

DEK

Pressure relief flap



The DEK is a self-activating pressure relief mechanism for areas at risk of explosion or overpressure. During normal operation, a robust locking system—consisting of two spring pins and stainless steel bolts—keeps the cover securely closed. In the event of an incident (e.g. explosion or sudden overpressure), the mechanism automatically releases at a static response pressure of approximately 16 mbar. The flap opens abruptly and safely vents the excess pressure to the outside. After activation, the system is ready for immediate reuse following a visual inspection and reclosure. The product is available in single or double flap versions.

Typical Applications

EK systems can be flexibly mounted on flat roofs, walls, or inclined surfaces ranging from 0° to 90°. When installed on a curb or steel frame, the flange is custom-fabricated for the project. In all cases, simple and smooth installation is ensured.

Opening Sizes

From 500 x 500 mm to 2500 x 3500 mm.

Opening Angle

Opening angle 90°

Locking Mechanism

Mechanical ball catch lock

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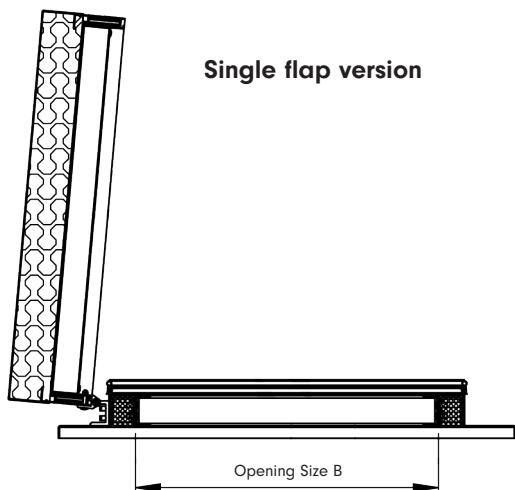
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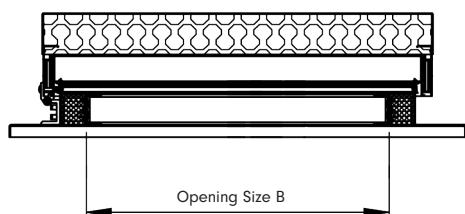
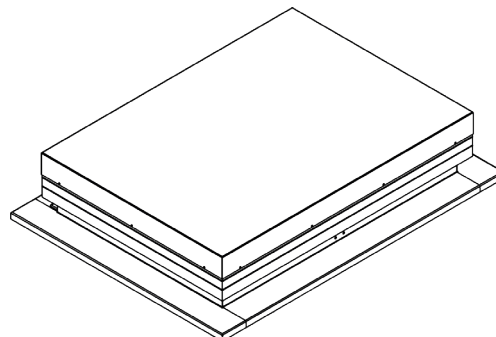
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	Opening Size B x L	Roof Pitch
min.	500 x 500 mm	closed: 0 - 6°
max.	1.250 x 3.500 mm	open 90°



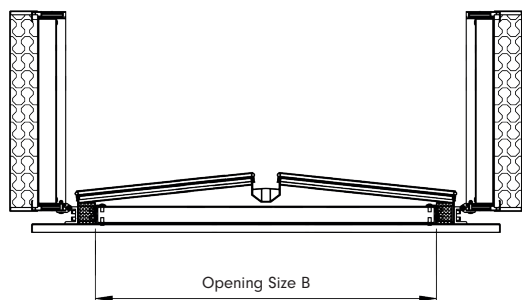
Locking Mechanism

Mechanical ball catch lock

Flap Types

- AL** - Simple aluminum
- AL ISO** - Double insulated aluminum
(ISO thickness 20 and 100 mm)
- PC16** - Polycarbonate 16 mm, clear or opal
- PC25** - Polycarbonate 25 mm, clear or opal
- PC32** - Polycarbonate 32 mm, clear or opal
- TB** - Thermal break in the aluminum profiles
(available for AL ISO, PC25 mm, PC32 mm)

Double flap version



	Opening Size B x L	Roof Pitch
min.	1.000 x 1.000 mm	closed: 6°
max.	2.500 x 3.500 mm	open: 90°

