

Destiny

Residential Elevators



National Wheel-O-Vator
A Division of ThyssenKrupp Access



ThyssenKrupp

Welcome To Your Destiny



You are now among thousands of homeowners discovering the value and convenience of a residential elevator. As you know, multi-level homes are becoming ever more popular as they offer your family additional square footage without losing precious lot acreage. However, the idea of transferring luggage, laundry, groceries, or even yourself up and down a flight of stairs day after day, often results in the scaling back of one's home plans.

We suggest that you don't hold back! Build the home of your dreams...expand up as far as your imagination will allow...and then invest in a Destiny Residential Elevator to take you to any level of your home with elegance and ease.

Level I

- Choice of Melamine Colors: Light Oak, Dark Oak, White, and Champagne
- Two recessed Halogen Lights (Four recessed Halogen Lights Optional)
- Wood Handrail
- Brushed Stainless Steel or Brushed Brass Hall Call and Car Operating Panel
- White Melamine Ceiling

Melamine Samples

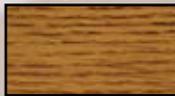
Dark Oak



White



Light Oak



Champagne



Standard White Melamine Ceiling



Car shown with optional phone box.

Level III

- Choice of Hardwood Veneers: Oak, Birch, and Maple
(Optional Cherry, Hickory, and Other Hardwood Veneers)
- Two Recessed Halogen Lights
(Optional Four Recessed Halogen Lights)
- Wood Handrail
- Brushed Stainless Steel or Brushed Brass Hall Call and Car Operating Panel
- Choice of White Melamine or Matching Veneer Ceiling



Standard White Melamine and Veneer Ceiling



Car shown with optional phone box.



Car shown with optional phone box.

Level IV

- Choice of Hardwood Veneers: Oak, Birch, and Maple
(Optional Cherry, Hickory, and Other Hardwood Veneers)
- Two Recessed Halogen Lights
(Optional Four Recessed Halogen Lights)
- Wood Handrail
- Brushed Stainless Steel or Brushed Brass Hall Call and Car Operating Panel
- Choice of White Melamine or Matching Veneer Ceiling



Optional Veneer and White Melamine Ceiling with 4 Recessed Lights

Level V

- Choice of Recessed Panel Hardwoods: Oak, Birch, and Maple
(Optional Cherry, Hickory, and Other Hardwoods)
- Brushed Stainless Steel or Brushed Brass Hall Call and Car Operating Panel
- Wood Handrail
- Deluxe Frame Ceiling
(Single Frame Optional)
- Four Recessed Lights



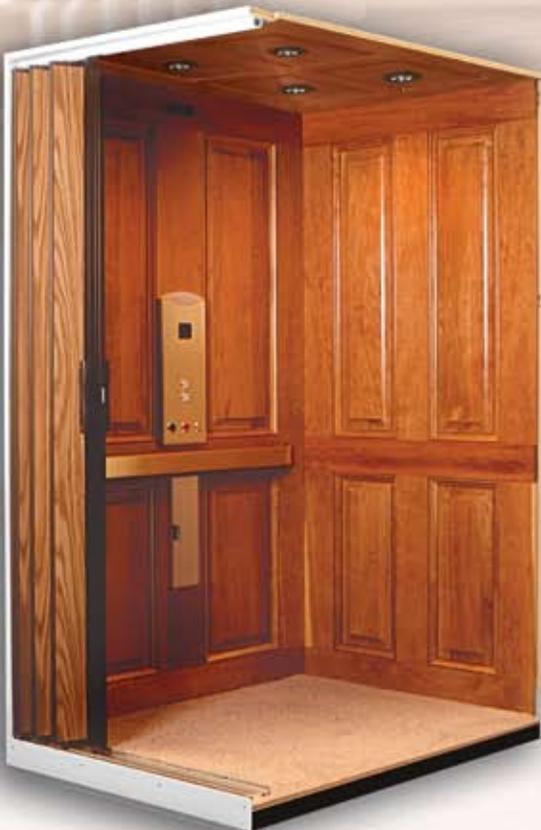
Standard Deluxe
Frame Ceiling



Optional Single
Frame Ceiling



Car shown with optional single frame ceiling
and phone box.



Car shown with optional phone box.

Level VI

- Choice of Raised Panel Hardwoods: Oak, Birch, and Maple
(Optional Cherry, Hickory, and Other Hardwoods)
- Brushed Stainless Steel or Brushed Brass Hall Call and Car Operating Panel
- Wood Handrail
- Raised Panel Ceiling
- Four Recessed Lights



Standard Raised Panel
Ceiling

Fixtures

The car operating panel, phone box, and hall calls are available in a variety of finishes.

