

ELEVATOR SMOKE CURTAIN GX



Smoke and Fire Curtains

Smoke protection curtain for elevator doors with a clear transparent fabric. The Smoke Curtain GX is designed for elevators to prevent the spread of smoke via elevator shafts to other levels.

The design is integrated into the space almost invisibly to create a visually appealing look.

The Elevator Smoke Curtain GX is certified and labeled to UL 1784.



SMOKE PROTECTION CURTAIN FOR ELEVATOR DOORS WITH A CLEAR TRANSPARENT FABRIC

PRODUCT DATA SHEET | ELEVATOR SMOKE CURTAIN CLEAR TRANSPARENT FABRIC

CERTIFICATIONS



Tested by UL in accordance with **UL 1784**
NFPA 105

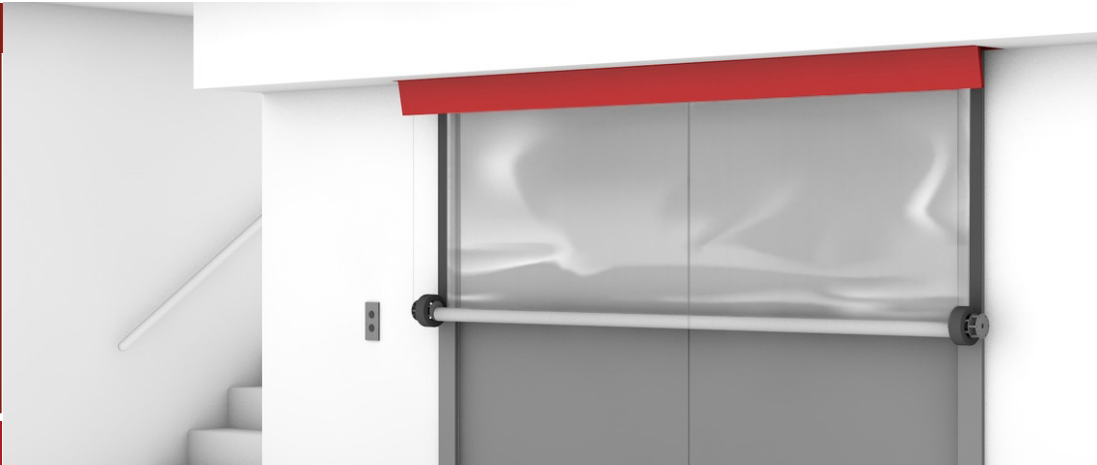
ASTM E84 (CAN/ULC-S102)

Temperature resistance: **649°F/343°C**
Complies with:

- 2012 IBC Section 713.14.1
- 2009 IBC Section 708.14.1
- 2018 IBC Section 3006.1
- 2015 IBC Section 3006.1

KEY FEATURES

- Clear transparent fabric
- Magnetic side guides
- Integrated egress switch
- Gravity-Fail safe system



DESIGN

The system can be installed almost invisible in suspended ceilings, directly in front of the elevator openings.

- Invisible integration allows for freedom of design
- Easy installation and low maintenance
- Multiple benefits, but still available at an appealing price
- Translucent fabric with magnetic stripes on the edges (closing onto the elevator frame or auxiliary rails)
- Auxiliary rails powder-coated (optional)

BENEFITS

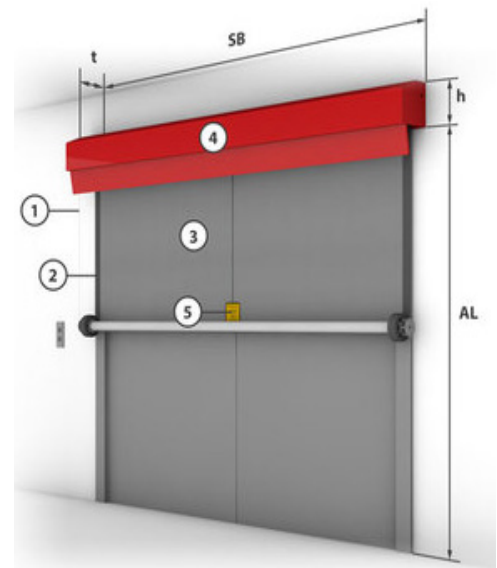
- Reliable and tested smoke protection in the event of an emergency
- Elevator curtains allow for egress and access after the system is activated
- No interference with elevator door operations
- Drive unit with fail-safe technology allows closing without auxiliary power

PERFORMANCE

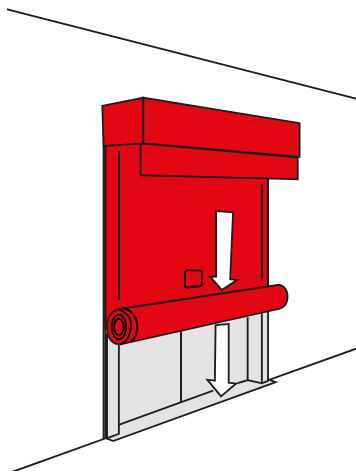
- system is tested according to UL 1784
- fabric is tested according to ASTM E84
- control unit is tested according to UL 864
- system with ICC-ES AC77 report

WEIGHT OF THE SYSTEM

20 lbs per linear foot



- 1 Aramid cables
- 2 Magnetic strip
- 3 Clear Transparent Fabric
- 4 Housing
- 5 Integrated Egress Switch



PRODUCT DESCRIPTION

The **Smoke Curtain GX** is designed for elevators to prevent the spread of smoke via elevator shafts to other levels.

