

# **The Composite List of Changes**

made by the

**A117**

**Task Group on  
Editorial Changes**

FOR THE

A117.7-2003

**January 31, 2004**

**The following pages contain a composite list of the editorial changes for the 2003 edition of A117.1 Standard on Accessible and Useable Buildings and Facilities made by the A117 Task Group on Editorial Changes (TGEC).**

**The TGEC believes all of the proposed changes are editorial in nature, do not change the intent of the provision, and are not “substantive” as defined in the ANSI Essential Procedures.**

## **NOTE**

The item shown in this document contain all of the changes made by the TGEC, including those that were shown in Draft #c. Draft #c was submitted to the full Committee as Final Committee Action (FCA) Agenda Number FCA-119 (Log # FCA-128), that received Committee Action of Accept Proposed Change as Modified by Committee on all other FCA Agenda Items. Other changes shown in this document are a result of changes accepted by the TGEC during the final editing of the 2003 edition.

Changes made by the Secretary since the TGEC Final Consideration Items dated November 30, 2003, and not previously presented to the TGEC are shown in highlighted text and/or and asterisk (\*) that precedes the designation of the change. These changes have also been incorporated into the FINAL PROOFING DRAFT Z-3.

The Section numbers shown in this document match those of the  
FINAL PROOFING DRAFT Z-3.

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# Composite List of TGEC Changes

on the development of the  
**A117.1 - 2003 Edition**

## INDEX

Chapter #1 .....	1
Chapter #2 .....	3
Chapter #3 .....	4
Chapter #4 .....	8
Chapter #5 .....	26
Chapter #6 .....	30
Chapter #7 .....	45
Chapter #8 .....	55
Chapter #9 .....	63
Chapter #10 .....	65
Last Page .....	79



# CHAPTER 1

## Application and Administration

### FCA-119 (Draft #c)

#### **101 Purpose**

The ~~technical criteria specifications~~ in Chapters 3 through 9, and Sections 1002, 1003 and 1005 of this standard make sites, facilities, buildings and elements accessible to and usable by people with such physical disabilities as the inability to walk, difficulty walking, reliance on walking aids, blindness and visual impairment, deafness and hearing impairment, in coordination, reaching and manipulation disabilities, lack of stamina, difficulty interpreting and reacting to sensory information, and extremes of physical size. The intent of these sections ~~of the standard~~ is to allow a person with a physical disability to independently get to, enter, and use a site, facility, building, or element.

Section 1004 of this standard provides ~~technical~~ criteria for Type B units. These criteria are intended to be consistent with the intent of ~~only the technical criteria~~ of the U.S. Department of Housing and Urban Development (HUD) Federal Fair Housing Accessibility Guidelines. ~~The These~~ Type B units are intended to supplement, not replace, Accessible units or Type A units as specified in this standard.

### TGEC-000

**104.1 General.** Where specific ~~criterion~~ criteria of this standard differ from the general criteria of this standard, the specific ~~criterion~~ criteria shall apply.

### TGEC-000 & FCA-119 (Draft #c)

**104.3 Figures Graphics.** Unless specifically stated ~~otherwise~~, figures included herein are provided for informational purposes only and are not considered part of the standard ~~and are provided for informational purposes only~~.

### TGEC-000

**104.4 Floor or Floor Surface.** The terms floor or floor surface refer to the finish floor surface or ground surface, as applicable.

### TGEC-000

**104.5 Referenced Sections.** Unless specifically stated otherwise, a reference to another section or subsection within this standard includes all subsections of the referenced section or subsection.

## **FCA-119 (Draft #c)**

**106.2 Terms Defined in Referenced Standards.** Terms ~~not defined in this section, but~~ specifically defined in a referenced standard, and not defined in this section, shall have the specified meaning from the referenced standard, ~~unless otherwise stated~~.

## **\*TGEC-000 & FCA-119 (Draft #c)**

**106.3 Undefined Terms.** The meaning of terms not specifically defined in this standard document or in a referenced standards shall be as defined by collegiate dictionaries in the sense that the context implies.

## **TGEC-000**

**counter slope:** Any slope opposing the running slope of a curb ramp ~~or ramp~~.

## **TGEC-000**

**destination-oriented elevator system:** An elevator system that provides lobby controls for the selection of destination floors, lobby indicators designating which elevator to board, and a car indicator designating the floors at which the car will stop.

# CHAPTER 2

## Scoping

### **FCA-119 (Draft #c)**

#### **201 General**

This standard provides technical criteria for making sites, facilities, buildings, and elements accessible. The administrative authority shall provide scoping provisions to specify the extent to which these technical criteria apply. These scoping provisions shall address the application of this ~~the~~ standard to: each building and occupancy type; new construction, alterations, temporary facilities, and existing buildings; specific site and building elements; and to multiple elements or spaces provided within a site or building.

### **FCA-119 (Draft #c)**

#### **202 Dwelling and Sleeping Units**

Chapter 10 of this standard contains dwelling unit and sleeping unit ~~technical~~ criteria for Accessible units, Type A units, Type B units, and units with accessible communication features. The administrative authority shall specify, in separate scoping provisions, the extent to which these technical criteria apply. These scoping provisions shall address the types and numbers of units required to comply with each set of unit criteria.

# CHAPTER 3

## Building Blocks

### \*TGEC-000

**301.1 Scope.** The provisions of ~~this~~ Chapter **3** shall apply where required by the scoping provisions adopted by the administrative authority or by Chapters 4 through 10.

### TGEC-000

**302.2 Carpet.** Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. ~~The pile height~~ shall be ½ inch (13 mm) maximum in height. Exposed edges of carpet shall be fastened to the floor surfaces and shall have trim along the entire length of the exposed edge. Carpet edge trim shall comply with Section 303.

### TGEC-000

**303.2 Vertical.** Changes in level of ¼ inch (6 mm) ~~high~~ maximum in height shall be permitted to be vertical.

**303.3 Beveled.** Changes in level ~~between~~ greater than ¼ inch (6 mm) ~~high~~ minimum in height and not more than ½ inch (13 mm) ~~high~~ maximum in height shall be beveled with a slope not steeper than 1:2.

**303.4 Ramped.** Changes in level greater than ½ inch (13 mm) in height shall be ramped and shall comply with Sections 405 or 406.

### \*TGEC-000 & FCA-119 (Draft #c)

**304.3.1 Circular Space.** The turning space shall be a circular space with a not less than 60 inches (1525 mm) minimum diameter ~~minimum~~. The turning space shall be permitted to include knee and toe clearance complying with Section 306.1.

