

Automatic Electric Disappearing Stairways

Automatic Electric
Disappearing
Stairways



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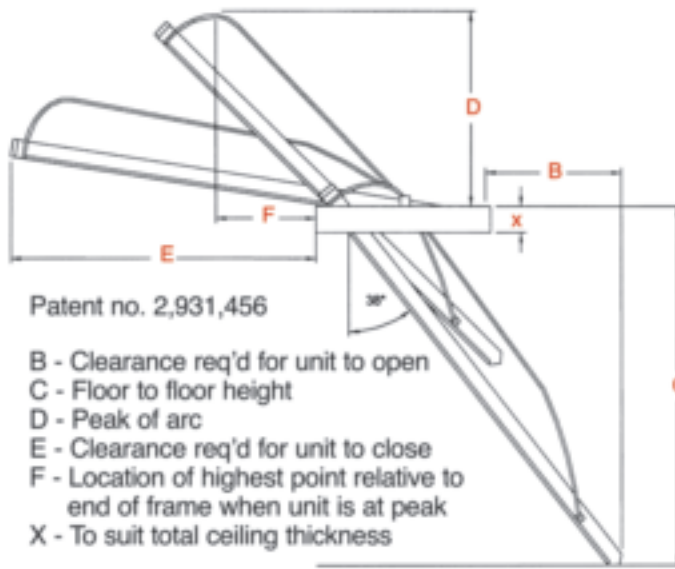
Precision Ladders, LLC • P.O. Box 2279 • Morristown, TN 37816
Phone: (800) 225-7814 or (423) 586-2265 • Fax: (423) 586-2091
email: stairwaysales@precisionladders.com • www.precisionladders.com

Precision Ladders, LLC



Automatic Electric Disappearing Stairways

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Patent no. 2,931,456

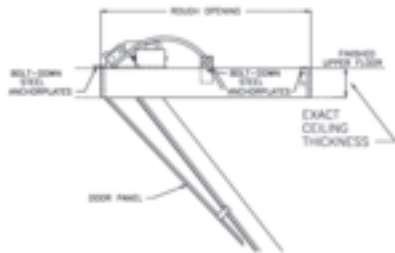
- B - Clearance req'd for unit to open
- C - Floor to floor height
- D - Peak of arc
- E - Clearance req'd for unit to close
- F - Location of highest point relative to end of frame when unit is at peak
- X - To suit total ceiling thickness

		Frame Depth ("X")						
		12"	18"	24"	30"	36"	42"	48"
7'	B	12"						
	D	41"						
	E	53"						
8'	B	18"						
	D	45"						
	E	57"						
9'	B	24"						
	D	49"						
	E	61"						
10'	B	30"	31"	31"				
	D	53"	54"	54"				
	E	65"	66"	66"				
11'	B	36"	37"	37"	41"	41"		
	D	57"	58"	58"	62"	62"		
	E	69"	70"	70"	74"	74"		
12'	B	42"	43"	43"	47"	47"		
	D	63"	64"	64"	68"	68"		
	E	75"	76"	76"	80"	80"		
13'	B	48"	49"	49"	53"	53"		
	D	69"	70"	70"	74"	74"		
	E	81"	82"	82"	86"	86"		

The list above is only a sampling; if the exact floor to floor height is not listed, please call the factory for assistance. Units can be fabricated for floor to floor heights in excess of 20', again please call the factory or the local representative.

Box Frame

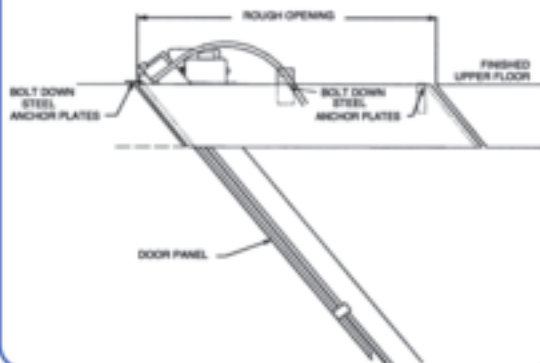
FOR CEILING THICKNESS < 1 1/2"



(MINIMUM FRAME HEIGHTS: 8'-1/4" WHEN USING 1/8" ALUMINUM DOOR OR 9'-1/4" WHEN USING MINERAL CORE DOOR)

52° Angle Frame

FOR CEILING THICKNESS 1 1/2" - 48"



HIGHLIGHTS

- Meets A.N.S.I A14.9-2004 for "Commercial" or Residential" use.
- 1000 lb. capacity
- Rough opening: 30" x 72" (30" x 84" where floor to floor is 14' or greater)
- Frame formed from 1/8" steel sheet
- Handrails/guides: 1 1/16" od galvanized
- Sealed ball bearings
- Motor: 1/3 hp, instantly reversible, pre-wired to control switches
- Stringers: 7" x .230" alum channel
- Treads: 6" x 20 3/8" x .225" alum channel with self-adhesive, anti-slip "Flex Tread".
- Clear tread width: 16 5/8"
- Angle of incline: 52°

OPTIONAL ITEMS

- Key switch at lower level
- Wood veneer, mineral core door
- Warning buzzer
- Emergency manual operation to lower unit
- Custom frame to accommodate dropped ceilings

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DWG Files Available for download @ www.precisionladders.com

Consult factory for custom sizes.

