Product Name and Model:

COOPERS SMOKESTOP® DRAFT CURTAINS

PART 1 GENERAL

- 1.01 GENERAL REQUIREMENTS
- A. Provide all materials, labour, equipment and services necessary to furnish, deliver and install all work under this section as shown on the contract documents, specified herein, and as specified by the job conditions.
- 1.02 DESCRIPTION
- A. Related work specified elsewhere:

1. Metal Fabrication.	Section 05 50 00
2. Rough Carpentry.	Section 06 10 00
3. Access Panels & Doors:	Section 08 31 00
4. Painting:	Section 09 91 00
5. Electrical:	Division 26

- 1.03 SUBMITTALS
- A. Procedures: Furnish submittals in accordance with the general requirements specified.
- B. Shop Drawing: Furnish shop drawings for architect's approval. Include elevations, sections, and details indicating dimensions, materials, finishes, conditions for anchorage and support of each deployable draft curtain.
- C. Product Literature: Submit manufacturer's technical literature describing the product to be used under this section.
- D. Maintenance and Operating Manuals: Furnish complete manuals describing the materials, devices and procedures to be followed in operating and maintaining all of the deployable draft curtains under this section. Include manufacturer's brochures and parts lists describing the actual materials used in the product.
- E. Product Approval Reports: Submit copy of manufacturer's Listing Report and Authorization To Mark clearly detailing the description of product, test results and test conclusions of the test criteria as conducted and witnessed by a United States accredited testing laboratory such as Underwriters Laboratories (UL) or Intertek-Warnock Hersey (Intertek). Testing agency's Listing Report shall clearly state that the smoke rated curtains have been tested and approved to the standards and criteria of UL 1784 Smoke & Draft rating.
- 1.04 QUALITY ASSURANCE
- A. Deployable Draft Curtain Assemblies: Provide all deployable draft curtains with smoke resistance rating required to comply with governing regulations which are inspected, tested, listed and labelled by UL or Intertek and complying with NFPA 105 for class of opening. Provide units tested, approved and labelled under the UL 1784

standard. Provide testing agency label permanently fastened to each deployable draft curtain assembly as evidence of product compliance.

- B. Oversize Assemblies: Where units exceed the testing laboratory's label size, an Oversize Certificate label issued by either UL or Intertek shall be provided and permanently fastened to each smoke curtain assembly as evidence of product compliance. Oversize assemblies requiring the joining of curtain sections together on site by the installer must require documented field certification by UL or Intertek.
- C. Regulatory Requirements: Comply with applicable requirements of the laws, codes, ordinances and regulations of federal, state and municipal authorities having jurisdiction.
- 1.05 DELIVERY, STORAGE AND HANDLING
- A. General: Deliver and store materials in manufacturer's original packaging, labelled to show name, brand and type. Store materials in a protected dry location off the ground in accordance with manufacturer's instructions.
- 1.06 WARRANTY
- A. Deployable Draft Curtain Warranty: Furnish one (1) year written warranty signed by the manufacturer and installer agreeing to repair or replace work which has failed as a result of defects in materials or workmanship. Upon notification within the warranty period, such defects shall be repaired at no cost to the owner.

PART 2 PRODUCTS

- 2.01 DEPLOYABLE DRAFT CURTAINS
- A. Manufacturer: Deployable draft curtains shall be the Coopers SmokeStop® Draft Curtain model as manufactured by Coopers Fire Ltd. Edward House, Penner Road, Havant, Hampshire, PO9 1QZ, United Kingdom.
- 2.02 MATERIALS
- A. Curtain: Shall be of EFP[™] 4/1000/PU type reinforced fabric curtain, consisting of a satin fiberglass fabric with integral stainless steel wire weave and retardant polyurethane coating. Curtain shall nominally be 0.65 mm ±0.05 mm thick.
- B. Bottom Bar: Shall consist of two (2) sections of folded 2.0 mm (14 gauge) galvanised angles formed into a triangular shape to fit the curtain, provide stiffness and limit deflection and allow for a tight fitting closure. Bottom bar shall be designed of adequate size and weight to keep the curtain fully extended, taut and level when the unit is activated to the self-closing position while preventing any deflection caused by the building's air pressure currents.
- C. Guide Assemblies: Each side guide assembly shall be fabricated of folded 2.0 mm (14 gauge) galvanised steel mounting adjustment angle or channel with an integral pressure retaining side guide with nominal 90 mm to 100 mm depth. Each pressure retaining guide shall be fitted with UL approved and classified smoke seals.

