

Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

Significant Changes to the A117.1 Accessibility Standard 2017 Edition


Based on the 2017 A117.1 Accessibility Standard



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Description

- This course offers an overview and in-depth coverage of the changes from the 2009 to the 2017 A117.1 Accessibility Standard.
- It identifies important changes in organization, accessibility standard requirements and the applicability of these requirements to design, plan review and inspection.



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Objectives

Upon completion of this seminar, participants will be better able to:


- Identify the most significant differences between the 2009 and the 2017 A117.1 Accessibility Standard.
- Explain the differences between the current and previous edition.
- Identify changes in organization and accessibility standard requirements.
- Identify the applicability of design, plan review and inspection requirements.
- Learn about the background, reasons and justification for changes.



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Organization

- Only a portion of changes addressed, identified for variety of reasons, including:
 - Frequency of application
 - Special significance
 - Change in application
- Importance of those changes not addressed are not to be diminished.



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Significant Change Series

Types of Changes:

- Additions
- Modifications
- Clarifications
- Deletions

Code text:


- Deleted text is shown as strike-through.
- New text is underlined.



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Reference and Resource

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Revisions to text in the Standard

- | Margin line indicates revision to text.
- Arrow indicates deletion of section or exception.
- * Asterix indicates a move



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International Code changes – Governmental Consensus Process

Places the final determination of code provisions in the hands of public safety officials who, with no vested financial interest, can legitimately represent the public interest. The principles are:

- Openness
- Transparency
- Balance of Interest
- Due Process
- An Appeals Process
- Consensus



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A117.1 Standard changes – ANSI Consensus Process

Places the final determination of the standard's provisions in the hands of the 52 committee members (46 organizations and 6 individual members). The principles are:

- Openness
- Transparency
- Balance of Interest
- Due Process
- An Appeals Process
- Consensus




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International Codes – Code Change Process Logistics



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A117.1 Standard: Change Process Logistics





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ICC A117.1 Accessible and Usable Buildings and Facilities

- Standard & Commentaries
- History, reasoning and examples
- Technical assistance via phone, email or letter.



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Setting the Stage

- Who, What, Where, When and How



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Purpose




KEY LEARNING

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Accessibility performance requirements


Everything must be accessible, and then allow for a degree of inaccessibility that is logical and reasonable.



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Requirements - References


- Scoping Requirements:
 - “What, Where and How Many”
 - (2012, 2015 & 2018 editions of IBC and IEBC®)
- Technical Requirements:
 - “How”
 - (ICC/ANSI A117.1-2009)



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Requirements - References



- Scoping Requirements:
 - “What, Where and How Many”
 - (2021 editions of IBC and IEBC®)
- Technical Requirements:
 - “How”
 - (ICC/ANSI A117.1-2017)



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Limitation of a referenced standards IBC Section 102.4

- Considered part of the code to the extent referenced
- Examples in A117.1 that are not referenced – stairways, Type C units
- Conflicts – codes rule

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ICC Goals

- Coordinate the building code requirements with the







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Role of the Code Official




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Enforcement of Federal Requirements



Complaints



Inspection and Review



Mediation




Through the courts



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Chapter 1: Application and Administration

- Calculation of Percentages
- Dimension Tolerances
- Definitions





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Conventions:

105.2 Calculation of Percentages (New)



- Intended to coordinate with ADA
- Allows rounding down ratios or percentages of less than one-half
- Applicable for required size or dimension
- Of very limited use in A117.1


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Conventions:

105.2 Calculation of Percentages

- Not applicable to the required number of elements – Rounding down of minimum percentages is not intended

Example: Parking lot with 60 spaces requires 2% to be accessible spaces.

- 60 spaces x 2% = 1.2 spaces
- Must provide 2 and may not round down even though ratio is less than one half


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Conventions: 105.3 Dimension Tolerances

- Tolerance is not permitted for dimensions with a range (max. & min.)
- Previously “all” dimensions allowed a tolerance
- Done to coordinate with ADA

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Conventions: 105.3 Dimension Tolerances

- “Conventional industry tolerances” are still permitted where dimension is only a minimum or maximum (not a range)
- Also eliminated language about “absolute” dimensions since it caused debate as to whether dimension tolerance was allowed

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KEY LEARNING

Definitions 107.5 Existing Building (New)

- New definition
- Needed due to desire to lessen impact of 2017 changes
- Defined as building erected prior to adoption of 2017 standard or for which a permit has been issued

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Definitions 107.5 Existing Building

- Definition becomes important in deciding if the provisions for new or existing building apply
 - Existing buildings will be permitted to use specific provisions from 2009 standard
 - New buildings will use provisions from 2017 standard – which generally require larger sizes

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Definitions 107.5 Wheelchair Charging Area (New)

- Defines space where a wheelchair’s batteries can be recharged
- Details addressed later in Section 906
- Scoping is an important issue – Where is it required or regulated

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Chapter 1 Additional Comments

- The term “accessible” has been removed at numerous (i.e. most) locations throughout the standard
- The elements within the standard are designed and intended to be accessible, therefore they do not need to be called “accessible” at each location.

Example: Water closets and toilet compartments

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Chapter 1 Additional Comments

- Additional definitions have been added to Chapter 1 some will be discussed with the chapter that contains the technical criteria.



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Chapter 2: Scoping

- Scoping



Chapter 2

- Section 201 - Remember that the provisions in ICC A117.1 are applicable only to the extent referenced by the authority having jurisdiction.
- This is repeated at the beginning of Chapter 3 through 11.
- The 2017 edition of the standard is not referenced by the 2018 IBC



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Chapter 2

- Not all topics covered in the standard, as well as the significant changes discussed in this class, will be scoped

Examples:

Stairs, routes through a parking lot, sign language interpreter's station, Type C units, classroom acoustics, etc.



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Chapter 3: Building Blocks

- Turning space
- Clear floor space
- Reach range
- Operable parts



Human Factor Considerations

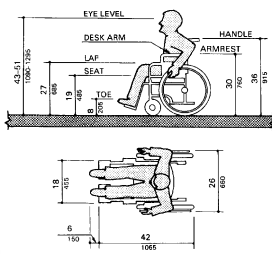
- Body Size
- Functional abilities

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Basis for Historic A117.1 - Dimensions of Adult-Sized Wheelchair



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2017 ICC A117.1

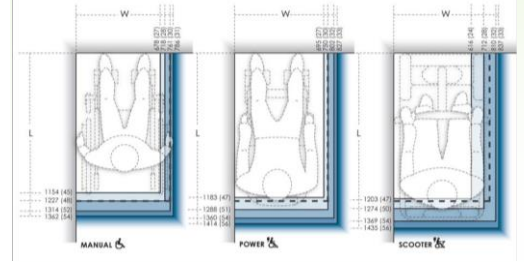
- Revisions based on study on Anthropometry of Wheeled Mobility
 - Sponsored by the US Access Board
 - Including persons using manual wheelchairs, motorized wheelchairs & scooters
- <http://www.udeworld.com/anthropometrics.html>



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Human Factor Anthropometrics



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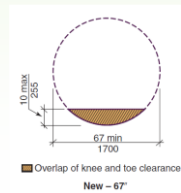
Existing building and facilities

- New sizes will not apply to existing buildings or facilities
- Will apply to new construction and additions
- Definition:
 - existing building.** A building erected prior to the date of adoption of this standard, or one for which a legal building permit has been issued.

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Turning Space 304.3.1 Circular Space



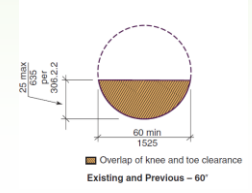
- Size increased to 67" for new buildings
- Was previously 60"
- Amount of knee and toe clearance allowed for overlap is now limited to 10" max.
- Part of Wheeled Mobility Task Group work

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Turning Space 304.3.1 Circular Space

- Will accommodate about 95% of manual and power-wheelchair users.
- Previous size only served about 80%
- Existing buildings can use old sizes
- New provisions exceed ADA

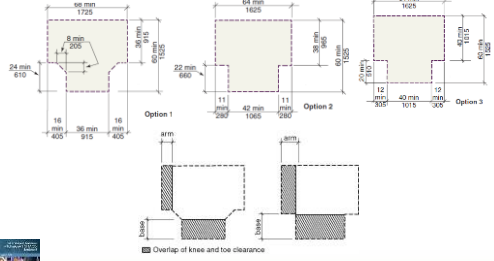


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Turning Space 304.3.2 T-shaped Space



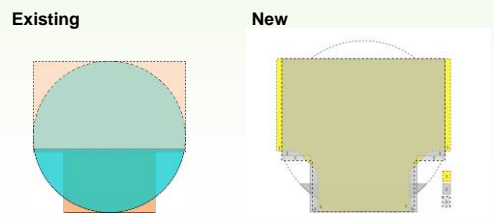
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Turning Space 304.3.2 T-shaped Space

- New buildings have 3 options – all have an increase in size
- Vary based on width of arms and base
- No preference – any option is acceptable
- Existing buildings can continue with previous requirements
- Will exceed ADA

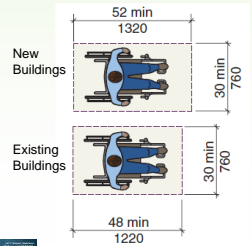
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Impact - Turn comparison



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Clear Floor Space 305.3 Size



- Length of space increased to 52” min. for new buildings
- 48” length OK for existing buildings
- This “building block” requirement impacts many provisions
- Exceeds ADA

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Clear Floor Space 305.3 Size

- Research indicated 48” length inadequate for:
 - 22% of occupied WMDs
 - 12% of unoccupied WMDs
- 52” length will accommodate:
 - 89% of occupied WMDs
 - >95% of unoccupied WMDs
- Type B units will stay with 48” length

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Reach Ranges 308.3.1 Unobstructed Side Reach

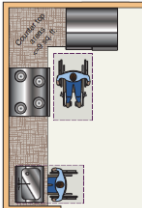
- Exception allows 54” max height for operable parts on fuel dispensers installed on existing curbs
- Coordinates with ADA
- Note the limits:
 - 54 inch max height
 - Curb must be existing
 - Only for fuel dispenser, not other elements



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Operable Parts 309.1, 1102.9, 1103.9



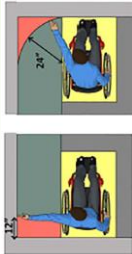
- Exceptions for operable parts moved from Chapter 11 to Section 309
- Allows exceptions to be used for all public areas and not just in the dwelling units
- Eliminates exceptions in Accessible and Type A units
- Primary changes are:
 - New exception 3 and 10

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Operable Parts 309.1, 1102.9, 1103.9


- Exception 3 covers outlets in kitchen. Limits include:
 - Location where parallel approach cannot be provided
 - Outlets are over counter in a corner
 - Excluded area < 9 sq. ft. in area
 - Excluded area is "between appliances"
- Exception 10 is for emergency devices used by emergency personnel, during emergencies



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Chapter 4: Accessible Routes

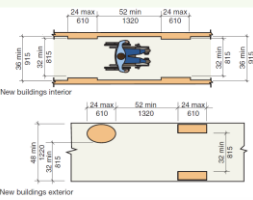


- Curb ramps & transitions
- Elevators
- Platform lifts
- Clear width
- Width at turns
- Doors & gates

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Walking Surfaces 403.5 Clear Width



