AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

INTERDENS ® - Certificate / Approval ETA-16/0811-en

澳迪斯防火科技（廊坊）有限公司

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原始技术内容及制造商、检测机构和证书签发信息见后续资料页。

Sales contact only; emergency contacts in safety data sheets remain applicable.
Original technical, manufacturer and certification details follow.

Deutsches Institut für Bautechnik

Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments

Member of EOTA
www.eota.eu

Designated according to Article 29 of Regulation (EU) No 305/2011 and member of EOTA (European Organisation for Technical Assessment)

European Technical Assessment ETA-16/0811 of 10 March 2021

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:	Deutsches Institut für Bautechnik
Trade name of the construction product	Interdens Type 5, Interdens Type 15, Interdens Type 36
Product family to which the construction product belongs	Intumescent products for fire sealing and fire stopping purposes
Manufacturer	Wolman Wood and Fire Protection GmbH Dr.-Wolmann-Straße 31-33 76547 Sinzheim DEUTSCHLAND
Manufacturing plant	DL41
This European Technical Assessment contains	6 pages including 1 annex which forms an integral part of this assessment
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of	EAD 350005-00-1104, Edition May 2015
This version replaces	ETA-16/0811 issued on 2 March 2017

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Specific Part

1 Technical description of the product

Object of this European Technical Assessment (ETA) are the intumescent construction products "Interdens Type 5", "Interdens Type 15" and "Interdens Type 36".

This ETA also applies to the products "Interdens Type 5", "Interdens Type 15" and "Interdens Type 36" in form of cuts (e.g. strips) and blanked pads as well as to the modification with self-adhesive tape (SK)[1] on one side.

In case of fire, exposed to high temperatures, the intumescent products expand and generate foam. This foam seals joints and gaps, closes voids and openings. Thus, the foam restricts the passage and the spread of heat, smoke, flames or any combination of these.

The technical characteristics relevant for fire sealing and fire stopping effects of the construction products "Interdens Type 5", "Interdens Type 15" and "Interdens Type 36" are given in Annex 1.

The construction products "Interdens Type 5", "Interdens Type 15" and "Interdens Type 36" are semi-rigid intumescent products of white, red, brown or black colour, produced in form of boards. The products consist essentially of intumescent substances, binder and a glass-fibre inlay.

The construction products "Interdens Type 5", "Interdens Type 15" and "Interdens Type 36" differ in thickness. They are produced in a factory of the standard thicknesses 0,6 mm, 1,0 mm and 2,0 mm (tolerance ± 0,2 mm for each), and preferably with a standard width of 1000 mm and a standard length of 2040 mm. Bigger thicknesses are possible by a factory-provided combination of the three products.

Other dimensions, cuts and pads are possible.

The construction products "Interdens Type 5", "Interdens Type 15" and "Interdens Type 36" may be equipped with a self-adhesive tape on one side for fixing the product on the substrate or can be fastened mechanically or by using a suitable adhesive, which is not part of this assessment.

The construction products "Interdens Type 5", "Interdens Type 15" and "Interdens Type 36" may be cut if necessary.

2 Specification of the intended use in accordance with the applicable European Assessment Document (EAD)

The construction products "Interdens Type 5", "Interdens Type 15" and "Interdens Type 36" are assessed on the basis of EAD 350005-00-1104[2] as intumescent products for fire sealing and fire stopping purposes without specifically defined final intended use (IU 1).

The construction products "Interdens Type 5", "Interdens Type 15", "Interdens Type 36" and their modifications with self-adhesive tape are intended to be used as an essential component in construction products, construction elements, kits, assemblies and special constructions which need to meet requirements concerning the safety in case of fire.

In case of fire, the products delay the heat transfer through fire resistant construction elements, and assemblies by expanding under the impact of high temperatures and thus restricting the spread of fire in fire resistant construction elements and assemblies.

The performance given in section 3 is only valid, if the construction products "Interdens Type 5", "Interdens Type 15" and "Interdens Type 36" in use consider the instructions and the conditions stated in section 3.3.

