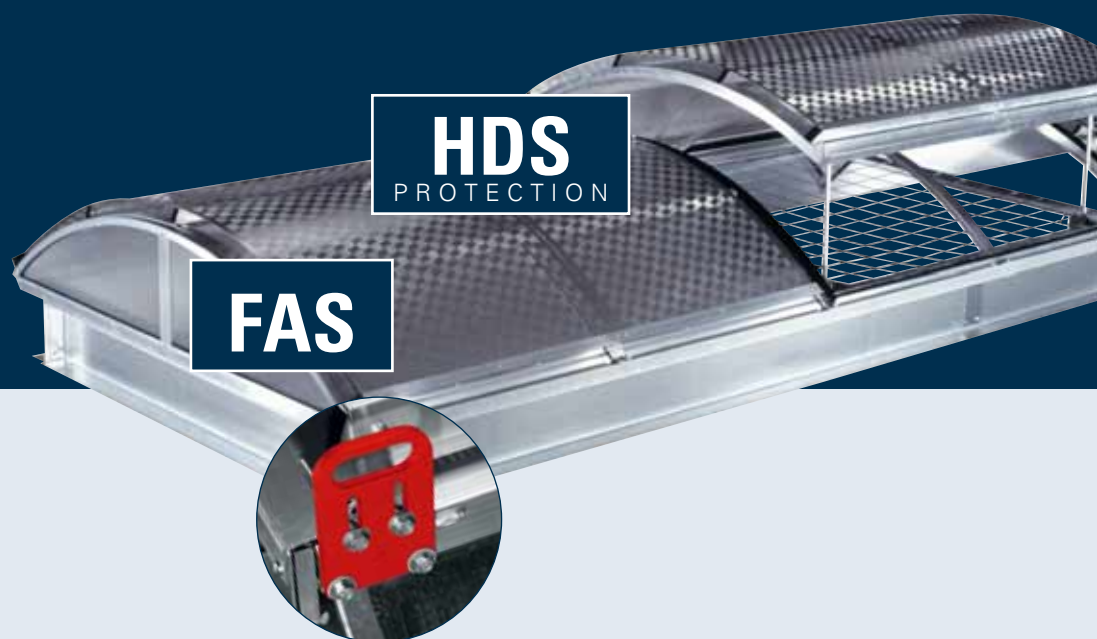


ESSMANN® Multi Safety System for all Arcade Rooflights



ESSMANN® Multi safety systems offer multiple benefits

Increased safety on flat roofs when constructing new and renovating existing buildings. The latest in convenience and comfort for all established arcade rooflight versions. All-round ESSMANN protection certified by a test mark issued by the German trade association.



ESSMANN® HDS protection system

Three different safety systems guarantee increased protection and convenience on every flat roof:

- **HDS protection system**
- **Fall arrest safety consol (FAS) and**
- **Fall-through protection system (Q131).**

The **HDS protection system** offers multiple benefits in a single system. **H** stands for hail protection, **D** for fall-through protection (Durchsturz-sicherung in German) and **S** for sun protection.

The HDS protection system is ideal for enhancing any standard arcade rooflight and complies with the requirements of the individual state building codes.

The HDS protection system comprises an external, perforated aluminium sheet covering, which is mounted at a distance on the arcade rooflight profile.

In addition the HDS protection sys-

tem also protects people from falling through light installations located on the roof and has been certified as fall-through proof by the trade association, building technical committee. **This fall-through protection applies not only during installation, but also for the life of the warranty!**

The installation of the HDS protection system allows the workers in the building to sustain their performance efficiency.

It significantly reduces the accumulation of heat and direct radiation, which can cause temperatures inside buildings to soar in the summer months and impair the performance capabilities of the staff.

Total energy transmission is less than 27% combined with minimum light transmission loss (max. 10 to 20 %).

The installation of a HDS protection system provides the added benefit of protecting the glazing below from hail. Ideal protection against the in-

creasing occurrence of storms. Which is also an interesting benefit in terms of insurance.

Further benefits include the reduction by half of direct UV radiation and the associated reduction of stress on the panel material. The HDS protection system is also burglar resistant and protects against vandalism and break-ins.



Q 131



HDS Hail protection

The perforated aluminium sheeting acts as a safety helmet, effectively protecting the glazing against hail. Which is also an interesting benefit in terms of insurance.



HDS Fall-through protection

ESSMANN HDS protection complies with the principle testing requirements of DIN 4426-1, GS-BAU-18.1 regulations and has therefore been certified as fall-through proof by the trade association, building technical committee (testing and certification office PZ "BAU" BG, test mark 08071 issued by the German trade association).

The fall-through protection applies not only during installation, but also for the life of the warranty!



HDS Sun protection

Effective protection from the sun by making use of the so-called "deciduous tree" effect. The structure of the sheet creates a constantly changing pattern of light and shade due to the changing position of the sun over the course of the day. Extremely good sun protection, low loss of light transmission max. 10 – 20 % and a total energy transmission of less than 27 %. No heat accumulation.



FAS



Q 131



ESSMANN® Fall Arrest Safety Console (FAS)

All ESSMANN product innovations are driven by the need to ensure safety on the roof. ESSMANN has developed the **Fall Arrest Safety Console (FAS)** specifically to protect people working on roofs. It can be used as an individual anchor point for fall protection and as a restraining system, depending on the fall height.

It is extremely stable and made of stainless steel, and is fixed to the relevant ESSMANN arcade rooflight system or can be retrofitted at any time.

The ESSMANN FAS console complies with class A1 requirements as a fall arrest safety system according to DIN EN 795. Fachausschuss Persönliche Schutzausrüstungen, testing and certification office in BG-PRÜFZERT, EG-Baumusterprüfbescheinigung no. 06060007.

ESSMANN® Q 131 Fall-through Protection System

The **Q131 fall-through protection system** is the third component of the multi safety system and guarantees fall-through protection for people performing assembly or maintenance work on the roof, even if the arcade rooflight is opened. The system comprises a galvanised steel mesh mat and is fixed to the upper edge of the frame. U-shaped spacer profiles support the fixture. The design complies with the principle testing requirements of DIN 4426-1, GS-BAU-18 and GS-BAU-01 regulations and has therefore been certified as fall-through proof by the trade association, building technical committee (testing and certification office PZ "BAU" BG, test mark 03026 issued by the German trade association). Q131 furthermore complies with the principle testing requirements of DIN EN 18106 WK 1 and is therefore burglar-proof and provides protection against vandalism.

Important safety notices relating to the FAS

- The fall arrest safety systems are only to be fixed in the area of the truss on the arcade rooflight system. For this reason the fall arrest safety consoles should be installed with truss clearance around the appropriate arcade rooflight system.
- The fall arrest safety system should only be used to secure **one person**.
- Only fall arrest systems (belts, ropes, fall arrest energy absorbers and hooks) according to DIN EN 363 may be used, and the appropriate instructions for use must be observed.
- The fall arrest systems must be inspected by a technical expert or the manufacturer at least once a year.
- The fall arrest systems may only be repaired by the manufacturer.

Further information can be found at www.essmann.de

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