



**FIRE CURTAIN
TECHNOLOGIES**

Smoke and Fire Curtains

AUTOMATIC SMOKE CURTAIN SMOKE SEALED CURTAIN SD

The Smoke Sealed Curtain is designed to restrict the passage of fire and smoke. It operates automatically when connected to Fire Alarm Controls.

APPLICATIONS:

Fire Protective Smoke Curtains are used in all industrial and commercial buildings, e.g. shopping centers, office buildings, elevator landings, lobbies, hospitals, retirement homes, atria, etc.

The Fire Protective Smoke Curtain SD is certified and labeled to UL 10D and UL 1784.

Smoke and Fire resistance

Model SD1/60 1 hr fire rating

Model SD1/180 3 hr fire rating

PRODUCT DATA SHEET | SMOKE SEALED CURTAIN SD

KEY FEATURES



Tested by UL in accordance with **UL 10D & UL 1784**

Fire rating:

1 hour - 1700°F Glass fabric

3 hour - 1920°F Glass fabric with coating and stainless-steel inlay

Materials class: **A2-s1, d0**

FD PIN SIDE GUIDES with integrated seals

Manufactured in Germany by **COLT GROUP INTERNATIONAL** in accordance with **ISO 9001:2008**



PRODUCT DESCRIPTION

The Fire Protective Smoke Curtain SD is an automatic, gravity-drop barrier with integrated seals that prevent fire and smoke from transferring from one part of a building to another.

The curtain consists of a roller covered with a fiberglass fabric which is incorporated into a galvanized steel housing.

The roller unit incorporates a motor, planetary gearbox, and control electronics with a microprocessor. The microprocessor monitors the resting position when rolled up and independently regulates the closing speed to a maximum of 0,15 m/s (6in / sec).

The housing is equipped with specially developed reinforced brackets, that maintain integrity at high temperatures.

The bottom of the housing is closed off with a panel that allows the entire length of the system to be accessed.

The system is equipped with FD side guides. Their special smoke sealing design ensures that the required compartmentalization is achieved and maintained.

There are no visible fasteners either on the underside of the housing or on the front of the side guides.

DIMENSIONS

Housing type	Classification	Maximum Dimensions (ft)	
		Width	Height
SI-N Single unit	1hr/3hr	14.5	9
SI-L Single unit	1hr/3hr	14.5	19.5 / 18



A bottom bar is attached to the bottom of the curtain and serves to ensure that the curtain operates as designed and also that it remains stable when unrolling.

The bottom bar makes contact with the floor when the curtain is deployed, creating a smoke-tight seal with the building structure.

The curtain **headbox and side guides** can be polyester powder coated in all RAL colors.

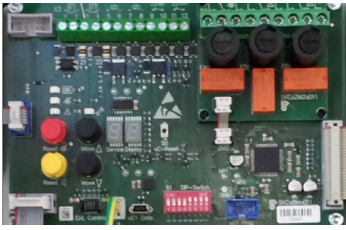
The fabric is silver grey and can be printed with custom signage per customer request. The unit can be configured with mounting brackets either for wall or ceiling mounting.

PRODUCT DATA SHEET | SMOKE SEALED CURTAIN SD

CONTROL PANEL

The control panel for automatic smoke and fire curtains operates as sub system to central Fire Alarm System (FAS) or can operate independently.

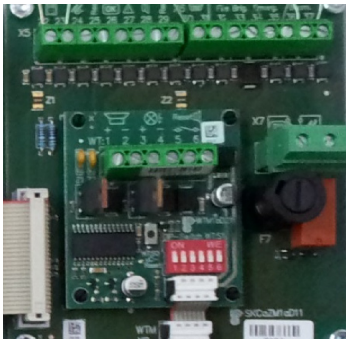
Electrical Requirements (120VAC, 0.67Amps/ motor)



NUMBER OF CONTROL GROUPS

Control panels can receive multiple alarm and manual/emergency control inputs to manage multiple zones with immediate full deployment, delayed full deployment, and immediate partial deployment with delayed full deployment.

Systems can be fitted to be modified on-site or remotely by certified technicians.



MODULE FOR ADDITIONAL FUNCTIONS

- Release via smoke detector / heat detector
- Release via button / hand control
- Re-opening of curtain for use by fire-fighters (fire access)
- Re-opening of curtain in emergency (fire egress)
- Monitoring of curtain via a safety bottom bar
- Line monitoring for wire-break and short circuit.

SIGNALING MODULE

Signaling outputs include:

The module operates in conjunction with the auxiliary module and is prepared for connection of optional warning devices, e.g. a combined multi-tone siren and/or a strobe light.



SKC-SC CONTROL PANEL

The SKC-SC control panel supports the following functions:

- Deploying the curtain when there is an alarm
- Moving the curtain to time-dependent intermediate positions (HWD-1 + HWD-2)
- Rolling the curtain up again in an emergency situation (emergency egress)
- Rolling the curtain up again via a fireman's switch (emergency access)
- Unrolling the curtain using a smoke detector or heat detector
- Unrolling the curtain using manual controls
- Connecting a strobe light and acoustic warning system
- Interrupting the closing process by a contact strip or monitoring of the opening by a beam detection
- In the event of obstacle detection, giving a warning by means of an emergency announcement
- Status messages to the building management system.

EXTERNAL SWITCH

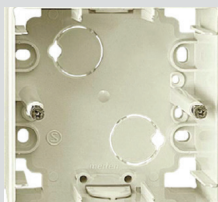
LT-UP

- Emergency switch to raise smoke or fire curtains following a fire alarm by any person.
- Flush mounting.
- With hook and screw fixing
- Including RU-E frame
- Customizable Label
- Installed at a height of 35 in - 43 in from FFL

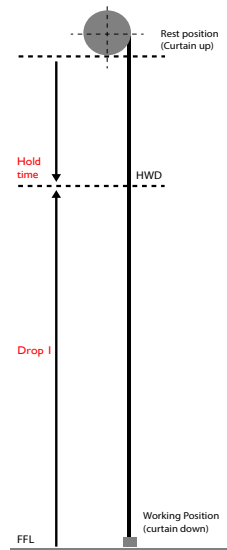


GA-E housing

- To accommodate a WF / WN switch Flush mounting.
- Cream color



EMERGENCY EGRESS



The function of the intermediate position is selected by using the program and PC.

Drop 1 Distance from floor to intermediate position.

Hold Time Is the time in seconds that the Curtain remains in the HWD intermediate position before it continues down (Escape Delay).

1

Self-Perform

Fire Curtain Technologies:

- Provides installation and technique guides.
- Supports customer by email and teleconference.



2

Outside Contractor

Fire Curtain Technologies:

- Provides installation and technique guides.
- Supports outside contractor by email and teleconference.



3

Onsite Supervision

Fire Curtain Technologies:

- Technician visits on site and instructs local team to get the materials unpacked, inventoried and organized.
- Get projects started (or finished) with the install and even sign off on the work once completed as time and budget allow.



4

Turn-key Installation

Fire Curtain Technologies:

- Takes the Installation contract through their Network of Installers.