- D. Mounting Brackets: Fabricated of minimum 2.0 mm (14 gauge) galvanised plates, brackets shall be provided to house and support ends of the barrel assembly.
- E. Hood: Shall be provided to entirely enclose curtain and barrel assembly. Hood shall be fabricated of minimum 1.2 mm (18 gauge) galvanised steel formed to match brackets. Top and bottom shall be bent and reinforced for stiffness. Hood shall be fitted with UL approved and classified smoke seals.
- F. Barrel Assembly: Fabricated of structural quality ERW galvanised steel seamless roller tube of sufficient size and diameter to house operating motor drive, support curtain assembly and limit horizontal deflection of the deployable draft curtain assembly.
- G. Motor Drive Unit: Deployable draft curtains shall be powered by an inboard 24 volt DC motor including gearbox assembly, electromechanical distance travel limit switches all linked to an internal 24 volt DC electromagnetic brake which allows the curtain to remain operational even during the loss of power to the motor drive unit.
- H. Fail-Safe Release Device: A fail-safe release device shall be built into the motor drive unit as an integral part of the release mechanism. When power is interrupted to the release mechanism by an alarm condition, the deployable draft curtain shall automatically self-close. In the event of power failure the time delay shall prevent the deployable draft curtain from closing for a predetermined programmable period of 30 minutes, unless there is an alarm condition at which point the deployable draft curtain shall immediately self-close. Once the predetermined programmable period of 30 minutes has lapsed, the deployable draft curtain shall self-close. Once power has been restored and the alarm condition has been cleared, the release mechanism shall automatically reset and the deployable draft curtain shall immediately become operable.
- I. Easy Trip Test Feature: The deployable draft curtain shall be designed so that it may be trip tested simply by activating the Turn-Test switch. By turning the Turn-Test switch to the "off" position, the deployable draft curtain shall automatically self-close. Once the deployable draft curtain assembly has satisfactorily closed, it shall be reset simply by turning the Turn-Test switch back to the "on" position. No ladders, tools or special equipment shall be required to test or reset the deployable draft curtain.
- J. Finish: All surfaces galvanised steel. Powder coated finish available on request.

PART 3 EXECUTION

- 3.01 EXAMINATION
- A. Examine surfaces and field conditions to which this work is to be performed and notify architect if conditions of surfaces exist which are detrimental to proper installation and timely completion of work.
- B. Verify all dimensions taken at job site affecting the work. Notify the architect in any instance where dimensions vary.
- C. Coordinate and schedule work under this section with work of other sections so as not to delay job progress.

3.02 INSTALLATION

- A. Perform installation using only factory approved and certified representatives of the deployable draft curtain manufacturer.
- B. Install deployable draft curtain assemblies at locations shown in perfect alignment and elevation, plumb, level, straight and true.
- C. Adjust deployable draft curtain installation to provide uniform clearances and smooth non-binding operation.
- D. Install wiring in accordance with applicable local codes and the National Electrical Code Standard. Materials shall be UL listed.
- E. Test deployable draft curtain closing sequence when activated by the building's fire alarm system. Reset fire and smoke curtain after successful test.
- 3.03 PROTECTION AND CLEANING
- A. Protect installed work using adequate and suitable means during and after installation until accepted by owner.
- B. Remove, repair or replace materials which have been damaged in any way.
- C. Clean surfaces of grime and dirt using acceptable and recommended means and methods.

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