FIRE CURTAIN TECHNOLOGIES
Smoke and Fire Curtains

FIRE PROTECTIVE SMOKE CURTAIN FC/SC

FIRE CURTAIN WITH UP TO 3-HOUR FIRE RESISTANCE

FC60/SC60 FC180/SC180

CODE REFERENCES

- 2006/2009/2012 IBC Section 909
- 2009 IBC Section 711.5.2
- 2012 IBC Section 710.5.2.2
- NFPA 105 Installation of Smoke Control Door Assemblies
- NFPA 252 Standard Methods of Fire Tests of Door Assemblies

STANDARDS

Tested and approved by Underwriters Laboratories LLC to Standards

UL10D Fire Tests of Fire Protective Curtain Assemblies
UL1784 Air Leakage Tests of Door Assemblies and Other Opening Protectives
UL864 Control Units and Accessories for Fire Alarm Systems
UL723: Test for Surface Burning Characteristics of Building Materials

firecurtaintechnologies.com 585-412-2179 info@firecurtaintech.com

FIRE PROTECTIVE SMOKE CURTAIN FC/SC

Manufactured to the highest standards, fire curtains FC/SC are discreet in design and robust and reliable in fire scenarios. All the Deployable Fire Protective Curtains are UL recognized and labeled.

KEY SPECIFICATIONS

Headbox	1/32" galvanized mild steel with 1/16" end caps
Rollers	3" coated mild steel tube
Motors	24V DC
Bottom Bar	3/4" x 3/4" - 3/4" x 1 5/8" mild steel
Side Guides	100 x 50 rolled steel

THE SYSTEM INCLUDES:

Headbox and fabric

The system comprises **a glass fiber fabric** wound around a steel tube that incorporates a 24V permanent magnet roller. The roller assembly is encased in a galvanized steel **headbox**, which can be fixed directly to the building's structure.

Bottom bar

A standard **bottom bar** consisting of twin steel angles is used to ensure the curtain deploys under gravity in a controlled manner (Gravity Fail-Safe).

Side guides

The Fire curtains can be supplied with or without side guides (SC60/SC180).

RAL colors

The headbox, side guides, and bottom bar can be powder coated in any RAL color as an optional extra or can be supplied in stainless steel.

Egress door

Model FC/SC180 curtains are also available with an egress door, with full UL approval. The FC/SC180 utilizes a split bottom bar, and partial fastening between the fabric overlaps to allow safe egress through the curtain when the curtain is deployed.

FEATURES

- Multiple control options
- Provision of fire compartments and refuges
- Excellent replacement for fire doors
- Provision of a protected means of escape
- 3 hrs integrity and 2 hrs radiation

FIRE PROTECTIVE SMOKE CURTAIN

FIRE CURTAIN FC60 / SC60

Fire Curtain with 60-minute fire integrity incorporating an X32k fabric, the FC60/SC60 is the ideal solution for smaller projects.

Material

Woven glass fiber, coated on each side with a micronized aluminum polymer

Fire Integrity

Rated at 1800°F for up-to **60 minutes** of Integrity and 60 minutes of Radiation to EN 1634-1.

Applications

Elevator shaft, wall openings, and fire compartmentalization

FIRE CURTAINS FC180 / SC180

180-minute fire integrity curtain incorporating a C41000WK fabric, the FC180/SC180 is the highest performing fire curtain in the product range.

Material

Stainless steel wire reinforced woven fiber fabric coated on each side with silver polyurethane

Fire Integrity

Rated at 1800°F for up to **180 minutes** Integrity and 60 minutes radiation to EN 1634-1. Increased resistance to the irradiance of heat (W).

Applications

Elevator lobbies, atrium separation, exit stairway, sprinklered exit stairway

HEADBOX SIZES

The size of the curtain roller housing (headbox), depends on the curtain drop and width.
The table below gives details of the full range of headbox sizes for the fire protective curtains.

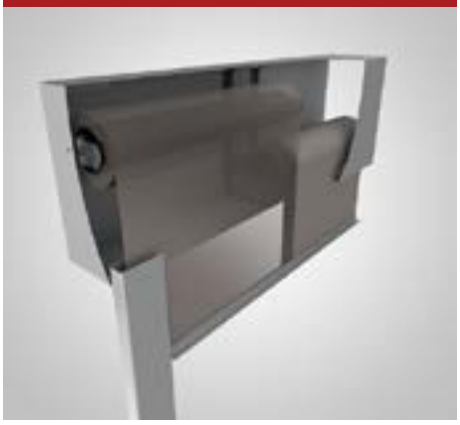
Type A

The standard headbox for use with curtain widths up to 18'

Type B

For use with curtains up to 147' and limited installation height for headbox

Type C



The standard headbox for use with curtain widths up to 147'

UL HEADBOX SIZES FC60/SC60	TYPE A SINGLE ROLLER HEADBOX 18' - 0 1/2"	
CURTAIN DROP	WIDTH (IN)	HEIGHT (IN)
UP TO 4'-11"	0' - 5 7/8"	0'-5 7/8"
4'-11" - 9'-10 1/8"	0' - 7 1/8"	0' - 7 1/8"
9'-10 1/8" - 19'-8 1/4"	0' - 8 1/4"	0' - 8 1/4"
19'-8 1/4" - 39'-4 1/2"	0' - 9"	0' - 9"

UL HEADBOX SIZES FC180/SC180	TYPE A SINGLE ROLLER HEADBOX 18' - 0 1/2"	
CURTAIN DROP	WIDTH (IN)	HEIGHT (IN)
UP TO 4'-11"	0' - 5 7/8"	0'-5 7/8"
4'-11" - 9'-10 1/8"	0' - 7 1/8"	0' - 7 1/8"
9'-10 1/8" - 19'-8 1/4"	0' - 8 1/4"	0' - 8 1/4"
19'-8 1/4" - 29'-3 3/4"	0' - 9"	0' - 9"
29'-3 3/4" - 39'-4 1/2"	0' - 9 7/8"	0' - 9 7/8"

UL HEADBOX SIZES FC60/SC60	TYPE B (DH) DOUBLE ROLLER HEADBOX (MAX. WIDTH 147' - 7 5/8")	
CURTAIN DROP	WIDTH (IN)	HEIGHT (IN)
UP TO 4'-11"	0' - 9 7/8"	0'-5 7/8"
4'-11" - 8'-2 3/8"	1' - 0 1/4"	0' - 7 1/8"
8'-2 3/8" - 19'-8 1/4"	1' - 1 3/4"	0' - 8 1/4"
19'-8 1/4" - 29'-3 3/4"	1' - 3 3/8"	0' - 9"

