

SECTION 14100

DUMBWAITERS

PART GENERAL

SECTION INCLUDES

Manual dumbwaiter system, counter loading type, including:
Dumbwaiter machine with roller bearings.
Hand wheel.
Prefinished car and hardware.
Hoist rope and rope guides.
Hand rope.
Counterweights.
Guide rails.
Spring bumpers.

RELATED SECTIONS

Section 04810 - Unit Masonry Assemblies: Hoistway construction.

Section 06100 - Rough Carpentry: Hoistway construction.

Section 06200 - Finish Carpentry: Hoistway doors and frames.

Section 08114 - Custom Steel Doors: Hoistway doors.

Section 08115 - Custom Steel Frames: Hoistway frames.

Section 08211 - Flush Wood Doors: Hoistway doors and frames.

Section 09260 - Gypsum Board Assemblies: Hoistway finish.

REFERENCES

ASME A17.1 - Safety Code for Elevators and Escalators; The American Society of Mechanical Engineers.

SYSTEM DESCRIPTION

System Characteristics:

Rated net loading capacity: _____ lbs.

Nominal travel distance: _____ ft, _____ in.

Number of stops: _____.

Number of openings:

_____ front.
_____ rear.
_____ side.
Size of openings: _____ wide x _____ high, located _____ inches
above finished floor.

Car size: _____ wide x _____ deep x _____ high.

System Operation: Provide dumbwaiter operation by means of hand rope,
with automatic brake type dumbwaiter machine.

Brake: Bronze friction plate disk design, operating on full automatic in
both up and down motion of car.

Arrange components so car remains in position under design load when
pull on hand rope is released, without use of check or brake line.

SUBMITTALS

Submit under provisions of Section 01300.

Product Data: Include complete information on system design and
installation requirements.

Shop Drawings: Include detailed dimensions of all components, including
locations of connections to other work; load reactions at points of support;
and arrangement of all equipment.

Selection Samples: Include actual pieces of all standard cab finishes, for
Architect's selection.

Verification Samples: Selected cab finishes, not less than 6 inches x 6
inches.

QUALITY ASSURANCE

Installer Qualifications: Company specializing in installing equipment of the
type specified, with not less than three years of experience and approved by
manufacturer of dumbwaiter system.

REGULATORY REQUIREMENTS

Comply with _____ building code for manufacture and installation of
dumbwaiter system.

WARRANTY

Provide manufacturer's six year limited warranty against defective materials.

PART PRODUCTS

MANUFACTURERS

Provide dumbwaiter system as manufactured by Vincent Whitney Company, Inc.; 60 Liberty Ship Way; P.O. Box 335; Sausalito, CA 94966. Telephone: 800-332-3286 or 415-332-3260. FAX: 415-332-0816.

Substitutions will not be acceptable.

DUMBWAITER

Provide heavy-duty commercial grade system, model _____, equipped with geared automatic brake.

Provide non-geared residential grade system, model _____, equipped with automatic brake.

Car: Fabricate of 3/4 inch plywood with birch veneer, finished with clear lacquer. Dado, glue, and screw all joints to assure rigid construction. Include single adjustable shelf.

Car: Fabricate of mild steel with painted enamel finish. Weld and bolt components to assure rigid construction. Include single fixed shelf.

Car: Fabricate of 304 stainless steel, with Number 4 mill finish. Weld and bolt components to assure rigid construction. Include single fixed shelf.

Guide Rails: Douglas Fir, dense select grade, kiln dried.

Counterweights: Cast iron or steel, adjustable to insure proper operating balance.

Hand Rope: 3/4 inch diameter, soft woven rope joined with swivel coupling.

Hoist Rope: 5/8 inch diameter steel overlaid with hemp (Marlin clad).

Hoist Rope: 3/16 inch steel aircraft cable.

PART EXECUTION

EXAMINATION

Verify that finished hoistway is plumb and square and correctly sized.

Verify that horizontal guide rail blocking is in correct position, securely fastened, and ready for connection of guide rails.

Verify that machine supports of proper size are in position and that openings to hoistway are properly sized and located.

INSTALLATION

Install dumbwaiter in accordance with ASME A17.1.

Comply with manufacturer's instructions for assembly and installation of all dumbwaiter components.

ADJUSTING AND CLEANING

Verify that dumbwaiter is properly installed and operating smoothly. Make any adjustments required to achieve safe and quiet operation.

Clean any exposed areas that have become soiled during installation process, using materials and cleaning agents appropriate for substrate.

END OF SECTION