



INSTYTUT TECHNIKI BUDOWLANEJ

Member of



www.eota.eu

European Technical Assessment

ETA-24/0017
of 18/01/2024



General Part

Technical Assessment Body issuing the European Technical Assessment

Instytut Techniki Budowlanej

Trade name of the construction product

RAWLPLUG B1 Fire Resistant PU Foam

Product family to which the construction product belongs

Fire Stopping and Fire Sealing Products. Linear Joint and Gap Seals

Manufacturer

RAWLPLUG SA
ul. Kwidzyńska 6
51-316 Wrocław, Poland

Manufacturing plant

Manufacturing plant in Poland

This European Technical Assessment contains

7 pages including 1 Annex which form an integral part of this Assessment

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

European Assessment Document (EAD) 350141-00-1106 "Fire Stopping and Fire Sealing Products. Linear Joint and Gap Seals"



This European Technical Assessment is issued by the Technical Assessment Body in its official language. Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and shall be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full. However, partial reproduction may only be made with the written consent of the issuing Technical Assessment Body. Any partial reproduction has to be identified as such.

Specific Part

1 Technical description of the product

RAWLPLUG B1 Fire Resistant PU Foam is a polyurethane foam, used as a foamed in-situ material (type of fixing: SA). This foam is applied by gun directly into the linear joint or gap seals in walls and floors.

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

The intended use of RAWLPLUG B1 Fire Resistant PU Foam is to reinstate the fire resistance performance of rigid wall constructions where there are linear joints or gaps.

The specific elements of construction, that the RAWLPLUG B1 Fire Resistant PU Foam polyurethane foam may be used to provide a linear joint or gap seal in, are:

- rigid walls,
- rigid walls abutting rigid floors,
- rigid floors,

made of concrete, reinforced concrete or masonry made of autoclaved aerated concrete blocks, solid bricks, mesh bricks, checker bricks and hollow bricks, with a minimum density of 600 kg/m³.

For detail specifications of construction elements see Annex A.

Additional provisions are given in Annex A.

The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period (equal or greater than specified in Annex A).

The permitted joint / gap width for the RAWLPLUG B1 Fire Resistant PU Foam polyurethane foam is specified in Annex A.

The RAWLPLUG B1 Fire Resistant PU Foam polyurethane foam shall be used to form linear joint or gap seals with movement capability lower than 7.5% (non-movement joints).

The provisions given in this European Technical Assessment are based on an assumed working life of the products of 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer or the Technical Assessment Body, 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 its assessment

3.1 Performance of the product

Basic requirement	Essential characteristic	Performance
BWR 2: Safety in case of fire	Reaction to fire	No performance assessed
	Resistance to fire	see Annex A
BWR 3: Hygiene, health and the environment	Content, emission and/or release of dangerous substances	No performance assessed
	Air permeability (material property)	No performance assessed
	Water permeability (material property)	No performance assessed

Basic requirement	Essential characteristic	Performance
BWR 4: Safety and accessibility in use	Mechanical resistance and stability	No performance assessed
	Resistance to impact /movement	No performance assessed
	Adhesion	No performance assessed
	Durability	Use category: Z ₂
	Movement capability	No performance assessed (non-movement joints)
BWR 5: Protection against noise	Airborne sound insulation	No performance assessed
BWR 6: Energy economy and heat retention	Thermal properties	No performance assessed
	Water vapour permeability	No performance assessed

3.2 Methods used for the assessment

The assessment has been made in accordance with EAD 350141-00-1106.

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

According to Decision 99/454/EC of the European Commission, as amended by Decision 2001/596/EC of the European Commission the system 1 of assessment and verification of constancy of performance applies (see Annex V to regulation (EU) No 305/2011).

5 Technical details necessary for the implementation of the AVCP system, as provided in the applicable European Assessment Document (EAD)

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited in Instytut Techniki Budowlanej.

For type testing the results of the tests performed as part of the assessment for the European Technical Assessment shall be used unless there are changes in the production line or plant. In such cases the necessary type testing has to be agreed between Instytut Techniki Budowlanej and the notified body.

