



Model DAWN GRILLE®  
Standard Brick Pattern  
Rolling Grille Door

NOTE: For specifications, architects must choose from a variety of options. The standard choice will be shown first in plain text followed by the options shown in [brackets] (Example “Finish: Galvanized [Powder coated] [Baked enamel]”). The specifier must make the appropriate choices and delete the others (Example: “Finish: Powder coated”).

## GENERAL

### 1.01 SUMMARY

- A. This section includes: [Manual] or [Electric] operated Economy Box Spring Grille Door.
  - 1. Cycle life: Design doors of standard construction for use up to 12,000 cycles.
  - 2. Dimensions: To be a manual push-up, door must not exceed 120 ft.<sup>2</sup>
- B. Related Sections: Related to this section, but not limited to, the following (based on Master Format 2004):
  - 1. Section 01660 – Product Storage and Handling Requirements.
  - 2. Section 04220 – Concrete Unit Masonry.
  - 3. Section 05120 – Structural Steel.
  - 4. Section 06100 – Rough Carpentry.
  - 5. Section 08310 – Access Doors and Panels.
  - 6. Section 08710 – Door Hardware.
  - 7. Section 09290 – Gypsum Board.
  - 8. Section 09900 – Paints and Coatings.
  - 9. Section 26000 – Electrical.

### 1.02 REFERENCES

- A. ASTM A 653/A 653M – Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
- B. ASTM A 1018/A 1018M – Standard Specification for Steel, Sheet and Strip, Heavy-Thickness Coils, Hot-Rolled, Carbon, Commercial, Drawing, Structural, High-Strength Low-Alloy, and High-Strength Low-Alloy with Improved Formidability
- C. ASTM A 123 – Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
- D. ASTM A 641/A 641M – Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire
- E. ASTM A 312 – Standard Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes
- F. ASTM A 240 – Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications
- G. ASTM A 276 – Standard Specification for Stainless Steel Bars and Shapes
- H. ASTM B 209 – Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate



- I. ASTM B 221 – Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes
- 1.03 SUBMITTALS
  - A. Submit under provisions of Section 01300.
  - B. Product Data: Provide manufacturer's standard details and catalog data. Provide installation instructions.
  - C. Shop Drawings: Furnish shop drawings for architect's approval. Include elevation, sections, and details indicating dimensions, materials, finishes, conditions for anchorage and support of each door.
  - D. Submit manufacturer's recommended operation, troubleshooting, and maintenance instructions.
- 1.04 QUALITY ASSURANCE
  - A. Manufacturer: Rolling doors shall be manufactured by a firm with a minimum of five years experience.
  - B. Single-Source Responsibility: Manufacturer shall provide doors, tracks, motors, and accessories for each type of door. Secondary components shall come from a source acceptable to the manufacturer of the primary components.
- 1.05 DELIVERY, STORAGE, AND HANDLING
  - A. Deliver materials in original packaging supplied by manufacturer with intact labels. Store materials away from harmful environmental conditions and construction.
- 1.06 WARRANTY
  - A. Door Warranty: Provide one year written warranty from date of installation against deficiencies due to defects in materials or workmanship. Installer agrees to repair or replace any defects in materials or workmanship.
  - B. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.

## PART 2 - PRODUCTS

- 2.01 MANUFACTURER
  - A. Manufacturer: Alpine Overhead Doors, Inc.; 8 Hulse Road Suite 1S, East Setauket, NY 11733. Telephone 800-257-4634 or 631-473-9300. Fax 631-642-0800.
  - B. Model: DAWN GRILLE® Box Spring Rolling Grille
- 2.02 MATERIALS
  - A. Curtain:
    - 1. Grille: Furnish Brick pattern 6" [Straight Lattice pattern 9"]
      - a) Horizontal rods: Solid 5/16" galvanized steel rods covered with PVC tubular spacers. Continuous end links are to be designed to prevent the curtain from leaving the side guide rails.
      - i) Vertical spacing: Aluminum [Stainless Steel] vertical links, 2" on center.
    - b) Rod Material:
      - i) ASTM A 641/A 641M Galvanized Carbon Steel Wire
      - Finish: Galvanized



