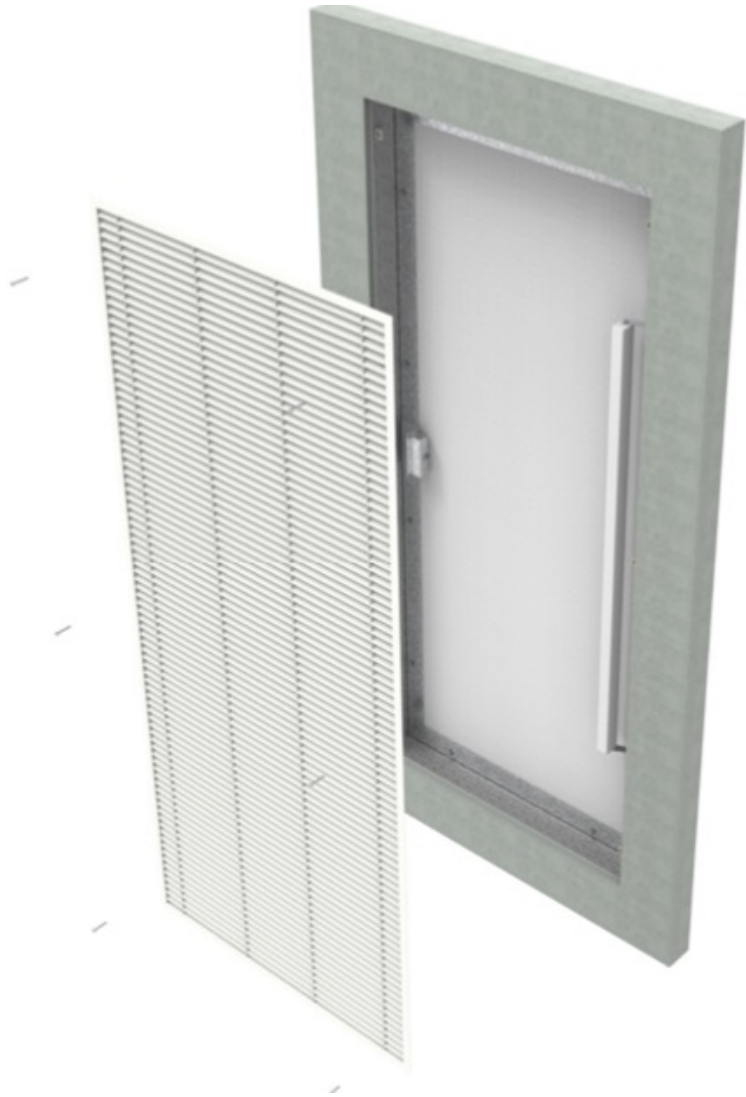


Smoke Control Damper



Features



CE marked to BS
EN 12101-8 Smoke
Control Dampers



Easy to fit with
separate frame for
first fix installation



Standard sizes
available



Large free area

Smoke Control Damper

Developed specifically for smoke control use, particularly in mechanical smoke ventilation systems (MSVS) and pressurisation systems, the EV-SSD is a reliable and robust high-performance product tested to BS EN 12101-8 and classified to BS EN 13501-4.

The EV-SSD has a high free area which means that builders work opening sizes are reduced compared to multi bladed dampers. The EV-SSD features a separate mounting frame that can be installed as a first fix item with dampers being positioned during second fix to reduce the risk of site damage. The damper is powered open and closed by a 24VDC or 220v chain drive with a fast-operating speed and the damper is suitable for systems for combined smoke control and general HVAC applications.

The damper is supplied with an aluminium non vision grille finished in RAL 9010 as standard.

Dampers have been tested and certified within the size range of 690mm x 1440mm to 990mm x 2190mm and are available in the standard sizes detailed in the table below. Other sizes can be made to order with a longer lead time.

The product can be installed into ducts that have been tested to BS EN 1366-9, BS EN 1366-8 as appropriate, and to builders work (created on site) ducts, concrete or aerated concrete ducts and walls, provided that they are of a higher density and thickness than the tested arrangement as detailed below and providing that the concrete/aerated concrete construction has a thickness that complies with the supporting construction information shown in BS EN 1366-1 and BS EN 1366-2 for the time period of classification required.

Group SCS offer range of matching accessories to make up a complete smoke control system including control panels, switches, and extract fan assemblies.



Classification

The EV-SSD Smoke Control Damper is classified according to the following combinations of performance parameters.

