U.S. SMOKE & FIRE®

HOSE STREAM 180® FIRST RESPONDER

STEEL-TEX® FIRE SHUTTER WITH EGRESS

www.ussmokeandfire.com
www.ussmokeandfirecurtain.com
888.917.8777

GENERAL DESCRIPTION:

The HOSE STREAM **180®** First Responder is a deployable Steel-Tex® fire shutter system composed of a wired reinforced Steel-Tex on a round steel tubes in a multiroller configeration as a fire rated assembly. The Steel-Tex fire shutter remains retracted above the finished ceiling until activated by fire alarm or smoke alarm at which point it descends at 6 in/sec. and creates a smoke and fire barrier. The system consists of:

- A roller assembly with a 0.05 in. thick galvanized steel head box with a minimum 12 in. x 12 in. dimension. Maximum span up to 150 ft. and drop height of 46 ft.
- A motor controller (MC) is housed in a steel enclosure and mounted onto the motor end of the head box. NFPA 70 compliant DC motor interfaced with Control Panel (CP) and a suitably weighted bottom bar. Internal motor system.
- Removable fire rated cover plates incorporated to allow access to shutter roller.
- Shutter passes through fire rated galvanized steel aside guides that are factory primed and can be painted in the field by others.
- If required, egress switches can be provided on both sides of shutter when shutter is in the path of egress.
- Tested at Guardian Fire Testing Laboratories. Accreditation
  ISO 17025 (testing)
  ISO 17020 (inspection)
  ISO 17065 (production certification)

STANDARDS:

The HOSE STREAM **180®** First Responder

- Tested in accordance to UL 10B and ASTM E2226 (Hose Stream Test) for **180** minutes. Certified by Guardian.
- NFPA 252 Compliance. Certified by Guardian
- UL864 Releasing Device USA & Canada 110V or 220V - Certified by Intertek.

PERFORMANCE:

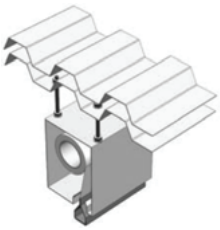
- Hose Stream **180®** First Responder is utilized for openings for up to a 2 hour fire wall or fire barrier per IBC 715.3
- First Responder Egress per NFPA 101
- Building Management System Relay per UL 864
- Beam Obstruction Sensor Option
- Leading Edge Safety Sensor option
- Fail Safe battery backup Standard
- Up Buttons on Wall or Side Guide option
- Membrane Switch directly on Steel-Tex® option
- Delayed Descent or Two stage Descent Option
- Confirmation of bottom bar full descent to floor option

Hose Stream Application Does Not Open First Responder Door

After Hose Stream Test First Responder Door Intact

HEADBOX INSTALLATION OPTIONS

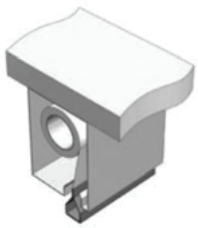
There are many installation options that suit all types of ceiling configurations and provide a broad array of flexibility.



Unistrut Installation

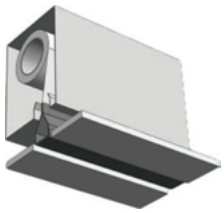
I Beam

Back Mounted



Top Mounted

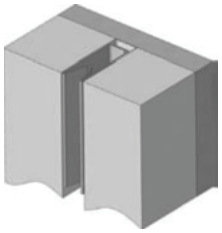
FINISHED CEILING OPTIONS



Shadow Gap

SIDE GUIDE CONFIGURATION

The side guide is recessed flush as shown below:



