

## **SECTION 08330 OVERHEAD COILING GRILLES AND DOORS**

### **ROLLING SHUTTERS**

#### THREE PART SHORT FORM SPECIFICATIONS (CSI)

##### Part 1 – General

###### 1.01

A. Supply and install rolling shutters manufactured by Amstel Manufacturing  
(Tel: 1-800-663-6206, (905) 850-7122, Fax: 905-850-7336)

B. Related Sections:

1. Section 08330: Rolling Wood Shutters  
Rolling Grilles
2. Section 08350: Folding Grilles

###### 1.02 Exclusions:

Structural or other preparation of the opening to receive the guides and shutter, finish or trim to the opening.

##### Part 2 – Products

**[CHOOSE ONE OR MORE]**

###### 2.01 Model:

A. Rolling Aluminum Shutter as manufactured by Amstel Manufacturing  
(Tel: 1-800-663-6206, (905) 850-7122, Fax: 905-850-7336)

###### 2.02 Curtain:

A. Construct of interlocking extruded aluminum slat sections 0.050” thick, 1/2” deep and individually 1-1/4” high, with an overall width sized to suit door opening.

##### **[OR]**

###### 2.01 Model:

B. Rolling Stainless Steel Shutter as manufactured by Amstel Manufacturing  
(Tel: 1-800-663-6206, (905) 850-7122, Fax: 905-850-7336)

###### 2.02 Curtain:

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- B. Construct of interlocking 22 gauge stainless steel slat sections 1/2” deep and individually 1-1/4” high, with an overall width sized to suit door opening.

**/OR/**

2.01 Model:

- C. Rolling Steel Shutter as manufactured by Amstel Manufacturing (Tel: 1-800-663-6206, (905) 850-7122, Fax: 905-850-7336)

2.03 Curtain:

- C. Construct of interlocking 22 gauge steel slat sections 1/2” deep and individually 1-1/4” high, with an overall width sized to suit door opening.

2.04 Materials:

- A. Aluminum is to be 6063 aluminum alloy with T-5 temper.
- B. Stainless steel is to be Type 304.
- C. Steel is to be 22 GA. satin coat galvanized steel.

2.05 Locking:

- A. Members are to be horizontal bottom bars of tubular aluminum extrusion 1-1/4” in width and 2” in height. Manufacturer’s standard is slide-bolt lock at each end of bottom bar on coil side. Optional locking: master-keyed cylinder(s) on one or both sides.
- B. Members are to be horizontal bottom bars of tubular stainless steel 2-1/8” in width and 2-1/4” in height. Manufacturer’s standard is slide-bolt lock at each end of bottom bar on coil side. Optional locking: master-keyed cylinder(s) on one or both sides.
- C. Members are to be horizontal bottom bars of tubular aluminum extrusion 1-1/4” in width and 2” in height. Manufacturer’s standard is slide-bolt lock at each end of bottom bar on coil side. Optional locking: master-keyed cylinder(s) on one or both sides.

2.06 Guides:

- A. Members are to be 1-1/4” wide by 1-3/4” deep extruded aluminum guide sections with built-in upset shoulders to provide curtain retention. Each guide to be fabricated with a bell mouth to provide smooth curtain operation. Mount steel stoppers to guides to prevent roll over and travel above finished bulkhead/soffit. Guides shall be fitted with a wool pile wear strip on the outside face and a rigid P.V.C. stripping on the interior face to ensure smooth and quiet operation and reduce wear. Fasten guides to masonry or structural supports with concealed fasteners at max. 2’-0” O.C.. Cont’d...

- B. Members are to be 16 GA. brake formed stainless steel guides. Fasten to masonry or structural supports with fasteners at max. 2'-0" O.C..
- C. Members are to be 1-1/4" wide by 1-3/4" deep extruded aluminum guide sections with built-in upset shoulders to provide curtain retention. Each guide to be fabricated with a bell mouth to provide smooth curtain operation. Mount steel stoppers to guides to prevent roll over and travel above finished bulkhead/soffit. Guides shall be fitted with a wool pile wear strip on the outside face and a rigid P.V.C. stripping on the interior face to ensure smooth and quiet operation and reduce wear. Fasten guides to masonry or structural supports with concealed fasteners at max. 2'-0" O.C..

2.07 Shaft:

Construct of standard pipe of adequate diameter to prevent deflection exceeding 0.03" per foot of door width. Shaft shall enclose oil tempered helical torsion springs of a design to ensure proper counterbalancing action with 25% overload factor. Springs shall be mounted on shaped anchors mounted on a single solid torsion rod. Spring tension adjustment shall be by means of an adjusting wheel and pin on the outside of the bracket plate.

2.08 Bracket Plates:

Construct of minimum 1/8" thick steel plate, prime painted "grey"

2.09 Hood:

- A. Construct of 0.040" clear anodized aluminum sheet, press-bent to form suitable coil enclosure.
- B. Construct of 24 GA. stainless steel sheet, press bent to form suitable coil enclosure.
- C. Construct of 24 GA. satin coat galvanized steel, press bent to form suitable coil enclosure.

2.10 Finish:

- A. Standard factory finish to be 0.0004" (10 micron) clear anodizing.
- B. Standard factory finish to be #4 polish.
- C. Standard factory finish to be prime painted "grey".
- D. Optional finishes: Consult Amstel Manufacturing

Cont'd...

### Part 3 – Execution

#### 3.01 Preparation and Examination:

Contractor shall make structural or other preparation of the opening to receive guides and shutter, provide finish or trim to the opening, construct finish or trim to the opening. Site preparations are to be detailed by approved shop drawings.

Verify opening dimensions by actual site measurements.

#### 3.02 Installation:

Install in accordance with the manufacturer's shop drawings and instructions.

#### 3.03 Maintenance:

The guides should be kept clean of dirt, particularly in the area of the bottom of the guide pocket where dust and dirt can accumulate. On both anodized aluminum and stainless steel curtains, the curtains should be cleaned at least once a year with a damp rag and a non-abrasive cleaner. For cleaning of finished steel curtains consult finish manufacturer for recommendations.

It is recommended that the shutter curtain balance should be checked on a yearly basis and the tension adjusted if necessary.

For motorized or crank operated shutters the chain should be lubricated four times a year.

#### 3.04 Warranty:

The standard warranty shall cover the repair or replacement of defective components or assembly labour for a period of one year following the installation of the shutter.

***SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE***