

ADA Entrance Accessibility

- Objective 1 Latch requirements for an opening
- Objective 2 Characteristics of a clear opening
- Objective 3 Opening force requirements for an opening
- Objective 4 Closing speed requirements for a door
- Objective 5 Identify the need for an automated opening
- Objective 6 Minimum speed requirements for an auto operator door





ADA Entrance Accessibility





Codes, regulations, and applications as they pertain to builders hardware and HEALTH, WELFARE, and SAFETY of building occupants.



ADA



WHY IS IT IMPORTANT TO YOU?



Common Complaints

"I can't eat at that restaurant."

" I can't see a movie at that theater."

"I can't check into that hotel."

"I can't shop at that store."

"I can't use that restroom."

"I can't take that cruise."

"I can't communicate with that police officer."

" I can't use the Internet "

"I can't take classes at that school."

"I can't be treated at that hospital."



ADA Facts





"Within 27 years, the population age of 65+ years will increase +60% & 1-in-5 adults will be 65+ years"

Source: The Aging States Project Study

"Businesses have had 13 years to meet the ADA's requirements. There's no longer an excuse for violations at this time"

> National Organization on Disabilities (N.O.D.), President Alan A. Reich



ADA Facts

Being ADA compliant is good business—20% of Americans are disabled and the number of roving "professional plaintiffs" will only grow. An ADA access lawsuit could cost you \$10,000-\$100,000 or more (settlements average \$45,000+ in some areas); why risk that exposure?



Why Is ADA Important To You?

It is a Federal Civil Rights LAW!



- Signed into law July 26, 1990
- Enforced by the Dept. of Justice
- Over 54 Million Americans with Disabilities
- Thousands of Lawsuits Filed
- Millions of \$\$\$\$\$ Awarded



Reasons to Comply

"EEOC SETTLES ADA LAWSUIT FOR \$220,000 AGAINST MAJOR ARKANSAS AUTO DEALERSHIP"

"Justices side with disabled in lawsuit issue"

"Disabled win victory in ruling over access to government buildings"



Standards

Department of Justice

28 CFR Part 36

Revised as of July 1, 1994

Nondiscrimination on the Basis of Disability by Public Accommodations and in Commercial Facilities

Excerpt from 28 CFR Part 36:

ADA Standards for Accessible Design



American National Standard





ADA Category Overview

Employment (Title I)

Telecommunications
(Title IV)

Miscellaneous (Title V)

ADA Law

Public Service (Title II)

Public Accommodations (Title III)





What is the Intent of Title III?

Essentially, owners of certain types of buildings must remove barriers and provide people with disabilities with access equal to, or similar to, that available to the general public.



ADA Accessibility Spaces

Getting To The Building

Parking - - Ground Surfaces

Curb Ramps -

- Accessible Routes

Getting In The Building

Exterior Openings - Opening Hardware

Opening Dimensions - - Threshold Surfaces

Opening Forces •

Stairs - Ramps

Chair Lifts - - Building Elements

Interior Openings - Personal Care Areas

Allowable Space

Moving Around The Building

Alarm / Emergency communication

Telephones -

Signage

Seating - Mirrors

Windows - - Toilets / Urinals

Hand rails / Grab Bars - Lavatory Fixtures

Water coolers / fountains /- - Sinks / showers / tubs

Using The Building Elements



Accessible

Elements

Spaces

Six Things You Need to Know About ADA Accessibility

- Objective 1 Latch requirements for an opening
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Objective One



Describe the Latch Requirements

8 8 8 8 8 8 8

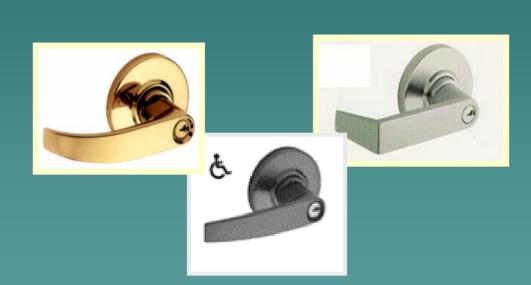




Latch Requirements

Which group of locks does not meet ADA?





