Fig. 1  Minimum Clear Width For Single Wheelchair

Fig. 2  Minimum Clear Width For Two Wheelchairs

Fig. 3  Wheelchair Turning Space

(a) 60 (1525 mm) DIAMETER SPACE

(b) T-Shaped Space For 180° Turns

24 max. depth
for min. clearance
**Fig. 4**  
Minimum Clear Floor Space For Wheelchairs

**Fig. 5**  
Forward Reach

---

**Section 400, Illustration B, Figures 4-5**

- **Clear Floor Space**
  - (a) Clear Floor Space
  - (b) Forward Approach
  - (c) Parallel Approach
  - (d) Clear Floor Space In Alcoves
  - (e) Additional Maneuvering Clearances for Alcoves

- **Note:**
  - If X > 24" (610 mm), then an additional maneuvering clearance of 6" (150 mm) shall be provided as shown.
  - If X > 15" (380 mm), then an additional maneuvering clearance of 12" (305 mm) shall be provided as shown.

- **Fig. 4:**
  - (a) Minimum clear floor space for wheelchairs

- **Fig. 5:**
  - (a) High forward reach limit
  - (b) Maximum forward reach over an obstruction

---

**Notes:**
- x shall be ≤ 25" (635 mm); z shall be ≥ x.
- When x < 20" (510 mm), then y shall be 48" (1120 mm) maximum.
- When x is 20"–25" (510 to 635 mm), then y shall be 44" (1120 mm) maximum.
Section 400, Illustration B, Figures 6-7

**Fig. 6**
Side Reach

(a) Clear Floor Space—Parallel Approach

(b) High And Low Side Reach Limits

(c) Maximum Side Reach Over An Obstruction

**Fig. 7**
Accessible Route

(a) 90° Turn

(b) Turning Around an Obstruction

Note: Dimensions Shown Apply When \( X < 48 \) (1220 Mm)

(c) Changes In Level

(d) Changes In Level
**Fig. 8**

Protruding Objects (continued)

_Protect shaded area from traffic._

- **Fig. 8(a)**
  - Walking Parallel To A Wall

- **Fig. 8(b)**
  - Walking Perpendicular To A Wall

- **Fig. 8(c)** Free – Standing Overhanging Objects

**Fig. 8(c-1)** Overhead Hazards

- **Fig. 8(d)**
  - Objects Mounted on Posts Or Pylons
  - Clear Width
  - Any Amount
  - 27 Or Below
  - 685

**Fig. 8(e)**

Lobby

- 2000
- 4 max
- 100
- 80 min.
- Higher Than 27
- 685

**Cane Detection Area**

- Greater Than 27
- 305
- 885
- 27
- Max

**Elevation**

- Cane Range
- Cane Range
- Cane Range
- Cane Range

**Plan**

- 12 max.
- 305
- 885
- 305
- 27

Section 400, Illustration B, Figure 8
Fig. 8(e)  Example of Protection around Wall-Mounted Objects and Measurements of Clear Widens

Fig. 8(f)  Carpet Pile Thickness

Fig. 8(g)  Gratings

Fig. 8(h)  Grating Orientation

Fig. 8  Protruding Objects (Continued)

Section 400, Illustration B, Figure 8 (Continued)
Section 400, Illustration B, Figures 9-10

(a) Standard IL Design

(b) Universal Parking Space Design

**Fig. 9**
**Dimensions Of Parking Spaces**
(Typical Parking Spaces for 45°, 60°, and 90° Arrangements)

**Fig. 10**
Access Aisle at Passenger Loading Zones
Section 400, Illustration B, Figures 11-13

**Fig. 11**
Measurement Of Curb Ramp Slopes

**Fig. 12**
Sides Of Curb Ramps

**Fig. 13**
Built-up Curb Ramp
FIG. 15
Curb Ramps at Marked Crossings
Fig. 16
Components Of A Single Ramp And Sample Ramp Dimensions

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<th>Slope</th>
<th>Maximum Rise</th>
<th>Maximum Horizontal Projection</th>
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<td>30 ft</td>
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Fig. 17
Examples of Edge Protection and Handrail Extensions
Section 400, Illustration B, Figures 18-19

**Fig. 18**
Usable Tread Width and Examples of Acceptable Nosings

**NOTE:**
X is the 12 minimum handrail extension required at each top riser.
Y is the minimum handrail extension of 12 plus the width of one tread that is required at each bottom riser.

**Fig. 19**
Stair Handrails
Note: The automatic door reopening device is activated if an object passes through either line a or line b. line a and line b represent the vertical locations of the door reopening device not requiring contact.