(Using the format of having the term “minimum” or “maximum” follow and given dimension, and after consultation with the TGEC Chair, it was determined the term should be “60 inch (1525 mm) minimum diameter...”.)

**\*TGEC-000**

**304.3.2 T-Shaped Space.** The turning space shall be a T-shaped space within a 60 inch (1525 mm) minimum square ~~minimum~~ with arms and base 36 inches (915 mm) ~~wide~~ minimum in width. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. ~~Such~~ The turning space shall be permitted to include knee and toe clearance complying with Section 306 only at the end of either the base or one arm.

(Using the format of having the term “minimum” or “maximum” follow and given dimension, and after consultation with the TGEC Chair, it was determined the term should be “ 60 inch (1525 mm) minimum square...”.)

**TGEC-000**

**304.4 Doors Swing.** Unless otherwise specified, doors shall be permitted to swing into turning spaces.

**TGEC-000**

**305.3 Size.** The clear floor space shall be ~~30~~ 48 inches (1220 mm) minimum in length and by ~~48~~ 30 inches (760 mm) minimum in width.

**\*TGEC-000**

**305.7 Alcoves Maneuvering Clearance.** If a clear floor space is in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearances complying with Sections 305.7.1 and 305.7.2 shall be provided, as applicable.

**TGEC-000**

**305.7.1 Forward Approach.** Where the clear floor space is positioned for a forward approach, the ~~width of an~~ alcove shall be 36 inches (915 mm) minimum in width where the depth exceeds 24 inches (610 mm).

**TGEC-000**

**305.7.2 Parallel Approach.** Where the clear floor space is positioned for a parallel approach, the ~~width of an~~ alcove shall be 60 inches (1525 mm) minimum in width where the depth exceeds 15 inches (380 mm).

**FCA-119 (Draft #c)**

**306.2.1 General.** Space beneath ~~under~~ an element between the ~~finish~~ floor or ground and 9 inches (230 mm) above the floor or ground shall be considered toe clearance and shall comply with Section 306.2.

## **TGEC-000**

**306.2.5 Width.** Toe clearance shall be 30 inches (760 mm) ~~wide~~ minimum in width.

## **FCA-119 (Draft #c)**

**306.3.1 General.** Space beneath ~~under~~ an element between 9 inches (230 mm) and 27 inches (685 mm) above the ~~finish~~ floor or ground shall be considered knee clearance and shall comply with Section 306.3.

## **TGEC-000**

**306.3.3 Minimum Depth.** Where knee clearance is required beneath an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) ~~deep~~ minimum in depth at 9 inches (230 mm) above the floor, and 8 inches (205 mm) ~~deep~~ minimum in depth at 27 inches (685 mm) above the floor.

## **TGEC-000**

**306.3.5 Width.** Knee clearance shall be 30 inches (760 mm) ~~wide~~ minimum in width.

## **TGEC-000**

**307.2 Protrusion Limits.** Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the floor shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

### **EXCEPTIONS:**

1. Handrails shall be permitted to protrude 4<sup>1</sup>/<sub>2</sub> inches (115 mm) maximum.
2. Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the floor.

## **TGEC-000**

**307.4 Reduced Vertical Clearance.** Guardrails or other barriers shall be provided where object protrusion is beyond the limits allowed by Sections 307.2 and 307.3, and where the vertical clearance is less than 80 inches (2030 mm) above the floor high. The leading edge of such guardrail or barrier shall be 27 inches (685 mm) maximum above the floor.

~~**EXCEPTION:** Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the floor.~~

**309.4 Operation.** Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5.0 pounds (22.2 N) maximum.

**EXCEPTION:** Gas pump nozzles shall not be required to provide operable parts that have an activating force of 5.0 pounds ~~#4#~~ (22.2 N) maximum.

# CHAPTER 4

## Accessible Routes

### \*TGEC-000

**401.1 Scope.** Accessible routes required by the scoping provisions adopted by the administrative authority shall comply with the applicable provisions of ~~this~~ Chapter 4.

### TGEC-000

#### 402 Accessible Routes

**402.1 General.** Accessible routes shall comply with Section 402.2.

**402.2 Components.** Accessible routes shall consist of one or more of the following components: Walking surfaces with a slope not steeper than 1:20, doors and doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable portions of this standard.

**402.3 ~~404.2.1~~ Revolving Doors, Revolving Gates and Turnstiles.** Revolving doors, revolving gates and turnstiles shall not be part of an accessible route.

### TGEC-000

Table 403.5 - Clear Width of an Accessible Route

Segment Length	Minimum Segment Width
= 24 inches (610 mm)	32 inches (815 mm) <sup>1</sup>
> 24 inches (610 mm)	36 inches (915 mm)

<sup>1</sup> Consecutive segments of 32 inches (815 mm) in width ~~wide~~ must be separated by a route segment 48 inches (1220 mm) ~~long~~ minimum in length and 36 inches (915 mm) ~~wide~~ minimum in width.

### TGEC-000

**403.5.1 Clear Width at Turn.** Where an accessible route makes a 180 degree turn around an object that is less than 48 inches (1220 mm) ~~wide~~ in width, clear widths shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum during the turn, and 42 inches (1065 mm) minimum leaving the turn.

**EXCEPTION:** ~~This requirement~~ Section 403.5.1 shall not apply where the clear width at the turn is 60 inches (1525 mm) minimum.

**TGEC-000**

**403.6 Handrails.** Where handrails are required at the side of a corridor they shall comply with Sections 505.4, 505.5, 505.6, 505.7, 505.8, and through 505.9.

**TGEC-000**

~~404.2.1 Revolving Doors, Revolving Gates and Turnstiles.~~ Revolving doors, revolving gates and turnstiles shall not be part of an accessible route. **(Moved to new 402.3)**

**TGEC-000**

**404.2.2 Clear Width.** Doorways shall have a clear opening width of 32 inches (815 mm) minimum. The clear opening width of doorways with swinging doors shall be measured between the face of door and stop, with the door open 90 degrees. Openings, doors, and doorways without doors more than 24 inches (610 mm) ~~deep~~ in depth shall provide a clear opening width of 36 inches (915 mm) minimum. There shall be no projections into the clear opening width lower than 34 inches (865 mm) above the floor. Projections into the ~~minimum~~ clear opening width ~~more than~~ between 34 inches (865 mm) and ~~up to~~ 80 inches (2030 mm) above the floor ~~is permitted but~~ shall not exceed 4 inches (100 mm).

**EXCEPTIONS:**

1. Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the floor.
2. In alterations, a projection of 5/8 inch (16 mm) maximum into the required clear opening width shall be permitted for the latch side stop.

