



GENERAL DESCRIPTION:

Electrically operated automatic smoke containment barrier that provides smoke and fire protection for a variety of applications: multilevel atria smoke control, opening protective, smoke barriers.

- A single or multiple roller headbox assembly with a 0.05 in. thick galvanized steel, curtain head box. Maximum span of curtain up to 146 ft. in length and drop height of 45 ft.
- Removable cover plates are incorporated to allow access to the curtain rollers.
- Standard head box sizes are 6" x 6" for single rollers (maximum curtain length of 20') and 10" x 6" for multiple rollers (over 20" curtain length). Larger head boxes may be required where the curtain drops are in excess of 10'.
- Weighted bottom bar is provided to prevent deflection and ensure correct operation under gravity.
- Rollers are constructed from round tubes which will incorporate a 24V D.C. motor and gearbox and a sealed heavy duty ball bearing assembly.
- A motor controller (MC) is housed in a steel enclosure and remote located above a ceiling access panel or removable ceiling tiles.
- Descent speed is controlled by back electromagnetic force for each curtain at $6 \leq S \leq 24$ in./sec A suitably weighted bottom bar at bottom of the box
- Fabric curtain is manufactured from X32K woven glass or C41000WK fiber cloth incorporating a 'Panama' weave. The woven glass fiber fabric curtain has a nominal weight ≥ 540 g/m² and is UL listed ≥ 1 hr.
- Fail Safe Design with battery back-up standard, NOT Required for Gravity Fail Safe Deployment.



STANDARDS:

- NFPA 80 Chapter 20:2007
- NFPA 92B
- NFPA 105 Compliance
- Tested to UL 10D (1 hour)
- Tested to UL 864
- Tested to UL 10B - 20 mins with no hose
- Tested to UL 10C - 20 mins with no hose

PERFORMANCE:

- 1-hour Fire rated at 1800°F for UL 10D
- 2000 cycles at normal ambient temperatures in the range (32°F - 1112°F) and can withstand hot air and smoke at temperatures at UL 10D Time Temperature curves.
- Fabric area density ≥ 540 g/m² for temperature $\leq 1800^\circ\text{F}$ for a period of 1 hr.
- The tensile strength of Panama weave fabric is 10% \geq , with 415g/m² glass cloth with a 20g/m² micronized aluminum polymer coating on each side of the fabric.

LEED CERTIFICATION

CORE & SHELL

- Indoor Environmental Quality
 - Credit 2: Increased Ventilation
 - Credit 4.2: Low Emitting Material
 - Credit 5: Indoor Chemical & Pollutant Control
 - Credit 8: Daylight and Views
- Innovation & Design Process
 - Credit 1.1: Innovation in Design

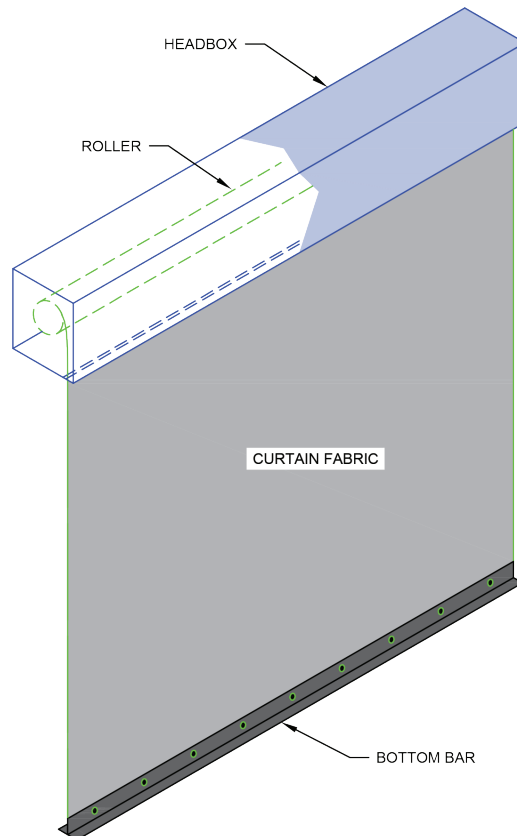
SIZES:

CURTAIN DROP	SINGLE BOX	DOUBLE BOX SIDE BY SIDE	DOUBLE BOX OVER/UNDER
Down to 9'10"	6" x 6"	10" x 6"	6" x 10"
Down to 26'3"	7" x 7"	12" x 7"	7" x 12"
Down to 39'4"	8" x 8"	14" x 8"	8" x 14"

LOADS:

- Structural Load: 10-15 lbs./ linear ft.
- Structural Load- Unistrut mount 3/8 threaded rods 4' on center- slab mount or to C channel framing
- Electrical Load- 20 amp dedicated circuit can operate up to four group control panels

SMOKE CURTAIN DIAGRAM



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