UL HEADBOX SIZES FC180/SC180	TYPE B (DH) DOUBLE ROLLER HEADBOX (MAX. WIDTH 147' - 7 5/8")	
CURTAIN DROP	WIDTH (IN)	HEIGHT (IN)
UP TO 4'-11"	0' - 9 7/8"	0'-5 7/8"
4'-11" - 8'-2 3/8"	1' - 0 1/4"	0' - 7 1/8"
8'-2 3/8" - 19'-8 1/4"	1' - 1 3/4"	0' - 8 1/4"
19'-8 1/4" - 29'-3 3/4"	1' - 3 3/8"	0' - 9"
29'-3 3/4" - 39'-4 1/2"	1' - 5 3/4"	0' - 9 7/8"

UL HEADBOX SIZES FC60/SC60	TYPE C (DV) DOUBLE ROLLER HEADBOX (MAX. WIDTH 147' - 7 5/8")	
CURTAIN DROP	WIDTH (IN)	HEIGHT (IN)
UP TO 8'-2 3/8"	0' - 7 1/8"	1' - 0 1/4"
8'-2 3/8" - 19'-8 1/4"	0' - 8 1/4"	1' - 1 3/4"
19'-8 1/4" - 29'-3 3/4"	0' - 9"	1' - 3 3/8"

UL HEADBOX SIZES FC180/SC180	TYPE C (DV) DOUBLE ROLLER HEADBOX (MAX. WIDTH 147' - 7 5/8")	
CURTAIN DROP	WIDTH (IN)	HEIGHT (IN)
UP TO 8'-2 3/8"	0' - 7 1/8"	1' - 0 1/4"
8'-2 3/8" - 19'-8 1/4"	0' - 8 1/4"	1' - 1 3/4"
19'-8 1/4" - 29'-3 3/4"	0' - 9"	1' - 3 3/8"
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UL HEADBOX SIZES FC180ES	TYPE C (DV) SINGLE ROLLER HEADBOX (MAX. WIDTH 147' - 7 5/8")	
CURTAIN DROP	WIDTH (IN)	HEIGHT (IN)
UP TO 8'-2 3/8"	0' - 7 1/8"	1' - 2 1/4"
8'-2 3/8" - 19'-8 1/4"	0' - 8 1/4"	1' - 1 3/4"
19'-8 1/4" - 29'-3 3/4"	0' - 9"	1' - 5 3/8"
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Control systems for BLE require minimal maintenance and are designed to be robust and simple while also providing advanced features such as retract buttons, obstruction sensors, and audio/visual warnings.

CONTROL SYSTEMS

A UL Standard Group Control Panel (GCP) is used in conjunction with UL Standard Motor Control Circuits (MCC) to operate up to 5NO 24V permanent magnet motors.

In normal conditions, the GCP provides a 24V supply to the motors, and the curtains are held in the headbox. When a fire alarm is activated, the power is removed from the motors, releasing the curtains to deploy under gravity in a controlled manner (Gravity Fail-Safe).

When the fire alarm system is reset, the GCP reinstates the 24v supply to the motors, and the curtains retract to their normal position in the headbox. Current limiting circuitry detects when the curtain has fully retracted, and the supply voltage to the motor is stepped down to a holding voltage.

In the event of a mains power failure, the 2NO 12v 7Ah backup batteries supplied with the GCP can maintain full control of the system for up to 4 hours. If a fire alarm signal is activated during a mains power failure, curtains will deploy in a controlled manner as normal.

CONTROL OPTIONS

- Two-stage Descent
- Delayed Descent
- Audio-Visual Alert
- Obstruction Sensors
- Connection to Building Management System (BMS)

GCP OPTIONS

LED status Indicators	Displays the status of the mains supply, battery charge, alarm and any fault in the CPU on the Standard GCP. The Multi-Function GCP has extra LEDs that display if a delay timer or override function is active.
Manual override	Facility to temporarily raise all the curtains connected to the GCP after deployment, for emergency egress
Two stage descent	Programmable timer delay that deploys the curtain in two stages to allow egress before full deployment of the curtain
Delayed descent	Programmable timer delay of up to 90 seconds after the fire alarm signal is activated before full deployment of the curtain
Delayed ascent	Programmable timer delay of up to 90 seconds after the fire alarm signal is reset before retraction of the curtain
GCP interlinking	Enables multiple GCP's to be connected to ensure synchronization of curtain descent and retraction
Heat or Smoke detector	Can be used in place of, or in combination with, the main fire alarm signal (Requires a manual reset button).
AV facility	An Audio-Visual Unit that activates to warn that the curtains are descending. Sounder beacons can also be used.
BMS connection	The GCP can be linked to a Building Management System to show the status of mains power, battery charge, alarm, timer delays, and manual override.
Curtain released signal	Signal to the BMS to confirm that the curtain has been released

GCP FEATURES

Controls up to 5 motors	Yes
2x 12V 7Ah Backup Batteries	Yes
Test Key Switch	Yes
LED Status Indicators	Yes
Manual Override (Requires Push Button)	Yes
Two Stage Descent (Requires Brake Motor)	Yes
Delayed Descent	Yes
Delayed Ascent	Yes
GCP Interlinking	Yes
Heat or Smoke Detector (with Manual Reset)	Option
AV Connection Facility	Option
Building Management System (BMS) Facility	Option

GCP SPECIFICATIONS

Power Input	• 120V ac 60Hz • 230V ac 50Hz
Alarm Input	Normally closed (Open on fire alarm activation) Configured to be fail safe
Finish	Appliance white painted mild steel enclosure, with hinged door
	15" x 13" x 4" (H x W x D)

MCC OPTIONS

Controlled curtain descent

Back electromotive force (EMF) of the curtain motor ensures the controlled gravity fail-safe deployment of the curtains.

Ascent run timer

For more extended curtain drops, the run timer can be set to 90 seconds instead of the standard 45 to ensure the curtain retracts fully into the headbox.

Current controlled ascent

When the curtain has fully retracted, the motor voltage is reduced. No limit switches are required.