ADA Compliant



Latch Requirements

- Easy to grasp with one hand
- No twisting wrist

LEVERS

or Push Pull







Objective Two

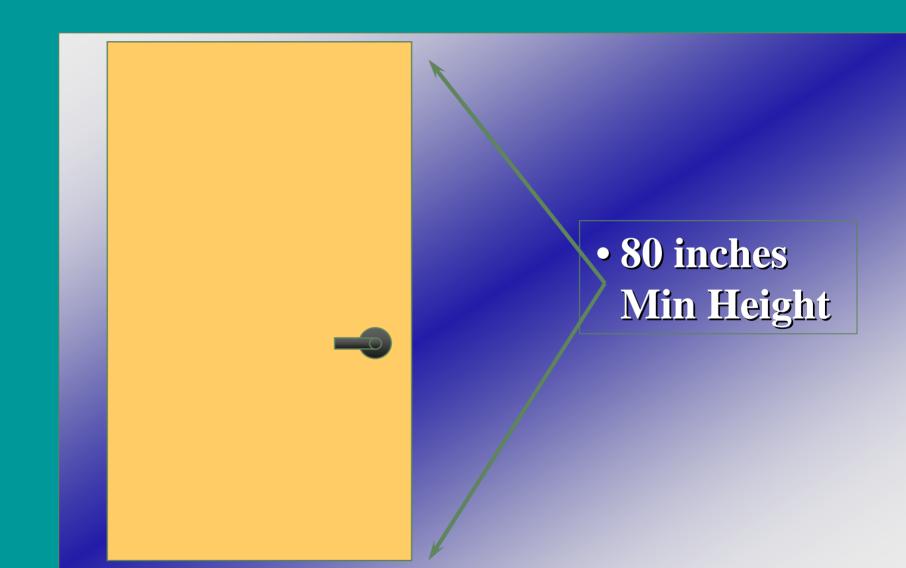
Describe the
Characteristics

of a

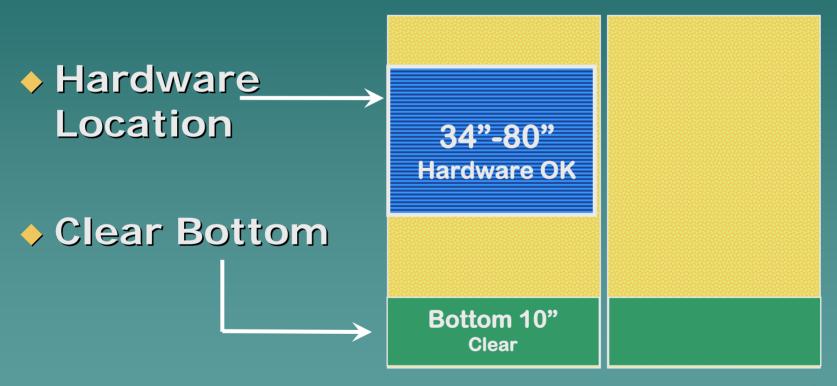
Clear Opening



Clear Opening



Clear Opening



Note: Exit Device not affected if mounted above 34"



Clear Opening

- Thresholds
 - 1/2 inch Maximum TOTAL
 - 1/4 inch increment
- Elevation
 - Extend out equal to door width
- Maneuvering Area





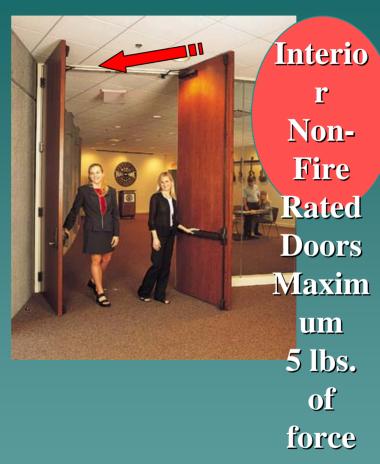
Objective Three





Opening Force Requirements







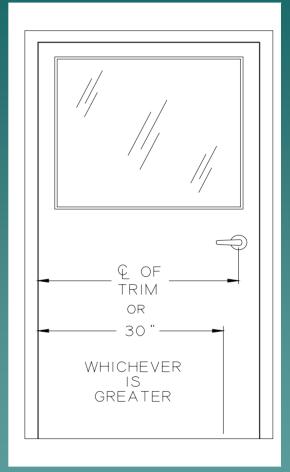
Opening Force Requirements

 Measure 30" from Hinge or Centerline of Trim, whichever is greater

 Open to 3" out of latch, apply gauge, then open to 70° (recommended not required)