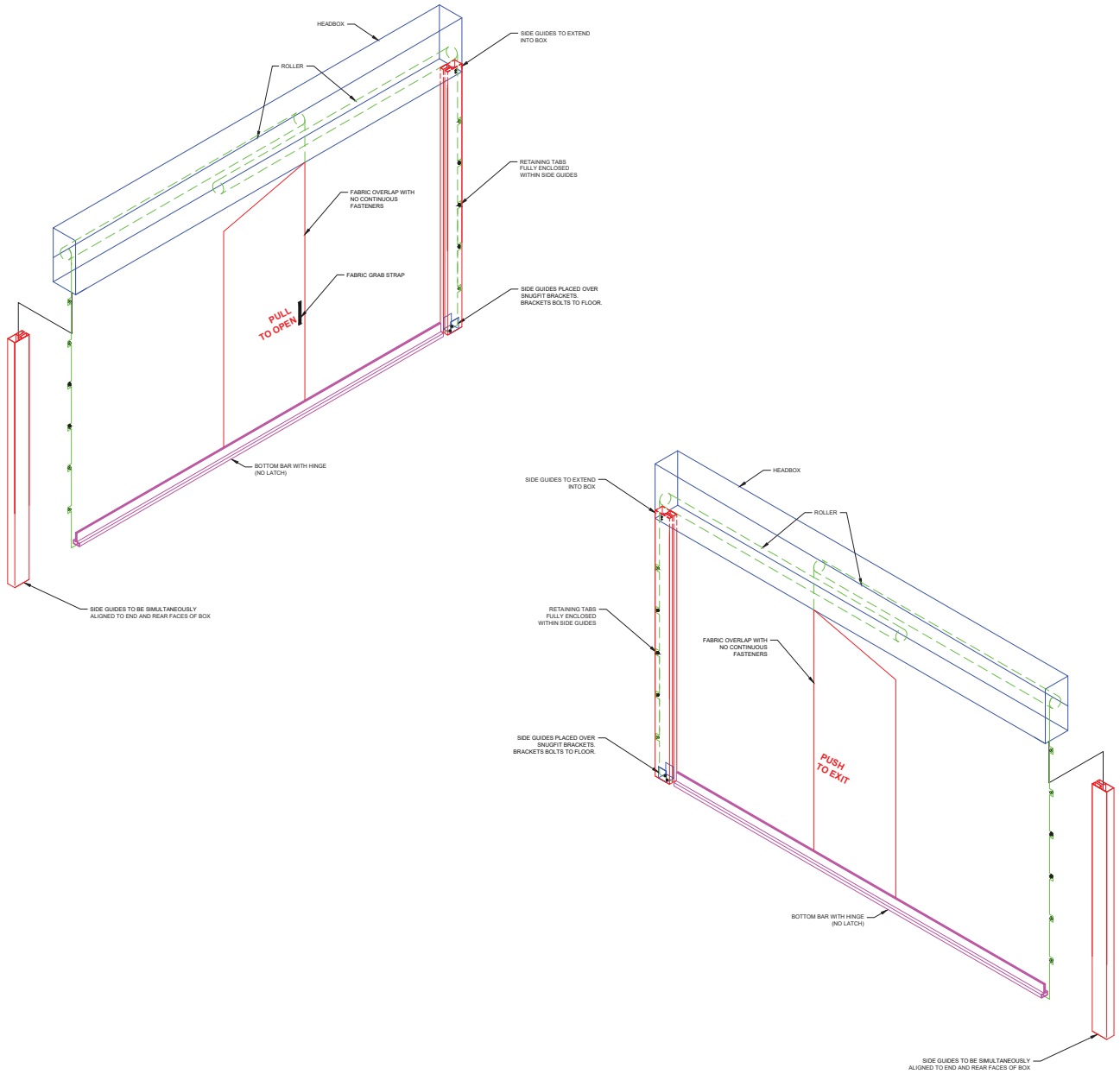
Flush

CONTROL PANEL (CP):

The Steel-tex® fire shutter deployment mechanism is directly synced and integrated in the fire alarm emergency systems.

When an alarm signal is detected, the Control Panel (CP) will automatically trigger the shutter systems to deploy in a controlled descent under gravity. In normal operating conditions the CP provides AC supply to the Motor Controller (MC) to keep the shutters in retracted condition. Should smoke be detected, the fire alarm control system will send a signal to the CP and the shutters will deploy at a controlled speed to their operational position. When the fire alarm system goes back to normal power mode, the shutters will automatically retract back to the housing.

STEEL- TEX FIRE SHUTTER DIAGRAM



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12310 Pinecrest Road, Suite 300, Reston, VA 20191 • Phone: 888.917.8777 • Fax: 888.917.8777
Washington, DC • Boston • New York • Miami • Dallas • San Francisco
www.ussmokeandfire.com • aeteam@ussmokeandfire.com

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