- c) Vertical Spacing Material:
  - i) Aluminum  
Finish: Mill Finish [Clear anodized] [Bronze anodized] [Black anodized]
- d) [Lexan panels]: Clear, polycarbonate material for protection against theft, odors, smoke, and debris. For 12" straight pattern only.
2. Bottom Bar: (Size dependent on dimensions per manufacturer's standard)
  - a) Extruded aluminum "T" bottom bar  
Finish: Mill Finish [Clear anodized] [Bronze anodized] [Black anodized]
  - b) [Single angle bottom bar]
    - i) Galvanized steel, G90 coating exterior (G60 interior), Structural Quality Grade C, as per ASTM A 653/ A 653 M  
Finish: Galvanized [Powder coated] [Baked enamel]
3. Endlocks:
  - a) Stamped, hot-dip galvanized endlocks riveted (solid rivets, minimum 3/8" thick) to each end of alternate slats to prevent lateral movement and to limit slat deflection and bending stress.
- B. Guides:
  1. Guides shall be roll formed consisting of 13 gauge steel, steel mounting angles, expansion slotted connections, and removable curtain stops to allow for curtain maintenance without removal of guides.
    - a) Material:
      - i) ASTM A 1018/A 1018 M Steel  
Finish: Gray shop prime coat [ASTM A 123 Galvanized] [baked enamel paint] [powder coated].
- C. Door Support Brackets and Mounting Plates:
  1. 13 gauge steel stamped brackets, welded to guides. Plate supports counterbalance assembly and forms end enclosures.
    - a) Material:
      - i) ASTM A 1018/A 1018 M Steel:  
Finish: Gray shop prime coat [ASTM A 123 Galvanized] [Baked enamel paint] [Powder coated].
- D. Counterbalance Assembly: Band Spring
  1. Consists of flat blue spring steel wrapped around a 2" pipe shaft and mounted into a spring box.
- E. Hood:
  1. 24 gauge steel [.040" aluminum]. Formed to fit the contour of the end brackets with reinforced top and bottom edges.
  2. Shape: Hexagon [square] [round]



3. Material:
  - a) Galvanized Steel as per ASTM A 653/ A 653 M  
Finish: [Baked enamel paint] [Powder coated]  
– OR –
  - b) ASTM 240 Stainless Steel 300 Series:  
Finish: [Mill finish #2B] [#4 satin finish]  
– OR –
  - c) Aluminum  
Finish: Mill Finish [Clear anodized] [Bronze anodized] [Black anodized]
4. [Fascia]: Galvanized [Stainless Steel] [Aluminum], provided where areas behind door hood are open. Materials and finish same as hood.

F. Locking:

1. Provide hasps and pins, prepared for padlocks on coil side. [Slide locks]

2.03 OPERATION:

A. Opening/Closing: Manual push-up [Motor Operator].

B. [Motor Operator]:

1. Alpine Redi-Central® 115 V, 60 Hz, single phase motor.
2. [Emergency Egress]: Offers protection from problems that may arise from a power outage during a fire or blackout. This device, which is activated by pulling a lever, will release door motor resistance and lift the door 3 feet from the ground permitting egress. Ideal for malls. (For use with Redi-Hoist®, Redi-Lift®, and Redi-Shut™ motors).

2.04 Mounting:

1. Interior face mounted on prepared opening.
2. Interior mounted between jambs and under lintel in a prepared opening.
3. Exterior face mounted on prepared opening.

**PART 3 - EXECUTION**

3.01 EXAMINATION

A. Verify that dimensions are correct and project conditions are in accordance with manufacturer's installation instructions; do not proceed with installation until unacceptable conditions have been corrected.

3.02 INSTALLATION

- A. Install units in accordance with manufacturer's instructions.
- B. Ensure that units are installed plumb and true, free of warp or twist, and within tolerances specified by manufacturer for smooth operation.

3.03 FIELD TESTING

A. Test doors for regular operation.



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3.04 DEMONSTRATION

- A. Instruct the Owner's personnel in correct operation and maintenance of units.

3.05 ADJUST AND CLEAN

- A. Clean units in accordance with manufacturer's instructions.
- B. Restore slight blemishes in finishes in accordance with manufacturer's instructions to match original finish. Remove and provide new units where repairs are not acceptable to the Architect.