Individual Override Interface

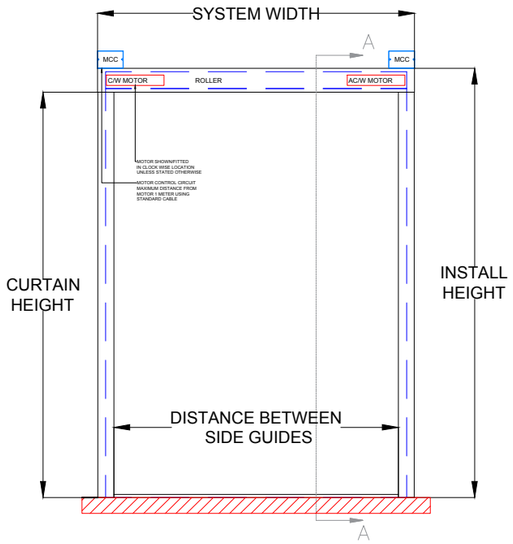
Manual override for an individual curtain on a GCP loop that contains multiple curtains. The period of time the curtain remains raised after the IOI is activated can be controlled from 0 -90 seconds.

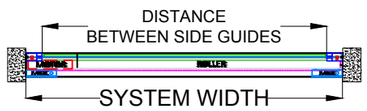
MCC FEATURES	
Controlled Curtain Descent	Yes
45 or 90 Second Ascent Run Timer	Yes
Current Controlled Ascent (No Limit Switches)	Yes
Two Stage Descent Facility (requires Brake Motor)	Yes
Individual Override Interface (IOI) (requires Push Button)	Yes

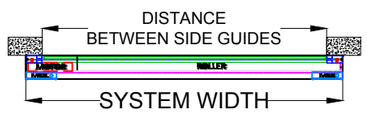
MCC SPECIFICATIONS	
Input Voltage	27Vac / 24Vdc
Output Voltage	24Vdc
Finish	White painted mild steel enclosure with screwed cover 5" x 10" x 2" (H x W x D)

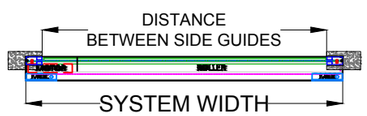
RevNo	Revision note	Date	Signature	Checked

WITH SIDE GUIDES









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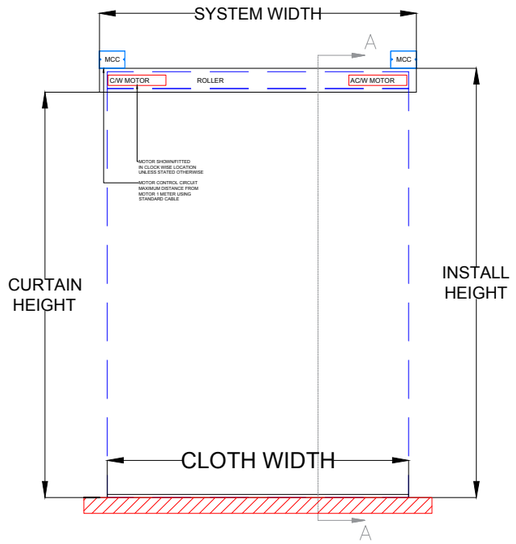

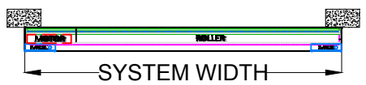

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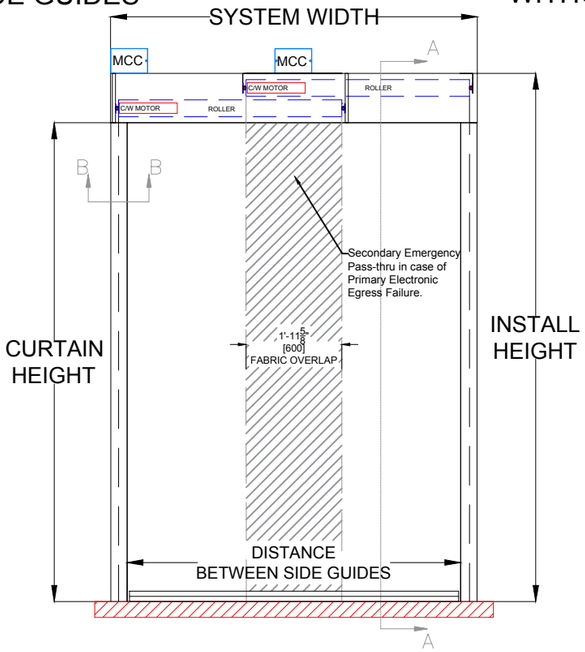

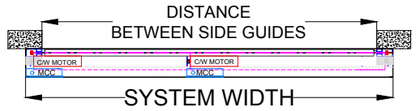

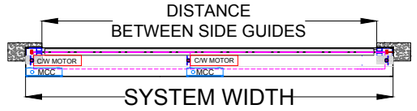

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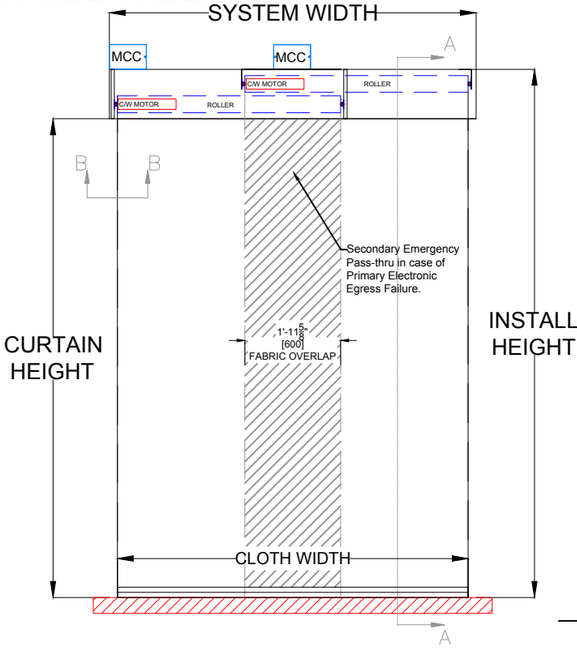

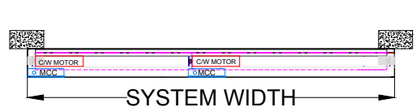

1. SINGLE AND DOUBLE ROLLER HEADBOX	SHOP FINISH:
2. ROLLER BAR WITH GRAVITY DOWN AND 24 VDC DRIVE UP	COMPLETE HEADBOX , SIDE GUIDES & BOTTOM BAR
3. FIRE-SMOKE CURTAIN UL10D+UL1784 (60-180 MINUTES @ 1832°F)	RAL9010 - PURE WHITE
4. STANDARD BOTTOM BAR	
5. STANDARD SIDE GUIDES (WITHOUT GUIDES ONLY ON SC60 MODEL)	
6. FIX DIRECTLY TO THE HEADBOX	