**\*TGEC-000 & FCA-119 (Draft #c)**

**404.2.3 Maneuvering Clearances at Doors.** Minimum maneuvering clearances at doors shall comply with Section 404.2.4.1 through 404.2.4.7, and shall include the full clear opening width of the doorway.

**FCA-119 (Draft #c)**

**404.2.3.1 Swinging Doors.** Swinging doors shall have maneuvering clearances complying with Table 404.2.4.1.

**Table 404.2.3.1 - Maneuvering Clearances at Manual Swinging Doors**

TYPE OF USE		MINIMUM MANEUVERING CLEARANCES <sup>4</sup>	
Approach Direction	Door Side	Perpendicular to Doorway	Parallel to Doorway (beyond latch unless noted)
From front	Pull	60 inches (1525 mm)	18 inches (455 mm)
From front	Push	48 inches (1220 mm)	0 inches (0 mm) <sup>3</sup>
From hinge side	Pull	60 inches (1525 mm)	36 inches (915 mm)
From hinge side	Pull	54 inches (1370 mm)	42 inches (1065 mm)
From hinge side	Push	42 inches (1065 mm) <sup>1</sup>	22 inches (1370 mm) <sup>3 &amp; 4</sup>
From latch side	Pull	48 inches (1220 mm) <sup>2</sup>	24 inches (610 mm)
From latch side	Push	42 inches (1065 mm) <sup>2</sup>	24 inches (610 mm)

<sup>4</sup>Maneuvering space shall include full width of doorway.

<sup>1</sup>Add 6-inches (150 mm) if closer and latch provided.

<sup>2</sup>Add 6-inches (150 mm) if closer provided.

<sup>3</sup>Add 12 inches (305 mm) beyond latch if closer and latch provided.

<sup>4</sup>Beyond hinge side

**TGEC-000 & FCA-119 (Draft #c)**

**404.2.3.2 Sliding and Folding Doors.** Sliding doors and folding doors shall have maneuvering clearances complying with Table 404.2.4.2.

**Table 404.2.3.2 - Maneuvering Clearances at for Sliding and Folding Doors**

APPROACH DIRECTION	MINIMUM MANEUVERING CLEARANCES	
	PERPENDICULAR TO DOORWAY <sup>1</sup>	PARALLEL TO DOORWAY (beyond non-latch side unless noted)
From front	48 inches (1220 mm)	0 inches (0 mm)
From non-latch hinge side	42 inches (1065 mm)	54 <del>22</del> inches (1370 mm) <sup>1</sup>
From latch side	42 inches (1065 mm)	24 inches (610 mm) <sup>1</sup>

<sup>4</sup>Maneuvering space shall include full width of doorway.

<sup>1</sup>From the latch side toward the approach direction Beyond non-latch side.

**TGEC-000 & FCA-119 (Draft #c)**

**404.2.3.3 Doorways without Doors.** Doorways without doors that are less than 36 inches (915 mm) ~~wide~~ in width shall have maneuvering clearances complying with Table 404.2.3.3

**Table 404.2.3.3 - Maneuvering Clearances at for Doorways without Doors**

Approach Direction	MINIMUM MANEUVERING CLEARANCES
	Perpendicular to Doorway <sup>1</sup>
From front	48 inches (1220 mm)
From side	42 inches (1065 mm)

<sup>1</sup>Maneuvering space shall include full width of doorway.

**FCA-119 (Draft #c)**

**404.2.3.4 Recessed Doors.** ~~Recessed doors~~ Where the plane of the recessed door doorway is offset more than 8 inches (200 mm) from any obstruction within 18 inches (455 mm) measured laterally on the latch side of the door, ~~shall provide~~ maneuvering clearances for a front approach shall be provided. Where any obstruction within 18 inches of the latch side of a doorway projects more than 8 inches beyond the face of the door, measured perpendicular to the face of the door, maneuvering clearances for a forward approach shall be provided.

**TGEC-000**

**404.2.4 Thresholds at Doorways.** If provided, ~~if provided,~~ thresholds at doorways shall be ½ inch (13 mm) ~~high~~ maximum in height. Raised thresholds and changes in level at doorways shall comply with Sections 302.1 and 303.1.

**EXCEPTION:** ~~This requirement~~ Section 404.2.4 shall not apply to existing thresholds or altered thresholds ¾ inch (19 mm) ~~high~~ maximum in height, that have a beveled edge on each side with a maximum slope of 1:2 for the height exceeding ¼ inch (6 mm).

**TGEC-000**

**404.2.10 Vision Lites.** Doors and sidelites adjacent to doors containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one panel on either the door or an adjacent sidelite 43 inches (1090 mm) maximum above the floor.

**EXCEPTION:** Vision lites with the lowest part more than 66 inches (1675 mm) ~~from~~ above the floor are not required to comply with Section 404.1.10.

## **TGEC-000**

**404.3 Automatic Doors.** Automatic doors and automatic gates shall comply with Sections 404.3.1 through 404.3.6. Full powered automatic doors shall comply with ANSI/BHMA A156.10 listed in Section 105.2.4. Low-energy and power-assisted doors shall comply with ANSI/BHMA A156.19

**EXCEPTION:** ~~The requirements of Sections 404.3.2 and 404.3.4 through 404.3.7 shall not apply to Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with Sections 404.3.2, 404.3.4, and 404.3.5.~~

## **TGEC-000**

**404.3.1 Clear Opening Width.** Doorways shall have a clear opening width of 32 inches (815 mm) in power-on and power-off mode. The minimum clear opening width for automatic door systems shall be based on the clear opening width provided by with all leaves in the open position.

## **TGEC-000**

**404.3.2 Maneuvering Clearances.** Maneuvering clearances at power-assisted doors shall comply with Section 404.2.3.

## **TGEC-000**

**404.3.6 Revolving Doors, Revolving Gates, and Turnstiles.** ~~Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.~~

## **TGEC-000**

**405.2 Slope.** Ramp runs shall have a running slope not steeper than 1:12.

**EXCEPTION:** ~~Ramps in or on~~ In existing buildings or facilities, ramps shall be permitted to have slopes steeper than 1:12 complying with Table 405.2 where such slopes are ~~necessitated by~~ necessary due to space limitations.

## **TGEC-000**

**405.5 Clear Width.** The clear width of a ramp run shall be 36 inches (915 mm) minimum. ~~and~~ Where handrails are provided on the ramp run, the clear width shall be measured between the handrails ~~, shall be 36 inches (915 mm) minimum.~~

**TGEC-000**

**405.7.1 Slope.** Ramp landings shall have a slope not steeper than 1:48 and shall comply with Section 302. (**TGEC**)

**405.7.2 Width.** ~~Ramp clear width~~ of landings shall ~~be~~ have a clear width at least as wide as the widest ramp run leading to the landing.