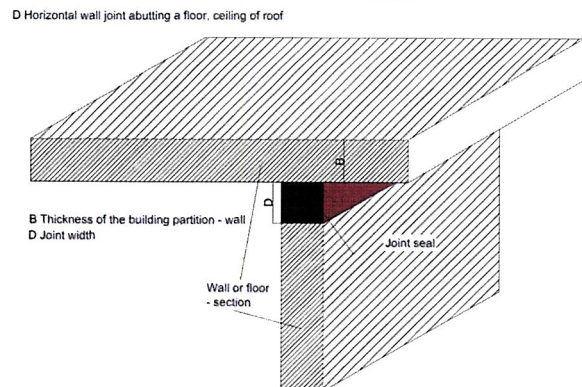
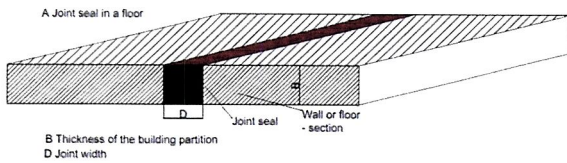
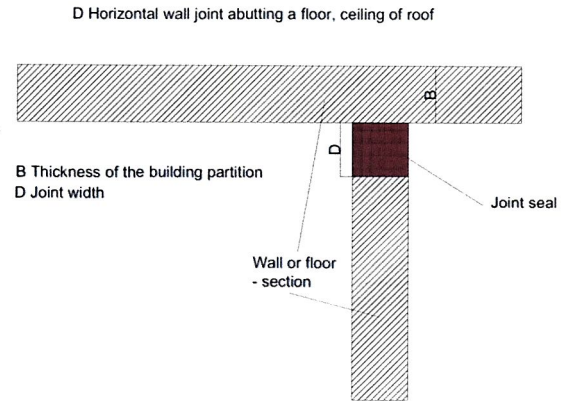
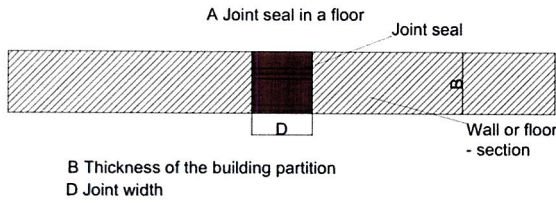
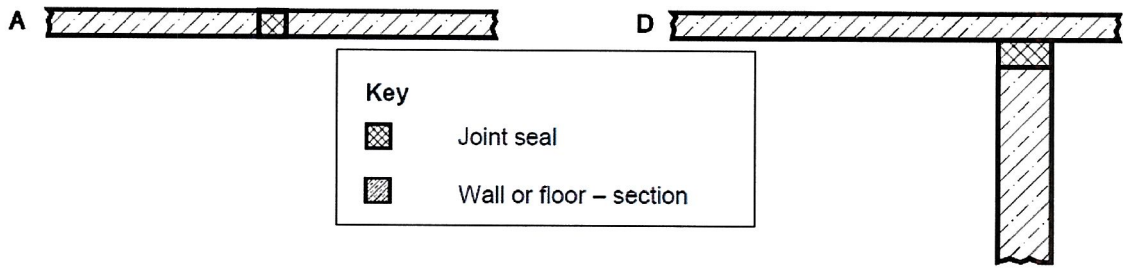
Issued in Warsaw on 18/01/2024 by Instytut Techniki Budowlanej



Anna Panek, MSc
Deputy Director of ITB

A Joint seal in a floor

D Horizontal wall joint abutting a floor, ceiling or roof



The minimum density of rigid wall / floor is 600 kg/m³.

Resistance to fire classification of linear joint seal in rigid floor or rigid wall abutting a rigid floor

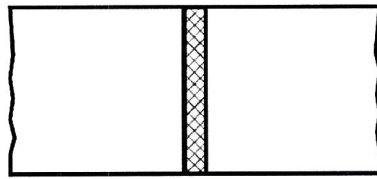
Joint width D, mm	The minimum thickness of the element B, mm	Fire resistance class
5 – 40	240	EI 120 – H – X – B – W 5 to W 40
36 – 40		EI 120 – H – X – B – W 36 to W 40
35		EI 180 – H – X – B – W 35
5 – 35		EI 180 – H – X – B – W 5 to W 35

RAWLPLUG B1 Fire Resistant PU Foam

Resistance to fire classification of linear joint seals, installation details and specification of the construction elements

Annex A1
of European Technical Assessment
ETA-24/0017

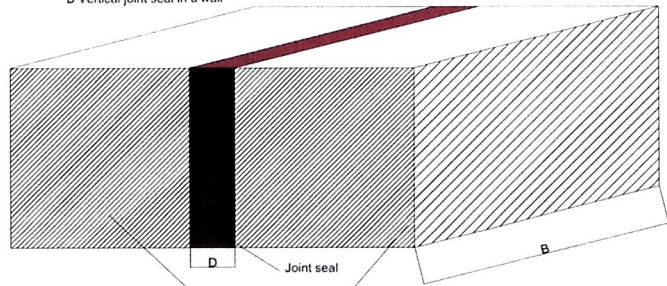
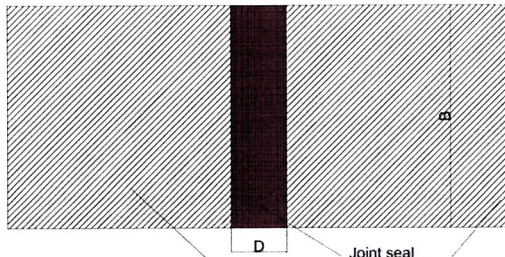
B Vertical joint seal in a wall



Key
 Joint seal
 Wall - front view

B Vertical joint seal in a wall

B Vertical joint seal in a wall



B Thickness of the building partition - wall
 D Joint width

B Thickness of the building partition - wall
 D Joint width

Wall - front view

Wall - front view

The minimum density of rigid wall is 600 kg/m³.