- Width of exterior accessible routes increased to 48" min.
- Revisions made for interior routes in new buildings due to increased clear floor space
- Existing buildings are unchanged for inside

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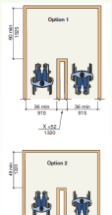
Walking Surfaces 403.5 Clear Width

- In new buildings, reduced width clearances must be separated by a min. of 52" length
- The new building interior route requirements will exceed ADA
- Exterior route requirements are intended to mirror federal Public Rights-of-Way guidelines (PROWAG)

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Clear Width 403.5.2 At 180-degree Turn



- New buildings have 3 options for 180-degree turns
- Changes made as result of increased clear floor space
- Turn around an object ≤ 52" use 180-degree provisions; if > 52" then 90-degree turn is used
- Exceeds the ADA
- Options 1 & 2 are modifications of previous requirements

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Clear Width 403.5.2 At 180-degree Turn

- Option 3 is new
- Although listed for new buildings – it should be permissible for existing also
- Research showed 43" option worked for 95% of both manual and powered chairs as well as scooters

Diagram showing a 180-degree turn with a 43" clear width and a 1090" total width. A note indicates 'X = 52' and '1320'.

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Clear Width 403.5.3 At 90-degree Turn (New)

Diagram showing a 90-degree turn with two options. Option 1 has a 40" clear width and a 1016" total width. Option 2 has a 36" clear width and a 915" total width. Other dimensions include 4" min, 28" min, 712, 36" min, 915, 8" min, 205, and 44" min, 1115.

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Clear Width 403.5.3 At 90-degree Turn (New)

Diagram showing a 90-degree turn with two options. Option 3 has a 38" clear width and a 905" total width. Option 4 has a 36" clear width and a 915" total width. Other dimensions include 40" min, 1002, and 44" min, 1115.

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Clear Width 403.5.3 At 90-degree Turn (New)

- New buildings have four options for making turns on narrow accessible routes
- Any of the options are permitted
- Exceptions exempt turns at doors, elevators, platform lifts
- Exceeds ADA
- Improves percentage of people accommodated compared to 36" routes

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Clear Width 403.5.3 At 90-degree Turn (New)

- Existing buildings may continue to use a 36" route at 90-degree turns
- 2009 Standard did not have a section for 90-degree turns but used general route requirements.
- Existing building provision match with ADA; new building provisions exceed

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Impact - Turns in a small store

Floor plan diagram of a small store showing various route options and dimensions for turns. The plan includes a grid of rooms and corridors, with callouts for specific dimensions and route types.

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Impact - Multi-stall layout

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Impact - Dining room layout

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Clear Width 403.5.4 Passing Space

- Provisions split for new and existing buildings
- New buildings require larger T-turns and a 52" extension beyond intersection
- Exceeds ADA
- Existing building can use 2009 dimensions

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Doors, Doorways and Gates Section 404

- Added "gates" to clarify they are viewed similar to doors
- Consistent with ADA in covering "gates"
- New general exemption if "operated only by security personnel"

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Manual Doors and Gates 404.2.3 Maneuvering Clearances

New Buildings

*If both closer and latch are provided

Existing Buildings

*If both closer and latch are provided

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Manual Doors and Gates 404.2.3 Maneuvering Clearances

2017 ICC A117.1

* 48 min (1220) if both closer and latch provided

2009 ICC A117.1

* If both closer and latch are provided
** 48 min (1220) if both closer and latch provided


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Manual Doors and Gates 404.2.3 Maneuvering Clearances


- Clarifies “clearance” includes width of door and required space to latch or hinge side
- 52” depth for forward approach on new buildings – was 48” depth previously
- 52” depth exceeds ADA
- 12” latch clearance eliminated on hinge approach door. Matches ADA




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DISCUSSION Interpretation



- Can a handrail extension overlap the door maneuvering clearance?
- Room designation sign?
- Light switch?

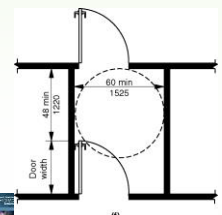



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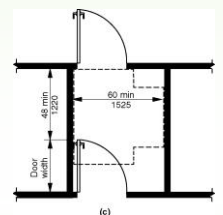
Impact - Vestibules

Existing




(f)

New





(c)




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Manual Doors and Gates 404.2.6, 404.2.8 Hardware & Opening Force

- Splits provisions for hardware and door forces
- Provides operational force for hardware
 - 15 pound forward pushing or pulling
 - 28 inch-pounds rotational motion
- Provides consistency





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Doors and Gates 404.3 Automatic and Power-assisted

- Distinction between power-assisted and automatic doors
- Classifies automatic doors as full-powered or low-energy
- Clarifies how provisions apply to each door type





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Doors and Gates 404.3 Automatic and Power-assisted

- If required at public entrances, it will not accept power-assisted doors. Must be automatic
- Where automatic doors used on a vestibule, must use same type door on at least one path
- Automatic doors require maneuvering clearance unless meeting one of three exceptions
- Doors in series can eliminate turning space for automatic doors (full-power or low-energy)



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Ramps 405 Change of Direction & Clear Width

- Intended to coordinate with ADA and IBC
- Requires 60" x 60" landing at change of direction – not "turning space"
- New exception reduces ramp width due to equipment

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406 Curb Ramps and Blended Transitions

- Creates format and provisions to address:
 - Perpendicular curb ramps
 - Parallel curb ramps
 - Blended Transitions
 - Common requirements
- Working to coordinate with proposed federal PROWAG

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406 Curb Ramps and Blended Transitions

- Minimum width of 48" vs. previous 36"
- Common requirements apply to all three types – Perpendicular, Parallel & Blended
- Defines "grade breaks" and requires them to be perpendicular to run and only at top and bottom
 - Grade break changes may impact common designs

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Curb Ramps 406.2 Perpendicular Curb Ramps

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Curb Ramps 406.2 Perpendicular Curb Ramps

- 48" min. landing length at top; 60" min. if constrained
- Larger landing (width and length) allows for turning
- Requires flared sides if circulation path crosses ramp
- Limits slope of ramp to 1:20 min., 1:12 max. but does not require ramp >15 feet.