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1 Type, manufacturer and specific parameters deposited with DIBt
2 Official Journal of the EU N° C 378/02 of 13/11/2015

The test and assessment methods on which this ETA is based, lead to the assumption of working life of the intumescent construction products "Interdens Type 5", "Interdens Type 15" and "Interdens Type 36" of at least 10 years[3] in final use.

The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for this assessment

3.1 Safety in case of fire (BWR 2)

3.1.1 Reaction to fire

Essential characteristic	Performance
Reaction to fire	Class E in accordance with EN 13501-1

The intumescent construction products "Interdens Type 5", "Interdens Type 15" and "Interdens Type 36" with/without a self-adhesive tape meet the reaction to fire requirements of class E in accordance with EN 13501-1[4].

3.1.2 Resistance to fire

The performance "resistance to fire" shall be determined separately for every final use and shall be classified, if required.

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Content of dangerous substances	No dangerous substances[5]

The detailed chemical composition of the intumescent construction products "Interdens Type 5", "Interdens Type 15" and "Interdens Type 36" was assessed by DIBt and is deposited with DIBt.

3.3 General aspects

Durability testing shall be an integral part of assessing the basic works and performance requirements. The following specific provisions for use shall be complied with to ensure the durability of the performance.

The testing and the assessment of the product performance were carried out for environmental conditions of type Z_2 in accordance with EAD 350005-00-1104[2], clause 1.2.2.

Result:

The intumescent construction products "Interdens Type 5", "Interdens Type 15" and "Interdens Type 36" can be used under use conditions of type Z_2 - product intended for use at dry internal conditions without frost, relative humidity between 50 % RF and 85 % RF and temperatures between +5 °C ±5 °C and +35 °C ±5 °C - without having to fear essential changes in the relevant fire sealing and fire stopping properties and the resulting performance.

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[3] Results of long-term aging available (10 years defined exposure)

[4] EN 13501-1:2010-01 Fire classification of construction products and building elements; Part 1: Classification using test data from reaction to fire tests;

[5] In accordance with the Regulation (EC) No 1272/2008 of the European Parliament and the Council of 16 December 2008 (published in the OJ of the EU N° L353 of 31/12/2008)

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD No. 35 0005-00-1104² "Intumescent products for fire sealing and fire stopping purposes", the applicable European legal act is: EC Decision 1999/454/EC of 22 June 1999, amended by EC Decision 2001/596/EC of 8 January 2001

The system to be applied is: **system 1**

See Regulation (EU) N° 305/2011 Annex V in conjunction with Article 65 (2) and the following table:

Product	Intended use	Characteristic	System
"Interdens Type 5", "Interdens Type 15", "Interdens Type 36" each with/without SK	Components effective in view of safety in case of fire used in construction products, construction elements, kits and special assemblies	reaction to fire, properties relevant for the fire sealing and fire stopping effect	1

5 Technical details necessary for the implementation of the procedure for assessment and verification of constancy of performance (AVCP) system 1, as provided for in the applicable European Assessment Document

The technical details necessary for the implementation of the system for assessment and verification of constancy of performance are laid down in the control plan (confidential part of this ETA) deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 8 March 2021 by Deutsches Institut für Bautechnik

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Head of section

beglaubigt:
Dr.-Ing. Dierke

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ANNEX 1

CHARACTERISTICS RELEVANT FOR THE FIRE SEALING AND FIRE STOPPING EFFECTS OF THE CONSTRUCTION PRODUCTS

"Interdens Type 5",
"Interdens Type 15"
"Interdens Type 36"

Characteristic	Range of determined values and tolerances	Test method[1]
Thickness	0,6 mm to 2,0 mm (tolerance for each nominal thickness ± 0,2 mm)	see control plan
Expansion ratio	25,0 to 95,0	

The intumescent products "Interdens Type 5", "Interdens Type 15" and "Interdens Type 36" do not generate remarkable expansion pressure.

The intumescent products "Interdens Type 5", "Interdens Type 15" and "Interdens Type 36" react in two steps:

phase 1 starts at ca. 150 °C

phase 2 starts at ca. 300 °C.

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[1] Details of the test methods are deposited with DIBt.