

SECTION 08330 OVERHEAD COILING GRILLES AND DOORS

ARS100 ROLLING STEEL SERVICE DOORS

THREE PART SHORT FORM SPECIFICATIONS (CSI)

Part 1 – General

- 1.01 A. Supply Steel Service Doors manufactured by Amstel Manufacturing, 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.
- C. All Rolling Steel Service Doors shall be as manufactured by Amstel Manufacturing. Furnished materials shall include all curtains, bottom bars, guides, brackets, hoods, operating mechanisms and any special features.

Part 2 – Products

- 2.01. Model: ARS100 as manufactured by Amstel Manufacturing.
Curtain:
- .040 thickness with a No. 5 (measuring 2-1/4" high by 5/8" deep) flat slat as designated by Amstel Manufacturing if the door width does not exceed 24'4" and the door height does not exceed 18'4".
 - .050 thickness with a No. 4 (measuring 2-3/4" high by 3/4" deep) flat slat as designated by Amstel Manufacturing if the door width exceeds 24'4" and the door height does not exceed 16'4".
- 2.02. The bottom bar shall consist of two 3/16" aluminum angles mechanically joined together with a 1" diameter vinyl covered foam edge astragal continuous along the bottom. The finish on the bottom bar shall be 204-R1 clear anodized finish.
- 2.03. Guides: The guides shall consist of 2 aluminum angles and 1 steel wall angle bolted together with 3/8" fasteners to form a channel for the curtain to travel and shall include an extruded vinyl snap-on weatherstripping continuously along the exterior leg of the guide. The steel wall angle portion shall be continuous and fastened to the surrounding structure with minimum 1/2" fasteners on 36" centers. The finish on the aluminum angles shall be 204-R1 clear anodized finish. The finish on the steel wall angle shall be aluminum prime paint to match the aluminum angles.
- 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: The brackets shall be constructed of steel not less than 1/4" thick and shall be bolted to the wall angle with minimum 1/2" fasteners. The finish on the brackets shall be one (1) coat of aluminum prime paint.
- 2.06. Hood: The barrel shall be steel tubing of not less than 4" in diameter. Oil tempered torsion springs shall be capable of correctly counter balancing the weight of the curtain. The barrel shall be designed to limit the maximum deflection to .03" per foot of opening width. The springs shall be adjusted by means of an exterior wheel. The finish on the barrel shall be one (1) coat of bronze rust-inhibiting prime paint.
- 2.07. Finish: The finish on the door curtain shall be 204-R1 clear anodized finish.

- 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 two years following the installation of the grille.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE