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Hörmann Flexon LLC
High Performance Doors

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STEEL - RANGER™ 9000 L

Section 08330 - Rev. 4.2.15

STEEL - RANGER™ 9000 L SECURITY HIGH PERFORMANCE ROLLING STEEL DOOR WITH INTEGRATED LIGHT GRID

PART 1 – GENERAL

A. SECTION INCLUDES

1. High-performance steel insulated roll-up doors.
2. Wiring from electric circuit disconnect to operator to control station.

B. RELATED SECTIONS

1. None

C. REFERENCES

1. NEMA - National Electrical Manufacturers Association.
2. UL – Underwriters Laboratory Incorporated.

D. SUBMITTALS - Submit the following:

1. Shop Drawings: Indicate pertinent dimensioning, anchorage methods, hardware locations, and installation details.
2. Product Data: Provide general construction, component connections and details, and electrical equipment, operation instructions, and information.
3. Samples: Submit samples of door slat material upon request
4. Manufacturer's Installation: Indicate installation sequence and procedures, adjustment, and alignment procedures.

E. MAINTENANCE DATA

1. Scheduled maintenance program available to include periodic adjustments required, scheduled maintenance suggested, manufacturer's data sheets, and equipment inter-connection diagrams.

F. REGULATORY REQUIREMENTS

1. Electrical components UL listed.
2. Electrical control panel NEMA 4 approved.

G. QUALITY ASSURANCE

1. Furnish high-speed roll doors and all components and accessories by one manufacturer.
2. Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size and complexity, and trained and authorized by the door manufacturer to perform the work of this section.

H. FIELD MEASUREMENTS

1. Verify field measurements are as indicated on shop drawings.

I. COORDINATION

1. Coordinate the work with installation of electric power and locations and sizes of conduit.

J. WARRANTY

The motor is guaranteed against defects in materials and workmanship for a period of 5 full years (excludes catch system). All other mechanical and electrical components are warranted against defects for up to 500,000 cycles. With the exception of Products with less than a the above warranty will not be accepted. During the warranty period, labor is covered for the first year.

PART 2 - PRODUCTS

2.0 ACCEPTABLE MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements provide products of the following:

1. Manufacturer of High Speed Roll-Up Doors: Hörmann High Performance Doors / Starpointe Business Park / 117 Starpointe Boulevard / Burgettstown, PA 15021 / Phone: (800)-365-3667 / (724) 385-9150 Fax: (724) 385-9151 Website: www.hormann-flexon.com / Email: sales@hormann-flexon.com
2. Model: Speed- Ranger™ Series – Model 9000 L

2.1 MATERIALS

A. GUIDE TRACKS

1. Vertical guide track must be in one-piece design, heavy duty aluminum : 4" wide x 3" projection. No exceptions
2. Guide tracks are, 2 mm thick (it 1.8, I rounded up) anodized aluminum and include a light grid built in up to 8'0" high. Steel tracks and door without light grid will not be accepted.

B. WEATHERSEALS

1. Must include full perimeter ,heavy duty double wear pads made of EPDM and brush seal within each side of guide tracks's mouth. No exceptions.
2. Lintel brush seal shall be provided for full width of top of the door opening.
3. Bottom rubber seal shall be provided for complete door width.

C. DOOR PANEL

1. Standard Panel Material: Double –29 gauge skinned and thermal insulated 11/16" total thickness by 4.3" high Decotherm® S panel sections, constructed of special "full hard" galvanized steel with a protective transparent coating that resists damages to normal wear and tear and light impact. The faceted inner profile face matches the micro-profiled outer face. No other panel section will be accepted.
2. Thermal insulation on Decotherm® S panel sections includes minimal thermal bridges and use of fine-pored PU foam infill ensure good thermal insulation.
3. Finished interior and exterior panel surface to be Micro-Profiled® in a White Aluminum color (RAL 9006).
4. Polyurethane foam filled slat, R value of 8.
5. Vision: Optional vision slats each shall be 5.90 wide x 2.16" high , double-pane polycarbonate rectangular windows. Single-pane vision slats not accepted.
6. Bottom panel: consist of a double walled stable aluminum bend- resistant profiles with a weather –resistant EPDM Rubber tubular seal. The bottom seal prevent penetration of dirt and rain, compensates for uneven floors and reduce noise when it comes into contact with floor.
7. Exclusive patent pending foam pad prevent contact between the slats during operation, great reducing noise and wear are part of door panel

D. EMERGENCY OPERATION:

1. Via manual disconnect of power to the motor and chain hoist for manual opening and closing of the door.

E. DRIVE SYSTEM

1. Direct drive Motor /AC , **right or left**, 460 volt or 230v, 3 phase (4 kW), 60 Hz electrical power
2. Direct drive motor is self monitoring and has a patented built in catch system, has sealed bearings and is maintenance free.
3. Drive system is NEMA 3S (dust tight, rain tight, sleet tight, outdoor rated).
4. Maximum opening speed of up to 36" inches per second and closing speed of 20" inches per second.
5. One single Nema 1push buuton for normal door operation included.

F. CONTROL PANEL

1. Supply manufacturer's standard UL approved and NEMA 4 rated hard-wired HFC1, which is a programmable 4 kW drive control box. Doors with contactor boxes will not be accepted.
2. Control box must include face mounted e-stop / re-set buttons and power disconnect.
3. Must include a frequency drive with integrated soft start and soft stop to reduce wear and tear on the door system. Doors without a soft start / stop will not be accepted.
4. Must include an adjustable time delay.
5. Standard power requirement is 460 v or 230 v / 3 phase / 60 Hz (4 kw).
6. Must include cycle counter.
7. NEMA 4 rated enclosure with factory set parameters.
8. Must include self-monitoring and self-diagnostic features an LCD to provide quick and straightforward information.
9. Control panels that require a portable computer unit, additional components or other devices for programming and/or troubleshooting will not be accepted.
10. Maximum control box dimensions of 12" wide x 16" high x 5" deep allowing for applications with limited space.
11. Door to use encoder to regulate door travel limits. Door travel limits to be adjusted without the use of tools from floor level at the control panel. Doors using mechanical limits switches or doors that require tools to set the limits will not be accepted.

G. COUNTERBALANCE

1. Door shall require **NO** counter-balance or panel tensioning system requiring cables, chain, strps, spring, or pulleys to be included No exceptions.

H. LIGHT CURTAIN:

1. A light grid up to 8 foot high is standard and built into the guide tracks. Light grid system shall consist of a self contained transmitter detector and receiver detector. The transmitter and receiver are positioned on opposite sides of the door opeing in the middle of the tracks. The light grid housing is dust and occasional water submersion resistant, having an IP 67 rating. Upon an object breaking the plane of any of the light grid beams, the door panel will reverse instantly. No onsite set up or adjustments are required. Doors without light grid will not be accepted.

I. WINDLOAD: Door to have a rating up to 88 mph.

J. All components factory finished.

PART 3 - EXECUTION

A. PREPARATION

Coordinate installation of steel security roll-up doors. Examine the conditions under which the doors are to be installed and do not proceed with the work until unsatisfactory conditions have been corrected.

B. INSTALLATION

1. General: Comply with manufacturer's detailed instructions for the installation of high performance security roll-up door.
2. Electrical field wiring by electrician.

C. FINAL ADJUSTMENT

1. Make necessary adjustments for safe, efficient operation of high performance steel security roll-up doors.

END OF SECTION