Begley Overhead Doors Limited

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Larkin & Company
Charolette, North Carolina
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Specifications: Wood Flush Sliding Door typically used to Separate Visitor and Resident Parking

I General

1. Related Work:

a. Steel (Plate, angle and channel) door frames: Sections (05-----)
b. Electrical power supply and disconnect: Sections (16-----)

2. Quality Assurance:

a. Welding to comply with CSA W59 standard. Welders to be Canadian Welding Bureau approved in accordance with the requirements of CSA W47. File or grind exposed welds smooth and flush without leaving grinding marks and paint with zinc based paint.

3. Submittals:

a. Submit shop drawings in accordance with section (01----)
b. Indicated materials, operating mechanisms, required clearances (and electrical connections).

4. Warranty

a. Provide a 2 year unconditional warranty on all materials and workmanship.

Products

II Materials

1. Lumber: to CSA 0141-1970, yard lumber, S4S, (C grade or better) (Economy grade exterior grade softwood to AWMAC, Division 400).

2. Plywood: exterior grade Fir Plywood creozone laminate, interior grade Marandie or Launa mahogany BS1 BS 1455. *Spec note: Use 2.1.2 for facing of flush doors.*

3. Finish paint: Two coats of high gloss oil base paint to CGSB1-GP-59M, (----) colour as selected.

4. Nails and staples: to CSA B111-1974, galvanized finish.

5. Adhesive: to CSA 0122 series - M1977.

6. Doors: (Flush panel doors constructed of lumber core framing 32 mm (1-1/4") thick plywood faces glued and stapled to both sides of overall 44 mm (1-3/4") thickness. (Stile and rail panel doors constructed of lumber framing 32 mm (1-1/4") thick plywood panels assembled using mortise and tenon joinery, glued and stapled to framing.) Exposed surfaces sanded smooth before painting.

7. Second and third intermediate sections to have 16 gauge expanded wire mesh screenings, primed and painted same colour as door.

III Hardware

1. Track Richard Wilcox model #333, 10 gauge galvanized steel.

2. Rollers Richard Wilcox model #27B1 Hangar, 2 1/8" diameter formed steel c/w hardened ball bearings. Frame - machined forged steel, hardened and zinc plated, finish apron black enamel.

3. Hinges: heavy duty Collier or equal 3.1 mm (.120") gauge galvanized steel, through-bolt construction.

4. Truss bas: 64mm (2-1/2") high x 51mm (2") wide heavy 1.2 mm (.047") gauge galvanized steel, through-bolt construction.

5. Finish ferrous hardware items with minimum zinc coating of 300 g/m2 (10 oz./sq.ft.) to CSA G164-1965 (R1972).

6. Lock joint clip package - used at each track joint. Formed steel, zinc plated.

7. Richard Wilcox model #18x33 Track Bracket - formed steel, 3/16" thick, finish black enamel.

8. Stay roller fastened to floor to prevent door from swinging.

9. Richard Wilcox model #89 Binder or catch to hold door in full close position.

IV Electrical Operators

1. (Electrical centre push-pull trolley type (gear) drive operator for sliding door, (208 volt) (3 phase) 3/4 HP, with emergency release arm and cable located within arm's reach.

2. For heavy traffic underground garages, a special wall control panel " NEMA 12" using Allen Bradley controls is available. Specify as follows: (electronic) and overload protection, 1 second time delay on reverse, contained in loakable, weatherproof panel for mounting on interior wall for easy access and elimination of vibration.

3. Electrical motors, controller units, remote pushbutton stations, relays and other electrical components: to CSA and ULC approval with CSA enclosure type (NEMA 12). *Spec note: Check environmental conditions for requirements of dust, vapour and waterproof enclosures to electrical components.*

4. Power supply: (208v), (3 phase), 60 HZ. *Spec note: Check with electrical engineers regarding available voltage; also inform them about approximate size of motor so that necessary allowances may be made in calculations of electrical loads for the building and local power distribution panelboards.*

5. Controller units with integral motor reversing starter, (3) heater elements for overload protection, controls relays as applicable. (1) pushbutton station. *Spec note: Check requirements and if necessary include pushbuttons in the controller unit. Indicate number of pushbuttons needed. Delete reference to pilot light if such is not required.*

6. Remote pushbutton stations: (surface) mounted, in (1) location, with, "Open-Stop-Close" pushbuttons.

7. Magnetic loop: buried in concrete floor on interior side of door. First loop 15' - 20' away from door, second loop buried 18" away from door to prevent door from closing on top of vehicle.

8. When entrance to underground parking is at grade and void of heating cables a safety magnetic loop should be installed 4' - 5' away from interior face of door, when door is open safety loop will reset timer or cause door to reopen, if door is

closing.

9. Motion detector mounted above overhead door on concrete header which will identify cars as they approach the overhead door. When detector activates, timer will reset, or if door is closing door will reopen allowing vehicle to enter the underground. When door is fully closed detector becomes inactive.

10. Safety through beam sensors (sending and receiving units) designed to identify pedestrians or vehicles travelling through opening. Typically installed on interior side of opening.

11. Door speed: (300) mm per second.

12. Control transformer for 24 volt AC control voltage.

13. Mounting brackets: galvanized steed, size and gauge to suit conditions.

14. Overhead door can be opened from exterior by keys, card system, radio control or by others.

V. Installation

1. Install doors and equipment in frame prepared by others.

2. Install electrical motor, controller units, pushbutton stations, relays and other electrical equipment required for door operation.

3. Installation includes low voltage electrical wiring only. Power supply located near door opening, supplied by others.

4. Adjust operable parts for correct function.

5. Adjust weatherstripping to form a weathertight seal.

END OF SECTION.