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Curb Ramps 406.3 Parallel Curb Ramps

- Standard did not previously contain specific regulations
- Therefore resulted in inconsistent application
- Must also use "common requirements"
- Min. 48" x 48" landing at bottom

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Curb Ramps

406.3 Parallel Curb Ramps

- Landing increased to 60" min. depth from street if constrained on two sides
- Limits slope of ramp to 1:20 min., 1:12 max. but does not require ramp >15 feet.

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Blended Transitions

406.4 (New)

- Are not a curb "ramp" because slope $\leq 1:20$
- Rely on "common requirements" for most provisions
- Previously inconsistent applications due to no specific details in standard

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Detectable Warnings

406.6.2 Location of Warning Surfaces

- Provides one single section to regulate location of warnings
- There are five locations where warnings are required
- Includes "street crossings" on private property

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Detectable Warnings

406.6.2 Location of Warning Surfaces

- Trying to make private streets match federal PROWAG
- Warning required for pedestrian refuge island ≥ 6 feet
- Rail vehicle boarding and alighting areas at sidewalk or street level

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Detectable Warning Surfaces

705.6 Depth and Width

- Consolidated section provides the details for depth and width
- Connect with 406.6.2 and 705.7 regarding locations
- Better consistency
- Coordinates with federal PROWAG

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Detectable Warnings

705.7 Placement

- Consolidated section addresses placement depending on protected element
- Placement for curb ramps may differ from previous due to grade breaks, curb alignment and setback
- Distinct requirements for the 3 types of curb ramps
 - Warnings not required at pedestrian refuge islands < 6 ft. in width. Need 24" between warnings

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Impact – Exterior route

Wider sidewalks



Wider passenger drop offs




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Impact – Exterior route

Options for curb cuts



Blended transitions



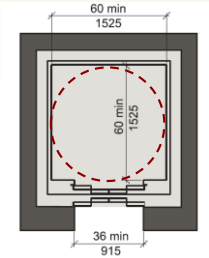
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Elevator Cars

Table 407.4.1 Minimum Dimensions

- Allows 60" turning circle versus compliance with Section 304 turning requirements.
- Would otherwise require 67" diameter or larger T-turns.
- Allows 2009 sizes instead of increase




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Elevator Car Control:

407.4.6.2.2, 407.4.7.1.2 Designations



- Relocates car control designations to appropriate section
- Clarifies letter designation are permitted
- Numbers are primary designation and letters are secondary and to the right (1P)
- Two letters maximum (-1LL)


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Elevator Car

407.4.9.1.1 Size of Position Indicators

- Increases character size from 1/2 to 5/8 inch min.
- Done to coordinate with Canadian size requirement
- Will increase visibility
- Coordinates with elevator standard

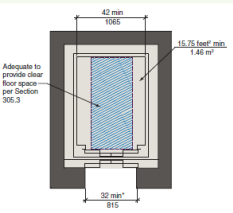


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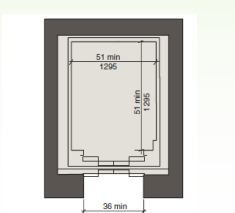
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LULA Elevator Cars

408.4.1 Inside Dimensions



New buildings



Existing buildings – Exception 2


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LULA Elevator Cars 408.4.1 Inside Dimensions

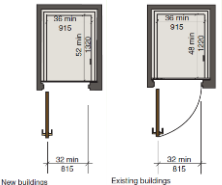
- Specifically requires by reference that complying clear floor space is provided within elevator car
- By reference that means 30" x 52" clear floor space
- Won't impact LULAs built close to minimum width
- New exception for existing buildings coordinates with ADA to accept a 51" x 51" configuration which was also acceptable in 2003 A117.1




Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

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Private Residence Elevator 409.4.1 Inside Dimensions for Car



- Minimum depth increased to 52" for new buildings
- Done to coordinate with new clear floor space size
- Existing buildings can use 48" depth previously allowed by earlier standards






Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

92

Platform Lifts 410.5.1

For new buildings:

- Change for vertical platform lifts to new clear floor space size – 36" x 52"
- Done to coordinate with building block section
- Incline platform lift with barriers are permitted to use 36" x 48"



Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

93

Platform Lifts 410.5.1 With Single Doors or Doors on Opposite Ends

Existing buildings:

- Can use 48" depth





Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

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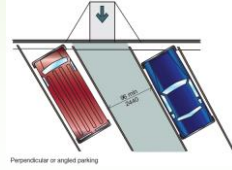
Chapter 5: General Site and Building Elements

- Parking
- Loading Zones
- Stairways
- Windows
- Routes Through Parking



95


Parking Spaces 502.1, 502.9 (New)



Perpendicular or angled parking

- Added provisions related to diagonal parking and on-street parking
- On-street provisions based on and coordinate with PROWAG

(New) Standard previously did not provide guidance or requirements for on-street parking



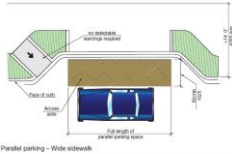
Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

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Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

Parking Spaces 502.1, 502.9

- “On-street” addresses parallel, perpendicular or angled parking
- Parallel provisions depend on width of sidewalk or right-of-way
- Use “Wide” if >14 ft. width right-of-way, “Narrow” if ≤14 ft.




Parallel parking - Wide sidewalk

Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

97

Parking Meters and Pay Stations 502.10 (New)

- Provisions added to address location and access to on-street parking meters and pay stations.
 - Not applicable to parking lots
- Done to coordinate with PROWAG
- Requires: Compliance with operable parts, location at end of stall, visible display at 40” max.




Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

98

Electrical Vehicle Charging Station 502.11 (New)

- Ensures they are accessible and usable
- Regulated “where provided” at parking spaces
- Provisions address operable parts, accessible route, obstructions
- Applies to both parking lots and on-street parking

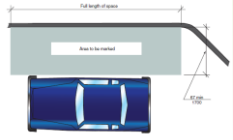


Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

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Passenger Loading Zones 503.3.2 Access Aisle

- Increases width to 67” instead of previous 60”
 - “Existing” can use 60”
- Done to accommodate larger mobility devices
- Length modified to “full-length” of pull-up space versus 20 ft. min.
- Length coordinates with ADA



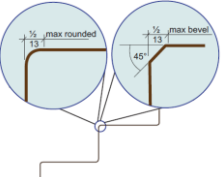
Passenger loading zone - New buildings

Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

100

Stairway Nosings 504.5

- Revised formatting to make requirements clearer and easy to understand
- Beveled nosing modified to limit the reduction of the tread depth
- Bevel limited to 45 degree angle

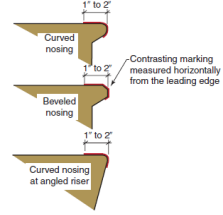


Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

101

Stairways 504.6, 504.9.1 Visual Contrast and Illumination Levels

- Clarity will make stairs safer by being more consistent
- Helpful for people with visual impairment
- Addresses nosing on treads and landings
- Illumination control addressed




Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

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Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

Tactile Signage Within Stairway Enclosures and at Exits 504.10, 504.11




- Clarifies signage requirement within stairway enclosure and at exit doors
- Tactile (raised character and braille) sign at:
 - Door to area of refuge with direct access to stairway
 - Exterior area for assisted rescue
 - Exit stairway or ramp
 - Exit passageway
 - Exit discharge

Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition 103

103

Windows 506, 1102.9, 1102.13, 1103.9, 1103.13

- Separate force provisions for latch or operable parts versus window opening force
- Four forces on a window – locking, unlocking, opening and closing
 - Locking/unlocking are operable parts
 - Opening/closing - AAMA 513



Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition 104

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Windows 506, 1102.9, 1102.13, 1103.9, 1103.13


Operating force for opening/closing windows:

- 8.5 pounds max. for vertical or horizontal sliding
- 5 pounds max. for all other types
- Type A units only regulate height and clear floor space
- Accessible and Type A units exempt windows in kitchens and bathrooms

Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition 105

105

Parking 507 Accessible Routes Through (New)



Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition 106

106


Parking 507 Accessible Routes Through (New)

- Regulates routes through parking facilities
 - Exempts crossing drive aisle
 - Exempts routes from parking spaces or loading zones which comply with Sections 502 and 503 provisions
- Does not specify means of protection
- May avoid provisions completely if accessible route runs around the parking area

Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition 107

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Chapter 6: Plumbing Elements and Facilities



- Bottle filling stations
- Toilet compartments
- Lavs and Sinks
- Showers
- Bench in Sauna and Steam Room

Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition 108

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Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

Drinking Fountains and Bottle Filling Stations 602

- Reformats provisions for drinking fountains to separately address:
 - Wheelchair
 - Standing
- Clarifies children's size exemptions
- Adds section for bottle filling stations






Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

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Grab Bars for Water Closets 604.5.1, 604.5.2

Reformatted to brief sections for clarity:

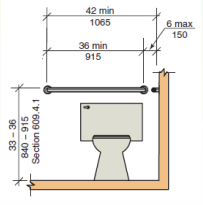
- Horizontal grab bar
- Vertical grab bar
- Rear wall grab bar
- Slight technical difference for children's vertical bar
 - Must use appropriate location for children


Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

110

Grab Bars for Water Closets 604.5.1, 604.5.2



- Reformatted rear wall bar requirements for clarity
- Rear grab bar measured from side wall vs. centerline of W.C.
- May require longer rear bar due to 3 requirements
- May differ from ADA if not set exactly at 6" with W.C. not set exactly at 18"




Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

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Water Closets and Compartments 604.7.1, 604.11.7 Dispensers

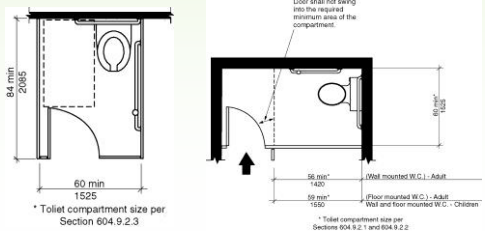
- Adds new exception to permit compliance with ADA location requirements
- Applies to adult and children's fixtures
- Limits application to two-roll dispenser using 5" diameter rolls

Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

112

Wheelchair Accessible Toilet Compartments 604.9.2.3, 604.9.3, 604.10.3 Alternate



* Toilet compartment size per Section 604.9.2.3

† Toilet compartment size per Sections 604.9.2.1 and 604.9.2.2



Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

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Wheelchair Accessible Toilet Compartments 604.9.2.3, 604.9.3, 604.10.3 Alternate

- Provides alternative wheelchair toilet compartment
- Door allowed to swing into compartment if clear floor space beyond arc of door
- Allowed as alternate by Section 604.9.2
- Compartment door provisions also revised for wheelchair and ambulatory stalls
- Section 404 maneuvering clearances not required within stalls
- Clarifies previous intent

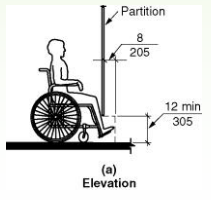


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Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

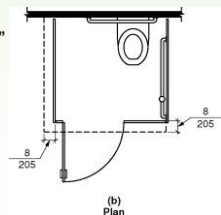
Wheelchair Accessible Compartment 604.9.5.1, 604.9.5.2 Toe Clearance



- Minimum height of adult compartment partitions raised to 12 inches
- Coordinates with the previous requirement for children's use
- Based on mobility report, previous height only accommodated 50% of users

115

Wheelchair Accessible Compartment 604.9.5.1, 604.9.5.2 Toe Clearance

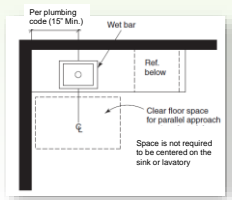


- Toe clearance beyond partition increased from 6" to 8" minimum depth
- Study indicated 6" depth only served 25% of users
- Exceptions revised to eliminate clearance if compartment dimensions increased equivalent amount.