E 120 (ved-i<->o) 1000C10000AAmulti

E 90 (ved-i<->o) S1000C10000AAmulti

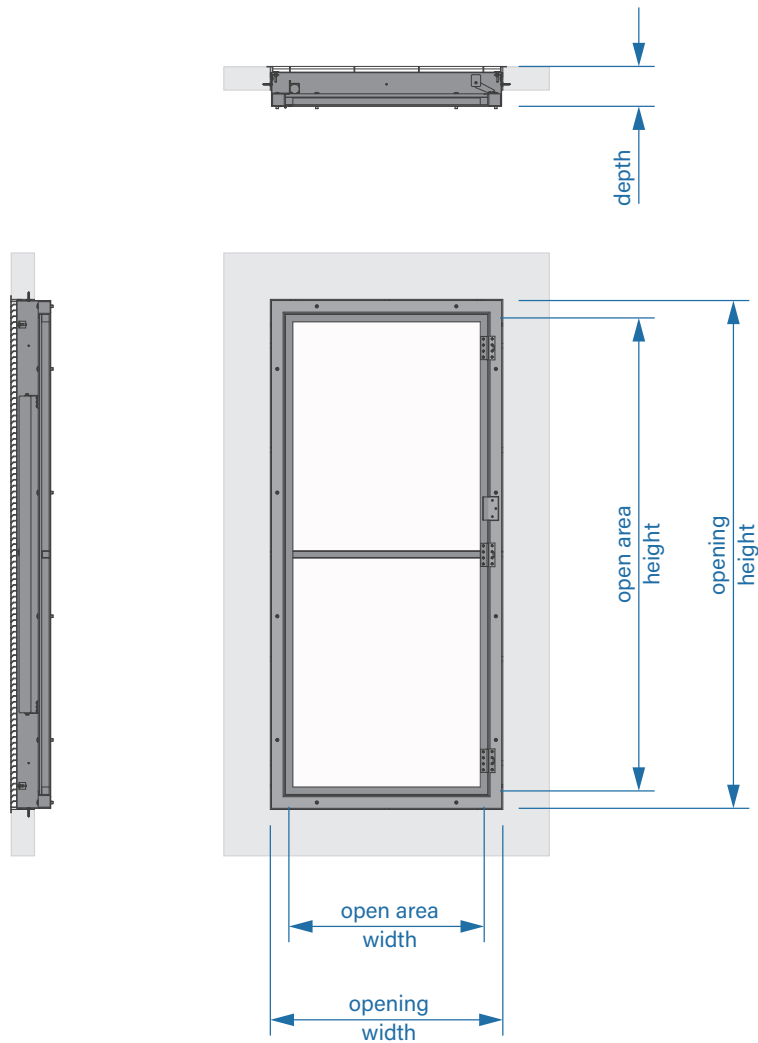
- **E** – Integrity
- **90/120** – criterion in minutes
- **Ved** – indicates the damper is placed in a vertical plane, the damper is mounted in a duct.
- **i <-> o** – indicates that the performance criteria are satisfied from inside to outside (fire inside) and outside to inside (fire outside)
- **S** – indicates a leakage rate of less than 200m³/(h.m²). Maximum leakage for non S class – 360m³/(h.m²).
- **1500** – indicates that when tested at these negative pressures the damper is suitable for use over the range from the tested negative pressure up to a positive pressure of 500 Pa.
- **C10000** – indicates the suitability of the damper for use in combined smoke control and environmental systems
- **AA** – indicates automatic activation
- **multi** – indicates suitability for multi compartment use

Applications

In general, the fire resistance of the product should equal that of the fire compartment that the duct or shaft passes through. The EV-SSD can be used in mechanical systems where the damper leakage is accounted for in the system design and the damper offers 120 minutes fire resistance. It is recommended that S classification dampers are used for natural smoke shaft systems and the maximum fire resistance with S classification is 90 minutes.

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Standard Sizes



Damper Type	Builder Work Opening		Damper (with 70% Grille)
	Width (m)	Height (m)	Geometric Free Area m ²
SCS/SCD/01	0.85	1.45	0.58
SCS/SCD/02	0.90	1.45	0.63
SCS/SCD/03	0.70	0.90	0.62
SCS/SCD/04	0.75	0.70	0.60
SCS/SCD/05	0.75	2.20	0.80
SCS/SCD/06	0.80	1.60	0.61
SCS/SCD/07	0.80	2.10	0.83
SCS/SCD/08	0.90	1.45	0.63
SCS/SCD/09	0.90	1.80	0.81
SCS/SCD/10	0.90	2.20	1.02
SCS/SCD/11	1.00	1.60	0.81
SCS/SCD/12	1.00	2.00	1.04

Accessories



EV-301 Control Panel

The EV-301-MC-BB smoke ventilation control panel with battery back up included, has been specially designed and developed for smoke ventilation systems.




Smoke Detector

Smoke detector with a state-of-the-art optical chamber combined with an application-specific integrated circuit to provide quick and accurate detection of fires.




Maintenance Switch

Tamper-proof switch for testing and monitoring smoke control systems.

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