NOMENCLATURE
SC/SI/X/WIDTH/HEIGHT/X/60

JOB:

CUSTOMER:

SIZE: WIDTH [FT-IN] x HEIGHT [FT-IN]
[WIDTHmm x HEIGHTmm]

WEIGHT:
TBD

DATE: 2021-05-19

DRAWN BY: DAVID GUEVARA

QTY:
XX UNITS

QUOTE NUMBER:
M-XXXX

SCALE
DO NOT SCALE

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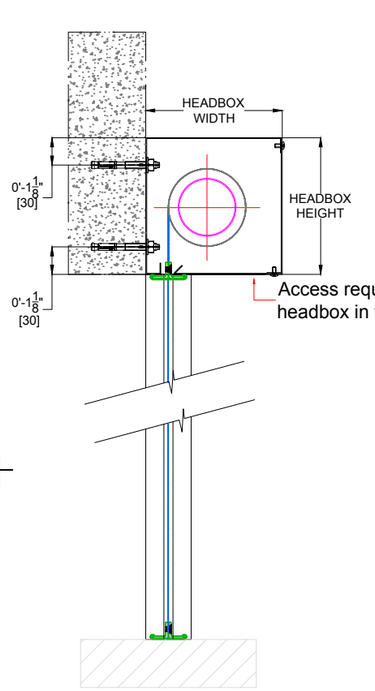
FIRE AND SMOKE CURTAIN
FC60-FC180-SC60

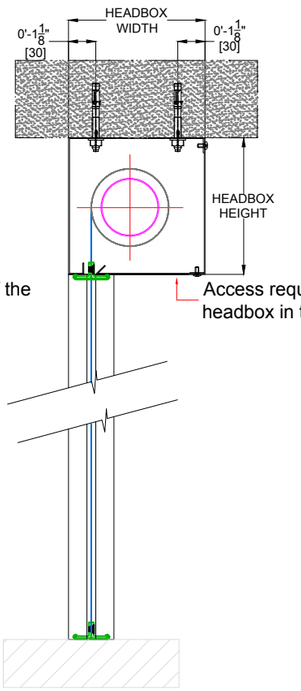
DRAWING NO.
1/4

RevNo	Revision note	Date	Signature	Checked



Access required to full width & length of the headbox in the ceiling for maintenance

CROSS VIEW
SECTION A–A



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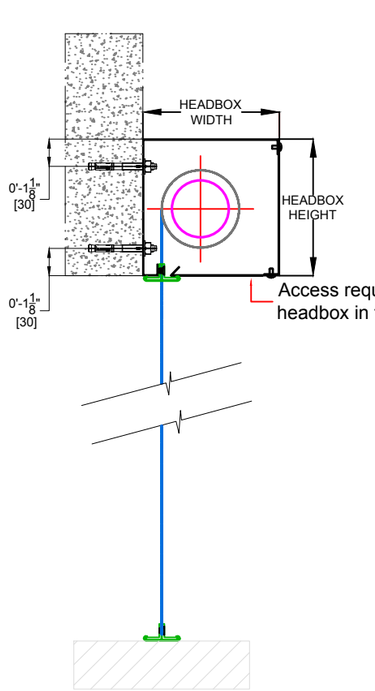

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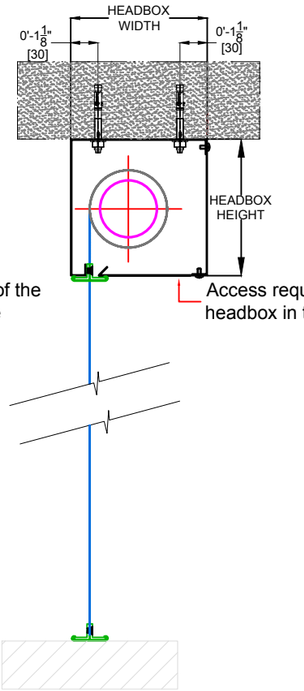

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6. FIX DIRECTLY TO THE HEADBOX	

NOMENCLATURE
SC/SI/X/WIDTH/HEIGHT/X/60

JOB:

CUSTOMER:

SIZE: WIDTH [FT-IN] x HEIGHT [FT-IN]
[WIDTHmm x HEIGHTmm]

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DATE: 2022-03-09

DRAWN BY: DAVID GUEVARA

QTY: XX UNITS

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FIRE AND SMOKE CURTAIN
FC60-FC180-SC60-SC180

DRAWING NO.
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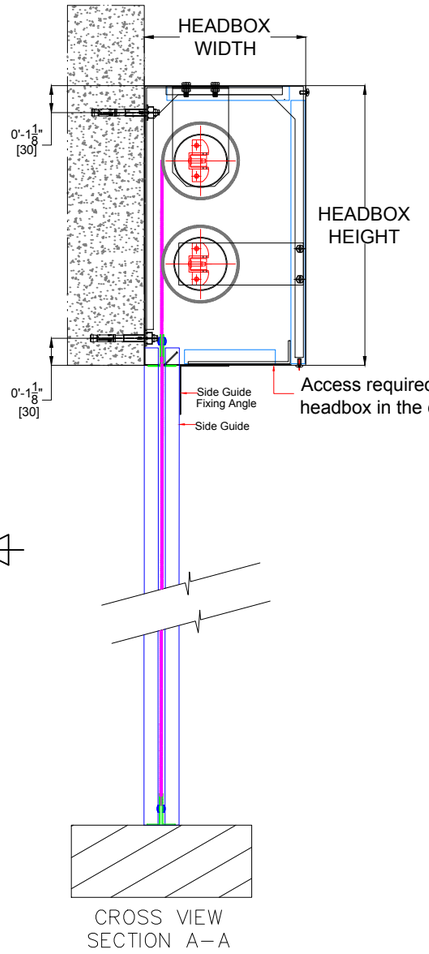
RevNo	Revision note	Date	Signature	Checked