The **automatic mechanism** allows the housing flap to open and close automatically.

The **flexible magnetic strips** are attached to the edges of the fabric which then creates a tight seal with the auxiliary rails upon deployment.

DIMENSIONS

System width	Drop length	Depth	Height
10.0'	10.0'	9.84"	10.24"

* Oversized designs up to 12' x 12' can be produced but require clarification.

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TECHNICAL DATA SHEET	
SYSTEM	SMOKE CURTAIN GX
Standards / Code References	UL 1784 NFPA 105 ASTM E84 (CAN/ULC-S102) California Dept. of Forestry & Fire Protection - Office of the State Fire Marshal Listing OSHPD Preapproval OPM-0371-13 UL864 CCRR-1059 Intertek Code Compliance Research Report in accordance with ICC-ES Acceptance Criteria for Smoke Containment Systems Used with Fire-resistive Elevator Hoistway Doors and Frames (ACC77, Section 3.1.1), dated June 2013.
Curtain	Fabric: Aperitex, smoke rated – transparent film, color: clear Thickness: 0.006mm (6µm), reinforced with glass fiber mesh
Temperature resistance	Peek Foil: 649°F/343°C
Closing direction	vertical, top – down, gravity fail safe Curtain deploys on general fire alarm can also be connected to local smoke detectors
Housing dimensions	9 13/16" (w) x 10 1/4" (h)
Bottom flap housing	self-closing
Installation type housing	to the wall ONLY
REMARKS	<ul style="list-style-type: none"> • solid backing for fixing has to be provided from site • required min. access space for the installation of the housing: 12"x12" • <u>The housing has a lateral overhang:</u> From the outside of the rails to the outside of the housing: 4 1/16" on each side. This must be considered for the necessary clearance space of the housing as well as for the complete drop path.
Flexible magnetic strips	2" (w) Adhere to ferromagnetic stainless steel auxiliary rails or to ferromagnetic elevator door frame to create a tight seal. In the event of a loss of power, a force of less than 15 pounds applied to the curtain boundary will push the flexible magnetic strips off the hoistway frame to allow occupant egress.

AUXILIARY RAILS	
Quantity	Set of two (2) per system
Width	System width < 78 3/4" (<6'-6 3/4") = width auxiliary rails: 2 3/8" on each side System width > 78 3/4" (>6'-6 3/4") = width auxiliary rails: 4 3/4" on each side
Length	max. length per aux. rail for delivery in one piece is: 144" At exceeding lengths the aux. rail will be divided into 2 parts. The customer can freely choose at which height the rail should be divided.
"Stub" rails	available upon request, To be cut on site to span the distance between the top of the ferromagnetic elevator door frame and the bottom of the housing of the Smoke Curtain GX system.
REMARKS	<ul style="list-style-type: none"> • Fixing material has to be provided by the Buyer • Auxiliary rails are not required if the elevator door frame is ferromagnetic and min. 2" wide. Narrow, nonferrous or beveled frames require the installation of auxiliary ferrous steel rails.

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TECHNICAL DATA SHEET

MOTOR / CONTROL UNIT	
Power supply	120V AC/60Hz, 24V DC integrated in the housing, centered
Battery backup	Additional powerpack for up to 20 minutes hold open time in case of power loss in the building. Within the first 5 minutes of hold-open time the system can be retracted once, by pushing the re-opening pushbutton without an additional power source.
REMARKS	<ul style="list-style-type: none"> • Automatic reset function after releasing the external fire alarm (permanent power supply is required) • <u>Requirements prior to the installation, testing and commissioning of the FCT electrical components:</u> All wiring must be available and match the FCT electrical drawing. Permanent power must be supplied on site. Failure to provide permanent power will interrupt the installation process and intended function of the system. The Buyer must immediately notify the client as well as FCT in writing about unforeseen conditions on the job site (temporary power supply, etc.). All modifications must be agreed upon FCT and the Buyer in writing. It is the Buyers responsibility to inform the client about all changes.

RE-OPENING PUSHBUTTON	
Position	Sticker button, located on both sides of the curtain
Operation	May be manually activated from both sides of the of the curtain to allow egress and also to rewind the system.
Label	"Press here to open"
REMARKS	Emergency power supply is required and must be provided from building side or the elevator.

GENERAL NOTES:

The system Smoke Curtain GX meets the requirements for smoke protection according to UL1784 and is regulated in the IBC. A fire rating is not provided by the offered smoke curtain. Magnetic steel "Auxiliary Rails" are necessary for the operation of the rolling magnets.

The offered system(s) are the most suitable FCT solution for this application. Some components might vary from the provided specifications. The Buyer may need to cross-reference and seek approval from local authorities.

It is the sole responsibility of the Buyer to coordinate all technical clarifications about shop drawings, sub construction and electrical requirements before installation start. The Buyer moreover is responsible for the measurement of clear openings and approval of shop drawings in accordance with FCT product specifications.

Before the installation, all wiring and the power supply must be available according to the electrical drawings in accordance with FCT specifications. A sound and solid sub construction has to be provided from site by the Buyer.