

THREE PART SHORT FORM SPECIFICATIONS (CSI)

ARG209 Series Specifications

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ARG209AA ALUMINUM ROLLING GRILLE

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Rolling Grille – Overhead Rolling Door and Grille
- 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.

1.2 WARRANTY

- A. The standard warranty shall cover replacement of defective components or workmanship for a period of two years or specified cycles, whichever comes first, from the date of shipment.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Amstel Manufacturing (1993) Inc
128 Centre Street East, Richmond Hill, Ontario. L4C 1A6. Canada.
Ph. 1-800-663-6206 or 905-508-0855 Fx. 1-866-525-1304 or 905-508-8487
E. projects@amstel-doors.com
W. www.amstel-doors.com.
- B. Substitute products by the following manufacturers are accepted:
 - 1. McKinlay Door Sales
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.

2.2 MATERIALS

- A. ARG209 Aluminum Rolling Grille
 - 1. Curtain:
 - a. Construct of 0.100" (2.54 mm) thick by 5/8" (15.8 mm) wide by 2-3/4" (70 mm) flat aluminum vertical links grommated together to support continuous horizontal 5/16" (8 mm) diameter aluminum rods.
 - b. Vertical links shall be secured in place by 7/16" (11.12 mm) diameter aluminum sleeves over every sixth horizontal aluminum rod.
 - c. Spacing of horizontal aluminum rods shall be 2" (51 mm) O.C. Spacing of vertical aluminum links shall be 9" (228.6 mm) O.C. as designated by the fourth digit.
 - 2. Aluminum is to be 6063 aluminum alloy with T-5 temper conforming to ASTM B 221.
 - 3. Aluminum Bottom Bar:
 - a. Standard: Econo Bottom Bar. Members are to be horizontal bottom bars of tubular aluminum extrusion 2" (51 mm) in width and 3.25" (82.5 mm) in height and 0.10" (2.5 mm) wall thickness

- b. Option: Bell Bottom Bar. Members are to be horizontal bottom bars of aluminum extrusion shaped like a bell. The base of the bottom bar is 4" (101.6 mm) in width. The height of the bottom bar is 3.25" (82.5 mm) and 0.08" (2 mm) wall thickness. The two-piece bottom bar design creates a removeable base to service locking components
4. Guides:
 - a. Members are to be 1-3/8" (35 mm) wide by 2-3/4" (70 mm) deep and 1/8" (3.17 mm) 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.
 - b. 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.
 - c. Structural steel support to have minimum 3/16" (4.75 mm) thickness. Fasten guides to steel angles, HSS supports or HSS spacers with concealed fasteners at max. 2'-0" (610 mm) O.C.
5. Counterbalance: Construct of standard steel pipe of adequate diameter to prevent deflection exceeding 0.03" per foot (2.5 mm per meter) of door width. Pipe barrel shall enclose oil tempered helical torsion springs of a design to ensure proper counterbalancing. Spring tension adjustment shall be by means of an adjusting wheel and pin on the outside of the bracket plate.
6. Bracket Plates: Bracket Plates: Construct of minimum 3/16" (4.75 mm) thick steel plate, primer painted "gray".
7. Hood:
 - a. Construct of 0.040" (1 mm) clear anodized aluminum sheet, press-bent to form suitable coil enclosure.
 - b. Hoods and fascias will have maximum length of 144" (3658 mm) per section. Steel channel fabricated hood supports will be provided for hoods and fascias that exceed 144" (3658 mm) in width. In such cases the client is responsible for suitable support within the bulkhead.
 - c. Hoods are not furnished for doors where coil is located above ceiling. Fascias will have 3/4" (19 mm) plywood backing board supplied.
8. Factory Finishes: use letter suffix to denote required door finish.
 - a. Standard: AA Clear Anodized, 0.0004 inch (10 micron) clear anodizing.
 - b. Options: CC Aluminum to be painted RAL colour or match colour sampled.
9. Operation:
 - a. 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.