Fig. 20
Hoistway and Elevator Entrances

Fig. 21
Graph of Timing Equation
Section 400, Illustration B, Figures 22-23

Fig. 22
Minimum Dimensions of Elevator Cars

Fig. 23
Car Controls

Panel Detail
- 3/4 control button diameter
- 19 control button diameter
- 70 80 120 octagon symbol shall be raised but x is not
- 50 60 main entry door closed
- 60 main entry floor
- 16 emergency alarm
Clear Doorway Width And Depth

Section 400, Illustration B, Figures 24-25

Fig. 24

Fig. 25 Maneuvering Clearance at Doors
Section 400, Illustration B, Figure 26

(d) Front Approaches – Sliding Doors and Folding Doors

(e) Slide Side Front Approaches – Sliding Doors and Folding Doors

(f) Latch Side Front Approaches – Sliding Doors and Folding Doors

Note: All Doors In Alcoves Shall Comply With The Clearances For Front Approaches

Fig. 25
Maneuvering Clearances at Doors (Continued)
Section 400, Illustration B, Figure 27

(a) Spout Height And Knee Clearance
(b) Clear Floor Space

(c) Free Standing Fountain or Cooler
(d) Built-In Fountain or Cooler

Fig. 27
Drinking Fountains and Water Coolers
Section 400, Illustration B, Figures 28-29

Fig. 28 Clear Floor Space at Water Closets

Fig. 29 Grab Bars at Water Closets
Section 400, Illustration B, Figures 30-32

Fig. 30
Toilet Stalls

Fig. 31
Lavatory Clearances

Fig. 32
Clear Floor Space At Lavatories
Fig. 33
Clear Floor Space at Bathtubs

Fig. 34
Grab Bars at Bathtubs
Section 400, Illustration B, Figures 35-37

Fig. 35
Shower Size and Clearances

(a) 36-in By 36-in Stall
(915-mm by 915-mm) Stall

(b) 30 by 60 (760-mm by 1525-mm) Stall

Fig. 37
Grab Bars at Shower Stalls

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Fig. 39
Size and Spacing of Handrails and Grab Bars
Fig. 40
Strips and Grooves Used as Detectable Warnings on Walking Surfaces
Fig. 41
Detectable Warning At Stairs

Fig. 42
Detectable Warning At Hazardous Vehicular Areas
Section 400, Illustration B, Figure 43

(a) Proportions
International Symbol of Accessibility

(b) Display Conditions
International Symbol of Accessibility

(c) International TDD Symbol

(d) International Symbol of Access for Hearing Loss

Fig. 43
International Symbols
Section 400, Illustration B, Figure 44

Forward Reach Required

Side Reach Possible

*Height to highest operable parts which are essential to basic operation of telephone
Fig. 45
Minimum Clearances for Seating and Tables

Fig. 46
Space Requirements for Wheelchair Seating Spaces in Series
Section 400, Illustration B, Figure 50

(a) Before Removal Of Cabinets And Base

(b) Cabinets And Base Removed: Height Alternatives

(c) Clear Floor Space Under Work Surface

Fig. 50
Counter Work Surface
Section 400, Illustration B, Figures 51-52

(a) Before Removal Of Cabinets And Base

(b) Suggested Flexible Supply Lines
Suggested Slip Joint in Tail Piece

Adjustable Counter Segment

 fe

Cabinets and Base Removed: Height Alternatives

Fig. 51
Kitchen Sink

Fig. 52
Ovens Without Self-cleaning Feature

Symbol Key:
1. Countertop or wall mounted over
2. Pull-out board with side-opening door
3. Clear open space
4. Bottom-hinged door
5. Range oven
6. Preferred clear open space
Section 400, Illustration B, Figure 57

Fig. 57
Roll-in Shower With Folding Seat
Effective January 1, 1985, Public Act 83-1316 amended Sec. 11-301 of "The Illinois Vehicle Code" to require Handicapped Parking Signs (for parking lots subject to "The Illinois Vehicle Code") to comply with R 7-8 sign shown below (U.S. Department of Transportation Standard). Existing signs may remain, but their useful lives shall not be extended by other means than normal maintenance.

Note:
This is a standard sign and may be ordered from any traffic sign supplier by number. The arrow should be omitted where there is only one space. The arrow may also be made to point in only one direction. The arrow may also be replaced by "time" such as 9 AM - 5 PM where a part time restriction exists. The sign must be supplemented with the Illinois Standard R7-1101 plate giving the amount of the fine for illegally parking in the reserved space(s).

COLORS

LEGEND AND BORDER—PANTONE 340C
WHITE SYMBOL ON PANATONE 286 BACKGROUND
BACKGROUND—WHITE

* REDUCE SPACING 80%

Rev. 12/95
Section 400.ILLUSTRATION D "$100 Fine" Sign

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ILLINOIS STANDARD
R7-I101

COLOR: LEGEND AND BORDER   GREEN NON-REFLECTORIZED
(PANTONE 340C)

BACKGROUND   WHITE REFLECTORIZED

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All Dimensions in Inches
To be used with R7-8
*$_=$Series 3A "s"

Where a fine in excess of $100 is established by an Municipality By Ordinance in accordance with the statutes, the actual amount of the fine should be shown.

This plate may be mounted directly below the R7-8 sign or combined with that sign on a single 12-inch by 24-inch panel.

Note: For a fine of $200, use F=4.0 and G=4.0 (reduce letter to letter spacing as necessary to fit).