

## PROPRIETARY ITEM: SMOKEHALT DRAFT CURTAIN

### PART 1 - GENERAL

#### 1.01 SUMMARY

- A. Section Includes:
  - 1. Lightweight smoke compartmentation
  - 2. Bottom weight bar
  - 3. For aircraft hangers, warehouses, manufacturing plants
- B. Related Requirements:
  - 1. Load Bearing Header Structure
  - 2. Side edge restraint
  - 3. Finish: Powder coating of specified components.

#### 1.02 REFERENCES

- A. National Construction Code:
  - 1. NCC 2014/2015
- B. Standards:
  - 1. AS1530.7 – Methods for fire tests on building materials, components and structures, Part 7 -
  - 2. Smoke control assemblies – ambient and medium temperature leakage test procedure
  - 3. EN12101.1 – Smoke and heat control systems. Specification for smoke barriers
  - 4. AS3837– Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter

#### 1.03 SUSTAINABLE DESIGN REQUIREMENTS

- A. ESD: Comply with sustainable design requirements including, without limitation, submittal and documentation requirements.
- B. Credit/Point Goals Applicable To This Section: In addition to global project credit/point goals:
  - 1. Materials & Resources - construction waste management
  - 2. Materials & Resources - recycled content
  - 3. Materials & Resources - regional materials
  - 4. Indoor Environmental Quality - construction IAQ management plan

#### 1.04 SUBMITTALS

- A. Comply with Submittal Procedures:
  - 1. Manufacturers Product data
  - 2. Shop drawings:
    - a. Shutter location and unique identification number
    - b. Include opening dimensions
    - c. Show and identify related work performed under other sections of the specifications
  - 3. Quality Assurance/Control Submittals:
    - a. Site Inspection and Test Plan.
    - b. Manufacturers ISO 9001 Certificate of Accreditation

## 1.05 CLOSEOUT SUBMITTALS

- A. Comply with Project Closeout:
  - 1. Certificate of Compliance.
  - 2. Operation and maintenance manual.
  - 3. Manufacturer's warranty.

## 1.06 QUALITY ASSURANCE

- A. Certifications:
  - 1. Manufacturers Certificate of Compliance
- B. Pre-Installation Meeting:
  - 1. Schedule and convene a pre-installation meeting prior to commencement of field operations with representatives of the following in attendance: Owner, Architect, General Contractor, certifier
  - 2. Review substrate conditions, requirements of related work, installation instructions, storage and handling procedures, and protection measures.
  - 3. Document the responsibilities of various parties and deviations from specifications and installation instructions.

## 1.07 DELIVERY, STORAGE, AND HANDLING

- A. Comply with project delivery, storage, and handling requirements.
- B. Comply with manufacturer's instructions.

## 1.08 WARRANTY

- A. Provide manufacturer's standard one year warranty for Defect Liability Period.
- B. Maintenance and Testing:
  - 1. Provide Commissioning documentation including Project name, project address, location and curtain number, observations, comments (eg: curtain out of alignment), notes (eg: curtain alignment repaired), Pass/fail.
  - 2. Re-certification after the defect liability period

## **PART 2 - PRODUCTS**

### 2.01 MANUFACTURED UNITS

- A. Proprietary item; Model SmokeHalt Draft Curtain.
- B. Manufacturer:
  - 1. Smoke Control Systems Pty Ltd
  - 2. Distributed by Smoke Control Systems Pty Ltd, 26 Ferndell St, South Granville, NSW 2142, Australia [www.smokecontrol.com.au](http://www.smokecontrol.com.au)
- C. Label each fire curtain with following information:
  - 1. Manufacturer's name and contact details.
  - 2. Curtain location and unique identification number
  - 3. Rating
  - 4. Date of installation

## 2.02 DESIGN CRITERIA

- A. Top restraint system; steel angle
- B. Side guide restraint system; steel angle
- C. Fabric type; 440g/m<sup>2</sup> woven fiberglass fabric
- D. Bottom bar; 50mm triangular weight
- E. Finishes; Dulux Duralloy colour range (Standard)
- F. Load requirements at head = 10-15 kg/m of width
- G. Load requirements at sides = 15kg/m of height
- H. Mounting orientation
  - 1. Installation Configuration: Fabric attached directly to substrate.
  - 2. Fabricate and install mounting brackets, hardware, and fasteners needed to attach curtain assembly to building structure.

## 2.03 PERFORMANCE CRITERIA

- 1. Permeability;
- 2. Spread of flamibility;
- 3. Group Number for fabric: 1 when tested in accordance with AS3837
- 4. Durability; light duty

## 2.04 COMPONENTS

- A. Curtain: fiberglass interweave and coated on a single side with polyurethane.
- B. Bottom Bar: Triangular with (optional concealed weights)

# PART 3 - EXECUTION

## 3.01 EXAMINATION

- A. Examine substrates upon which work will be installed.
  - 1. Verify related work performed under other sections is complete and in accordance with shop drawings.
  - 2. Verify wall surfaces are acceptable for installation of fire shutter system components
  - 3. Verify setout point locations.
- B. Coordinate with responsible entity to perform corrective work on unsatisfactory substrates.
- C. Commencement of work by installer is acceptance of substrate.

## 3.02 INSTALLATION

- A. Install curtain system components in accordance with manufacturer's installation instructions.

## 3.03 FIELD QUALITY CONTROL

- 1. Complete Inspection and Test Plan

END OF SECTION