

## SECTION 08330 OVERHEAD COILING GRILLES AND DOORS

### A159MF ALUMINUM ROLLING GRILLE

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

##### Part 1 – General

- 1.01 A. Supply rolling grilles manufactured by Amstel Manufacturing, [www.amstel-doors.com](http://www.amstel-doors.com)  
Tel: 1-800-663-6206, (905) 508-0855, Fax: (905) 508-8487, 1-866-525-1304.
- B. Preparation of door opening, structural or miscellaneous ironwork, access panels, electrical wiring, conduit, disconnect switches, drywall and finish painting are in the scope of the work of other sections or trades.

##### Part 2 – Products

- 2.01. Model: A159MF as manufactured by Amstel Manufacturing.  
Curtain: Construct of 0.100" thick by 5/8" wide by 3-3/4" offset aluminum vertical links grommited together to support continuous horizontal 5/16" diameter aluminum rods. Vertical links shall be secured in place by 7/16" diameter aluminum sleeves over every fourth horizontal aluminum rod. Spacing of horizontal aluminum rods shall be 1-1/2" O.C.. Spacing of vertical aluminum links shall be at 9" O.C. or as optional 3" or 6" and will be specified by the fourth digit in the model number.
- 2.02. Aluminum Bottom Bar: Members are to be horizontal bottom bars of tubular aluminum extrusion 2" in width and 3" in height and 1/8" wall thickness. Manufacturer's standard is master-keyed cylinder(s) on one or both sides. Optional locking: thumb-turn cylinder(s) on one side. Optional lock protection is available for thumb-turn locking.
- 2.03. Guides: Members are to be 1-3/8" wide by 2-3/4" deep and 0.100" thick 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 end plate to prevent roll over and travel above finished bulkhead. Guides shall be fitted with a rigid P.V.C. strip to ensure smooth and quiet operation. Structural steel support to have minimum 3/16" thickness. Fasten guides to steel angles, HSS supports or HSS spacers with concealed fasteners at max. 2'-0" O.C..
- 2.04. Counterbalance: Construct of standard steel pipe of adequate diameter to prevent deflection exceeding 0.03" per foot of door width. Pipe barrel shall enclose oil tempered helical torsion springs of a design to ensure proper counterbalancing action with 25% overload factor. Spring tension adjustment shall be by means of an adjusting wheel and pin on the outside of the bracket plate.
- 2.05. Bracket Plates: Construct of minimum 3/16" thick steel plate, primer painted "gray".
- 2.06. Hood: Construct of 0.040" clear anodized aluminum sheet, press-bent to form suitable coil enclosure. Hoods and fascias will have maximum length of 144" per section. Steel channel fabricated hood supports will be provided for hoods and fascias that exceed 144" in width. In such cases the client is responsible for suitable support within the bulkhead. Hoods are not furnished for doors where coil is located above ceiling.  
Optional: construct of 24 gauge primer painted satin coat steel, press-bent to form suitable coil enclosure.
- 2.07. Finish: Aluminum is to be 6063 aluminum alloy with T-5 temper.  
Standard factory finish mill finish aluminum.  
Optional finish: none.

- 2.08. Operation: Manufacturer's standard is manual push-up operation. Optional hand-crank, chain-hoist or motor operation is available on most doors and for most mounting conditions. Depending on door model and size, manual push-up operation may be unsuitable and manufacturer will make recommendations. Door design is based on door specific conditions including but not limited to width, height and location. Motor operators will be sized based on the same conditions. Manufacturer provides tables for generalized sizing of components only.

### Part 3 – Execution

- 3.0. Preparation and Examination: Site preparations are to be detailed by approved shop drawings. Verify opening dimensions by actual site measurements. Contractor shall make structural or other preparation of the opening to receive guides and grille, provide finish or trim to the opening.
- 3.1. Installation: Install in accordance with the manufacturer's shop drawings and instructions. Structural steel support, where provided by Amstel, is not self-supporting and must be adequately secured during installation for proper and safe operation of the door.
- 3.2. 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 grille curtain balance should be checked on a yearly basis and the tension adjusted if necessary. For motorized or crank operated grilles the chain should be lubricated four times a year.
- 3.3.A. 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 grille.

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