ADA







Mechanical Door Closers





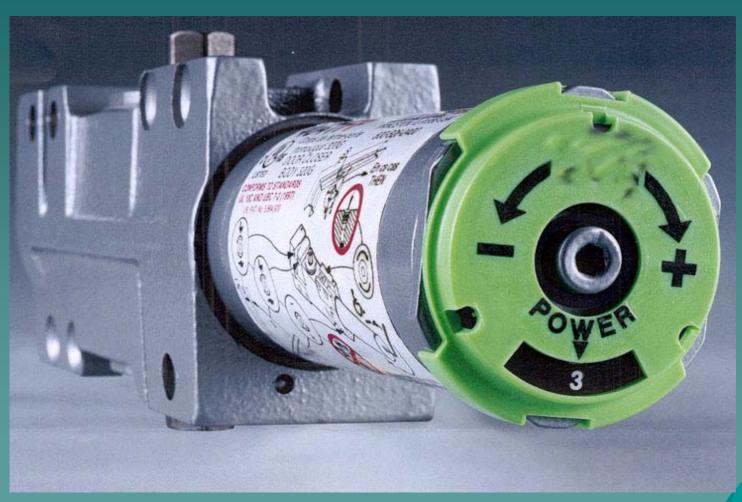








Adjust to a Size 1





Objective Four

Identify the Closing Speed Requirements



Closing Speed Requirements

ADA Accessibility Guidelines 4.13.10

- Sweep period 3 seconds minimum
 - from an open position of 70 degrees to a point 3 inches from the latch
 - Measured to the leading edge of the door
- Delayed action is not a code requirement



Limitations of manual door closers

5 lbs. Opening force = 3 lbs. Closing force

- Weather-stripping
- Stack pressures
- Windy Conditions
- Door and Frame misalignment
- Hinge Bind
- Threshold rub
- Latch bolt alignment



Objective Five

Identify the Need for an Automated Opening



DOES THE ADA LAW REQUIRE THE USE OF OPERATORS?

YES or NO?

Answer: NO



However, what are the <u>4</u> <u>expectations</u> of the disabled as they approach a building?



1. An Accessible Path to the Building

"Accessible handicapped parking must be located on the shortest accessible route to the accessible entrance."



2. An Accessible Path into the Building

Where's the button??

What are the disabled looking for as they are approaching the entrance?



3. An Accessible Path throughout the Building





4. An Accessible Path out of the Building

Where's the button??

What are the disabled looking for as they are approaching the exit?





Objective Six

Identify the Minimum Speed Requirements for an Automatic Door



Minimum Speed Requirements



- Low Energy Vs. High Energy (Swing)
 - Low energy operators
 - Types used for handicap entrances, etc.
 - No guard rails or safety mats needed

- High energy operators (Swing)
 - Types used in Supermarkets
 - Guard rails or safety mats Required



Minimum Speed Requirements

Low Energy

- 3 seconds to backcheck &4 seconds to fully open
- No more than 15 lbs. of force to stop door movement
- Does not require guard rails, safety mats, canceling scanners
- Must comply with ANSI/BHMA A156.19

High Energy (Swing)

- 1.5 seconds to backcheck
- No more than 40 lbs. of force to stop door movement
- Requires guard rails, safety mats, canceling scanners
- Must comply with ANSI/BHMA A156.10

A156.19 Function Requirements

Low Energy:

- Must remain fully open for at least 5 seconds
- Minimum closing time
 - from 90° to 10° minimum of 3 seconds
 - from 10° to fully closed minimum of 1.5 seconds
- In event of failure
 - less than 15 lbf. to release latch
 - less than 30 lbf. to put door in motion
 - less than 15 lbf. to fully open door
- Signage visible from either side of the door.
- 300,000 cycles

Low Energy Power Operators

Electro-hydraulic





Electro-mechanical





Electromechanical Heavy Duty



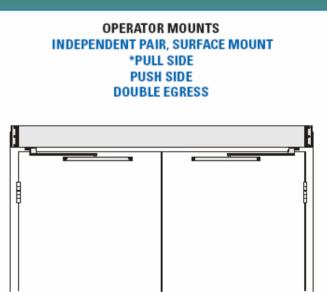
Primarily Automatic Openings



Electromechanical – Heavy Duty

- ◆ Power Boost™
- 10 million cycles vs. ANSI
 300K
- Adjustable opening force & speed
- Full automation & sensing
- Overhead concealed
- Full length cover option
- Auto reverse on open & close
- Alternate action
- Reduced opening force





Applications

- Main entrance/Exterior door (product that exceeds 300,000 ANSI std.)
- High use/High abuse openings
- Motion Sensor Activation
- Hospital Corridors
- Nursing Homes

