The Wayne Dalton 800 Series rolling service door is designed to meet the tough requirements of virtually any commercial or industrial application. The 800 Series offers flexibility in substrate materials with choices of galvanized or prime steel, stainless steel, or aluminum. The 800 is also available with an Advanced Performance Option, that not only provides the durability and security of our high quality rolling steel doors, but the cycle of a high performance door.

Color options range from our standard four factory finish colors to a full range of 197 RAL powder coat choices.
Available Options

- Vision Slats/panels
- Secur-Vent® (Flat Slat Only)
- Safety Edges
- Drop Stop Device
- Exhaust Ports
- Sloping Bottom Bars
- Powder Coated
- Motor Operators
- Cable Reels
- Mullions
- Thru-Wall Operation
- Stainless Steel or Aluminum Finishes
- Advanced Performance Option (Springless and High Cycle)

*Not applicable for high usage guide options.

www.Wayne-Dalton.com/commercial
### 800 Series (Face Mounted)

<table>
<thead>
<tr>
<th>Width A</th>
<th>9'0&quot;</th>
<th>TO 14'0&quot;</th>
<th>TO 18'0&quot;</th>
<th>TO 18'0&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>X &amp; Y</td>
<td>R</td>
<td>L</td>
<td>X &amp; Y</td>
</tr>
<tr>
<td>Bracket Size</td>
<td>Side Room</td>
<td>Bracket Size</td>
<td>Side Room</td>
<td>Bracket Size</td>
</tr>
</tbody>
</table>

#### Chain Hoist Operated

| TO 20'0" | 18–1/2" | 8" | 6" | 22" | 8" | 6" | 24" | 8" | 6" | 26" | 8" | 6" |
| 20'0" TO 25'0" | 18–1/2" | 8" | 6" | 22" | 8" | 6" | 24" | 8" | 6" | 26" | 8" | 6" |
| 25'0" TO 28'0" | 18–1/2" | 8" | 6" | 22" | 8" | 6" | 24" | 8" | 6" | 26" | 8" | 6" |

#### Motor Operated

| TO 20'0" | 20" | 8" | 6" | 22" | 8" | 6" | 24" | 8" | 6" | 26" | 8" | 6" |
| 20'0" TO 25'0" | 20" | 8" | 6" | 22" | 8" | 6" | 24" | 8" | 6" | 26" | 8" | 6" |
| 25'0" TO 28'0" | 20" | 8" | 6" | 22" | 8" | 6" | 24" | 8" | 6" | 26" | 8" | 6" |

#### Crank Operated—Consult Factory

NOTE: Dimensions are for general reference only and not for construction purposes.
### 800 Series (Between Jambs, Under Lintel)

#### HEIGHT B (OPENING HEIGHT)

<table>
<thead>
<tr>
<th>Width A</th>
<th>9'0&quot;</th>
<th>TO 14'0&quot;</th>
<th>TO 18'0&quot;</th>
<th>TO 18'0&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>X &amp; Y</td>
<td>R</td>
<td>L</td>
<td>X &amp; Y</td>
</tr>
<tr>
<td><strong>CHAIN HOIST OPERATED</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TO 20'0&quot;</td>
<td>18–1/2&quot;</td>
<td>9-1/16&quot;</td>
<td>7-1/16&quot;</td>
<td>22&quot;</td>
</tr>
<tr>
<td>20'0&quot; TO 25'0&quot;</td>
<td>18–1/2&quot;</td>
<td>9-1/16&quot;</td>
<td>7-1/16&quot;</td>
<td>22&quot;</td>
</tr>
<tr>
<td>25'0&quot; TO 28'0&quot;</td>
<td>18–1/2&quot;</td>
<td>9-1/16&quot;</td>
<td>7-1/16&quot;</td>
<td>22&quot;</td>
</tr>
<tr>
<td><strong>MOTOR OPERATED</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TO 20'0&quot;</td>
<td>20&quot;</td>
<td>9-1/16&quot;</td>
<td>7-1/16&quot;</td>
<td>22&quot;</td>
</tr>
<tr>
<td>20'0&quot; TO 25'0&quot;</td>
<td>20&quot;</td>
<td>9-1/16&quot;</td>
<td>7-1/16&quot;</td>
<td>22&quot;</td>
</tr>
<tr>
<td>25'0&quot; TO 28'0&quot;</td>
<td>20&quot;</td>
<td>9-1/16&quot;</td>
<td>7-1/16&quot;</td>
<td>22&quot;</td>
</tr>
<tr>
<td><strong>CRANK OPERATED—CONSULT FACTORY</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*NOTE: Dimensions are for general reference only and not for construction purposes.*
ROLLING SERVICE DOORS
800 SERIES

CHAIN HOIST OPERATION

WALL MOUNTED POWER UNIT

THRU-WALL MOUNTED POWER UNIT
Note: 20" sideway required on opposite door side for power unit

ELEVATION
SECTION (UNDER LINTEL)
SECTION
ELEVATION
SECTION
ELEVATION
SECTION
**Direct Drive Motor**
Comes standard with advanced gearbox design and features specially designed gear teeth that spread the drive and shock loads over a larger tooth contact area for reduced maintenance costs and increased durability.