Precision Ladders, LLC



Product Details

Automatic Electric Disappearing Stairways



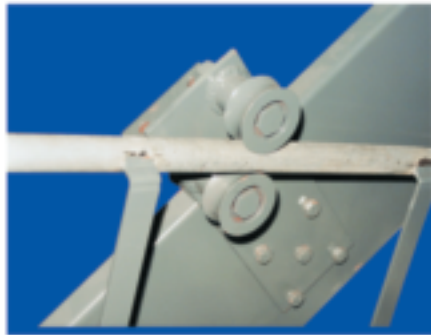
Lower Cable Attachment



Motor Mount



Overhead
Cable Gear



Handrail Roller Guides

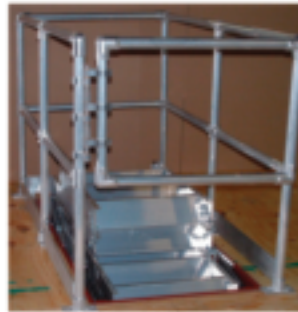


Handrails

Other Products Available From Precision



Super
Simplex
Disappearing
Stairways
with or without
2 Hour
Fire Rating



Safety Guard-Rail for Floor Openings



Ships
Ladders



Roof Hatches

Precision Ladders, LLC



SECTION 11 33 00

Auto Electric Disappearing Stairway

PART 1: GENERAL

1.01 SUMMARY

- A. Automatic Electric Disappearing Stairway including stairway, rail, frame, door, drive unit, motor, and controls/junction box.
- B. Products required, but not supplied under this section.
 - 1. Required fasteners.
 - 2. Three (3) wire cable and box(es) as required by local codes between stairway control/junction box and power supply source and lower level switch.

1.02 SYSTEM DESCRIPTION

- A. The system requires a ceiling opening of 2'6" x 6'0" for floor to floor dimensions up to 14'0", and 2'6" x 7'0" for floor to floor dimensions over 14'0".
- B. Headroom above the second level and behind the at-rest stairway is required. (Consult manufacturer for dimensions)
- C. Unit shall be able to withstand a 2000 lb loading without failure.

1.03 DELIVERY, STORAGE, AND HANDLING

- A. Examine stairway when it arrives on site. Notify the carrier and manufacturer of any damage.
- B. Store stairway until installation under roof, if possible; or, if stored outside, under a tarp or suitable cover.

1.04 WARRANTY

The stairway carries a limited warranty of one (1) year against defective material and workmanship, covering parts only, no labor or freight. Defective parts, if deemed so by the manufacturer, will be replaced at no charge, freight excluded, upon inspection at manufacturer's plant which warrants same.

1.05 MAINTENANCE

- A. Under normal usage, the stairway shall require preventive maintenance as specified in the installation instructions supplied with the unit.
- B. No "spare parts" shall be required.

PART 2: PRODUCTS

2.01 MANUFACTURER

Precision Ladders, LLC
P.O. Box 2279
Morristown, TN 37816
Phone: (800) 225-7814
Fax: (423) 586-2091

2.02 MATERIALS

A. STAIRWAY

- 1. Stringers
 - 1.1 7" x 0.230" extruded aluminum channel.
 - 1.2 Steel rollers at base of each stringer.
 - 1.3 Pitch 52' (standard). Other pitches optional.
- 2. Treads
 - 2.1 Aluminum channel
6" x 20 3/16" x 0.225".
 - 2.2 Treads covered with nonskid safety material
 - 2.3 9 1/2" riser height (std).
Other heights available.

B. RAILS

Hand/guide rails 1 1/16" O.D. galvanized, both sides.

C. FRAME

- 1. 1/8" steel formed channel.
- 2. Height to suit total ceiling thickness.

D. DOOR

- 1. 1/8" aluminum panel (std) or 1 3/4", wood veneer, mineral core door. (optional)
- 2. Steel piano hinge.

E. DRIVE UNIT

- 1. 1/3 horsepower, 115 volt instantly reversible motor direct-connected to a reduction gear drive, complete with contactors.
- 2. Pre-wired control switches.

F. HARDWARE

- 1. Sealed ball bearing guides.
- 2. Double 1/8" aircraft cable drive.

G. MANUFACTURED UNITS

The Automatic Electric Disappearing Stairway is a Model AE---. (** floor to floor height in inches)

H. ACCESSORIES

- 1. Emergency manual operation to lower (only) if power fails from above (std).
- 2. Optional: same as 1, but from below.
- 3. Key operated dead-man type wall switch, in place of standard toggle switch.
- 4. Warning buzzer (optional).

I. FABRICATION

The stairway is completely fabricated ready for installation before shipment to the site.

J. FINISHES

- 1. Mill finish on aluminum stairway components.
- 2. Prime coat on frame.
- 3. Galvanized handrails.

PART 3: EXECUTION

3.01 EXAMINATION

Examine rough opening in ceiling for opening size and squareness.

3.01 INSTALLATION

Install per the manufacturer's installation instructions.

3.02 FIELD QUALITY CONTROL

The manufacturer has representatives in all areas of the United States and Canada. For the name of the closest representative, call (800) 225-7814.