For high safety and indoor air quality

**GRILLODUR®-continuous rooflight flaps overview**

- SHEV resp. ventilation flaps as arched or flat version
- Single or double flap
- Easy to install and maintain
- Flaps for rooflight widths up to 7.0 m
- Pneumatic or electrical operation (230 V or 24 V)
- Approved according to DIN EN 12101-2 with CE symbol
- Lightweight aluminium construction with circumferential thermal separation
- U-value glazing up to 0.8 W/m²K
- Temperature class according to DIN EN 12101-2:
  - (T-15) for pneumatic SHEV systems
  - (T-25) for electrical SHEV systems

**Example of the significance of a SHEV system in the event of fire in a building**

Without fire ventilation

With fire ventilation

The SHEV flaps for the arched daylight systems have been developed for combination with other control elements to ensure an automatic smoke and heat exhaust system for the preventive fire protection. They should be positioned at the highest point of a daylight system in order to fulfill the function of preventive fire protection in an optimal way.

According to the latest findings, the smoke that immediately develops in case of fire is responsible for the threat to human life and health.

More than 80% of all fire victims die due to smoke poisoning. Moreover, a high percentage of material damage is caused by smoke.
**What is fire prevention about?**

By the use of smoke and heat exhaust systems it is possible to extract the life-threatening smoke, resp. to reduce its concentration due to dilution. This reduces the risk that the smoke spreads in the building so that emergency exits like e.g. corridors or staircases become impassable.

The protective aims are:

- Personal protection
- Environment protection
- Property value protection

---

**Prevention of smoke spread with SHEV systems**

In case of fire, the SHEV flaps with help of their pneumatic or electrical drives in the upper part of the building and resp. also the air intake openings, can be opened automatically within a very short time.

Due to these openings rising smoke, heat and fumes can escape to the outside already in the early stage of fire. The air intake openings in the lower area ensure the necessary balance of air flow and strengthen the effect of thermal lift.

The wind deflectors required for the aerodynamics of the SHEV flap are an integral part of the flap system.

All our devices have been tested as SHEV systems according to DIN EN 12101-2 and therefore guarantee the best possible fire protection for your project!

---

**GRILLODUR® SHEV flaps**

The high-quality series product in terms of building physics from the JET Group

Product advantages:

- High-quality appearance
- U-value glazing up to 0.8 W/m²K
- Fittings freely selectable
- Self-supporting construction
- Superior safety
- Easy to maintain
### OPENING DEVICES

<table>
<thead>
<tr>
<th>Flap type</th>
<th>System G9</th>
<th>System G19</th>
<th>System G29</th>
<th>System G24V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single and double flap</td>
<td>Double stroke cylinder Ø 32 mm</td>
<td>Zylinder Ø 32 mm</td>
<td>Spindle drive</td>
<td></td>
</tr>
<tr>
<td></td>
<td>850/200 mm lifting height double pipe</td>
<td>850 mm Hub</td>
<td>with 850 mm stroke</td>
<td></td>
</tr>
<tr>
<td></td>
<td>single pipe</td>
<td>E-Motor 230 V - 50HZ</td>
<td>electrical motor</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Einfachrohrleitung</td>
<td>24 V - 4A</td>
<td></td>
</tr>
<tr>
<td>Function</td>
<td>SHEV</td>
<td>SHEV and ventilation</td>
<td>SHEV and ventilation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SHEV and ventilation</td>
<td>SHEV and ventilation</td>
<td>SHEV and ventilation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Clear opening: from 1300 mm</td>
<td>Clear opening: from 1300 mm</td>
<td>Clear opening: from 1300 mm</td>
<td></td>
</tr>
</tbody>
</table>

### ARCHED SINGLE FLAP

<table>
<thead>
<tr>
<th>Width B (mm)</th>
<th>Length A (mm)</th>
<th>Smoke exhaust surface Ageo (m²)</th>
<th>Effective smoke exhaust surface Aa (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1100</td>
<td>1880</td>
<td>2.068</td>
<td>bis 1.551</td>
</tr>
<tr>
<td>Clear opening: from 1300 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### ARCHED DOUBLE FLAP

<table>
<thead>
<tr>
<th>Width B (mm)</th>
<th>Length A (mm)</th>
<th>Smoke exhaust surface Ageo (m²)</th>
<th>Effective smoke exhaust surface Aa (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2300</td>
<td>1880</td>
<td>4.324</td>
<td>3.243</td>
</tr>
<tr>
<td>Clear opening: from 2500 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SINGLE FLAP RIDGE TURRET 30°/45°

<table>
<thead>
<tr>
<th>Width B (mm)</th>
<th>Length A (mm)</th>
<th>Smoke exhaust surface Ageo (m²)</th>
<th>Effective smoke exhaust surface Aa (m²)</th>
<th>Clear opening from (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>980</td>
<td>1880</td>
<td>1.84</td>
<td>1.20</td>
<td>1700</td>
</tr>
<tr>
<td>1100</td>
<td>1880</td>
<td>2.07</td>
<td>1.34</td>
<td>1800</td>
</tr>
<tr>
<td>1350</td>
<td>1880</td>
<td>2.54</td>
<td>1.65</td>
<td>2200</td>
</tr>
</tbody>
</table>

### DOUBLE FLAP RIDGE TURRET 30°/45°

<table>
<thead>
<tr>
<th>Width B (mm)</th>
<th>Length A (mm)</th>
<th>Smoke exhaust surface Ageo (m²)</th>
<th>Effective smoke exhaust surface Aa (m²)</th>
<th>Clear opening from (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>980/980</td>
<td>1880</td>
<td>3.68</td>
<td>2.21</td>
<td>1700</td>
</tr>
<tr>
<td>1100/1100</td>
<td>1880</td>
<td>4.14</td>
<td>2.48</td>
<td>1800</td>
</tr>
</tbody>
</table>

**NOTE:**
- optional: electrical (G29) or pneumatical (G19) ventilation

**NOTE:**
- optional: electrical (G29) or pneumatical (G19) ventilation
  (only one half of flap ventable)
GRILLODUR®-DSG
FALL-THROUGH PROTECTION
NEW

- Reliable collective protection on the roof
- Certified according to GS-BAU-18
- Quick and easy installation from the outside
- Retrofittable with minimal effort

More safety during installation and maintenance of ventilation and SHEV flaps. The new DSG fall-through protection for GRILLODUR® continuous rooflight flaps offers collective protection against falling of persons and larger objects. For both flat and curved-shaped GRILLODUR® continuous rooflight flaps, the tried and tested catchment safety facility with its energy-absorbing grid structure ensures absolute safety in the flap area. The DSG fall-through protection is tested and certified by the BG BAU (Test Certificate No. BAU 15216).

GRILLODUR®-INSECT PROTECTION SYSTEM
NEW

- Effective and environmentally friendly
- Weatherproof fiberglass fabric
- Inconspicuous and permeable to air
- Mesh size: approx. 1 mm

The new GRILLODUR® INSECT PROTECTION SYSTEM offers effective protection against the intrusion of insects, leaves and coarse soiling during daily ventilation. The insect protection system is used in hygienically demanding industries, especially in the food, beverage and pharmaceutical industries.