



Cable entry systems with IFPS
fire penetration seals acc. to EN 45545-3

FOR RAILWAY INDUSTRY

Fire penetration seals are available
in different cut-outs and fit on many
icotek cable entry components.

**E45
EI30**
(both certified!)

Fire resistance of fire barriers acc. to EN 45545-3

The European railway standard for fire safety EN 45545-3 regulates the fire resistance of fire barriers. The requirements and measures defined in this part of the standard aim to protect passengers and staff in railway vehicles against onboard fire incidents.

Based on the standards EN 45545-3 and EN 1363-1 icotek cable entry systems have been tested on „E“ and „EI“ in vertical alignment using mounted IFPS fire penetration seals. All tested products have been successfully certified using only one layer of fire penetration seals.

The lowest standard „E“

Barrier against flames, preventing fissure formation. „E45“, for example, means that the specimen can withstand the test for 45 minutes.

The highest standard „EI“

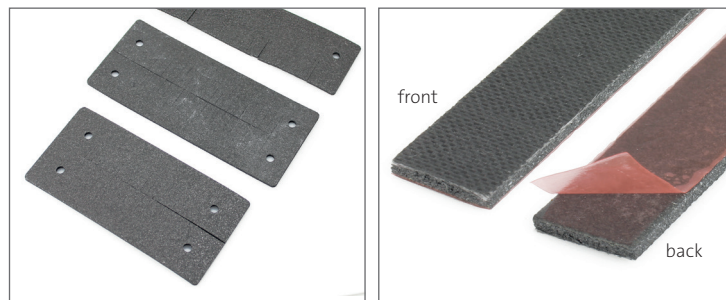
Barrier against flames, preventing fissure formation and thermal insulation, which means that the temperature on the side facing away from the fire must not exceed 200° C (180° K above room temperature). „EI30“, for example, means that the specimen can withstand the test for 30 minutes.

icotek cable entry systems meet the classifications E45 and EI30 (both certified)

Fire penetration seals facing the fire side:



Cable entry systems with IFPS fire penetration seals acc. to EN 45545-3



Also available: IFPS fire penetration seal stripe, 900 x 17 x 2.7 mm, self-adhesive
Order No. 99303

Product description

icotek cable entry frames and plates with fire penetration seals, approved for use in railway technology (meeting the standards EN 45545-2, EN 45545-3 and EN 1363-1).

The intumescent (foaming) IFPS fire penetration seals which are mounted at the backside of the cable entry components consist of expandable graphite and increase their volume by a multiple in case of a fire. This creates a barrier which prevents a penetration of flames and high heat from one room into another for the longest possible period.

Scope of delivery

Each 1 cable entry frame / plate + suitable fire penetration seal.

Suitable grommets are not included in the shipment and have to be ordered separately.

Advantages & benefits

- Approved for use in railway technology (EN 45545-2, EN 45545-3 and EN 1363-1)
- Easy assembly
- High cable density
- Only one fire penetration seal per cable entry component required
- Large product variety
- Ingress protection up to IP66 / NEMA 4X
- High classifications E45 / EI30

Specifications

Fire penetration seal
Material

**Intumescent (foaming)
Graphite (C)**

Type	Order No.	Cut-out	Grommets KT small large	IP Ingress protection	PU
KEL-U 24 4-BS	99300.001	36 × 112 mm	2 2	IP54	5
KEL-U 24 7-BS	99300.002	36 × 112 mm	6 1	IP54	5
KEL-U 24 10-BS	99300.003	36 × 112 mm	10 -	IP54	5
KEL-ER 24 4-BS	99300.004	36 × 112 mm	2 2	IP65	5
KEL-ER 24 7-BS	99300.005	36 × 112 mm	6 1	IP65	5
KEL-ER 24 10-BS	99300.006	36 × 112 mm	10 -	IP65	5
KEL-U 16 2-BS	99301.001	36 × 86 mm	- 2	IP54	5
KEL-U 16 5-BS	99301.002	36 × 86 mm	4 1	IP54	5
KEL-U 16 8-BS	99301.003	36 × 86 mm	8 -	IP54	5
KEL-ER 16 2-BS	99301.004	36 × 86 mm	- 2	IP65	5
KEL-ER 16 5-BS	99301.005	36 × 86 mm	4 1	IP65	5
KEL-ER 16 8-BS	99301.006	36 × 86 mm	8 -	IP65	5
KEL-E5-BS	99302.001	24 × 112 mm	5 -	IP54	5
KEL-ER-E5-BS	99302.002	24 × 112 mm	5 -	IP65	5

Type	Order No.	Cut-out	IP Ingress protection	PU
KEL-DPU 24 13-BS gy	99300.010	36 × 112 mm	IP65 / IP66	5
KEL-DPU 24 14-BS gy	99300.011	36 × 112 mm	IP65 / IP66	5
KEL-DPU 24 16-BS gy	99300.012	36 × 112 mm	IP65 / IP66	5
KEL-DPU 24 16-1-BS gy	99300.013	36 × 112 mm	IP65 / IP66	5
KEL-DPU 24 17-BS gy	99300.014	36 × 112 mm	IP65 / IP66	5
KEL-DPU 24 20-BS gy	99300.015	36 × 112 mm	IP65 / IP66	5
KEL-DPU 24 21-BS gy	99300.016	36 × 112 mm	IP65 / IP66	5
KEL-DPU 24 32-BS gy	99300.017	36 × 112 mm	IP65 / IP66	5
KEL-DPZ 24 14-BS gy	99300.018	36 × 112 mm	IP65 / IP66	5
KEL-DPZ 24 15-BS gy	99300.019	36 × 112 mm	IP65 / IP66	5
KEL-DPZ 24 16-BS gy	99300.020	36 × 112 mm	IP65 / IP66	5
KEL-DPZ 24 17-BS gy	99300.021	36 × 112 mm	IP65 / IP66	5
KEL-DPZ 24 25-BS gy	99300.022	36 × 112 mm	IP65 / IP66	5
KEL-DPZ 24 32-BS gy	99300.023	36 × 112 mm	IP65 / IP66	5
KEL-DPZ 24 42-BS gy	99300.024	36 × 112 mm	IP65 / IP66	5