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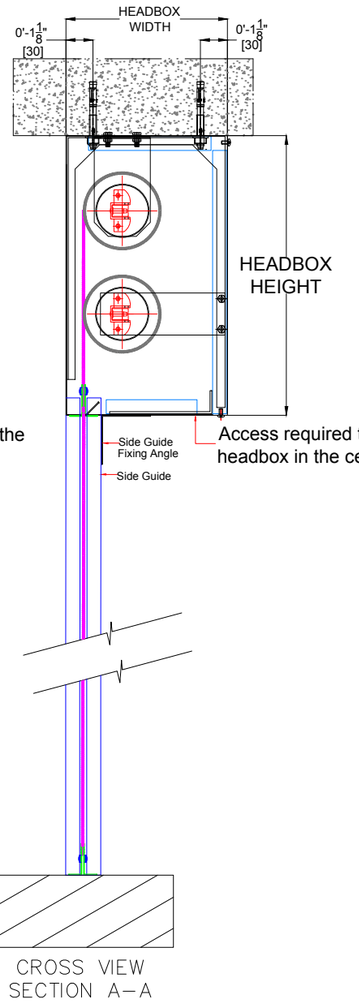

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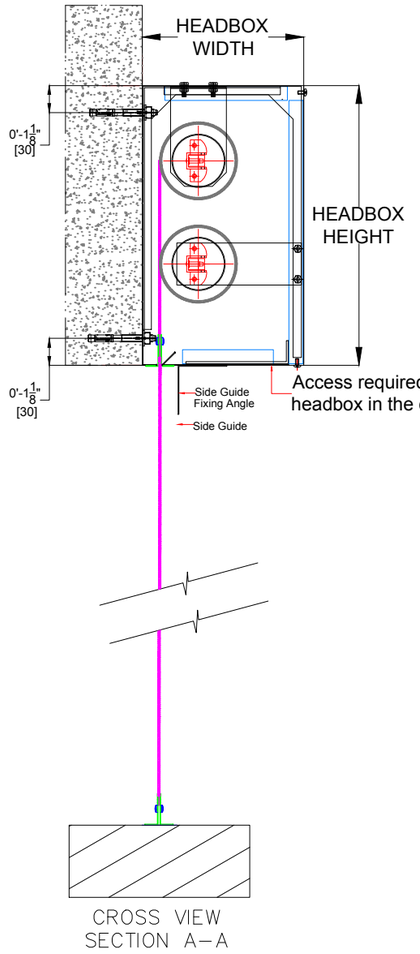

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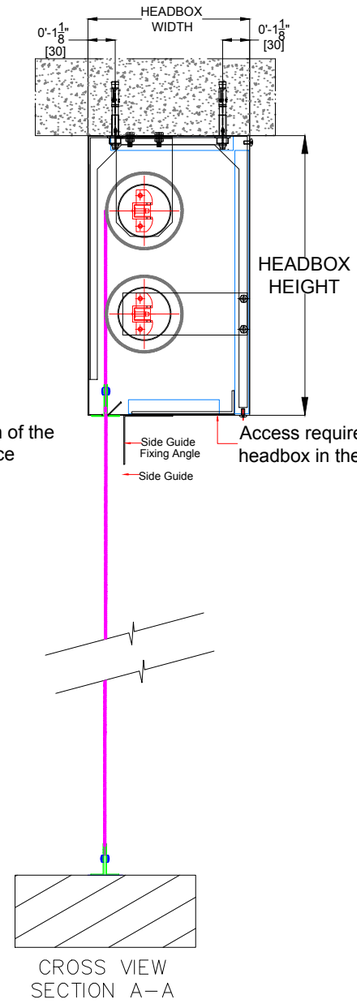

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FIRE AND SMOKE CURTAIN
FC60-FC180-SC60-SC180

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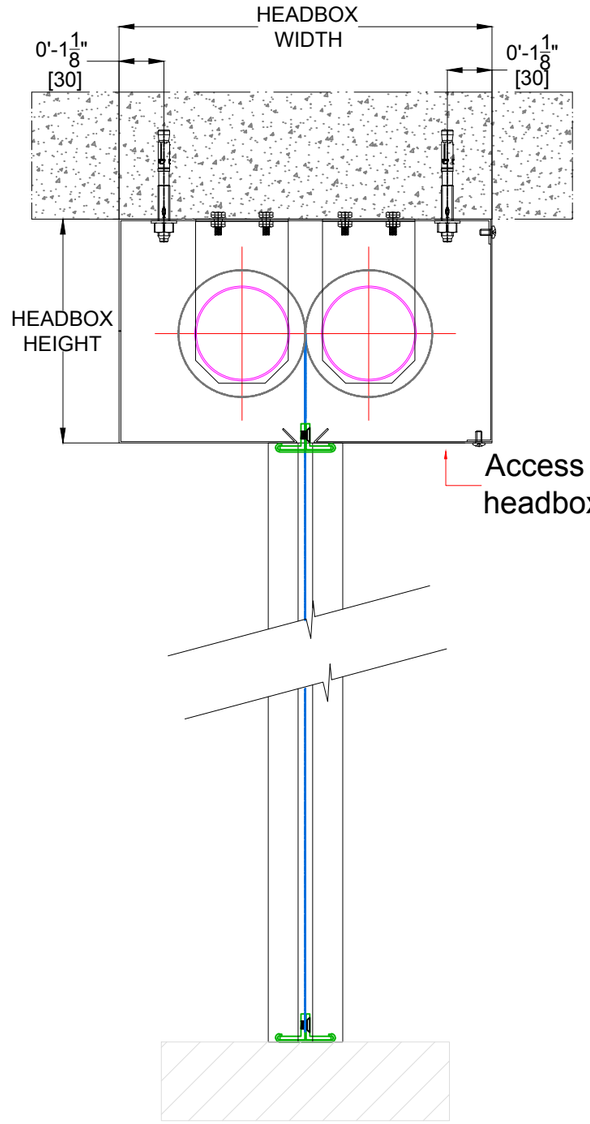