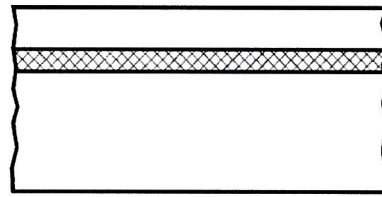
Resistance to fire classification of linear joint seal in rigid wall

Joint width D, mm	The minimum thickness of the element B, mm	Fire resistance class
5	100 ≤ B < 150	EI 120 - V - X - B - W 5
6 - 10		EI 45 - V - X - B - W 6 to W 10
11 - 20		EI 20 - V - X - B - W 11 to W 20
21 - 30		EI 15 - V - X - B - W 21 to W 30
5 - 10	150 ≤ B < 200	EI 120 - V - X - B - W 5 to W 10
11 - 40		EI 30 - V - X - B - W 11 to W 40
5 - 20		EI 120 - V - X - B - W 5 to W 20
21 - 30	200 ≤ B < 240	EI 90 - V - X - B - W 21 to W 30
31 - 40		EI 30 - V - X - B - W 31 to W 40
5 - 20		EI 120 - V - X - B - W 5 to W 20
21 - 30	≥ 240	EI 90 - V - X - B - W 21 to W 30
31 - 40		EI 45 - V - X - B - W 31 to W 40

RAWLPLUG B1 Fire Resistant PU Foam

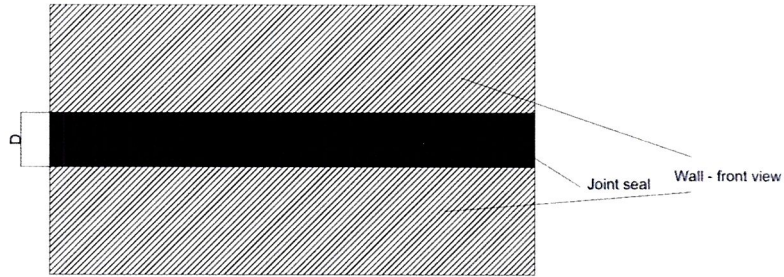
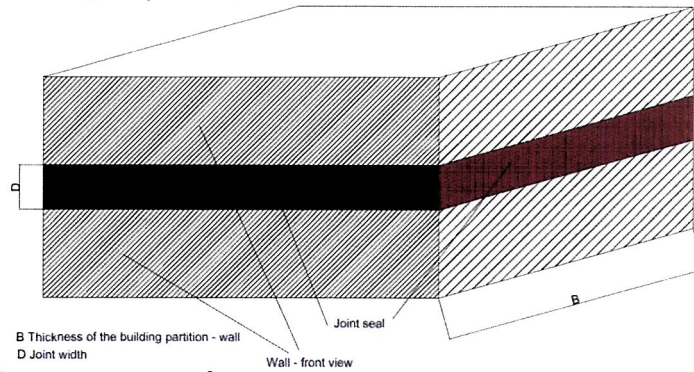
Resistance to fire classification of linear joint seals, installation details and specification of the construction elements

Annex A2
 of European Technical Assessment
 ETA-24/0017

C Horizontal joint seal in a wall


Key
 Joint seal
 Wall - front view

C Horizontal joint seal in a wall


D Joint width
 C Horizontal joint seal in a wall

B Thickness of the building partition - wall
D Joint width
 Wall - front view

The minimum density of rigid wall is 600 kg/m³.

Resistance to fire classification of linear joint seal in rigid wall

Joint width D, mm	The minimum thickness of the element B, mm	Fire resistance class
5	150 ≤ B < 200	EI 240 - T - X - B - W 5
6 - 10		EI 180 - T - X - B - W 6 to W 10
11 - 20		EI 60 - T - X - B - W 11 to W 20
21 - 30		EI 30 - T - X - B - W 21 to W 30
5	200 ≤ B < 240	EI 240 - T - X - B - W 5
6 - 10		EI 180 - T - X - B - W 6 to W 10
11 - 20		EI 60 - T - X - B - W 11 to W 20
21 - 30		EI 30 - T - X - B - W 21 to W 30
5	≥ 240	EI 240 - T - X - B - W 5
6 - 10		EI 180 - T - X - B - W 6 to W 10
11 - 20		EI 120 - T - X - B - W 11 to W 20
21 - 30		EI 90 - T - X - B - W 21 to W 30

RAWLPLUG B1 Fire Resistant PU Foam

Resistance to fire classification of linear joint seals, installation details and specification of the construction elements

Annex A3
 of European Technical
 Assessment
 ETA-24/0017