

Technical data sheet

Fire Protection Plug ZZ 130 Trade name:

ZZ-Fire protection plug NE

Description: Plug-shaped elastic moulded part consisting of intumescent poly-

urethane foam with halogen-free fire retardants.

Implementation areas: Cable penetration seal EI30/EI60/EI90/EI120 for rigid walls, rigid

floors and flexible walls. Through penetration firestop system for electrical cables, telecommunication cables, optical fibre cables

and electrical installation conduits.

Approvals / certificates: European Technical Approval ETA-12/0088, OIB

• EC Certificate of Conformity 0761-CPD-0266

Colour: Red-brown

Content / nominal size Ø:

ZZ 130 Type	max. opening size [mm]			
65	65			
78	78			
107	104			
122	118			
134	128			
165	160			
200	194			
250	240			

Transport / storage: Dry, protected from dust and only in the original packaging

Bulk density: $\rho = 240 \text{ kg/m}^3 \text{ up to } 300 \text{ kg/m}^3$

Please observe the safety data sheet. Safety notices:

Behaviour in the event of fire

Reaction to fire: DIN 4102-B2

Classification of the fire Class E protection behaviour in accordance with DIN EN 13501-1:

Expansion pressure: No expansion pressure measurable

Foaming factor: 1.6x to 4.5x

> Tested on samples at 450°C for more than 25 minutes with superimposed load. The foaming factor is a laboratory characteristic value. The foaming behaviour in installed status depends on the exist-

ing boundary conditions.



Physical construction material / product characteristics

The following specifications do not represent guaranteed product characteristics. They must, therefore, be regarded exclusively as information intended to serve as guideline values.

Air permeability: $Q_{600} < 0.2 \text{ m}^3/(\text{h}^*\text{m}^2)$

(no air permeability was measurable at a differential pressure of

600 Pa and a measurement accuracy of 0.01 m³/h)

Test standard: EN 1026

(test specimen dimensions Ø 240 mm, seal thickness 150 mm,

tested without penetrating elements)

Resistance to static differ-

ential pressure:

 $P_{max} = 6500 Pa$

Test standard: In accordance with EN 12211

(test specimen dimensions Ø 240 mm, seal thickness 150 mm,

tested without penetrating elements)

Thermal conductivity: $\lambda = 0.103 \text{ W/(m*K)}$

Test standard: DIN EN 12667

Airborne sound insulation: $D_{n,e,w}(C;C_{tr}) = 68 (-2; -7) dB$

 $R_w(C;C_{tr}) = 47 (-2; -7) dB$

Test standard: EN ISO 717-1 (test specimen dimensions Ø 240 mm, seal thickness 150 mm, tested without penetrating ele-

ments)

Compression load deflec-

Cv (40%) = 18 kPa

tion:

Test standard: DIN EN ISO 3386-1

Surface resistance: $R_0 = 2.39 \times 10^9 \Omega$

Test standards: DIN EN 60079-0 (VDE 0170-1):2013-04 Section 7.4 including application of note 2 of Section 7.4.2, IEC 60079-0:2011 and modified + Cor.:2012, EN 60079-0:2012,

EN 80079-36 and TRGS 727:2016-07-29

Approved in potentially explosive zones:

	0	1	2	20	21	22
earthed	✓	✓	✓	✓	✓	✓
unearthed	×	×	×	×	×	×



Hygiene, health and environmental protection

Indoor air hygiene Requirements of AgBB Scheme 2015 are <u>fulfilled</u>

Test standards: prEN 16516, ISO 16000-3, ISO 16000-6,

ISO 16000-9

Test lab: eco-INSTITUT Germany GmbH, Cologne

Date: 25/08/2017

	Result	Requirement	Requirements fulfilled			
Emission rating						
Measurement after 3 days						
TVOC (C6 – C16)	0.008 mg/m ³	≤ 10 mg/m³	✓			
Carcinogens (EU Cat. 1A and 1B)	< 0.001 mg/m ³	≤ 0.01 mg/m³	✓			
Measurement after 28 days						
TVOC (C6 – C16)	0.014 mg/m ³	≤ 1 mg/m³	✓			
Σ SVOC (C16-C22)	< 0.005 mg/m ³	≤ 0.1 mg/m³	✓			
R (dimensionless)	0.02	≤ 1	✓			
VOC without NIK	< 0.005 mg/m ³	≤ 0.1 mg/m³	✓			
Carcinogens	< 0.001 mg/m³	≤ 0.001 mg/m³	√			

VOC emission class A+ in accordance with French decree no. 2011-321

Test standards: ISO 16000-3, ISO 16000-6, ISO 16000-

9, ISO 16000-11, ISO 16017-1

Microbial metabolic potential: Inert / fungistatic / bacteriostatic

Test standard: DIN EN ISO 846

Testing the fire protection properties under environmental influences

Tests were performed in accordance with the approval principles for materials that form an insulating layer, dated 11/24/2006 of the DIBt, and EOTA Guideline for European Technical Approval, ETAG no. 026-2, dated 01/01/2008.



Thermal stress:

Continuous contact or ambient temperature: ≤ 80 °C

Permissible ambient conditions:

In accordance with Use category Z₁

ETAG 026-2: Fire-retardant sealing products for use in indoor areas with all

moisture levels at temperatures $\geq 0^{\circ}$ C.

Occasional, brief spray water stress does not pose a problem. Overall, continuous wet conditions as well as standing water and pressing water must be avoided.

Influence of coating materials and chemicals:

The following paints and occasional, brief influence of chemicals do not cause any change in the technical fire protection properties:

Coating materials: Dispersion paint, alkyd resin paint, polyurethane acrylic lacquer,

epoxy resin lacquer

Solvent/oil: Trichloroethylene, xylene, acetone, white spirit, butyl acetate, buta-

nol, domestic fuel oil

Gaseous chemicals: Brief storage over concentrated ammonia solution

Comment: Environmental conditions with high humidity levels and/or some coating materials

and chemicals can cause minor lightening of the colour.

Contact with metals and plastics:

The surface consistency of aluminium, stainless steel, galvanised steel and plastics made of polyethylene and polyvinyl chloride is not affected in a negative way upon contact with Fire Protection Plug ZZ 130.

All the information in this leaflet is based on current technical knowledge and experience. Details on processing and application must be checked on a project-by-project basis due to the variety of possible influences. If the application for which our products are used is subject to a government agency approval obligation, then the user is responsible for obtaining this approval. We would be pleased to respond to any enquires you might have. The information in this document and declarations of ZAPP-ZIMMERMANN GmbH in conjunction with this document do not constitute any assumption of a guarantee. Guarantee declarations require the separate, express written declaration of ZAPP-ZIMMERMANN GmbH. The conditions specified in this data sheet represent the characteristics of the delivery object, they do not represent any specific values. Specific values must be separately determined on a case-by-case basis. We reserve the right to adapt the product to technical progress and to new developments. In all other aspects we refer to our general terms and conditions.