**405.7.3 Length.** Ramp landings ~~length~~ shall ~~be~~ have a clear length of 60 inches (1525 mm) minimum.

**FCA-119 (Draft #c)**

**405.9 Edge Protection.** Edge protection complying with Section 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.

**EXCEPTIONS:**

1. Ramps not required to have handrails where ~~sides~~ curb ramp flares complying with Section 406.4 are provided.
2. Sides of ramp landings serving an adjoining ramp run or stairway.
3. Sides of ramp landings having a vertical drop-off of 1/2-inch (13 mm) maximum within 10-inches (255 mm) horizontally of the minimum landing area.

**\*TGEC-000**

**405.9.1 Extended Floor Surface.** The floor surface of the ramp run or ramp landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail railing complying with Section 505.

**FCA-119 (Draft #c)**

**405.9.2 Curb or Barrier.** A curb or barrier shall be provided that prevents the passage of a 4 inch (102 mm) diameter sphere where any portion of the sphere is within 4 inches (102 mm) of the floor or ground surface.

**TGEC-000**

**406.1 General.** Curb ramps on accessible routes shall comply with Sections 406, 405.2, 405.3, and 405.10.

**TGEC-000**

~~**406.2 Slope.** Slopes of curb ramps shall comply with Section 405.2.~~

**TGEC-000**

**406.4 Width.** Curb ramps shall be 36 inches (915 mm) ~~wide~~ minimum in width, exclusive of flared sides.

## **TGEC-000**

**406.7 Landings.** Landings shall be provided at the tops of curb ramps. The clear length of the landing shall be 36 inches (915 mm) minimum clear. The clear width of the landing shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.

## **FCA-119 (Draft #c)**

**406.11 Location at Marked Crossings.** Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

## **TGEC-000**

**406.10 Diagonal Curb Ramps.** Diagonal or corner-type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottoms of diagonal curb ramps shall have 48 inches (1220 mm) minimum clear space outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) ~~long~~ minimum in length on each side of the curb ramp and within the marked crossing.

## **TGEC-000**

**406.11 Islands.** Raised islands in crossings shall be a cut-through level with the street or have curb ramps at both sides. Each curb ramp shall have a level area 48 inches (1220 mm) ~~long~~ minimum in length by and 36 inches (915 mm) ~~wide~~ minimum in width at the top of the curb ramp in the part of the island intersected by the crossings. Each 48 inch (1220 mm) by 36 inch (915 mm) area shall be oriented so that the 48 inch (1220 mm) length is in the direction of the running slope of the curb ramp it serves. The 48 inch (1220 mm) by 36 inch (915 mm) areas and the accessible route shall be permitted to overlap.

## **TGEC-000**

**406.13 Detectable Warnings at Raised Marked Crossings.** Marked crossings that are raised to the same level as the adjoining sidewalk shall be preceded by a 24 inch (610 mm) deep detectable warning complying with 705, extending the full width of the marked crossing.

## **TGEC-000**

**406.14 Detectable Warnings at Islands or Cut-through Medians.** Where detectable warnings are provided on curb ramps or at raised marked crossings leading to islands or cut-through medians, the island or cut-through median shall also be provided with detectable warnings that comply with Section 705.1, ~~that~~ are 24 inches (610 mm) in depth ~~deep~~, and ~~that~~ extend the full width of the pedestrian route or cut-through. Where such island or cut-through median is less than 48 inches (1220 mm) in depth, the entire width and depth of the pedestrian route or cut-through shall have detectable warnings.

## **TGEC-000**

**407.1 General.** Elevators shall comply with Section 407 and ASME A17.1 listed in Section 105.2.5. ~~They~~ Elevators shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

## **TGEC-000 & FCA-119 (Draft #c)**

**407.2.1.1 Height.** Call buttons and keypads shall be located within one of the reach ranges specified in Section 308, measured to the centerline of the highest operable part.

**EXCEPTION:** Existing call buttons and existing keypads shall be permitted to be located at 54 inches (1370 mm) maximum above the ~~finish floor~~ or ground, measured to the centerline of the highest operable part.

## **TGEC-000**

**407.2.1.2 Size.** Call buttons shall be  $\frac{3}{4}$  inch (19 mm) minimum in the smallest dimension.

**EXCEPTION:** Existing elevator call buttons shall not be required to comply with ~~this~~ Section 407.2.1.2.

## **TGEC-000**

**407.2.1.4 Location.** The call button that designates the up direction shall be located above the call button that designates the down direction.

**EXCEPTION:** Destination-oriented elevators shall not be required to comply with ~~this~~ Section 407.2.1.4.

## **TGEC-000**

**407.2.1.5 Signals.** Call buttons shall have visible signals to indicate when each call is registered and when each call is answered.

### **EXCEPTIONS:**

1. Destination-oriented elevators shall not be required to comply with Section 407.2.1.5 ~~this requirement~~ provided visible and audible signals complying with Section 407.2.1.7 ~~indicating which elevator car to enter~~ are provided.
2. Existing elevators shall not be required to comply with ~~this~~ Section 407.2.1.5.

**407.2.1.7 Destination-oriented Elevator Signals.** Destination-oriented elevators shall be provided with visible and audible signals to indicate which car is responding to a call. The audible signal shall be activated by pressing ~~the~~ a function button. The function button shall be identified by the International Symbol for Accessibility, and tactile indication. The International Symbol for Accessibility, complying with Section 703.6.3.1, shall be 5/8 inch (16 mm) in height and ~~comply~~ be a visual character complying with Section 703.2. The tactile indication shall be three raised dots, spaced ¼ inch (6.35 mm) at base diameter, in the form of an equilateral triangle ~~as shown in complying with Figure 407.2.1.7~~. The function button shall be located immediately below the keypad arrangement or floor buttons.

**407.2.2.1 Visible and Audible Signals.** A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where in-car signals are provided they shall be visible from the floor or ground area adjacent to the hall call buttons. ~~The audible signal shall be activated by pressing the function button. The function button shall be identified by the international symbol for Accessibility. The symbol shall be 5/8 inch (16 mm) in height and comply with Section 703.5. The function button shall be located immediately below the keypad arrangement or floor buttons. The tactile indication shall be three Braille dots, spaced ¼ inch (6.35 mm) at base diameter, in the form of an equilateral triangle as shown in Figure 407.2.2.1.~~

**EXCEPTIONS:**

1. ~~Destination-oriented elevators shall not be required to comply with this requirement Section 407.2.2.1 provided that~~ visible and audible signals shall not be required at each destination-oriented elevator where a visible and audible signal complying with Section 407.2.1.7 is are provided indicating the elevator car designation information.
2. In existing elevators, a signal indicating the direction of car travel shall not be required.

