

MATOT AMBASSADOR DR SPECIFICATIONS

AMBASSADOR DR (DRUM) DUMBWAITER SPECIFICATIONS Section 14250 Dumbwaiters

Part 1 - General

1.1 Section includes

- A. Furnish and provide all materials and labor necessary for the complete installation of one Ambassador DR dumbwaiter.
- B. Obtain information on conditions affecting work at jobsite. Including verification of dimensions, field material for anchoring, accessibility and storage space. Verify voltages and outlets on electrical drawings.

1.2 Work Done By Others

- A. Suitable, legal, two-hour fire rated hoistway, if consistent with building construction.
- B. Hoistway door walls must not be erected until doors are set in place.
- C. Electrician shall furnish power supply with line disconnect switch immediately adjoining the controller cabinet.
- D. Hoistway free of all pipes and obstructions.
- E. All bracket fastening inserts and other steel required for support of guide rails and brackets.
- F. Painting of exterior walls and prime finished components which are exposed to view, including inside of car, car gates and doors.
- G. Machine area lighting and convenience outlet.

1.3 References

Design and installation shall be in compliance with regulations and all governing agencies. Lift shall be subject to local, city and state approval prior to installation, along with city and state inspection after installation. Special local requirements shall be determined and handled locally by distributor with manufacturer's agreement.

1.4 Submittals

Submit drawings or manufacturer's literature for approval. Drawings shall show rough-in requirements and wiring materials.

1.5 Substitutions

No substitutions will be considered unless written request for approval has been submitted by the bidder and was received by the architect at least ten (10) days prior to the date of receipt of bids.



Each such request shall include the name of the materials for which it is to be substituted and a complete description of the proposed substitute including drawings, cuts, performance and test data, a list of projects of similar scope, photographs of existing installations and any other information necessary for evaluation.

1.6 Testing

The dumbwaiter shall be tested after installation to demonstrate:

1. Accuracy of stops
2. Operation of hoistway door locks and car gate switch (es).
3. Operation of final terminal switches
4. Operation of push-button and key switches
5. Capacity load test. Operate dumbwaiter for a period of twenty (20) minutes with a capacity load. Run dumbwaiter from top terminal floor to bottom floor with one minute between starts after each stop.

PART 2 - PRODUCTS

2.1 Manufacturer

Matot Inc., Bellwood, Illinois

2.2 Product Type

- A. Model shall be the Ambassador DR drum Dumbwaiter
- B. Car shall have clear inside dimensions of _____ inches wide x _____ inches deep x _____ inches high, and have one removable shelf. Capacity to be _____ pounds. Dumbwaiter to serve _____ stops and _____ openings, located on () same, () opposite, () adjacent side(s) of the hoistway. The car shall stop at () counter-height or () floor level. The travel distance shall be _____ feet. Power supply shall be _____ volt, 3 phase, _____ hertz.
- C. All equipment shall be manufactured in accordance with the latest edition of the ANSI 17.1 code for elevators, escalators and dumbwaiters.

2.3 Fabrication

- A. **Car Enclosure:** The car shall be constructed of 16 gauge () # 4 satin polished stainless steel or () carbon steel with a prime finish. Car shall have one removable shelf. An electrical light fixture shall be recessed in the ceiling. Floor loading models shall have a reinforced floor.
- B. **Car Gates:** The car shall be equipped on each open side with a gate matching the car construction and finish. The gate shall be vertical () bi-parting or () slide up design. Car gate(s) shall be manually operated unless power operation is specified.
- C. **Guide Rails:** Steel "Tee" rails shall be furnished to guide the car. Guide rails shall be mounted to the floor slabs and hoistway wall with steel brackets.



- D. **Machine:** Machine shall be the winding drum type. Single speed motor shall be of ample horsepower to lift the rated load at the rated speed, with a high starting torque and low starting current. It shall be equipped with a spring applied and electrically released brake. Machine shall be located at the () top or () bottom of the hoistway and mounted on structural steel base.
- E. **Controller:** Controller shall be wall mounted type with lockable door, located on hoistway outer wall in sight of machine access door. Controller shall be solid state programmable and Underwriter's Laboratories, Inc. listed.
- F. **Operational Control:** Operation shall be automatic call and send. A pushbutton station with one button for each level served, shall be furnished at each door. It shall be possible at each level to call the car or send it to any other level. Pushbuttons shall be inoperative while car is in transit, and for a few seconds after arrival at the selected level. Pushbuttons shall have stainless steel faceplates.
- G. **Signals Devices:**
- "Door Open" call buzzer - shall sound when a pushbutton is pressed and a hoistway door or car gate is open.
 - "Car Here" light and chime - shall be located in each pushbutton station. Chime shall indicate car arrival. Light shall indicate car presence.
 - Combination "Door Open" and "In-Use" light - shall be located in each pushbutton station. Light will illuminate when car is in transit and when a pushbutton is pressed and a hoistway door or gate is open.
- H. **Leveling Accuracy:** If the car stops above the floor level, car floor shall be no more than ½" above or below the level of the hoistway door sill. If car stops at floor level, car floor shall be no more than ¼" above or below the level of the hoistway door sill.
- I. **Hoist Ropes.** One 3/16" x 7 x 19 galvanized aircraft cable with safety factor per code.
- J. **Final Limit Stopping Devices:** Provide per code
- K. **Guide Shoes:** Guide shoes shall be adjustable, renewable dry type.
- L. **Hoistway Doors:** Door shall be vertical sliding () bi-parting or () slide up design. Each door shall bear the Underwriters "B" label and shall be rated for application in;(a) masonry shaft or (b) metal stud drywall shaft. Hollow metal door panels shall be 16 gauge () stainless steel with satin polish & No.4 finish or () carbon steel with prime finish. Welded unit wall frame, including jambs, trim and sill shall be; 16 gauge () stainless steel with satin polish & No.4 finish or () carbon steel with prime finish. Doors shall be manually operated unless power operation is specified. A door lock and contact shall be provided on each door.
- M. **Machine Access Door:** Hinged access door shall be 24" w x 24"h and shall be furnished at machine location for service and maintenance. Access door shall be 16 gauge () stainless steel with satin polish & No.4 finish or () carbon steel with prime finish.
- N. **Drawbridge (Optional):** Floor loading models with bi-parting door and car gates shall be equipped with drawbridge to provide smooth entrance for wheeled carts. Drawbridge shall be raised and lowered by opening and closing of car gate.
- O. **Self-Supporting Tower (Optional):** Components shall be carried on a self-contained, rigidly braced, structural steel angle tower extending full height of the hoistway.
- P. **Power-Operated Hoistway Doors and Car Gate(s) (Optional):** Car gate(s) shall be motorized, and shall be equipped with magnetic clutch assembly which shall power operate the hoistway doors.



2.4 Performance

- A. Rated load _____ pound. capacity
- B. Nominal travel speed shall be 50 F.P.M.
- C. Leveling Accuracy: Car floor shall be no more than ½” above or below the level of the hoistway door sill.

Part 3 - Execution

3.1 Installation

- A. Coordinate work with general contractor.
- B. Leave standard electrical connection drawings with electrical contractor to make final electrical connection. Wiring within unit shall be done as part of work of this section, 20 amp circuit required.
- C. The installation of the dumbwaiter shall be made in accordance with the approved plans and specifications and manufacture’s installation instructions.