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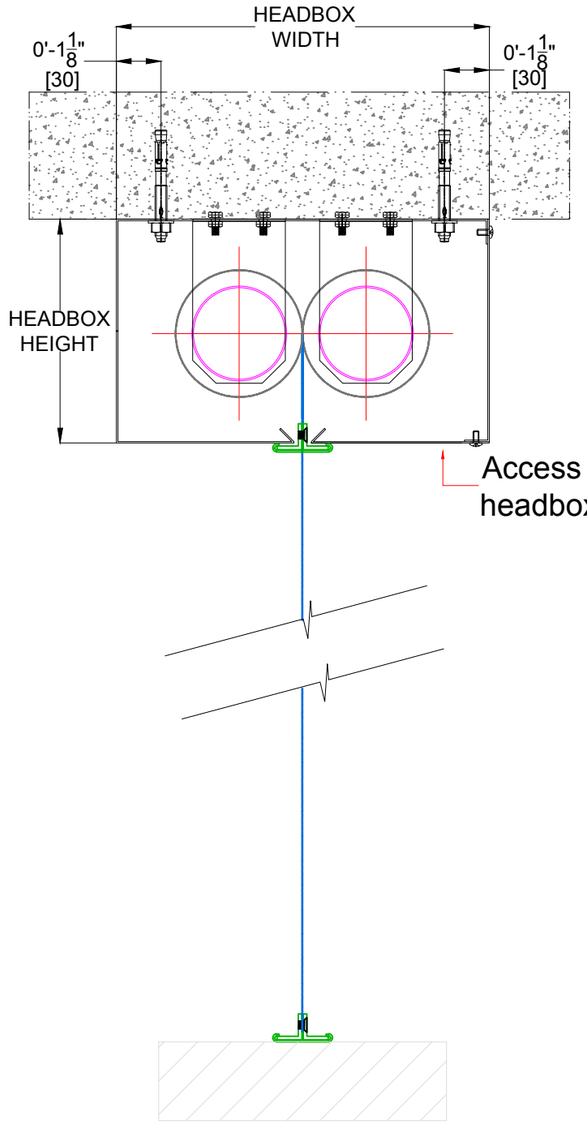

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1. SINGLE AND DOUBLE ROLLER HEADBOX	SHOP FINISH:
2. ROLLER BAR WITH GRAVITY DOWN AND 24 VDC DRIVE UP	COMPLETE HEADBOX , SIDE GUIDES & BOTTOM BAR
3. FIRE-SMOKE CURTAIN UL10D+UL1784 (60-180 MINUTES @ 1832°F)	RAL9010 - PURE WHITE
4. STANDARD BOTTOM BAR	
5. STANDARD SIDE GUIDES (WITHOUT GUIDES ONLY ON SC60 MODEL)	
6. FIX DIRECTLY TO THE HEADBOX	

NOMENCLATURE
SC/SI/X/WIDTH/HEIGHT/X/60

JOB:

CUSTOMER:

SIZE: WIDTH [FT-IN] x HEIGHT [FT-IN]
[WIDTHmm x HEIGHTmm]

WEIGHT:
TBD

DATE: 2022-03-09

DRAWN BY: DAVID GUEVARA

QTY: XX UNITS

QUOTE NUMBER: M-XXXX

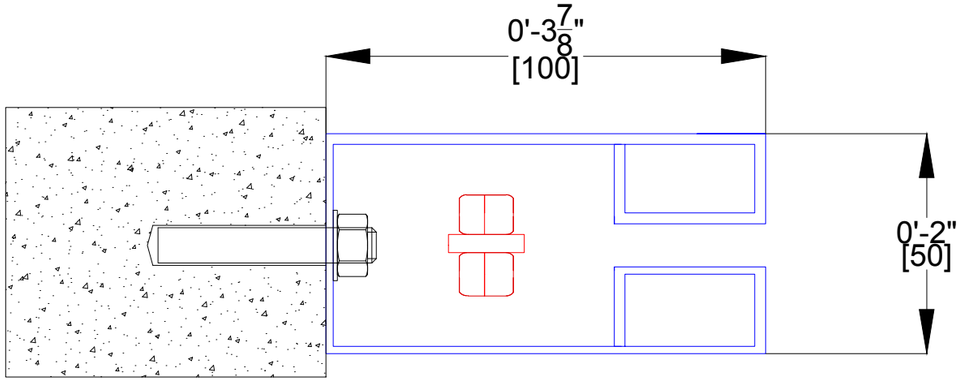
SCALE: DO NOT SCALE

FIRE CURTAIN TECHNOLOGIES
Smoke and Fire Curtains
5711 THOMAS ROAD
CANANDAIGUA NY 14424
(585) 412-2179
www.firecurtaintechnologies.com

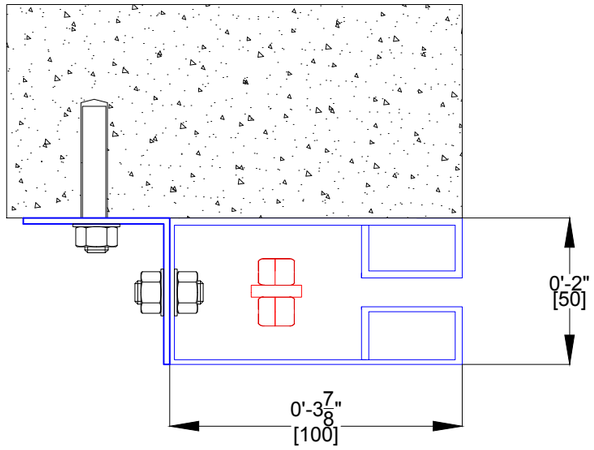
FIRE AND SMOKE CURTAIN
FC60-FC180-SC60-SC180

DRAWING NO.
2/4

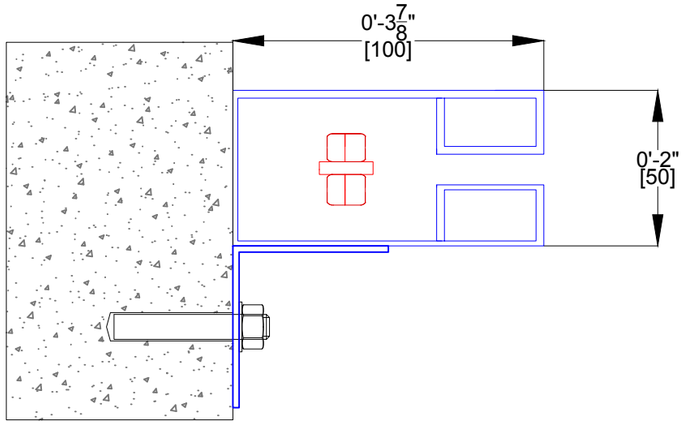
RevNo	Revision note	Date	Signature	Checked