**407.2.2.2 Visible Signals.** Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the floor. The visible signal elements shall be 2½ inches (64 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call button.

**EXCEPTIONS:**

1. Destination-oriented elevators shall be permitted to have signals visible from the floor area adjacent to the hoistway entrance.
2. Existing elevators shall not be required to comply with ~~this~~ Section 407.2.2.2.

## **TGEC-000**

**407.2.2.3 Audible Signals.** Audible signals shall sound once for the up direction and twice for the down direction, or shall have verbal annunciators that indicate the direction of elevator car travel. Audible signals shall have a frequency of 1500 Hz maximum. Verbal annunciators shall have a frequency of 300 Hz minimum and 3,000 Hz maximum. The audible signal or verbal annunciator shall be 10 dBA minimum above ambient, but shall not exceed 80 dBA ~~maximum~~, measured at the hall call button.

### **EXCEPTIONS:**

1. Destination-oriented elevators shall not be required to comply with ~~this requirement~~ Section 407.2.2.3 provided that the audible tone and verbal announcement is the same as those given at the call button or call button keypad.
2. In existing elevators, the requirement for the frequency and range of audible signals shall not apply.

## **TGEC-000 & FCA-119 (Draft #c)**

**407.2.3.1 Floor Designation.** ~~Floor designations complying with Section 703.2 shall be provided on both jambs of elevator hoistway entrances.~~ Floor designations shall be provided in ~~both~~ tactile characters complying with Section 703.2.1 and Braille located on both jambs of elevator hoistway entrances. Tactile characters shall be 2 inches (51 mm) ~~high~~ minimum in height. A tactile star shall be provided on both jambs at the main entry level.

## **TGEC-000 & FCA-119 (Draft #c)**

**407.2.3.2 Car Designations.** Destination-oriented elevators shall provide ~~tactile~~ car identification ~~complying with Section 703.2 on both jambs of the hoistway immediately below the floor designation.~~ Car designations shall be provided in ~~both~~ tactile characters complying with Section 703.2 and Braille located on both jambs of the hoistway immediately below the floor designation. Tactile characters shall be 2 inches (51 mm) ~~high~~ minimum in height.

## **TGEC-000**

**407.2.4 Destination Signs.** Where signs indicate that elevators do not serve all landings ~~in a facility,~~ signs in tactile characters complying with Section 703.2 shall be provided ~~and shall be installed~~ above the hall call button fixture.

**EXCEPTION:** Destination oriented elevator systems shall not be required to comply with ~~this~~ Section 407.2.4.

## **TGEC-000**

**407.3 Elevator Door Requirements.** Hoistway and elevator car doors shall comply with Sections 407.3.1 through 407.3.6.

## **TGEC-000 & FCA-119 (Draft #c)**

**407.3.2 Operation.** Elevator hoistway and car doors shall open and close automatically. ~~In existing elevators, car door closing shall not be initiated until the hoistway door is closed.~~

**EXCEPTION:** Existing manually operated hoistway swing doors shall be permitted provided that they:

- a) they comply with Sections 404.2.3 and 404.2.9;
- b) the car door closing is not initiated until the hoistway door is closed.

## **TGEC-000**

**407.3.3 Reopening Device.** Elevator doors shall be provided with a reopening device complying with Sections 407.3.3.1 through 407.3.3.3 that shall stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person.

**EXCEPTION:** In existing elevators, ~~this requirement shall not apply to manually operated doors shall not be required to comply with Section 407.3.3.~~

## **TGEC-000**

**407.3.3.1 Height.** The reopening device shall be activated by sensing an obstruction passing through the opening at 5 inches (125 mm) nominal and 29 inches (735 mm) nominal above the floor.

## **TGEC-000**

**407.3.3.2 Contact.** The reopening device shall not require physical contact to be activated, although contact may occur shall be permitted before the door reverses.

## **TGEC-000**

**407.3.3.3 Duration.** ~~Door~~ The reopening devices shall remain effective for 20 seconds minimum.

**TGEC-000**

**407.3.4 Door and Signal Timing.** The minimum acceptable time from notification that a car is answering a call until the doors of that car start to close shall be calculated from the following equation:

$T = D/(1.5 \text{ ft/s})$  or  $T = D/(455 \text{ mm/s}) = 5$  seconds minimum where T equals the total time in seconds and D equals the distance (in feet or millimeters) from the point in the lobby or corridor 60 inches (1525 mm) directly in front of the farthest call button controlling that car to the centerline of its hoistway door.

**EXCEPTIONS:**

1. ~~In~~ For cars with in-car lanterns, T shall be permitted to begin when the signal is visible from the point 60 inches (1525 mm) directly in front of the farthest hall call button and the audible signal is sounded.
2. Destination-oriented elevators shall not be required to comply with Section 407.3.4 ~~this provision.~~

**\*TGEC-000**

**407.3.6 Door Width.** ~~The width of Elevator doors~~ clear opening width shall comply with Table 407.4.1.

**\*TGEC-000**

**407.4.1 Car Dimensions.** Inside dimensions of elevator cars ~~and clear width of elevator doors~~ shall comply with Table 407.4.1.

**EXCEPTION:** Existing elevator car configurations that provide a clear floor area of 16 square feet (1.5 m<sup>2</sup>) minimum, and provide 54 a clear inside dimension of 36 inches (915 mm) minimum inside clear depth in width and 36 54 inches (1370 mm) minimum in depth clear width, shall be permitted.

**Table 407.4.1 - Minimum Dimensions of Elevator Cars<sup>1</sup>**

Door Location	Door Clear <u>Opening</u> Width	Inside Car, Side to Side	Inside Car, Back Wall to Front Return	Inside Car, Back Wall to Inside Face of Door
Centered	42 inches (1065 mm)	80 inches (2030 mm)	51 inches (1295 mm)	54 inches (1370 mm)
Side (Off Center)	36 inches (915 mm) <sup>1</sup>	68 inches (1725 mm)	51 inches (1295 mm)	54 inches (1370 mm)
Any	36 inches (915 mm) <sup>1</sup>	54 inches (1370 mm)	80 inches (2030 mm)	80 inches (2030 mm)
Any	36 inches (915 mm) <sup>1</sup>	60 inches (1525 mm) <sup>2</sup>	60 inches (1525 mm) <sup>2</sup>	60 inches (1525 mm) <sup>2</sup>

<sup>1</sup> A tolerance of minus 5/8 inch (16 mm) is permitted.