- b. 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.
- c. Operational Cycles:
 - 1. Standard: 30, 000 Cycles
 - 2. Option: 50,000 Cycles
 - 3. Option: 100,000 Cycles

PART 3 EXECUTION

3.1 PREPARATION & EXAMINATION

- A. Site preparations are to be detailed by approved shop drawings. Verify opening dimensions by actual site measurements.
- B. Contractor shall make structural or other preparation of the opening to receive guides and grille, provide finish or trim to the opening.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. 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.

3.3 MAINTENANCE

- A. 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.
- B. 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.
- C. For cleaning of finished steel curtains consult finish manufacturer for recommendations.
- D. It is recommended that the grille curtain balance should be checked on a yearly basis and the tension adjusted if necessary.
- E. For motorized or crank operated grilles the chain should be lubricated four times a year.

END OF SECTION

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ARG209 ROLLING GRILLE POLYMER COMPONENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Rolling Grille – Overhead Rolling Door and Grille
- 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.

1.2 WARRANTY

- A. The standard warranty shall cover replacement of defective components or workmanship for a period of two years or specified cycles, whichever comes first, from the date of shipment.

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- B. Substitute products by the following manufacturers are accepted:
 - 1. McKinlay Door Sales
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.

2.2 MATERIALS

- A. ARG209 Aluminum Rolling Grille Plastic Components
 - 1. Curtain:
 - a. Construct of 0.100" (2.54 mm) thick by 5/8" (15.8 mm) wide by 2-3/4" (70 mm) flat aluminum vertical links grommated together to support continuous horizontal 5/16" (8 mm) diameter aluminum rods.
 - b. Vertical links shall be secured in place by 7/16" (11.12 mm) diameter PVC sleeves over every sixth horizontal aluminum rod.
 - c. Spacing of horizontal aluminum rods shall be 2" (51 mm) O.C. Spacing of vertical aluminum links shall be 9" (228.6 mm) O.C. as designated by the fourth digit.
 - 2. Aluminum is to be 6063 aluminum alloy with T-5 temper conforming to ASTM B 221.
 - 3. Aluminum Bottom Bar:
 - a. Standard: Econo Bottom Bar. Members are to be horizontal bottom bars of tubular aluminum extrusion 2" (51 mm) in width and 3.25" (82.5 mm) in height and 0.10" (2.5 mm) wall thickness

- b. Option: Bell Bottom Bar. Members are to be horizontal bottom bars of aluminum extrusion shaped like a bell. The base of the bottom bar is 4" (101.6 mm) in width. The height of the bottom bar is 3.25" (82.5 mm) and 0.08" (2 mm) wall thickness. The two-piece bottom bar design creates a removeable base to service locking components
4. Guides:
- a. Members are to be 1-3/8" (35 mm) wide by 2-3/4" (70 mm) deep and 1/8" (3.17 mm) 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.
 - b. 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.
 - c. Structural steel support to have minimum 3/16" (4.75 mm) thickness. Fasten guides to steel angles, HSS supports or HSS spacers with concealed fasteners at max. 2'-0" (610 mm) O.C.
5. Counterbalance: Construct of standard steel pipe of adequate diameter to prevent deflection exceeding 0.03" per foot (2.5 mm per meter) of door width. Pipe barrel shall enclose oil tempered helical torsion springs of a design to ensure proper counterbalancing. Spring tension adjustment shall be by means of an adjusting wheel and pin on the outside of the bracket plate.
6. Bracket Plates: Bracket Plates: Construct of minimum 3/16" (4.75 mm) thick steel plate, primer painted "gray".
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- a. Construct of 0.040" (1 mm) clear anodized aluminum sheet, press-bent to form suitable coil enclosure.
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 - b. 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.

- c. Operational Cycles:
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PART 3 EXECUTION

3.1 PREPARATION & EXAMINATION

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- D. It is recommended that the grille curtain balance should be checked on a yearly basis and the tension adjusted if necessary.
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END OF SECTION

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