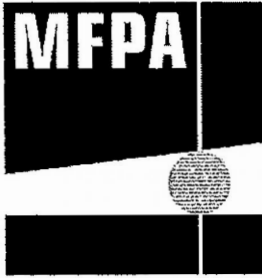


Certified translation from the German language



Mfpa Leipzig GmbH

Testing, inspection and certification body for
building materials, building products and building systems

Division III - Structural Fire Protection

Dipl.-Ing. Sebastian Hauswaldt

Team 3.1 - Fire Behaviour of Building Products

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Classification report no. KB 3.1/16-374-2

Reaction to fire classification report

from 18 November 2016

1st copy

Client:

Order: Reaction to fire classification according to DIN EN 13501-1:2010

Subject matter: Wall penetration seals "Pressio-Elements type IL 100 BC" and
"Pressio-Elements type IL 100 S 316"

Date of order: 21. October 2016

Person in charge: Mathias Claus

This document consists of 4 pages.

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Deutsche
Akkreditierungsstelle
D-PL-11021-01-00

Testing laboratory accredited by DAKKS GmbH in accordance
with DIN EN ISO/IEC 17025. The certificate can be viewed at
www.mfpa-leipzig.de.

Approved test centre according to the Landesbauordnung [state
building code] (SAC 02) and notified testing laboratory,
inspection body and certification body (PÜZ-Stelle) according to
the Construction Products Regulation (NB 0800).

Gesellschaft für Materialforschung und Prüfungsanstalt für das
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1 Details of classified product

1.1 General

The building products "Pressio-Elements type IL 100 BC" and "Pressio-Elements type IL 100 S 316" are gas- and watertight seals for the space between media pipe and casing or core hole which are intended for retrofitting.

According to the client, this building product is not subject to any harmonised European product standard.

1.2 Description

According to the client, the building products to be classified are wall penetration seals called "Pressio-Elements type IL 100 BC" and "Pressio-Elements type IL 100 S 316". The building products are used as gas- and watertight seals for the space between media pipe and casing or core hole and are intended for retrofitting. According to the client, the wall penetration seals consist of PA pressure plates designated as "PA-630" and articulated rubber elements which are connected by screws made of galvanised steel and stainless steel (V4A). According to the client, the rubber elements made of EPDM are used in practice in the colours blue (shore 40±5) and black (shore 50±5).

Table 1: Parameters according to the client's information

Type designation	Arch length [mm]	Width of the rubber part [mm]	Total width [mm]	Screw type	Screw head	Wrench size [mm]
Pressio-Elements type IL 100 BC	31.0	45 (EPDM blue)	60	M 4 x 60 (galvanised)	Hexagon socket	3
Pressio-Elements type IL 100 S 316	31.0	45 (EPDM black)	60	M 4 x 60 (Stainless steel V4A)	Hexagon socket	3

2 Test reports and test results in support of this classification

2.1 Reports

Name of laboratory	Client	Report no.	Test method
MFPA Leipzig GmbH		PB 3.1/16-374-1 from 17/11/2016	DIN EN ISO 11925-2 Building Rules List A Part 1, Edition 2015/2, enclosure 0.2.3

2.2 Results

Test method and test number	Parameters	Number of tests	Results	
			constant parameters, average value (m)	discrete parameters
DIN EN ISO 11925-2	$F_s \leq 150$ mm	32	(-)	compliant
	No flaming droplets/particles		(-)	compliant

(-) not applicable

3 Classification and field of application

3.1 Reference for classification

This classification was carried out in accordance with DIN EN 13501-1:2010.

3.2 Classification

The building products "Pressio-Elements type IL 100 BC" and "Pressio-Elements type IL 100 S 316" are classified as follows regarding their reaction to fire behaviour: E

The additional classification in relation to smoke production is: -

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

The format of the reaction to fire classification for building products excluding floorings and pipe thermal insulation products is:

Reaction to fire		Smoke production			Flaming droplets/particles	
E	-	s	-	,	d	-

i. e. E

Reaction to fire classification: E

3.3 Area of application

This classification is valid for the following product parameters:

- The composition of the product to be classified described in section 1.2 must be used according to these specifications. Further requirements under building law for the constructive design are to be considered.
- The building products "Pressio-Elements type IL 100 BC" and "Pressio-Elements type IL 100 S 316" must have a thickness of 60 mm.
- The building products "Pressio-Elements type IL 100 BC" and "Pressio-Elements type IL 100 S 316" must have a minimum thickness of 12 mm.
- The building products "Pressio-Elements type IL 100 BC" and "Pressio-Elements type IL 100 S 316" must have a length mass of 0.73 kg/m².

4 Limitations

- (1) A combination with other building products, especially insulating materials with other gross density ranges than specified in section 3.3, can have an adverse effect on the reaction to fire so that the classification in section 3.2 is no longer valid. The reaction to fire in combination with other building products or for other gross density ranges or thickness ranges must be tested separately.
- (2) The classification document is not a type approval or product certification and does not replace a verification according to German building law (*Landesbauordnung* [state building code]), which may be required.
- (3) This classification report is valid as long as the product composition or the product design, the raw materials or the production process and the construction regulations or the basis for the evaluation do not change.

The results of the tests refer exclusively to the test items described herein and not to other items of the same variety. This document does not replace any certificate of conformity or usability as defined by the building regulations (national/European).

Leipzig, 18 November 2016

Dipl.-Ing. S. Hauswaldt
Head of Division

N. Neumann, M.Sc.
Head of Laboratory

M. Claus
Person in charge

Authentication

I have examined the German original/photocopy/facsimile and this is a true translation of the same into English.

Barbara Wohanka, registered translator for the English language at the District Court of Landshut, Germany

Geisenhausen, December 14, 2016