116

Lavatories and Sinks: 606.2 Clear Floor Space

- Deleted requirement for parallel clear floor space to be "centered" on the sink or lavatory.
- Sink location is regulated by plumbing code and is centered at least 15 inches from adjacent wall minimum.



117

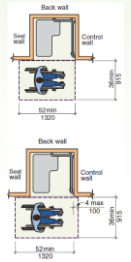
Lavatories and Sinks: 606.2 Clear Floor Space



- "Centering" requirement would have pushed sink farther from corner due to larger clear floor space (52" length)
- With shoulder alignment/reach range; the 15" requirement should work.

118

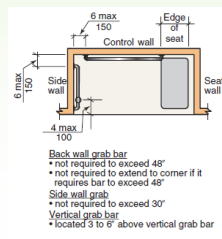
Clearance for Transfer Shower 608.2.1.2



- Clearance length increased to 52" in new buildings. Remains 48" for existing buildings
- Coordinates with new clear floor space requirement in 305.3.1
- Clearance located from control wall or from point 4" behind control wall.

119

Standard Roll-in Shower 608.3.2 Grab Bars



- Vertical grab bar required on sidewall opposite seat if ≤72" from seat wall
- Helps users walk-in or stand to shower
- Format revised to individual sections for each grab bar
- 48" max. length for back wall grab bar

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Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

Alternate Roll-in Shower 608.4.3 Controls and Hand Showers

- Provides more limited location for controls and hand showers
- Keeps controls from being located over seat if placed on side wall
- Puts controls towards open transfer side if located on back wall
- Locations coordinate with transfer and roll-in shower locations

121

Sauna and Steam Rooms 612.2 Bench

- Single user rooms allow door to swing in if clear floor space is provided beyond arc of door
- Requirement is similar to single user toilet rooms and dressing/fitting rooms.
- Bench provisions revised in Section 903 (covered later) but impacts this section also

122

Impact – Single occupant toilet room design

Existing

New

123

Impact – Single occupant toilet room design

Existing

New

124

Impact – Single occupant toilet room design

Existing

New

125


Chapter 7: Communication Elements and Features

- Alarms
- Signs
- Wheelchair Accessible Telephones
- Visual Relay Service Booth
- Detectable Warnings

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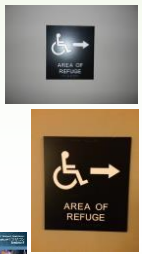
Alarms 702.1



- Clarifies distinction between building alarm system and notification requirements within dwelling units
- Building fire alarms comply with Section 702.1
- Audible and visible notification appliances within dwelling and sleeping units comply with Section 1106

127

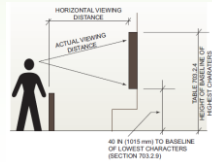
Nonglare Finish for Visual Characters, Pictograms and Symbols of Accessibility 703.2.10.1, 703.5.3.1, 703.6.2.1



- Provides a specific measurable limit of glare on signage
- Limit will provide greater consistency versus simple visual preference
- Section 703.5.3.2 added to address character contrast of pictogram text descriptors

128

Visual & Low-Resolution VMS Tables 703.2.4, 703.7.4 Character Height



- New footnote clarifies how viewing heights are measured
- Will provide consistency in applying provisions
- Character height will be based on baseline of highest line of characters
- Height and distance are the two primary factors

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Visual & Low-Resolution VMS Tables 703.2.4, 703.7.4 Character Height


2017 STANDARD: TABLE 703.2.4 Visual Character Height

Height above Floor to Baseline of Character ¹	Horizontal Viewing Distance	Minimum Character Height
40 inches (1015 mm) to less than or equal to 70 inches (1780 mm)	Less than 6 feet (1830 mm)	1/8 inch (3 mm)
	6 feet (1830 mm) and greater	1/8 inch (3 mm), plus 1/32 inch (0.8 mm) per foot (305 mm) of viewing distance above 6 feet (1830 mm)
Greater than 70 inches (1780 mm) to less than or equal to 120 inches (3050 mm)	Less than 15 feet (4570 mm)	2 inches (51 mm)
	15 feet (4570 mm) and greater	2 inches (51 mm), plus 1/32 inch (0.8 mm) per foot (305 mm) of viewing distance above 15 feet (4570 mm)
Greater than 120 inches (3050 mm)	Less than 21 feet (6400 mm)	3 inches (76 mm)
	21 feet (6400 mm) and greater	3 inches (76 mm), plus 1/32 inch (0.8 mm) per foot (305 mm) of viewing distance above 21 feet (6400 mm)

¹ The vertical height is measured from the floor of the viewing position to the baseline of the highest line of characters.

