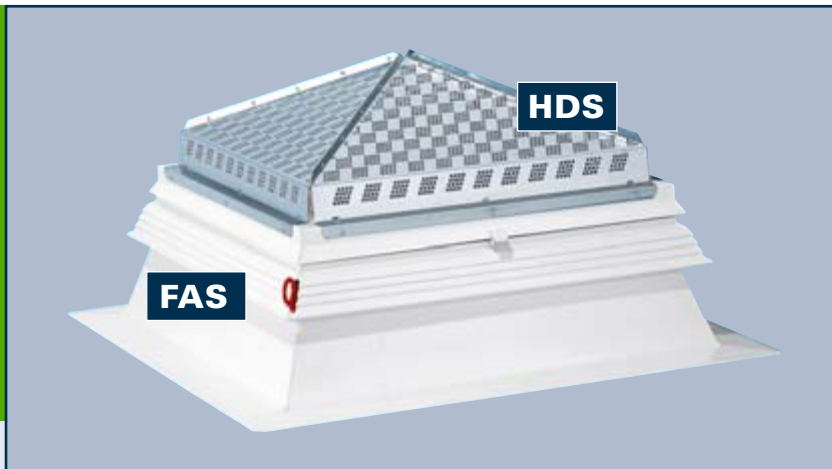


## ESSMANN® Multi Safety System for Skylight Domes



## Product Description

### ESSMANN® Multi Safety System for Skylight Domes



ESSMANN multi safety system on a skylight dome type 810

#### HDS protection system

Externally located profile system covered with perforated aluminium sheeting to protect skylight domes with kerb frames\* against, for example

- Hail
- Fall-throughs
- Sun
  - lower light transmission loss
  - total energy transmission < 27%
  - no heat accumulation
- UV rays
- Break-ins (burglar-resistant grate)
- Vandalism

#### Hail protection

HDS protection provides excellent hail resistance for the glazed surfaces below - ideal protection against the increasing occurrence of storm damages.

This is definitely in the interests of insurance companies, as well.

#### Fall-through protection

The HDS protection complies with the requirements of DIN 4426-1, GS-Bau-18 and GS-Bau-01 and has therefore been certified by the trade association as **fall-through proof** for the life of the warranty (testing and certification office PZ "BAU" BG). The fall-through protection provided by this HDS protection only applies to our skylight dome systems and panel materials.

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

#### Sun protection

The sun protection provided by HDS protection is based on the fundamental principle of the so-called deciduous tree effect. The structure of the specially perforated aluminium sheeting partially covers the outer side of the skylight dome. The skylight dome is therefore not able to accumulate as much heat wherever the dappled shadows fall on the dome. Since the position of the sun alters over the course of the day, the dappled shadows on the outside of the skylight dome also move, thus ensuring that the glazing in the skylight dome accumulates considerably less heat.

#### Fall Arrest Safety Console (FAS)

Stainless steel anchor point for fixing and securing people to ESSMANN skylight bases type AK made of PVC in installation heights of 15 and 30 cm. The FAS can be secured to type AK metal skylight bases in installation heights of 30 und 50 cm. Prior consultation with the factory is necessary ESSMANN skylight bases are to be retrofitted with an FAS console on site. This retrofitting is performed by specialist ESSMANN fitters.

- Fall protection
- Restraining system

The FAS console can be used as an individual anchor point for fall protection and as a restraining system on ESSMANN skylight bases. The FAS (Fall Arrest Safety Console) complies with class A requirements as a fall arrest safety system according to DIN EN 795, DIN EN 362 EC design and is certified by the trade association.

\*Two or three-skinned skylight domes.

A standard combination of four-skin skylight domes with the HDS protection system is **not** possible.

Further information can be found at [www.essmann.de](http://www.essmann.de)

ESSMANN GmbH  
 Im Weingarten 2  
 D-32107 Bad Salzufflen  
 Telephone +49 (0)5222.791-0  
 Telefax +49 (0)5222.791-236  
 E-Mail [info@essmann.de](mailto:info@essmann.de)  
[www.essmann.de](http://www.essmann.de)