the laboratory	Holder of classification report	Number of the test reports	Test method
IBS GmbH	Alcan Singen GmbH	06033110-1	ÖNORM EN 13823:2002
IBS GmbH	Alcan Singen GmbH	06033110-2	ÖNORM EN ISO 11925-2:2002

3.2) Test results:

Test method	Parameter	Number of tests	Test result	
			Constant parameter average (m)	Discrete parameter
ÖNORM EN 13823	FIGRA _{0,2} (W/s)	3 (test series)	9,82	(-)
	FIGRA _{0,4} (W/s)		9,82	(-)
	THR _{600s} (MJ)		1,2	(-)
	LFS < edge		(-)	J
	SMOGRA (m ² /s ²)		2,2	(-)
	TSP _{600s} (m ²)		35,54	(-)
	flaming droplets/particles		(-)	N
ÖNORM EN ISO 11925-2 Flame impingement of surface Flame impingement of angle 30 s flame impingement burning drip/drop	F _s ≤ 150 mm	12	(-)	J
	Ignition of filter paper		(-)	N

(-) not applicable

4.) Classification and direct field of application:

4.1) Reference and direct field of application:

This classification has been carried out in accordance to the sections 6, 7, 8 and 10.6 of the European standard EN 13501-1:2002.

4.2) Classification:

The building product „Aluminium-sandwich system Dibond FR“ in relation to its reaction to fire behaviour is classified as follows:

B

The additional classification in relation to smoke emission is:

s1

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

d0

The format of the classification of the burning behaviour for building products without flooring is:

Fire behaviour		Smoke emission			Flaming droplets/particles	
B	-	s	1	,	d	0

i.e.: **B – s1, d0**

5.) Field of application:

This classification is valid for the following end use-application:

- Wall- or ceiling installation – not horizontal as flooring
- With a ventilation gap
- With and without rear ventilation
- In accordance to EN 13823 it is only allowed to use a substructure which meets the European Classes A1 or A2.

Furthermore this classification is valid for the following product parameters:

- Bond dimension: 3 mm
- product construction: as tested (see test report below 3.1)

6.) Restrictions:

6.1) Period of validity:

For Austria this classification report is **valid for four years until 08th August 2010** according to the Austrian Standard B 3800-2 . It is possible to extend the validity for further two years after sending a written application.

In case the holder of the classification report carries out improper technical changes and the measurements are higher or lower as mentioned in the classification report the validity ends before the mentioned period of validity, unless the deviations are in the range of tolerance (see test report).

7.) Warning:


This document is no type approval or product certification.

**IBS – INSTITUT FOR FIRE PROTECTION ENGINEERING
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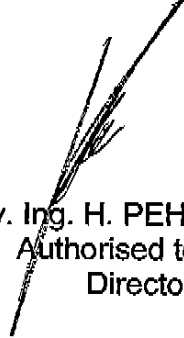

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