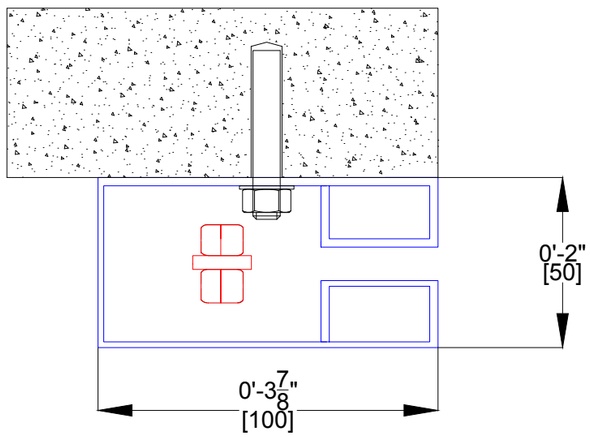
SIDE GUIDE–FIXING TYPE A
WALL ASSEMBLY
SECTION B–B



SIDE GUIDE–FIXING TYPE B
WALL ASSEMBLY
SECTION B–B



SIDE GUIDE–FIXING TYPE C
WALL ASSEMBLY
SECTION B–B



SIDE GUIDE–FIXING TYPE D
WALL ASSEMBLY
SECTION B–B

1. SINGLE AND DOUBLE ROLLER HEADBOX	SHOP FINISH:
2. ROLLER BAR WITH GRAVITY DOWN AND 24 VDC DRIVE UP	COMPLETE HEADBOX , SIDE GUIDES & BOTTOM BAR
3. FIRE-SMOKE CURTAIN UL10D+UL1784 (60-180 MINUTES @ 1832°F)	RAL9010 - PURE WHITE
4. STANDARD BOTTOM BAR	
5. STANDARD SIDE GUIDES (WITHOUT GUIDES ONLY ON SC60 MODEL)	
6. FIX DIRECTLY TO THE HEADBOX	

NOMENCLATURE
SC/SI/X/WIDTH/HEIGHT/X/60

JOB:

CUSTOMER:

SIZE: WIDTH [FT-IN] x HEIGHT [FT-IN]
[WIDTHmm x HEIGHTmm]

WEIGHT:
TBD

DATE: 2021-10-27

DRAWN BY: DAVID GUEVARA

QTY: XX UNITS

QUOTE NUMBER: M-XXXX

SCALE: DO NOT SCALE

FIRE CURTAIN TECHNOLOGIES
Smoke and Fire Curtains
5711 THOMAS ROAD
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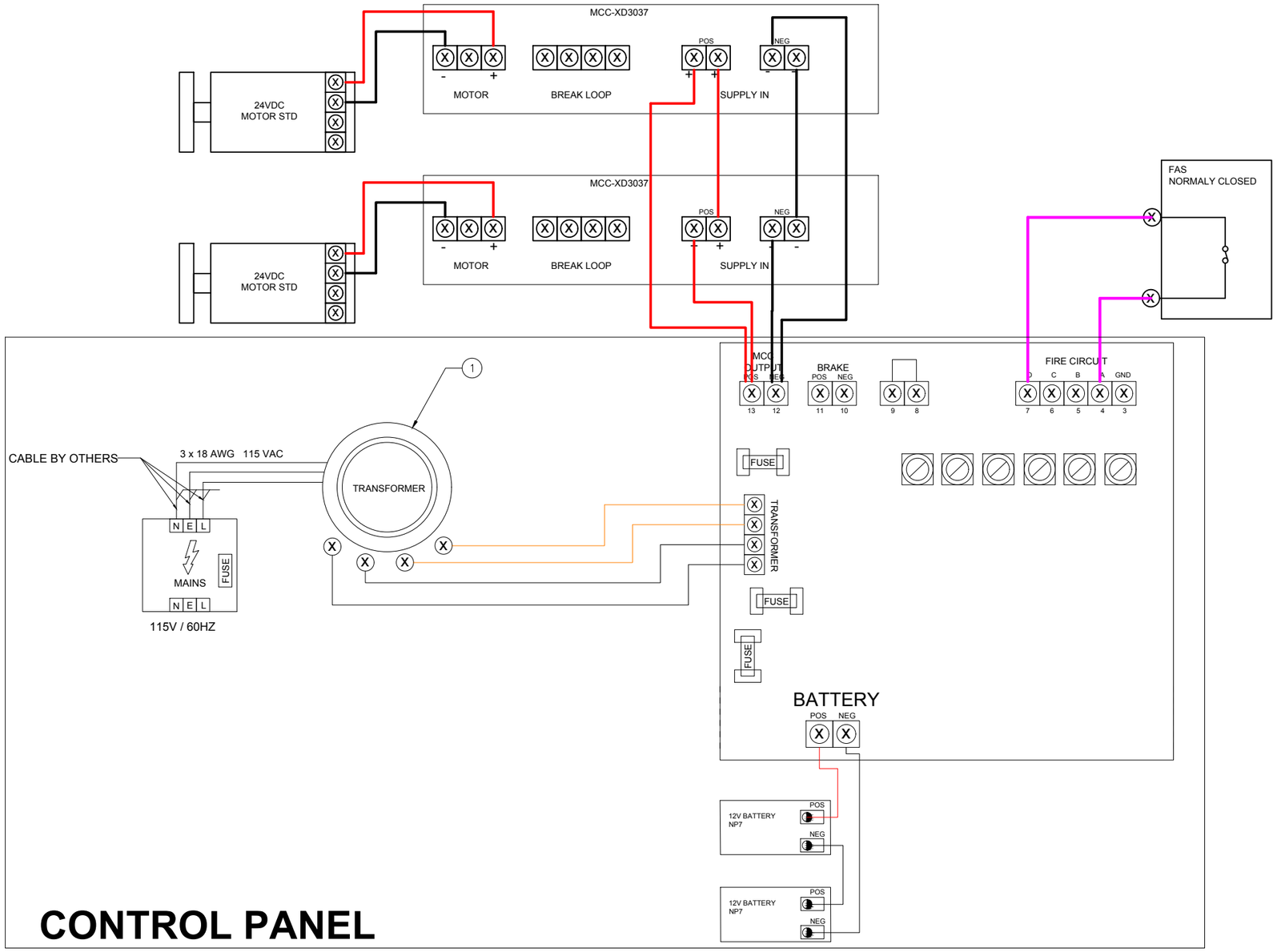
FIRE AND SMOKE CURTAIN
FC60-FC180-SC60

DRAWING NO.
34

RevNo	Revision note	Date	Signature	Checked



1. TRANSFORMER MODULE THAT CONVERTS VOLTAGE TO MAIN CONTROLLER (115 VAC TO 24VDC, 50/60 HZ)

SHOP FINISH:
RAL 7035 - LIGHT GREY

NOMENCLATURE GCP 1 CONTROL PANEL		QTY: XX UNITS	QUOTE NUMBER: M-XXXX	SCALE DO NOT SCALE
JOB:		FIRE CURTAIN TECHNOLOGIES Smoke and Fire Curtains	5711 THOMAS ROAD CANANDAIGUA NY 14424 (585) 412-2179 www.firecurtaintechnologies.com	
CUSTOMER:		CONTROL PANEL GCP-1		
SIZE: 16" x 13" x 4" [396mm x 334mm x 105mm]	WEIGHT: TBD			
DATE: 2021-11-19		DRAWING NO. 1/1		
DRAWN BY: DAVID GUEVARA				

UL Product iQ®

GSSN.R26410 - Fire-protective Curtains

Fire-protective Curtains

BLE SMOKE & FIRE CURTAINS LTD R26410
UNIT 3
HOLBROOK COMMERCE PARK
HOLBROOK RISE
SHEFFIELD, S20 3FJ United Kingdom

Fire-protective curtain, Model SC60, 1 hr fire rating.

