

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Bi-Folding Sections
- B. Top Tracks
- C. Hardware provided

1.2 RELATED SECTIONS

- A. fasteners that affix top tracks to the closet heads or ceilings (#1030\*).
- B. fasteners that affix floor pivot assemblies to the floor.  
(Note: 3/16" by 1-1/4" Hex Head Tapcons are recommended for concrete ceilings or floors).  
\* Refer to hardware schematic supplied by Landquist to match part numbers

1.3 PERFORMANCE REQUIREMENTS

- A. Bi-Fold door section Conforms to the 1994 HUD guideline spec for "heavy-duty bi-folding closet doors.

1.4 SUBMITTALS

- A. Shop Drawings showing application of doors to project.
- B. Door manufacturer's Technical Data, as may be appropriate.
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Door manufacturer to demonstrate minimum 25 years of continuous operation.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Truckload Factory Direct Shipments: All bi-fold sections are shipped from the factory in multiple quantities on skids with bi-folding sections protected one from the other by spacers, skids strapped overall for stability.
- B. Contractor is to provide an adequate fork lift mechanism to safely transport skids from the truck to the construction site or storage facility, or sufficient and capable hand labor to off-load each door individually.
- C. Reject damaged doors or report evidence of damage to the driver before skids are off-loaded; 4) LTL Shipments are crated and shipped via common carrier.
- E. Condition doors to prevailing humidity in installation area prior to installing.
- D. Protection
  - 1. Prevent door damage during off-loading, off-skidding, interior handling and hanging.
  - 2. Protect installed doors from accidental damage by equipment or other contractors on site
  - 3. Repair or replace doors damaged during installation.

1.7 WARRANTY

- A. All door components supplied by the manufacturer shall carry a Five (5) Year Warranty covering manufacturing defects (note: see manufacturer's warranty for details), including warpage that renders the doors inoperable.
  - 1. Doors supplied under warranty claim shall be delivered free to the jobsite, upon approval of factory representative.
  - 2. Costs incidental to warranty replacements (i.e. removal and re-installation labor, painting, disposal and/or other circumstantial costs) are not covered in this warranty.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Acceptable Manufacturers: Landquist & Son, Inc.  
6428 N. Ridgeway Ave., Lincolnwood, IL 60712  
tel: 847-674-6600 fax: 847-674-6674  
Email: magiglide@sbcglobal.net Web: [www.landquist.com](http://www.landquist.com)
- B. Substitutions: Not permitted.

### 2.3.1 COMPONENTS/FABRICATION

- A. General: Doors shall be sizes and types scheduled on drawings.
- B. Bi-Folding Sections
  - 1. Each bi-folding section shall consist of two (2) solid-core particle board flat panels joined together by an imbedded steel piano-hinge (mill-finish) inserted in factory routed grooves and secured with tempered steel pins applied from the backside.
  - 2. Three (3) 14-gauge cold rolled steel pivot brackets and one (1) spring assembly shall be factory mounted on each bi-folding section
  - 3. Pivot Brackets are of heavy-duty 14-gauge cold-rolled steel and shall have wrap-around feature to eliminate unnecessary stress on all screws
  - 4. All door weight shall be carried at the floor pivot assembly.
- C. Door Panels
  - 1. shall be fabricated of 3/4" thick industrial grade particle board, 45lb. density per cubic foot, having a face applied paint-grade thermoset melamine finish 2-sides formulated to receive field applied paint (Note: do not paint piano hinges)
  - 2. Panels shall comply with commercial standards ANSI A208.1, Grade M-2
  - 3. Panel widths shall be 21 inches wide maximum and 9 inches wide minimum
  - 4. All panel edges shall be plasticized. (Note: other finishes available from Landquist include factory pre-finished, high and low pressure laminates, and wood veneers; 1-1/8" thick doors are available and are considered "premium" doors; MDF board is used for panels with routed designs).
- D. Top Tracks
  - 1. Top tracks shall be 13/16" x 1-1/4" no. 6063T6 high-strength extruded aluminum manufactured to receive proprietary factory hardware.
  - 2. Top tracks to be produced slightly wider than closet openings for fitting at the jobsite.
  - 3. Camlock assemblies and Delrin guides shall be factory mounted where practical.
- E. Hardware Provided
  - 1. All bi-folding sections are supplied with all the necessary hardware for complete installation and operation of the doors, excepting fasteners that affix top tracks (#1030\*) to the closet heads or ceilings and floor pivot assemblies to the floor, which are provided by the installing contractor. (Note: 3/16" by 1-1/4" Hex Head Tapcons are recommended for concrete ceilings or floors, supplied by others).
- F. Bulk Hardware
  - 1. Hardware not mounted at the factory is shipped loose and in bulk containers for assembly and/or mounting at the jobsite.
  - 2. Pivot Door and Guide Door Pins (#1029-1\*) are 3" removable compensating pins, hardened steel.
  - 3. Standard pulls are 4" c/c white nylon "U" shaped, ADA compliant (Note: barrier-free pulls for severely handicapped are optional).
  - 4. Door aligners (#1016\*), door stops (#1019\*) and track stops (#1021\*), vinyl bumpers (#1013\*) and floor pivot assemblies are to be assembled and/or field mounted.
  - 5. Floor plates (#1003-1\*) are heavy-duty and of 14-gauge cold-rolled steel.
  - 6. Threaded Stud (#1003-2\*) in hardened steel, (longer length 1-3/4" optional).

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine prepared openings prior to hanging doors to verify that the openings comply with the indicated requirements for type, size, location and fold characteristics and that closet openings have been prepared with plumb jambs and level heads
- B. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. The contractor is responsible for the correct preparation of all openings, in accordance with the architect's specifications.
- B. Each bi-folding section manufactured shall be referenced with the exact closet location and door position, per schedule submitted to the manufacturer.

3.3 INSTALLATION

- A. Install door opening assemblies in accordance with manufacturer's printed installation instructions, using installation methods and materials specified in installation instructions, and in tolerances specified.
- B. Mount top track secure and level, free of twists and bends (utilizing shims as necessary).
- C. Holes for pulls and pull mounting shall be done in the field by the installer.
- D. Door aligners and track/door stops are field mounted.
- E. Doors must not bind on any obstruction after installation or further adjustments must be made.
- F. Consult with the manufacturer if any doors require field modification or the warranty may be voided.
- G. Refer to factory installation instructions. (Note: the five (5) year manufacturer's warranty is contingent upon proper installation).
- H. Site Tolerances: Maintain plumb and level tolerances specified in manufacturer's printed installation instructions.

3.4 ADJUSTING

- A. Adjust all vertical and horizontal tolerances and level/plumb settings before the final setting of floor pivot assemblies or installing camlock set screws (#1022\*) or before tightening stud lock nuts (#1003-3\*).
  - 2) Tolerance at jambs is targeted at  $5/16 \pm$ ," contingent on plumb jambs (or returns) as provided by the contractor.
  - 3) Maintain tolerance between bi-folding sections and the top track (#1030\*) at  $1/4" - 7/16"$  per manufacturer's instructions, or warranty may be voided.