**Interior Hood Assembly**
Protects direct drive motor, barrel, chain, stop lock brake and sprocket from dirt and debris for a clean look and increased durability. Optional sloped hood available for exterior mounted applications. (End caps not shown).

**Curtain**
Galvanized and powder-coated with special hardening additive. Optional stainless steel and aluminum versions are available. Slat #14 only.

**Sensing Edge**
Self-monitoring sensing edge is standard and reverses closing door upon contact.

**Built-in Safety Features**
The Advanced Performance Option comes standard with elite C-channel photo cells which include impact-resistant steel guards.

**Unique Brake System**
The Advanced Performance Option’s unique stop lock brake system protects against uncontrolled curtain travel.

**NEMA 4X Control Panel with Built-in Variable Frequency Drive**
Allows door to close at a slower speed than it opens for added safety and less wear on the door, motor, and components. Easy to install and program with flush controls. LCD readouts indicate door action, alarm and fault conditions. Includes built-in timer and non-resettable cycle counter for maintenance and service reminders.
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Application:</th>
<th>Interior/Exterior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting position (motor/control panel)</td>
<td>Interior/Exterior - face-of-wall mounting only for maximum opening space and reduced door damage.</td>
</tr>
<tr>
<td>Models</td>
<td>800 Series Advanced Performance Option.</td>
</tr>
</tbody>
</table>
| Opening size          | Maximum width - up to 20 ft. / Maximum height - up to 20 ft.  
  Maximum total square footage - up to 400 sq. ft. dependent on door weight. |
| Opening/Closing speed | Opening speed - 20” per second                               
  Closing speed - 12” per second |

### CONTROL & DRIVE SYSTEM

| Motor                  | Direct drive, (1/2 HP)(1 HP)(2 HP) dependent on door size, hypoid gear motor/brake assembly in 208/230/460 VAC, 3 Phase voltage. Specify right hand or left hand mount when ordering. |
| Control panel          | Variable Frequency Drive with soft start/stop, self-diagnostics, voltage, built-in timer to close, and non-resettable cycle counter. |
| Protection             | NEMA 4 - protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, and hose-directed water. NEMA 4X on control panel and junction box include corrosion protection. |

### CURTAIN

| Material               | Steel slats standard. Aluminum or stainless steel optional. Size availability will vary depending on material selected. |
| Colors                 | Gray or beige powder coat standard with special hardening additive for durability in high cycle applications. Optional: 197 RAL colors available. |
| Standard safety features | Self-monitoring electric sensing edge reverses closing door upon impact. Guide mounted photo-electric sensors with impact protecting steel guard. Unique stop lock brake system provides you peace of mind. |
| Available options      | Push buttons, loop detectors, radio control, motion detectors, additional photo-electric sensors, horns, strobe lights, or any combination thereof. Considerable thought should be given to the choice of actuators based on the type of traffic and traffic flow through the opening. Auxiliary inputs included for external actuators such as third party card readers. |

### Slat Profile

**#14 slat**

- **Slat Profile**: #14 slat
  - **Width**: 2.875
  - **Thickness**: .75

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Face-of-Wall Mounted

The Advanced Performance Option can be mounted on the face of the wall instead of between the door jambs for maximum opening space and reduced door damage.

<table>
<thead>
<tr>
<th>OPENING HEIGHT (Y)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Through 9’0”</td>
<td>16”</td>
</tr>
<tr>
<td>Through 14’0”</td>
<td>18”</td>
</tr>
<tr>
<td>Through 20’0”</td>
<td>20”</td>
</tr>
</tbody>
</table>
Note to specifiers: Words in brackets indicate frequently specified and highly recommended options.

PART I – GENERAL
1.01 Work Included
A. The opening will be equipped with Wayne-Dalton 800 Series rolling doors.

1.02 Related Work
A. Opening preparation, miscellaneous or structural metal work, access panels, finish or field painting, field electrical wiring, wire, conduit, fuses, and disconnect switches are in the Scope of Work of other divisions or trades.

1.03 Reference Standards
C. ASTM A229 – Steel wire, oil-tempered for mechanical spring.
E. ASTM E130 – Structural performance of exterior windows, curtain walls, and doors by uniform static air pressure difference.

1.04 Quality Assurance
A. Rolling doors and all accessories and components required for complete and secure installations shall be manufactured as a system from one manufacturer.

1.05 Systems Description
A. Rolling Door: Type Model 800
B. Mounting: [steel] [wood] [masonry] arms
C. Operation: [manual push-up] [crank] [chain hoist] [motor] [motor with chain hoist] [balance performance operation]
D. Material: Galvanized steel with polyester finish or powder coated paint

1.06 Submittals
A. Shop Drawings: Clearly indicate the following:
   1. Design and installation details to withstand standard windload.
   2. All details required for complete operation and installation.
   3. Hardware locations.
   4. Type of metal and finish for door sections.
   5. Finish for miscellaneous components and accessories.
B. Product Data: Indicating manufacturer's product data, and installation instructions.