- Standard Brushed Brass or Brushed Stainless Steel
- Optional Polished Brass or Polished Stainless Steel
- Optional Oil Rubbed Brushed Brass

The car comes standard with a wood handrail. Optional handrails include brushed or polished stainless steel, brushed or polished brass, or oil rubbed brushed brass.



Standard Brushed Stainless Steel Control Operating Panel, Hall Call, and Optional Phone Box



Optional Polished Stainless Steel



Standard Brushed Brass



Optional Polished Brass

The car comes standard with a wood handrail. Optional handrails include brushed or polished stainless steel, brushed or polished brass, or oil rubbed brushed brass.



Standard Wood Handrail



Recessed Halogen Light



Optional Brushed Brass Handrail

Standard Features

- 36”x 48” Car Size
- 7’ Interior Ceiling Height
- Unfinished Floor and Hardwood Panels
- Accordion Gate (Manual Operation)
- Digital Floor Position Indicator
- “Car Here” and “In-Use” Lights
- Automatic On/Off Car Lighting
- Telephone Jack - Surface Mount
- Emergency Stop/Alarm/Lighting

Optional Features

- Brushed or Polished Brass Handrail
- Brushed or Polished Stainless Steel Handrail
- Oil Rubbed Brushed Brass Fixtures
- Custom Car Sizes
- Scissors Gate
- Automatic Accordion Gate Operator
- Finished Wood Panels (Stained and/or Clear Coated)
- Custom Wood Choices

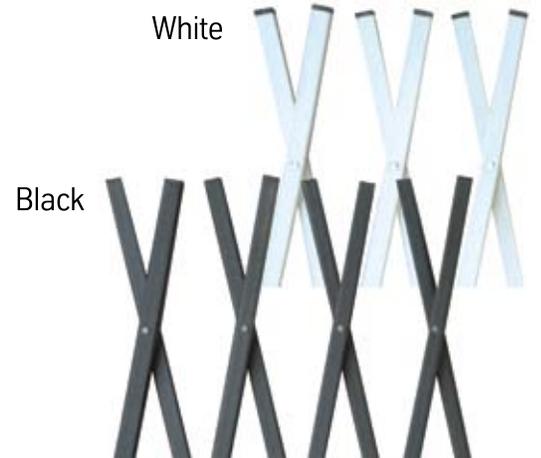
Accordion Gates



Your Destiny comes standard with an accordion gate. Optional accordion wood veneer gates are available in Birch, Oak, Maple, Cherry, or Hickory.



Scissors Gates

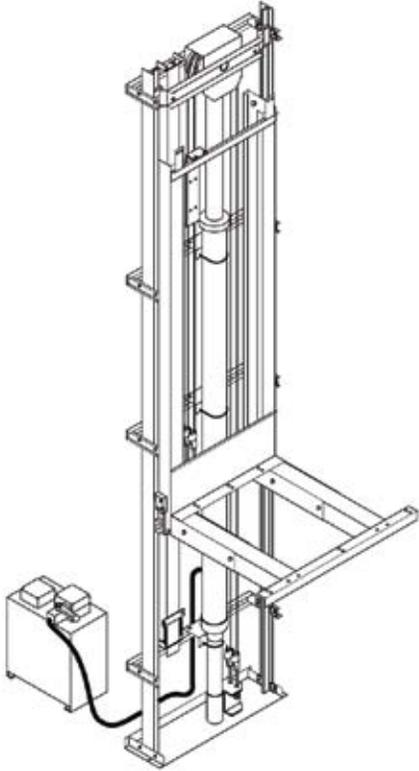


Our optional scissors gates are available in a variety of finishes, including black, white, copper vein, silver vein, rustic bronze and brass.

* Contents are subject to change without notice.

Drive Systems

The Destiny offers you the choice of two state of the art drive systems, the Roped Hydraulic and the Winding Drum. Each system gives you the flexibility to select the best drive for your application.



Roped Hydraulic

- 1:2 cable/roped hydraulic unit utilizing (2) 3/8" - 7 x 19 steel core aircraft wire rope integrated into a rams header sheave mounted to an 80mm diameter hydraulic cylinder
- 950 lbs capacity up to 44' (750 lbs opt.)
- 2 speed valve
- Remote machine room up to 40'
- Submerged motor for quiet operation
- Floor specific battery descent
- 40 fpm travel speed

Winding Drum

- Inverter controlled winding drum unit utilizing (2) 3/8" - 7 x 19 steel core aircraft wire ropes
- 950 lbs capacity standard (750 lbs opt.)
- A variety of drum configurations available
 - Rail Mount Drive (RMD), Fig.A
 - Behind the Rail, Fig. B
 - Reduced Machine Room (RMR), Fig.C
- Variable speed for a quality ride
- No oil usage/reduced maintenance
- Floor specific battery descent (opt.) (Standard on the RMD)
- 40 fpm travel speed

Please refer to our *Destiny Design Guide* for more detailed information on our drive systems.

