



Model PD High Performance Doors STANDARD SPECIFICATIONS

PART 1 GENERAL

1.01 SUMMARY

- A. Model PD High Performance Doors shall be manufactured by Commercial Doors

1.02 SYSTEM DESCRIPTION

- A. Doors shall be springless and designed for 500,000 cycles usage.
B. Doors shall have an average operating speed of approximately 24 inches per second to open, 12 inches per second to close.
C. Doors shall be designed to withstand a 20 PSF windload.

1.03 WARRANTY

- A. Doors shall be warranted against defects in workmanship and materials for two years from date of shipment, provided designed cycle life is not exceeded. Factory finishes and finish protection system are excluded from warranty.

PART 2 PRODUCTS

2.01 MATERIALS

- A. **Curtain** shall be assembled from interlocking Type 3 (2 1/2" x 3/4") flat slats, roll-formed from 22 gauge minimum galvanized steel [22 gauge minimum stainless steel] [.050" aluminum] strip. [Type 33 (2 1/2" x 7/8") flat slats shall be insulated with expanded polystyrene (EPS) foam and covered with fully interlocking backslats roll-formed from material matching the slats.] Endlocks shall be riveted to ends of alternate slats. Delrin endblocks shall be riveted to ends of every 4th slat to reduce friction. Curtain shall be provided with the *Scratch-Guards* Protection System – 2" wide elasticized black straps secured to the coil side and spaced approx. every 3' across the curtain – to reduce finish wear and operating noise.
- B. **Bottom bar** shall be a rectangular aluminum extrusion, 4 5/8" high x 1 3/4" wide, attached to bottom of curtain to limit vertical and lateral deflection. Bottom bar shall be self-leveling to accommodate slopes up to 1/2".
- C. **Guides** shall be 1/4" minimum steel shapes fitted with replaceable UHMW wear strips and attached to 3/16" minimum steel wall tubes. Guides shall be assembled with 3/8" minimum bolts no more than 24" on center and attached to wall with 1/2" minimum bolts no more than 24" on center. Outer guides shall be both hinged and fully removable, and inner guides shall be removable, to provide easy access to curtain for inspection and service. Removable curtain stops shall be provided. [Brush weather seals shall be attached to the guides.]
- D. **Barrel** shall be schedule 20 steel pipe, 8 5/8" minimum diameter. Pipe shall be sized to minimize operating revolutions and support curtain with a maximum deflection of 0.03" per ft. of width. Steel shafts, 1 1/2" minimum diameter, shall be used to support each end of barrel.
- E. **Brackets** shall be 1/4" minimum steel plates bolted to wall tubes. Plates shall be sized to support curtain and barrel and provided with flanges for hood attachment. Brackets shall be fitted with self-aligning 4-bolt iron flange bearings.
- F. **Hood** shall be formed from 24 gauge minimum galvanized steel [24 gauge stainless steel] [.040" aluminum] sheet with top and bottom reinforcements to reduce deflection. [Brush weather seal shall be field installed on the header.]
- G. **Operation** of doors shall be by a UL Listed in-line gear drive motor operator, 2hp minimum, 230/460v-3ph, continuous duty motor, auxiliary chain hoist, integral speed governor to prevent curtain free-fall in event of operator component failure, adjustable soft start/stop variable speed controller, solenoid actuated brake, adjustable limit switches, delay on reverse, non-resettable cycle counter, adjustable re-close timer and auxiliary transformer to support secondary sensors and ancillary control devices. Drive chain shall be minimum #100 roller chain. Motor operator shall be mounted horizontally in front of and parallel to the door coil and shall not require additional clearance above the top of the coil. Control panel shall be mounted on the wall and connected to the motor operator via pre-assembled wiring harnesses. Average operating speeds shall be approximately 24" per second to open, 12" per second to close, and shall slow substantially prior to full open and full close.
- H. **Sensing devices** shall be provided to stop and reverse the door when closing if an obstruction in the opening is detected. A monitored sensing edge, consisting of a rubber dual-chamber profile with integral isolated conductive elastomer switches, shall be attached to the bottom of the bottom bar to stop and reverse the door upon contact with an obstruction. Upon monitoring a sensing edge system fault condition, the door will stay in or return to the open position and revert to a constant pressure close function to allow partial operability until the fault is corrected. A secondary optical sensor system shall also be provided to stop and reverse the door upon sensing an obstruction in the opening. [Loop detectors shall be installed to stop and reverse a closing door upon sensing the presence of a vehicle.]
- I. **Locking** shall be provided by self-locking gear reduction of the motor operator.

2.02 FINISHES

- A. Galvanized steel slats and hood shall have a baked-on primer and polyester top coat (tan color opposite coil side with off-white color coil side (colors may be reversed), or grey color both sides). [Stainless steel slats and hood shall have a brush finish.] [Aluminum slats and hood shall have a clear anodized finish.] Aluminum bottom bar shall be clear anodized. Steel guides and brackets shall be shop painted with a black color rust-inhibiting primer.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Doors shall be installed in accordance with Commercial Doors Direct Installation Instructions

3.02 SCHEDULES

- A. Doors shall be inspected and maintained at least every 6 months by a Lawrence Roll-Up Doors, Inc. authorized dealer.



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