1.07 Delivery, Handling, Storage
A. Deliver products in manufacturer’s original containers, dry and undamaged, sealed and intact.
B. Store and protect products in accordance with manufacturer's recommendations.

1.08 Warranty
A. Standard manufacturer’s one year warranty against defects in material and workmanship.
B. Advanced performance warranty: manufacturer’s two year warranty on 300,000 cycles for components and manufacturer’s five year warranty for motor.

PART II – PRODUCTS
2.01 Curtain
A. Curtain will be composed of interlocking [22, 20, 18.16 gauge galvanized steel] [16.14 B&S aluminum] [22, 20, 18 stainless steel] slats, rolled-formed per ASTM standards and designed to withstand a 20 PSF windload. Ends of alternate/continuous slats will be fitted with metal endcaps/windowlocks.
B. Advanced performance curtain will be composed of interlocking #14 flat slats [22 gauge galvanized steel] [22 gauge stainless steel] [16.18 gauge B&S aluminum] slats with [26 gauge galvanized steel] [22 gauge B&S aluminum] back slats, rolled formed per ASTM standards. Curtain designed to withstand a 20 PST windload. Ends of alternate/continuous slats will be fitted with metal endcaps/windowlocks.
C. Bottom Bar will consist of two equal steel [stainless steel] [aluminum] angles, 1/2” minimum thickness, to stiffen curtain, with astragal. When required for additional security, provide [slide bolts] [cylinder locks] on the bottom bar operable from [coil side] [both sides].

2.02 Guides
A. Guides will be rolled-form steel channel bolted to angle or structural grade, three angle assembly of [stainless steel] [aluminum] to form a slot of sufficient depth to retain curtain in guides to achieve 20 PSF windload standard. Guides may be provided with integral windload bar and removable bottom bar stops.
B. Not applicable for high usage guide option.

2.03 Brackets
A. Brackets will be of 1/16” [1/4”] minimum thick steel plates, with permanently sealed ball bearings. Designed to enclose end of slot to provide support for counterbalance pipe at each end.

2.04 Counterbalance
A. Curtain to be carried on a pipe of sufficient size to carry door load with deflection not to exceed 0.033” per foot of door span and to be correctly balanced by helical springs, oil tempered torsion type. Cast iron barrel plugs will be used to anchor springs to tension shaft and pipe.
B. Advanced performance with variable frequency direct drive motor without the use of helical oil tempered torsion spring.

2.05 Hood
A. Hood will be minimum 24-gauge [aluminum] [22 gauge B&S [galvanized] [steel] sheet metal, flanged at top for attachment to header and flanged at bottom to provide longitudinal stiffness. Hood will enclose curtain coil and counterbalance mechanism.

2.06 Finish
A. Shop coat of rust inhibitive primer on non-galvanized surfaces and operating mechanisms. Guides and bracket plates will be coated with a flat black prime paint. Aluminum finish to be [mil] [20HR1 clear anodized] [bronze anodized] Stainless steel finish available.
B. Curtain color will be [white] [gray] [beige] [brown]. Powder coating is available in [RAL] RAL colors.

2.07 Operation
A. Door will be operated by means of [manual, lift-up] [chain hoist with gear drive reduction] [sawing crank] [wall crank box] [motor operation]. Optional [electric] [pneumatic] sensing edge to be attached to bottom bar to stop and reverse the door when it contacts an object during the closing cycle.
B. Advanced performance springless motor operation, variable frequency drive with NEMA/MAXX control panel.

2.08 Weatherstripping
A. Air-Bar Door: The door will include flat slats, bottom astragal, surface guide weatherstrip, and internal hood baffle weatherstrip.

2.09 Locking
A. [Manual lift-up doors will have interior slide-bolts suitable for paddocks by others.] [Chain-hoist doors will have chain keepers suitable for paddocks by others.] [Electric-motor operation doors will lock through the operator gearing.] [Cylinder locks can be provided with the doors.]

Note: When specifying locks on electric-motor operated doors, electric interlocks should also be specified to prevent operation when lock bolts are engaged in the guides, thus preventing damage to the curtain and/or operator.

2.10 Wind load

PART III – EXECUTION
3.01 Installation
A. General:
   1. Install doors in accordance with manufacturer’s instructions and standards. Installation shall be by an authorized Wayne Dalton representative.
   2. Verify that existing conditions are ready to receive rolling door work.
   3. Beginning of rolling door work means acceptance of existing conditions.
B. Install door complete with necessary hardware, jamb and head mold strips, anchors, inserts, hangers, and equipment supports in accordance with final shop drawings, manufacturer’s instructions, and as specified herein.
C. Fit, align and adjust rolling door assemblies level and plumb for smooth operation.
D. Upon completion of final installation, lubricate, test and adjust doors to operate easily, free from warp, twist or distortion and fitting for entire perimeter.

Note: Architect may consider providing a schedule when more than one rolling door or opening type is required.