<sup>2</sup> Other car configurations that provide a 36 inch (915 mm) clear opening door width and a turning space complying with Section 304 with the door closed ~~are~~ shall be permitted.

## TGEC-000

**407.4.3 Platform to Hoistway Clearance.** The clearance between the car platform sill and the edge of any hoistway landing shall be in compliance with ASME/ANSI A17.1 listed in Section 105.2.5.

## TGEC-000

**407.4.6 Elevator Car Controls.** Where provided, elevator car controls shall comply with Sections 407.4.6 and 309.

**EXCEPTION:** In existing elevators, where a new car operating panel complying with Section 407.4.6 is provided ~~in an existing elevator car~~, existing car operating panels shall not be required to comply with Section 407.4.6.

## TGEC-000

**407.4.6.1 Location.** Controls shall be located within one of the reach ranges specified in Section 308.1. Where a panel is changed in an existing elevator, the panel shall comply with Section 407.4.6.1.

### EXCEPTIONS:

1. Where the elevator panel serves more than 16 openings and a parallel approach to the controls is provided, buttons with floor designations shall be permitted to be 54 inches (1370 mm) maximum above the floor.
2. In existing elevators where a parallel approach to the controls is provided, car control buttons with floor designations shall be permitted to be located 54 inches (1370 mm) maximum above the floor ~~where a parallel approach is provided. Where the panel is changed, it shall comply with Section 407.4.6.1.~~

## TGEC-000

**407.4.6.2 Buttons.** Car control buttons with floor designations shall be raised or flush and shall comply with Sections 407.4.6.2.1 through 407.4.6.2.2 ~~and shall be raised or flush.~~

## TGEC-000 & FCA-119 (Draft #c)

**407.4.6.2.2 Arrangement.** Buttons shall be arranged with numbers in ascending order. Floors shall be designated . . . -4, -3, -2, -1, 0, 1, 2, 3, 4, et cetera, with floors below the main entry floor designated with minus numbers. ~~It shall be permitted to skip numbers~~ Numbers shall be permitted to be omitted provided the remaining numbers ~~remain~~ are in sequence. Where a telephone keypad arrangement is used, the number key ("#") ~~position~~ shall be utilized to enter the minus symbol ("-"). When two or more columns of buttons are provided they shall read from left to right.

## **FCA-119 (Draft #c)**

**407.4.7 Designations and Indicators of Car Controls.** Designations and indicators of car controls shall comply with Section 407.4.7.

### **EXCEPTIONS:**

1. In existing elevators, where a new car operating panel complying with Section 407.4.7 is provided, existing car operating panels shall not be required to comply with Section 407.4.7.
2. Where existing building floor designations differ from the ~~current rule~~ arrangement required by Section 407.6.2.2, or are alphanumeric a new operating panel shall be permitted to use such existing building floor designations.

## **TGEC-000 & FCA-119 (Draft #c)**

**407.4.7.1.2 Location.** ~~Raised~~ Tactile character and ~~Braille~~ braille designations shall be placed immediately to the left of the control button to which the designations apply. Where a negative number is used to indicate a negative floor, the ~~Braille~~ braille designation shall be a cell with the dots 3 and 6 followed by the ordinal number.

**EXCEPTION:** Where space on an existing car operating panel precludes tactile markings to the left of the control button, markings shall be placed as near to the control button as possible.

## **TGEC-000**

**407.4.7.2 Keypads.** Keypads shall be identified by visual characters complying with Section 703.2.1 and shall be centered on the corresponding keypad button. The number five key shall have a single raised dot. The dot shall ~~be~~ have a base diameter of 0.118 inch (3 mm) minimum to 0.120 inch (3.05 mm) maximum base diameter and in other aspects comply with Table 703.4.3 and a height of 0.025 inch (0.6 mm) minimum to 0.037 inch (0.9 mm) maximum.

## **FCA-119 (Draft #c)**

**407.4.9 Car Position Indicators.** Audible and visible car location indicators shall be provided in elevator cars.

## **TGEC-000**

**407.4.9.1.1 Size.** Characters shall be ½ inch (13 mm) ~~high~~ minimum in height.

## **TGEC-000**

**407.4.9.1.3 Floor Arrival.** As the car passes a floor and when a car stops at a floor served by the elevator, the corresponding character shall illuminate.

**EXCEPTION:** Destination-oriented elevators shall not be required to comply with ~~this requirement~~ Section 407.4.9.1.3 provided that the visible indicators extinguish when the call has been answered.

## **TGEC-000**

**407.4.9.2.1 Signal Type.** The signal shall be an automatic verbal annunciator that announces the floor at which the car is about to stop. The verbal announcement indicating the floor shall be completed prior to the initiation of the door opening.

## **TGEC-000**

**407.4.9.2.2 Signal Level.** The verbal annunciator shall be 10 db<sub>A</sub> minimum above ambient, but shall not exceed 80 db<sub>A</sub> maximum, measured at the annunciator.

## **TGEC-000**

**407.4.10 Emergency Communications.** Emergency two-way communication systems between the elevator car and a point outside the hoistway shall comply with Section 407.4.10 and with ASME/ANSI A17.1 listed in Section 105.2.5.

**407.4.10.1 Height.** The highest operable part of a two-way communication system shall comply with Section 308.

**407.4.10.2 Identification.** Tactile ~~symbols and~~ characters complying with Section 703.3 and symbols complying with Section 407.4.7.1.3 shall be provided adjacent to the device.

## **TGEC-000**

**408.1 General.** Limited-use/limited-application elevators shall comply with Section 408 and ASME A17.1 listed in Section 105.2.5. Elevator operation shall be automatic.

## **FCA-119 (Draft #c)**

**408.2.1 Call Controls ~~Buttons~~.** Elevator call buttons and keypads shall comply with Section 408.2.1.

## **TGEC-000**

**408.3.2.1 Power Operation.** Swinging doors shall be power-operated and shall comply with ANSI/BHMA A156.19 listed in Section 105.2.3.

**\*TGEC-000**

**408.3.3 408.4.9 Door Location and Width.** Car doors shall provide a clear opening width of 32 inches (815 mm) minimum. Car doors shall be positioned at a narrow end of the car and shall provide a clear width of 32 inches (815 mm) minimum.

**EXCEPTION:** Car doors that provide a clear opening width of 36 inches (915 mm) minimum shall be permitted to be located on adjacent sides of cars that provide a clear floor area width of 51 inches (1295 mm) in width and clear depth of 51 inches (1295 mm) in depth, and doors provide a clear width of 36 (915 mm) minimum.