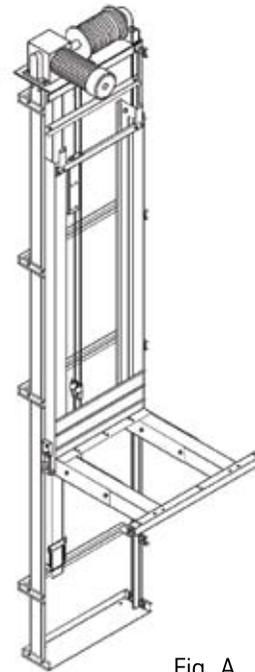


Fig. A

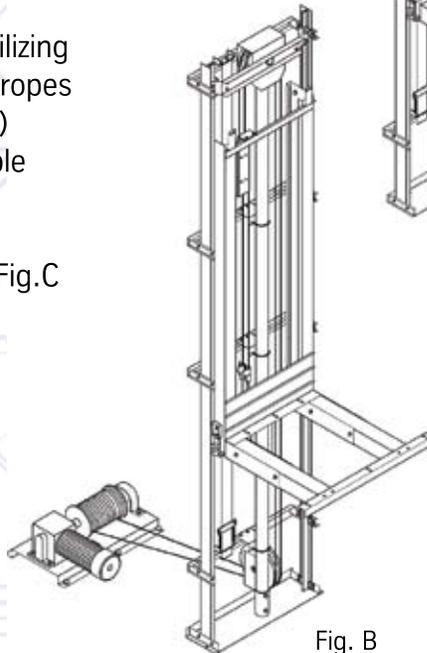


Fig. B

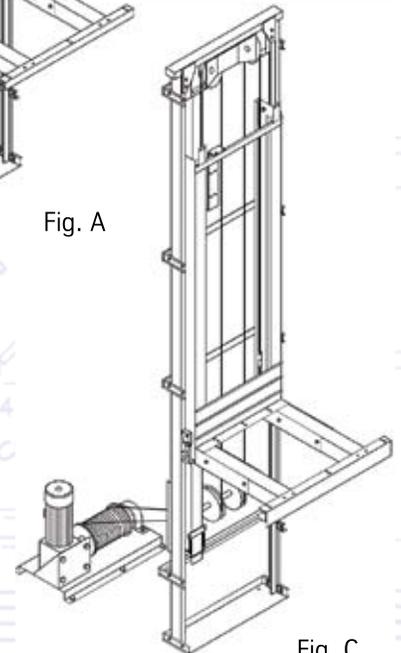
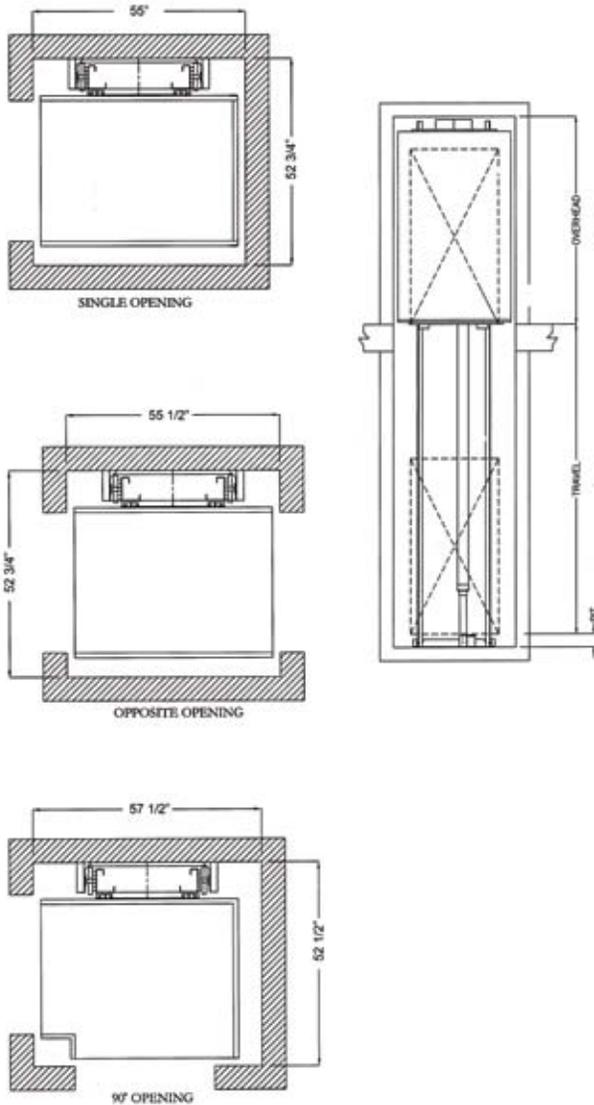


Fig. C

Specs and Drawings



Pit = Minimum of 6" (std. 8")
 Travel = Up to 50'
 Overhead = Minimum of 96" (RMD 109")

***Configurations with above dimensions provide a car size of 36"x 48".**

Note: Separate machine space is required. For construction purposes, please contact your local dealer for detailed drawings.

