LISTING INFORMATION OF Smoke Guard® Model 1500

SPEC ID: 23859

Smoke Guard, Inc.
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Boise, ID 83704

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Product Covered:

Smoke Guard Model 1500

Product Description:

The Smoke Guard system Model 1500 (M1500) is a smoke- and draft-control assembly that is limited to use in smoke rated partition construction (IBC 710). The M1500 consists of a smoke rated curtain, made of a specially coated para-aramid material and contained in a housing located above the ceiling. The smoke rated curtain is secured on each side by continuous vertical containment loops that pass over vertical guide rods secured by guides anchored to the side walls and contained within guide assemblies. The curtain assembly is equipped with a bottom bar that functions to seal the curtain at the floor and also has an edge sensor used to detect obstructions to the deploying curtain. The system is typically mounted above the ceiling and anchored to a box beam or other wall assembly extending from the deck above. The guides are secured to the walls on either side of the opening.

The system is deployed upon a signal from the local smoke detection system located in the elevator lobby, corridor, or atrium being protected. The system is powered down and powered up by 120-volt AC power. The unit is also equipped with a battery back-up system that is recharged from the electronic controls. The electronic controls have battery monitoring, system diagnostic and fault deploy features.

Egress is obtained by means of two wall switches mounted near the curtain on each side. Pressing the switch retracts the curtain back up into the housing momentarily. The curtain then redeploys if the system is still in alarm. After the smoke detector clears, the curtain automatically retracts to the ready position. In the case of complete power, AC and battery, failure while deployed, the system provides a means for manual egress.

A representative sample of the product was tested in accordance with the following Standards at Intertek:

Test Method	Property	Results
ICC-ES AC77 (2007), Section 3.4.5	Cyclic Movement of Smoke Curtain Systems (100 cycles)	Complies
UL 1784	Max. air leakage: <3 cfm per sq. ft. of opening at 0.3 in. of w.c. pressure differential @ ambient 96°F.	Complies
	Max. air leakage: <3 cfm per sq. ft. of opening at 0.3 in. of w.c. pressure differential @ 400°F.	Complies
AS 1530.7	Air leakage at: 0.04 in. 0.1 in. 0.2 in. of w.c. pressure differential @ ambient 15°C (59°F).	0.45 0.58 0.92 cfm /sq. ft of opening

	Air leakage at: 0.2 in. @30-35 min. 0.1 in. @35-40 min. 0.04 in. @40-45 min. 0.2 in. @60-65 min. 0.1 in. @65-70 min. 0.04in. @70-75 min. of w.c. pressure differential @ 200°C (392°F).	1.44 0.78 0.57 1.60 0.88 0.58 cfm /sq. ft of opening
ICC-ES AC77 (2008), Section 3.4.3	Cyclic Movement of Smoke Curtain Systems (100 cycles)	Complies

Quality Control Manual can be found in the 'Documents' list of the Quality Control Information area on the 'Descriptions' tab.

Attribute	Value
CSI Code	08 30 00 Specialty Doors and Frames
CSI Code	08 34 00 Special Function Doors
Listed or Inspected	LISTED
Report Number	3139259SAT-002 Rev 2; 3139259SAT-008 Rev 1; 3139259SAT-009 QCM; 3139259SAT-013; 3178607SAT-002; 3178607SAT-003
Criteria	UL 1784 (2004)
Criteria	ICC-ES AC77 (2007)
Criteria	AS 1530.7 (2007)
Criteria	ICC-ES AC77 (2008)
Smoke and Draft Control	Smoke Leakage < 3 cfm/sq ft per UL 1784
Intertek Services	Certification
Listing Section	CATEGORY I - SMOKE & DRAFT CONTROL DOOR ASSEMBLIES