**TGEC-000**

**408.4.1 Inside Dimensions of Elevator Cars.** Elevator cars shall provide a clear floor area width of 42 inches (1065 mm) minimum in width, and a clear depth of 54 inches (1370 mm) minimum in depth.

**EXCEPTIONS:**

1. Cars that provide a clear width of 51 inches (1295 mm) minimum clear floor width shall be permitted to provide a clear depth of 51 inches (1295 mm) minimum clear floor depth.
2. For installations in existing buildings, elevator cars shall that provide a clear floor area of 15 square feet (1.4 m<sup>2</sup>) minimum, and a provide clear width of inside dimension of 36 inches (915 mm) minimum in width a clear depth of and 54 inches (1370 mm) minimum clear in depth shall be permitted. and a net clear platform area of 15 square feet (1.4 m<sup>2</sup>) minimum.

**TGEC-000**

**408.4.3 Platform to Hoistway Clearance.** ~~The platform to hoistway clearance shall comply with Section 407.4.3.~~ The clearance between the car platform sill and the edge of any hoistway landing shall be in compliance with ASME/ANSI A17.1 listed in Section 105.2.5.

**TGEC-000**

**408.4.6 Elevator Car Controls.** Elevator car controls shall comply with 407.4.6. Control panels shall be centered on a side wall.

**\*FCA-119 (Draft #c)**

**409 Private Residence Elevators.** ~~Elevators shall comply with Sections 409.1 through 409.8 and ASME/ANSI A17.1.~~

**409.1 Automatic Operation General.** Private residence elevators shall comply with Section 409 and ASME/ANSI A17.1 listed in Section 105.2. Elevator operation shall be automatic. ~~Each car shall automatically stop at a floor landing within a tolerance of 1/2-inch (13 mm) under rated loading to zero loading conditions.~~

**EXCEPTION:** Elevators complying with Section 407 or 408.

## **TGEC-000 & FCA-119 (Draft #c)**

**409.3 Doors and Gates.** Elevator car and hoistway doors and gates shall comply with Section 409.3 and 404.

**EXCEPTION:** ~~except that~~ The maneuvering clearances required by Section 404.2.4.1 shall not apply for approaches to the push side of swinging doors ~~shall not apply.~~

**409.3.1 Power Operation.** Elevator car doors and gates shall be power operated and shall comply with ANSI/BHMA A156.19 listed in Section 105.2.3. ~~For elevators with a car that has more than one opening, the hoist way doors and gates shall be permitted to be of the manual open, self close type. Elevator cars with a single opening car shall have low energy power operated hoistway doors and gates.~~

**EXCEPTION:** For elevators with a car that has more than one opening, the hoistway doors and gates shall be permitted to be of the manual open, self close type.

**409.3.2 Duration.** ~~Power operated doors and gates shall comply with ANSI/BHMA A156.19 and shall remain open for 20 seconds minimum when activated.~~

## **TGEC-000**

**409.3.3 ~~409.4.8~~ Door or Gate Location.** Car gates or doors shall be positioned at a narrow end of the clear floor area space required by Section 409.4.1. **(Moved from Section 409.4.8)**

## **\*TGEC-000 & FCA-119 (Draft #c)**

**409.4 Elevator Car Requirements.** ~~Private residence~~ Elevator cars shall comply with Section 409.4.

## **TGEC-000 & FCA-119 (Draft #c)**

**409.4.1 Inside Dimensions of Elevator Cars.** Elevator cars shall provide a clear floor area space of 36 inches (915 mm) minimum in width and by 48 inches (1220 mm) minimum in depth. ~~Car gates or doors shall be positioned at the narrow end of the clear floor space.~~

**409.4.2 Floor Surfaces.** Floor surfaces in elevator cars shall comply with Sections 302 ~~and 303.~~

**409.4.3 Platform to Hoistway Clearance.** The clearance between the car platform sill and the edge of any hoistway landing shall be 1<sup>1</sup>/<sub>4</sub>-inches (32 mm) maximum.

**409.4.4 Leveling.** Each car shall automatically stop at a floor or ground landing within a tolerance of 1/2-inch (13 mm) under rated loading to zero loading conditions.

**409.4.5 Illumination Levels.** The level of illumination at the car controls, platform, and car threshold and landing sill shall be 5 foot-candles (54 lux) minimum.

**409.4.6 Elevator Car Controls.** Elevator car controls shall comply with Sections 409.4.6 and 309.4.

## **TGEC-000 & FCA-119 (Draft #c)**

**409.4.7 Emergency Communications.** Emergency communications systems shall comply with Section 409.4.7.

**409.4.7.1 Type.** A telephone and emergency signal device shall be provided in the car and shall comply with ASME/ANSI A17.1, ~~Rule 509.~~

**(Note: the Rule numbers may change with new editions of A17.1)**

**409.4.7.2 Operable Parts.** The telephone and emergency signaling device shall comply with Section 309.3.

**409.4.7.3 Compartment.** If the device is in a closed compartment, the compartment door hardware shall comply with Section 309.

**409.4.7.4 Cord.** The telephone cord shall be 29-inches (735 mm) ~~long~~ minimum in length.

## **TGEC-000**

**410.1 General.** Platform lifts shall comply with Sections 410 and ASME/ANSI A 18.1 listed in Section 105.2.6. Platform lifts shall not be attendant operated and shall provide unassisted entry and exit from the lift.

## **TGEC-000 & FCA-119 (Draft #c)**

**410.2.1 Doors and Gates.** Lifts Doors and gates shall ~~be have~~ low energy power operated doors or gates complying with Section 404.3. Doors shall remain open for 20 seconds minimum. End doors clear opening width shall be 32 inches (815 mm) minimum ~~clear width~~. Side doors clear opening width shall be 42 inches (1065 mm) minimum ~~clear width~~.

## **TGEC-000**

**410.2.2 Ramps.** End ramps shall be 32 inches (815 mm) ~~wide~~ minimum in width. Side ramps shall be 42 inches (1065 mm) ~~wide~~ minimum in width.