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PART 1 GENERAL

- 1.01 **Description of product:** Residential elevator with inverter controlled winding drum drive or 1:2 roped hydraulic drive.
- 1.02 **Work Included:** Furnish all labor and materials, equipment and incidentals necessary to assemble and erect a residential elevator.
- 1.03 **Work by Others**
 - A. Construct a hoistway of the size and backing required by the manufacturer.
 - B. Construct a machine room.
 - C. Provide system to maintain hoistway and machine room within 50 - 90 degrees Fahrenheit. (machine room requirement does not apply to winding drum drive system)
 - D. Provide 230 VAC, single phase, 30 amp dedicated and 120 VAC, 15 amp dedicated circuits to machine room space for elevator and car lighting.
- 1.04 **References**
 - A. American Society of Mechanical Engineers/American National Standards Institute (ASME/ANSI) publications: ASME/ANSI A17.1 "Safety Codes for Elevators and Escalators", Section 5.3.
 - B. National Fire Protection Association (NFPA) publications; NFPA 70 National Electrical Code.
- 1.05 **System Description**
 - A. Travels up to 50', with up to 6 stops.
 - B. Load capacity of 950 lbs. (750 lbs. opt.)
 - C. Speed of 40 fpm.
- 1.06 **Quality Assurance**
 - A. Installer Qualifications: A company experienced in the assembly and erection of lifts and residential elevators of the type specified.
 - B. Manufacturer Qualifications: A company specializing in the manufacture of residential elevators and lifts for the disabled.
- 1.07 **Warranty:** Unit shall have a three (3) year limited parts warranty.
- 1.08 **Maintenance**
 - A. Maintenance of the private residential elevator shall consist of regular cleaning and inspection. Maintenance is recommended every 6 months.
 - B. Inspection: ASME A17.1 requires all private residential elevators to be inspected every 12 months.

PART 2 PRODUCTS

- 2.01 **Manufacturer:** National Wheel-O-Vator, a division of ThyssenKrupp Access.
- 2.02 **Components**
 - A. Car:
 1. Size 36"W x 48"D x 84"H (others available).
 2. Enclosure: Securely fastened to the car frame and platform. The car shall be constructed of a minimum 3/4" wood walls. Floorboard shall be constructed of 3/4" AC plywood.
 3. Gate: Accordion or scissors type equipped with a positively opened mechanical switch to indicate that the door is closed. Scissor type gates shall also be designed to prevent car movement if the gate is moved up or down due to any protruding objects encountering an obstruction.
 4. Handrail provided.
 5. Automatic interior lighting provided.
 - B. Hoistway Door: Size 3'0" W x 6'8" H swing type (to be provided by others).
 - C. Drive System: Two speed inverter controlled drive, winding drum or 1:2 roped hydraulic with 2 speed valve.
 - D. Suspension System: (2) 3/8" 7 x 19 aircraft wire rope
 - E. Guide Rail: Shall consist of two 6 1/4 lb tee rails.
 - F. Car Frame: Shall be equipped with non-metallic faced roller guide wheels.
 - G. Leveling device: Provide hall effect sensor system to maintain car within 1/4" of the landing.
 - H. Control Systems: Non-selective collective or single automatic push button PLC; U.L. certified.
 - I. Motor: 3HP, 1750-RPM 208/230 VAC single phase, (three phase with inverter for winding drum)
 - J. Wiring:
 1. Provide flexible traveling cable for electrical light and controls in car.
 2. All other electrical wiring shall be insulated, flame retardant and moisture proof.
 - K. Safety Devices:
 1. Stainless steel slack rope device.
 2. Terminal stopping device.
 3. Platform toe guard at the car entrance.

PART 3 EXECUTION

- 3.01 **Installation**
 - A. All components shall be assembled and erected in strict compliance with manufacturer's printed instructions.
 - B. All wiring shall be in accordance with the wiring diagram furnished by the manufacturer.
- 3.02 **Field Quality Control**
 - A. Static/Running Load Test: All load rating and safety factors shall meet or exceed those specified in ASME A17.1.