Electrohydraulic

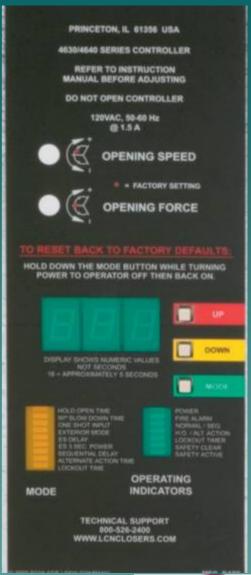


Primarily Manual Openings



Electrohydraulic-Heavy Duty

- Digital Control Suite
- Utilizes a 10 Million Cycle
 Heavy Duty Door Closer
- On-Board Diagnostics
- Built-in Power Supply
- Plug-and-Play Connections
- No-Destruct Feature
- 3 million cycles vs. ANSI 300K

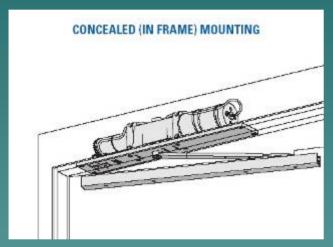


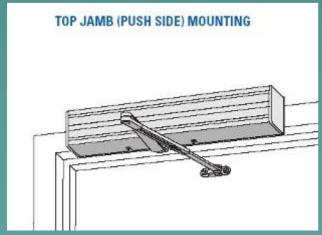


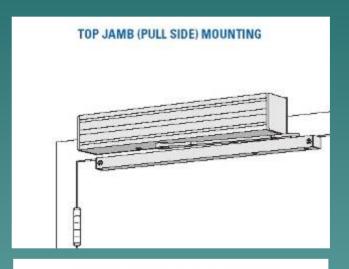
Applications

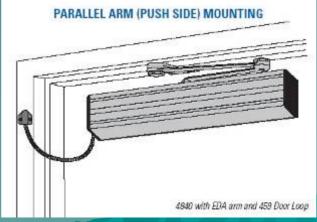
- Main Entrance/Exterior Door Primarily manual traffic
- Push Button Activation
- High use/High abuse openings
- Schools
- Retail
- Restrooms

Electrohydraulic, Pneumatic System











Pneumatic System

- Quiet
- Explosive environment
- Multi-door solution
- Wind conditions
- Manual operation
- Blow-open for smoke evacuation systems





Electromechanical Standard Duty



Primarily Automatic Opening

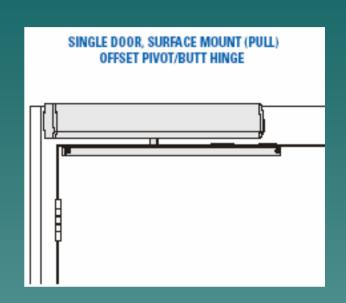


Primarily Automatic Opening

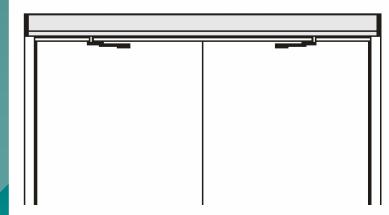
Full length cover option

- Premium control box option
 - Power supply powers E.S.,
 Mag. Locks, motion detectors
 - Power BoostTM





PAIR DOOR, SURFACE MOUNT (PUSH)
OFFSET PIVOT/BUTT HINGE



Summary

- Enabling Objectives
- Objective 1 Describe latch requirements for an opening
- Objective 2 Identify the characteristics of a clear opening
- Objective 3 Describe the opening force requirements for an opening
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What is important to the building owner?

Accessibility

- Public accommodation
- Meeting the needs of the disabled

Compliance

- Code
- Law

Security

- Controlled Access
- Accountability

Safety

- Doors & hardware working properly
- Proper hardware on each opening



The Cost of Not Complying

ADA lawsuits flood courts

Several local business owners could end up closing their restaurants or pay out hundreds of thousands of dollars to make repairs and settle with a wheelchair-bound man who calls himself "The Sheriff."



"The Sheriff" strikes again

The wheelchair-bound man suing hundreds of businesses in California for not being compliant with the Americans with Disabilities Act (ADA) has now served dozens of lawsuits to business owners in one Central Coast town.

ADA Lawsuits in South Florida

ADA Suits Close Another Beloved Eatery

A Florida-advocacy group for disabled persons has filed three lawsuits this week against businesses in two Maryland cities for alleged non-compliance with the Americans with Disabilities Act.



Remember, it's against the law to Discriminate