Model SC60-G, 1 hr fire rating.

Model SC60-GM, 1 hr fire rating.

Model AC180 (SC180A/AC1), 2 hr fire rating when installed in gypsum and 3 hr fire rating when installed in masonry.

Model SC180-G, 2 hr fire rating when installed in gypsum and 3 hr fire rating when installed in masonry.

Model SC180-GM, 2 hr fire rating when installed in gypsum and 3 hr fire rating when installed in masonry.

Model FC60, 1 hr fire rating.

Model FC60-M, 1 hr fire rating.

Model FC180, 2 hr fire rating when installed in gypsum and 3 hr fire rating when installed in masonry.

Model FC180-M and FC180-ME, 2 hr fire rating when installed in gypsum and 3 hr fire rating when installed in masonry, can also be used in combination with "E" suffix for egress option.

With the exception of Model AC180 (SC180A/AC1), all other above Models may be used with suffix "R" - ResQ-WindowTM Vision Panel)

The products below have been additionally investigated to ANSI/UL 1784

Fire-protective curtain, Model SC60GS, 1 hr fire rating.

Model SC60-GSM, 1 hr fire rating.

Model SC180-GS, 2 hr fire rating when installed in gypsum and 3 hr fire rating when installed in masonry.

Model SC180-GSM, 2 hr fire rating when installed in gypsum and 3 hr fire rating when installed in masonry.

Model FC60-S, 1 hr fire rating.

Model FC60-SM, 1 hr fire rating.

Model FC180-S, 2 hr fire rating when installed in gypsum and 3 hr fire rating when installed in masonry.

Model FC180-SM and FC180-SME, can also be used in combination with "E" suffix for egress option. 2 hr fire rating when installed in gypsum and 3 hr fire rating when installed in masonry.

All above Models may be used with suffix "R" - ResQ-WindowTM Vision Panel)

The products below have been additionally investigated to UL 723/ASTM E84

	Flame Spread Index	Smoke Developed Index
FC60 Series+	0	0
FC240 Series+	0	0
SC60 Series+	0	0
SC180 Series+	0	0

+ Except models with suffix “R” – ResQ-Window™ Vision Panel

Tradename and/or Trademark : BLE SMOKE AND FIRE CURTAINS

Last Updated on 2021-11-19

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FIRE CURTAIN TECHNOLOGIES
Smoke and Fire Curtains

RESQ-WINDOW
FIRE PROTECTIVE CURTAIN WITH VISION PANEL

CODE REFERENCES

- 2006/2009/2012 IBC Section 909
- 2009 IBC Section 711.5.2
- 2012 IBC Section 710.5.2.2
- NFPA 105 Installation of Smoke Control Door Assemblies
- NFPA 252 Standard Methods of Fire Tests of Door Assemblies

STANDARDS

Tested and approved by Underwriters Laboratories LLC to Standards

UL10D Fire Tests of Fire Protective Curtain Assemblies
UL1784 Air Leakage Tests of Door Assemblies and Other Opening Protectives
UL864 Control Units and Accessories for Fire Alarm Systems
UL723: Test for Surface Burning Characteristics of Building Materials

firecurtaintechnologies.com 585-412-2179 info@firecurtaintech.com

ResQ-WINDOW

FOR SAFER AND FASTER EVACUATION, THE FIRE PROTECTIVE SMOKE CURTAIN WITH VISION PANEL

FEATURES

- Multiple control options
- Provision of fire compartments and refuges
- Excellent replacement for fire doors
- Provision of a protected means of escape
- 3 hrs integrity and 2 hrs radiation

CONTROL OPTIONS

- Two-stage Descent
- Delayed Descent
- Audio Visual Alert
- Obstruction Sensors
- Connection to Building Management System (BMS)

Applications: Elevator shaft, elevator lobbies, cross corridors, emergency exits, and any area that requires surveying from rescue services

RESQ WINDOW - VISION PANEL FOR FIRE CURTAINS

The industry's first UL certified vision panel that allows building occupants and first responders to see through the fire curtains after deployment for safer and faster evacuation

- Vision panel assists in faster identification and elimination of the source of fire, helping to save lives
- Vision panel allows for safer entry into affected areas of the building and safer evacuation
- High-strength material with no surface-flaming or toxic gas release when exposed to fire
- Install to any standard fire curtain to provide greater levels of safety to your fire safety systems
- Withstands temperatures of up to 1700°F
- Offers a minimum of three hours of fire integrity (E)
- Fully UL certified

FIRE PROTECTIVE SMOKE CURTAIN FC WITH VISION PANEL

Manufactured to the highest standards, fire curtains FC2 are discreet in design and robust and reliable in fire scenarios.
All the Deployable Fire Protective Curtains FC are UL recognized and labeled.

KEY SPECIFICATIONS

Headbox	1/32" galvanized mild steel with 1/16" end caps
Rollers	3" coated mild steel tube
Motors	24V DC
Bottom Bar	3/4" x 3/4" - 3/4" x 1 5/8" mild steel
Side Guides	100 x 50 rolled steel
Vision Panel	Silicone-coated fabric size 14" x 11"

THE SYSTEM INCLUDES:

Headbox and fabric

The system comprises a **glass fiber fabric** wound around a steel tube that incorporates a 24V permanent magnet roller. The roller assembly is encased in a galvanized steel **headbox**, which can be fixed directly to the building's structure.

Bottom bar

A standard **bottom bar** consisting of twin steel angles is used to ensure the curtain deploys under gravity in a controlled manner (Gravity Fail-Safe).

Side guides

The Fire curtains can be supplied with or without side guides.

OPTIONS

RAL colors

The headbox, side guides, and bottom bar can be powder coated in any RAL color as an optional extra or can be supplied in stainless steel.

Egress door

Model FC2 curtains are also available with an egress door, with full UL approval. The FC2 utilizes a split bottom bar, and partial fastening between the fabric overlaps to allow safe egress through the curtain when the curtain is deployed.