

# Classification Report Reaction to Fire of Construction Products

Nr. 12-001896-PR03  
(KB-K20-01-en-02)



Client  
aluplast GmbH  
Auf der Breit 2  
76227 Karlsruhe  
Germany

Basis  
DIN EN 13501-1:2010-01  
Fire classification of building  
products and building elements  
Part 1: Classification using data  
from reaction to fire tests

Notified Body  
ift Rosenheim GmbH  
Theodor-Gietl-Straße 7-9  
D-83026 Rosenheim

Notified Body No. 0757

Issue No. 2

Object PVC window profiles

Designation "IDEAL 4000"  
"IDEAL 2000"

## Notes of application

This classification report for  
reaction to fire defines the classi-  
fication assigned to the building  
material according to its product  
designation in conformity with  
the methods set out by EN  
13501-1.

This classification document  
does not represent type ap-  
proval or certification of the  
product.

## Validity

The data and results given re-  
late solely to the tested and de-  
scribed specimen.

## Notes of publication

The ift Guidance Sheet "Condi-  
tions and Guidance for the Use  
of ift Test Documents applies.

The cover sheet can be used  
as an abstract.



Classification of reaction to fire  
DIN EN 13501-1

## Class E

ift Rosenheim  
24.01.2013

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The report comprises a total of  
5 pages.

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- 2 Details of the classified con-  
struction product
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## 1 Introduction

This classification report defines the classification assigned to the products "IDEAL 4000" and "IDEAL 2000" in conformity with the procedures set out by DIN EN 13501-1.

This classification report is issue no. 2 and replaces previous issue 12-001896-PR03 (KB-K20-01-en-01) dated 17. December 2012.

## 2 Details of the classified product

### 2.1 General

The products "IDEAL 4000" and "IDEAL 2000" are covered by the product standard DIN EN 14351-1<sup>1</sup>.

### 2.2 Description

The products "IDEAL 4000" and "IDEAL 2000" are fully described in the test report, listed in 3.1, in support of this classification.

#### Product description:

- see the test report listed in 3.1.

## 3 Test reports, test results and evaluations in support of this classification

The following test reports, test results and evaluations have been provided in support of this classification.

### 3.1 Test reports

Details of the test reports are listed here.

**Table 1** Test reports

Name of laboratory	Client	No. of the test report	Test method
ift Rosenheim Notified Body No.: 0757	aluplast GmbH	12-001896_PR02 Date: 17. 12. 2012	DIN EN ISO 11925-2

<sup>1</sup> according to the client



### 3.2 Test reports

**Table 2** Test results

Test method	Parameter	No. of tests <sup>a</sup>	Results	
			continuous parameter - mean (m)	compliance parameter
DIN EN ISO 11925-2 15 s surface exposure <sup>*</sup>	$F_s \leq 150$ mm	12	( - )	yes
	Flaming droplets/ particles	12	( - )	no
Remarks: <sup>a</sup> ) not valid for extended field of application <sup>*</sup> ) as required to the end use application of the product ( - ) not applicable				

## 4 Classification and field of application

### 4.1 Basis of classification

This classification has been carried out in accordance with DIN EN 13501-1.

### 4.2 Classification

The building products "IDEAL 4000" and "IDEAL 2000" are classified in relation to their reaction to fire as follows:

E

The additional classification in relation to smoke production is:

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

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The format of the reaction to fire classification is:

**Table 3** Classification of reaction to fire according to DIN EN 13501-1

<i>Reaction to fire</i>		<i>Smoke production</i>			<i>Flaming droplets/particles</i>	
<b>E</b>	-	<b>s</b>	--	,	<b>d</b>	--
<b>Classification of the reaction to fire: E</b>						

### 4.3 Field of application

This classification is valid for the following product parameters:

- For window profiles with wall thickness of 0,8 mm - 2,7 mm
- For PVC-window profiles white and brown ("IDEAL 4000") and white ("IDEAL 2000").
- For PVC window profiles with a linear mass density of 1324 g/m for the building product "IDEAL 4000" and 1010 g/m for the building product "IDEAL 2000"
- The building product's geometry and dimensions have to comply the data given in the test report 12-001896-PR02 of **ift** Rosenheim.

This classification is valid for the following end use conditions:

- For PVC window profiles with designation "IDEAL 4000" and "IDEAL 2000" according to the details of 2.2. (see test report **ift** Rosenheim 12-001896-PR02).
- The surface of the building product must remain uncoated and may not be covered with any kind of additional coating products.

## 5 Limitations

### 5.1 General

The composition of the products must correspond to the data submitted to **ift** Rosenheim. Used in combination with other materials than those given under 4.3, other substrates/backings, air gaps/voids, types of joints or coatings, the reaction to fire might be negatively influenced, so that the classification given in paragraph 4.2. is no longer valid. The reaction to fire in combination with other parameters has to be verified separately.

The classification associated to these building products by the test report is suitable for a manufacturers attestation of conformity within the procedure of compliance system 3 along with technical specification (CE-labelling) as part of the construction production directive (CPD).



The manufacturer confirms, that the product does not comprise any specific processes, methods or procedures (e.g. no addition of flame-retardant substances, limitation of organic components or additional filler materials) which can enhance the performance of fire resistance to achieve the reached classification.

Consequently the manufacturer comes to the conclusion, the system 3 of the procedure of compliance is appropriate.

The notified body didn't play any role in the selection of the samples, although the notified body holds the necessary information (given by the manufacturer), which might be needed to track the tested samples.

## 5.2 Warning

This classification document does not represent type approval or certification of the product. It does not replace a possibly needed building certification/evidence of specified use according to national building codes.

ift Rosenheim  
24. Januar 2013