## **TGEC-000**

**410.3 Floor Surfaces.** Floor surfaces ~~in~~ of platform lifts shall comply with Section 302.

# CHAPTER 5

## General Site and Building Elements

### \*TGEC-000

**501.1 Scope.** General site and building elements required to be accessible by the scoping provisions adopted by the administrative authority shall comply with the applicable provisions of ~~this Chapter 5.~~

### TGEC-000

**502.1 General.** Accessible car and van parking spaces shall comply with Section 502. ~~Where parking spaces are marked with lines, width measurements of parking spaces and access aisles shall be made from the centerline of the markings.~~

**EXCEPTION:** ~~Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.~~

### TGEC-000

**502.2 Vehicle Spaces Size.** Car parking spaces shall be 96 inches (2440 mm) ~~wide~~ minimum in width. and Van parking spaces shall be 132 inches (3350 mm) ~~wide~~ minimum in width. ~~and shall be marked to define the width, and shall have an adjacent access aisle complying with Section 502.3.~~

**EXCEPTION:** Van parking spaces shall be permitted to be 96 inches (2440 mm) ~~wide~~ minimum in width where the adjacent access aisle is 96 inches (2440 mm) ~~wide~~ minimum in width.

### TGEC-000

**502.3 Vehicle Space Marking.** Car and van parking spaces shall be marked to define the width. Where parking spaces are marked with lines, the width measurements of parking spaces and adjacent access aisles shall be made from the centerline of the markings.

**EXCEPTION:** Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.

### TGEC-000

**502.4 Access Aisle.** Car and van parking spaces shall have an adjacent access aisle. Access aisles serving car and van parking spaces shall comply with Sections 502.4.1 through 502.3.4. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.

**TGEC-000**

**502.4.1 Location.** Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle. Access aisles shall not overlap with the vehicular way. Access aisles Parking spaces shall be permitted to have access aisles placed on either side of the car or van parking space. ~~except for angled~~ Van parking spaces that are angled shall have access aisles located on the passenger side of the parking space.

**TGEC-000**

**502.4.2 Width.** Access aisles serving car and van parking spaces shall be 60 inches (1525 mm) wide minimum in width.

**TGEC-000**

**502.4.4 Marking.** Access aisles shall be marked so as to discourage parking in them. Where access aisles are marked with lines, the width measurements of access aisles and adjacent parking spaces shall be made from the centerline of the markings.

**EXCEPTION:** Where access aisles or parking spaces are not adjacent to another access aisle or parking space, measurements shall be permitted to include the full width of the line defining the access aisle or parking space.

**(Existing requirements of Section 502.3 duplicated here)**

**\*TGEC-000**

**502.6 Vertical Clearance.** Parking spaces for vans, access aisles serving them, and vehicular routes from an entrance to the van parking spaces, and from the van parking spaces to a vehicular exit serving them shall provide have a vertical clearance of 98 inches (2490 mm) minimum.

**FCA-119 (Draft #c)**

**502.7 Identification.** Where accessible parking spaces are required to be identified by signs, the signs shall include the International Symbol of Accessibility complying with Section 703.8. Signs identifying van parking spaces shall contain the designation "van accessible." Such signs shall be 60 inches (1525 mm) minimum above the floor or ground ~~surface~~ of the parking space, measured to the bottom of the sign.

**TGEC-000**

**503.2 Vehicle Pull-up Space Size.** Passenger loading zones shall provide a vehicular pull-up space 96 inches (2440 mm) minimum in width, and 20 feet (6100 mm) minimum in length. ~~and an adjacent access aisle complying with Section 503.3.~~

## **TGEC-000**

**503.3 Access Aisle.** Passenger loading zones shall have an adjacent access aisle ~~Access aisles serving passenger loading zones shall complying with Sections 503.3.1 through 503.3.4.~~

**503.3.1 Location.** Access aisles shall adjoin an accessible route. Access aisles shall not overlap the vehicular way,

**503.3.2 Width.** Access aisles serving vehicle pull-up spaces shall be 60 inches (1525 mm) ~~wide~~ minimum in width.

**503.3.3 Length.** Access aisles shall be 20 feet (6100 mm) ~~long~~ minimum in length.

## **FCA-119 (Draft #c)**

**503.4 Floor or Ground Surfaces.** Vehicle pull-up spaces and access aisles serving them shall comply with Section 302 and shall have ~~surface~~ slopes not steeper than 1:48. Access aisles shall be at the same level as the vehicle pull-up space they serve. Changes in level shall not be permitted.

## **FCA-119 (Draft #c)**

**504.4 Treads and Risers.** All steps on a flight of stairs shall have uniform riser heights and uniform tread depth. Risers shall be 4 inches (100 mm) minimum ~~in height~~ and 7 inches (180 mm) maximum in height. Treads shall be 11 inches (280 mm) minimum in depth.

## **TGEC-000**

**504.5 Nosings.** The radius of curvature at the leading edge of the tread shall be ½ inch (13 mm) maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall be 1½ inches (38 mm) maximum over the tread or floor below. The leading 2 inches (51 mm) of the tread shall have visual contrast of dark-on-light or light-on-dark from the remainder ~~rest~~ of the tread.

## **TGEC-000**

**504.8 Lighting.** Lighting for interior stairways shall comply with Sections ~~504.8.1 and 504.8.2.~~

## **\*TGEC-000**

**504.8.2. Lighting Controls.** If provided, occupancy-sensing automatic controls shall activate the stairway lighting so ~~that~~ the luminance level required by Section 504.8.1 is provided on the entrance landing, each stair flight adjacent to the entrance landing, and on the landings above and below the entrance landing prior to any step being used.

## **TGEC-000 & FCA-119 (Draft #c)**

**504.9 Stair Level Identification.** Tactile Stair level identification signs ~~that which comply with 703.2,~~ in tactile characters complying with Section 703.2 shall be located at each floor level landing in all enclosed stairways adjacent to the door leading from the stairwell into the corridor to identify the floor level. The exit door discharging to the outside or to the level of exit discharge shall have a tactile sign stating "Exit".

## **FCA-119 (Draft #c)**

**505.7 Cross Section.** Handrails shall have a ~~circular~~ cross section complying with Section 505.7.1 or Section 505.7.2.

## **TGEC-000**

**505.7.2 Non-Circular Cross Sections.** Handrails with a non-circular cross section shall ~~be permitted provided they~~ have a perimeter dimension of 4 inches (102 mm) minimum and 6¼ inches (160 mm) maximum, and a cross-section dimension of 2¼ inches (57 mm) maximum.

## **TGEC-000 & FCA-119 (Draft #c)**

**505.10.1 Top and Bottom Extension at Ramps.** Ramp handrails shall extend horizontally above the landing 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. ~~Such Extensions~~ shall return to a wall, guard, or ~~the walking floor or ground~~ surface, or shall be continuous to the handrail of an adjacent ramp run.

## **TGEC**

**505.10.3 Bottom Extension at Stairs.** At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance equal to one tread depth beyond the ~~last~~ bottom tread nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.