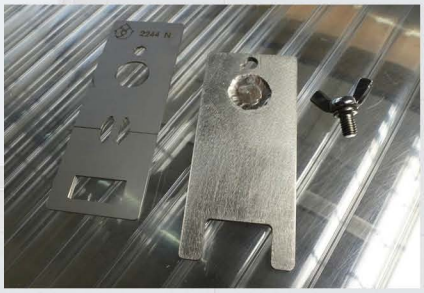
Device Information On SafetyHatch

Big picture: SafetyHatch pressure relief flaps with aluminium opening panels

Mounting points of the locking plate...

... which triggers at a certain pressure



Locking plate with engraved parameter

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The SafetyHatch is an excess pressure flap that compensates overpressure, which for example is caused by deflagration. The trigger mechanism is effected by a locking plate, whose predetermined breaking point cracks at a specific static pressure and thus opens the flaps. A laterally mounted spring with a steel robe prevents the opening panels from hitting the roof uncontrollably in case a pressure wave has triggered the mechanism. The PHOENIX natural smoke and heat device builds the base for the SafetyHatch and was modified accordingly for this special purpose.

Benefits:

- The use of locking plates as a trigger mechanism allows a cost-effective re-use of the systems after a triggering had taken place.
- The system can be custom-made. Locking plates are manufactured according to size and specified value of the trigger moment.
- A retention mechanism prevents damages of the roof and opening panels in case of triggering.
- Good insulation values due to a 20 mm glass wool insulation of the opening panels (thicker insulations are available on request) and a 30 mm insulation of base and gutter.
- Sound reduction index up to 28 dB in closed state (subject to system size)
- Available as double or single flap system
- As the SafetyHatch is optically very similar to the PHOENIX smoke and heat extractor, both systems can be installed side by side, without one noticing the mix of different systems.
- Low-maintenance construction

The systems comply with the requirements in accordance to machinery directive 2006/42/EG.

CE auf Grundlage der EG-Konformitätserklärung nach Maschinenrichtlinie 2006/42/EG

Range of application:

- flat roof
- facades

Sizes:

Single flap: 500 x 500 mm up to 1050 x 2500 mm
Double flap: 1000 x 1000 mm up to 2100 x 2500 mm