

SECTION 14100

DUMBWAITERS

PART 1 GENERAL

1.01 SUMMARY

- A. The product described herein, manufactured for ThyssenKrupp Access Manufacturing, LLC, is a dumbwaiter designed and dimensioned to provide material delivery to all levels to the home based on the individual's requirements.

1.02 REFERENCES

- A. Dumbwaiter shall be designed, manufactured and installed in accordance with the following standards:
 - 1. American National Standards Institute (ANSI).
 - 2. American Society of Mechanical Engineers (ASME).
 - 3. International Building Code (IBC).
 - 4. National Electrical Code (NEC).
 - 5. American Society for Testing Materials (ASTM).
 - 6. American Welding Society (AWS).

1.03 SYSTEM DESCRIPTION

- A. Drive System: Belt driven, winding drum, 1/2 hp motor with automatic operation.
- B. Number of Stops: (specify:) Two to four.
- C. Car Configuration: (specify:) straight-thru, 90° side exit or enter/exit same side.
- D. Maximum Travel: (specify:) Up to 28'.
- E. Rated Load: (specify:) 100, 150 or 200 lbs.
- F. Rated Speed: 20 fpm.
- G. Car Size:
 - 1. (specify:) 20" wide x 20" deep x 30" high, 24" x 24" x 30", or 30" x 30" x 36".
 - 2. (specify:) Custom size up to 30" wide x 30" deep x 36" high.
- H. Car Walls: (specify:) Powder coated steel panels or stainless steel panels with #3 finish.
- I. Car Ceiling: To match wall panels.
- J. Operating Features:
 - 1. Call-Send Stations: Push button, automatic operation (specify option:) key lock provided at each station. Hoistway Door Interlocks: (specify:) Electromechanical interlocks or G.A.L. interlocks
 - 2. Upper and lower terminal limits.
 - 3. Final limit.
 - 4. Slack cable safety.
 - 5. (specify option:) Intermediate car shelf.
 - 6. (specify option:) Automatic homing to predetermined floor.
 - 7. (specify option:) "Car Here" indicator.

1.04 QUALITY ASSURANCE

- A. Manufacturer: Provide dumbwaiter manufactured by a firm with a minimum of 5 years experience in fabrication of lifting devices.

- B. All designs, clearances, workmanship and material, unless specifically accepted, shall be in accordance with all codes having legal jurisdiction.
- C. All load ratings and safety factors shall meet or exceed those specified by all governing agencies with jurisdiction and shall be certified by a professional engineer.
- D. Dumbwaiter shall be subject to applicable state, local and city approval prior to installation and subject to inspection after installation. Determination of and adherence to these regulations is the responsibility of the dumbwaiter contractor.
- E. Welders certified in accordance with requirements of AWS D1.1 shall perform all welding of all parts.
- F. Substitutions: No substitutions permitted.

1.05 WARRANTY

- A. Warranty: Manufacturer shall warrant component parts of the Shuttle™ dumbwaiter for a period of two years and drive train for a period of 5 years after installation.

1.06 MAINTENANCE

- A. The Shuttle™ dumbwaiter must be maintained in accordance with manufacturer's instructions.

PART 2 PRODUCT

2.01 MANUFACTURER

- A. Provide the Shuttle™ dumbwaiter manufactured for ThyssenKrupp Access Manufacturing, LLC.
Contact: 4001 E. 138th Street, Grandview, MO;
Telephone: 800-669-9047; Fax: 816-763-4467;
Email: archassist@tkaccess.com; Web site: <http://www.tkaccess.com.com>

2.02 MATERIAL

- A. Guide Rail: Extruded aluminum.
- B. Cable: 3/16" galvanized aircraft cable.
- C. Car Frame: ¼" and 11 ga. structural and formed steel plates.

2.03 FINISHES

- A. Components shall be prepared with 1) alkaline detergent wash, 2) clear water rinse, 3) iron phosphate coating, 4) clear water rinse and finished with electrostatically applied and baked thermostatic powder coat finish for indoor or outdoor use. Standard color is ivory.

2.04 ELECTRICAL SYSTEMS

- A. The electrical contractors shall provide: 16. 115 VAC, single phase, 20 amp, 60 Hz power circuit in the top of the hoistway.

PART 3 EXECUTION

3.01 ACCEPTABLE INSTALLERS

- A. Installers shall be experienced in performing work of this section who have specialized in work comparable to that required for this project.
- B. Installers shall be certified and trained by the manufacturer.

3.02 EXAMINATION

- A. Use field dimensions and approved manufacturer's shop drawings to examine substrates, supports and other conditions under which this work is to be performed. Do not proceed with work until unsatisfactory conditions are corrected.

3.03 INSTALLATION

- A. The Shuttle™ dumbwaiter shall be installed in accordance with manufacturer's instructions and as specified and approved by architect.
- B. Hoistway doors shall be installed by others.

3.04 DEMONSTRATION

- A. The dumbwaiter contractor shall make a final check of the dumbwaiter's operation with the Owner or Owner's representative present prior to turning the dumbwaiter over for use. The dumbwaiter contractor shall determine that operating and safety devices are functioning properly.

END OF SECTION

Notes: Intent of specification is to broadly outline equipment required but does not cover details of design and construction.

Dimensions and specifications are subject to constant change and continually evolving codes and product applications. For additional technical information, contact ThyssenKrupp Access at (800) 925-3100 or www.accessind.com.