



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-20/0044 of 20 July 2020

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:

Trade name of the construction product

Product family to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment contains

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of

Deutsches Institut für Bautechnik

Fire protective one-gang box "JVK 49" and Fire protective one-gang junction box "JVK 62"

Intumescent products for fire sealing and fire stopping purposes

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71

7 pages including 2 annexes which form an integral part of this assessment

EAD 350005-00-1104; Edition May 2015

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Specific Part

1 Technical description of the product

Object of this European Technical Assessment (ETA) are the intumescent construction products: Fire protective one-gang box "JVK 49" and Fire protective one-gang junction box "JVK 62".

In case of fire, exposed to high temperatures, the intumescent product expands and generates 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 intumescent construction products Fire protective one-gang box "JVK 49" and Fire protective one-gang junction box "JVK 62" are pre-formed spray cast elements consisting of an electrically isolating component made of grey pigmented Polypropylene (PP)² and an anthracite layer on the bottom of the preformed element made of an intumescent material, which essentially consists of intumescent substances and a binder.²

The technical characteristics relevant for fire sealing and fire stopping effects of the construction products Fire protective one-gang box "JVK 49" and Fire protective one-gang junction box "JVK 62" are summarized in Annex 1.

The described intumescent products are produced in standard shapes with standard dimensions as given in Annex 2.

2 Specification of the intended use in accordance with the applicable European Assessment Document EAD Nr. 350005-00-1104

The intumescent construction products Fire protective one-gang box "JVK 49" and Fire protective one-gang junction box "JVK 62" are assessed on the basis of EAD 350005-00-11043 as intumescent products for fire sealing and fire stopping purposes without defined final intended use (IU 1).

The construction products are intended to be used as an essential component for fire protection of walls, ceilings 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 constructions by expanding under the impact of high temperatures and thus restricting the spread of fire.

The performance given in section 3 is only valid, if the construction products Fire protective onegang box "JVK 49" and Fire protective one-gang junction box "JVK 62" consider in use the instructions and the conditions stated in section 3.3.

The verification and assessment methods on which this ETA is based, lead to the assumption of working life of the intumescent construction products Fire protective one-gang box "JVK 49" and Fire protective one-gang junction box "JVK 62" of at least 10 years 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.

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Electronic copy of the ETA by DIBt: ETA-20/0044

Chemical composition deposited with DIBt

³ Official Journal of the EU N° C 378/02 of 13/11/2015



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

3.1 Safety in case of fire (BWR 2)

3.1.1 Reaction to fire

Products	Performance
intumescent products:	class E in accordance with EN 13501-1⁴
Fire protective one-gang box "JVK 49" and	
Fire protective one-gang junction box "JVK 62"	

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 for the construction element concerned.

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Content of dangerous substances	No dangerous substances⁵

The detailed chemical composition of the intumescent construction products Fire protective one-gang box "JVK 49" and Fire protective one-gang junction box "JVK 62" 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 relevant product performance was carried out for environmental conditions of type Z_2 – product intended for use at dry internal conditions without frost (at relative humidity between 50 % and 85 % RF and temperatures between +5 °C (± 5 °C) and +35 °C (± 5 °C) - in accordance with EAD 350005-00-1104, clause 1.2.2.

Result:

The intumescent construction products Fire protective one-gang box "JVK 49" and Fire protective one-gang junction box "JVK 62" can be used permanently under use conditions of type Z_2 (dry internal use without frost) without having to fear essential changes in the relevant fire sealing and fire stopping properties and the resulting performance.

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

In accordance with the European Assessment Document EAD No 350005-00-1104 the Decision of the commission N° 1999/454/EC of 22 June 1999 (OJ of the EU L 178 of 14 July 1999, p 42), amended by EC Decision 2001/596/EC of 8 January 2001 (OJ of the EU L 209 of 2 August 2001, p 33) is the legal basis for the determination of the AVCP system.

4 EN 13501-1 Klassifizierung von Bauprodukten und Bauarten zu ihrem Brandverhalten; Teil 1 und A1:2009 Klassifizierung mit den Ergebnissen aus den Pr
üfungen zum Brandverhalten von Bauprodukten

⁵ In accordance with the Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 (published in the Official Journal of the EU N° L 353 of 31/12/2008, p 1)



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So system 1 applies for the assessment and verification of constancy of performance (AVCP). (See Annex V in conjunction with Article 65 (2) of the Regulation (EU) N° 305/2011) and the following table:

Product	Intended use	characteristic	System
Fire protective one-gang box "JVK 49"; Fire protective one-gang junction box "JVK 62"	Components effective in view of safety in case of fire used in walls, floors 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 20 July 2020 by Deutsches Institut für Bautechnik

Maja Tiemann Head of Department *beglaubigt* Dr.-Ing. Dierke English translation prepared by DIBt



ANNEX 1

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

Fire protective one-gang box JVK 49" and Fire protective one-gang junction box "JVK 62"

Characteristic	Range of determined values and tolerances	Test method
thickness of the box' bottom (2-layers)	6,4 mm ± 0,2 mm	
Expansion ratio	6,0 bis 8,0 (30 min at 550°C with a top load)	See control plan
Loss of mass at a certain temperature	63,5 %± 5 % (at 550°C)	

The products do not develop any remarkable expansion pressure during reaction.

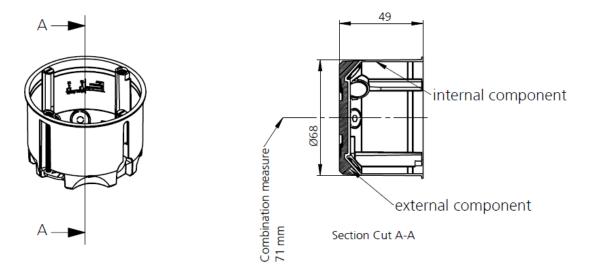
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ANNEX 2

Standard shape and dimensions (measures in mm)

Fire protective one-gang box "JVK 49"



Fire protective one-gang junction box "JVK 62"

