



Model DAWN GRILLE®  
Standard Brick Pattern  
Rolling Grille Door

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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 Formability
- 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-Midget® 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.



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.