130


Wheelchair Accessible Telephones 704.2



- Clarifies that only the clear floor space is exempted for drive-up phones
- Must comply with all other applicable requirements
- Previously exempted all aspects
- Differs from ADA which exempts these phones; A117.1 provision may not be totally appropriate

131

Visual Relay Service Booth 704.7 (New)

- Provides basic design details for the space
- Booths allow location to sign a video interpreter
- Not scoped by building code
- Addresses lighting, background, seating, privacy and two-way communication

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Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

Detectable Warning Surfaces

Covered previously with Section 406

- Section 705.6, Depth and Width
- Section 705.7, Placement

Addressed on pages 117 to 121 in workbook, but moved up to follow Section 406 in this presentation to show in context with curb ramp provisions



Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

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Chapter 8: Special Rooms and Spaces

- Assembly seating
- Sign language interpreter stations
- Kitchens
- Classroom acoustics





Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

134

Assembly Areas: Definitions

For Review – Not a change

- wheelchair space:** A space for a single wheelchair and its occupant.
- wheelchair space locations:** A space for a minimum of a single wheelchair and the associated companion seating. Wheelchair space locations can contain multiple wheelchair spaces and associated companion seating.

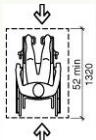



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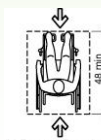
Wheelchair Space in Assembly Areas 802.4, 802.5.1 Depth

New




(a) Front or Rear Access
New Buildings

Existing



(b) Front or Rear Access
Existing Building

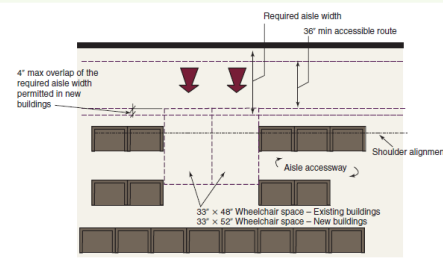
- Size of and access to wheelchair space revised based on larger clear floor space in new buildings
- Allows depth to extend into aisle up to 4 inches
- Overlap is not allowed for width.



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Wheelchair Space in Assembly Areas 802.4, 802.5.1 Depth

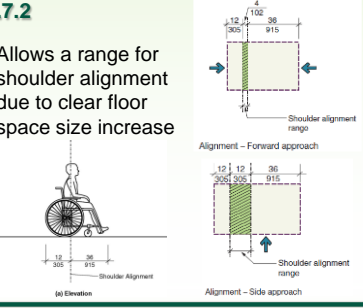


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137

Companion Seat Alignment 802.7.2

- Allows a range for shoulder alignment due to clear floor space size increase



(a) Elevation

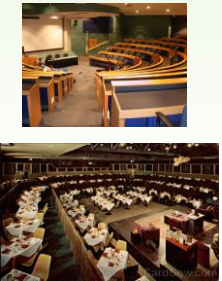
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Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

Companion Seat Alignment 802.7.2

- Alignment is not required for seating at tiered dining or work surfaces
- Examples:
 - Dinner theaters
 - Lecture halls
- Dispersion should be based on general assembly seating (802.10)




Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition 139

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Wheelchair Space Dispersion 802.10.4 Primarily for Viewing Motion Pictures

- Clarifies that wheelchair spaces can be located on a riser or cross-aisle in tiered seating
- Eliminates the doubt those locations are "integrated" with general seating
- Coordinates with options allowed by ADA for distance from screen

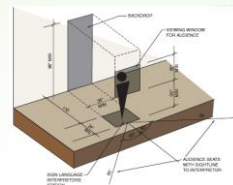


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Sign Language Interpreter Stations 802.11

- Standard does not require these interpreter stations
- Provides design parameters for station, including:
 - Size
 - Viewing angle and distance
 - Lighting
 - Backdrop




Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition 141

141

Sign Language Interpreter Stations 802.11

General requirements:

- Size:** Clear floor area 24" deep by 36" wide
- Location:** Serves seating within 65' horizontal distance, 60 degrees to left and right, and view from 36" to 72" above station floor
- Illumination:** Capable of providing 10 foot-candles in station at height of 48" above floor
- Backdrop:** Wall or backdrop less than 10' behind station to height of 96" above floor, with monochromatic low luster finish




Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition 142

142

Kitchen Clearance 804.2, 1103.12.1.2, 1104.12.1.2

- Term "kitchenette" is typically dropped and provisions based on "where a cooktop or conventional range is not provided."
 - Must meet 40" minimum clearance
 - Not required to meet pass-through or U-shaped requirements
- Pass-through and U-shaped kitchen provisions revised to address islands and clearances
 - Previously inconsistent enforcement regarding appropriate clearance where islands were used



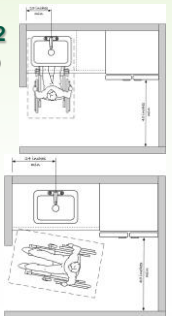
Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition 143

143

Kitchen Clearance 804.2, 1103.12.1.2, 1104.12.1.2

Kitchenettes: (No cooktop or range)

- Requires 40 inch minimum clearance between cabinets, appliance and any walls at kitchenettes.
- Pass thru not required for kitchenette.
- Work surface not required in kitchenette.
- Parallel approach at sink.
- Turning space where within an Accessible or Type A unit.



Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition 144

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Kitchen Clearance

804.2, 1103.12.1.2, 1104.12.1.2

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Impact - Kitchen

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Enhanced Acoustics for Classrooms

808 (New)

- Provides guidance to improve acoustics by controlling:
 - Reverberation
 - Ambient sound levels
- Currently only for rooms $\leq 20,000 \text{ ft}^3$
- Helps improve hearing and comprehension/learning

Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

147

Enhanced Acoustics for Classrooms

808 (New)

Classroom Acoustics Requirements

Learning Space	Greatest one hour average sound level of exterior source background noise	Greatest one hour average sound level of interior source background noise	Maximum reverberation times for sound pressure levels in octave bands with frequencies of 500, 1000 and 2000 Hz.
Classrooms with an enclosed volume of $\leq 10,000$ cubic feet	35 dBA/55 dBC	35 dBA/55 dBC	0.9 seconds
Classrooms with an enclosed volume of $> 10,000$ cubic feet and $\leq 20,000$ cubic feet	35 dBA/55 dBC	35 dBA/55 dBC	0.7 seconds

Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

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Chapter 9: Built-In Furnishings and Equipment

- Benches
- Sales and service counters
- Charging stations
- Gaming machines and tables

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Benches

903.2 Clear Floor Space

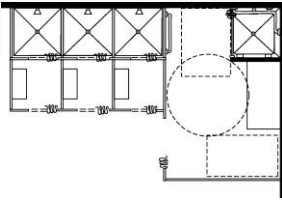
- Clear floor space required at short end of bench
- Done to coordinate with ADA
- Reverses 2009 standard which allowed parallel approach to front of bench

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Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

Impact – Shower rooms with dressing areas




Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

151

Sales/Service Counters & Windows 904.3

- “Windows” added into technical requirements
- Regulates “public portion” “where counters are provided”
- Employee side is not regulated since it is a work area
- Clarifies small (<36” length) parallel counters are OK if that is entire counter length




Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

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Sales/Service Counters & Windows 904.3

- Applicable to public side (not employee side)
- Side or front approach
- Equal customer counter
- Maximum barrier height to allow for face-to-face contact between employee and customer
- Allowance for security windows

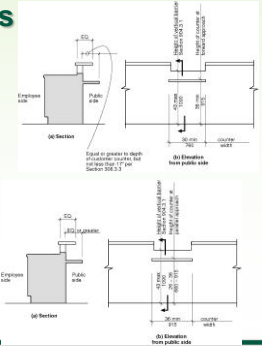


Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

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Service windows – 904.3

- Applicable to public side (not employee side)
- Side or front approach
- Equal customer counter
- Maximum barrier height to allow for face-to-face contact between employee and customer
- Allowance for security windows




Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

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Charging Stations 906, 802.10.3.1, 1102.15.4 (New)

- Provides technical requirement for charging stations
- Allows charging where wheelchair will be sitting for extended periods
- Required in Accessible units; and “if provided” in assembly spaces



Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

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Gaming machines and tables 907 (New)

- Clear floor space next to gaming table or machine
- Can use transfer to a fixed seat or clear floor space

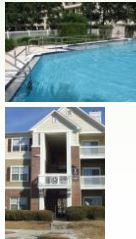


Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

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Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition

Chapters 10 & 11 Recreational Facilities and Dwelling Units and Sleeping Units




- The order of the two chapters has been flipped.
- Chapter 10 is Recreation, Chapter 11 is Dwelling provisions
- Coordinates with the ADA chapter format by having Chapter 10 address recreation facilities (ADA does not have a Chapter 11)

Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition 157

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Chapter 10: Recreational Facilities



- Recreational facilities

Significant Changes to the ICC A117.1 - Accessibility Standard - 2017 Edition 158

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Golf Facilities

1006.2 Accessible Routes (New)




- Separates exterior route provisions that allow a golf car to be used from the general Chapter 4 route provisions
- Distinction between interior and exterior routes
- 48" min. width; 60" if constrained
- Shelters regulated "if provided"

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1110 Shooting Facilities with Firing Positions




- General exception added for elevated firing positions – similar to press box limitations
- Counters or barriers at shooting positions have 34 inch max. height - similar to dining/work surface

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Chapter 11: Dwelling Units and Sleeping Units



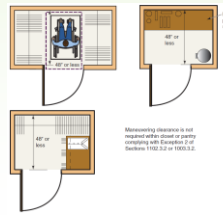
- Accessible units
- Type A units
- Type B units
- Units with communication features

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Doors and Doorways

1102.5, 1103.5



- New exception clarifies door maneuvering clearances are not needed inside limited size closets and pantries
- If space does not allow full entry, no need for complying with 404 inside the space

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Beds 1102.15.2 (New)

- New requirements:
 - Limit range for bed height
 - Require charging station
- Applicable to accessible bed in Accessible units
 - Applicable to only one bed in the unit






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Beds 1102.15.2 (New)

- Charging Station:
 - Compliant with 906
 - Charge a motorized wheelchair
 - Same space as transfer space next to bed in Accessible unit
- Mattress height
 - 17 to 23 inches from floor to top of mattress (uncompressed)

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Work Surface and Kitchen Sink 1103.12.3, 1103.12.4 Type A Units

Within a Type A unit which does not contain a cooktop or conventional oven, exceptions have been added to:

- Eliminate work surface
- Permit parallel approach to kitchen sink

Coordinates with 2009 provision for Accessible units and general kitchens

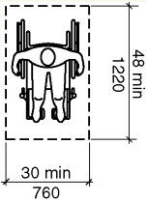




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Type B units 1104

- Numerous changes throughout 1104 – but generally do not create technical changes
- Needed due to changes in “building block” provisions of Chapter 3
 - Keep old size
 - Match FHA
- Examples:** Clear width (90° & 180° turns), primary entrance doors, Elevators and platform lifts.

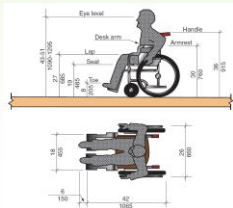




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Clear Floor Space 1104.1.1

- Establishes that a 48” length is still used for the clear floor space in Type B units
- This separates 1104 from general provisions in building block section
- Done by direct reference, requirement for “Clear floor space” or partial references






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Mailboxes 1104.1.2

- Mailboxes for Type B units are permitted a high reach range of 54” vs. previous 48”
- Expands height and hopefully reduces length of room size
- Coordinates with HUD and US Postal Service





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User Passage Doorways 1104.5.2

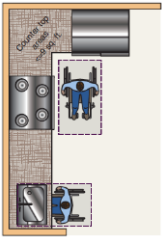


- Clarifies shower doors are not “user passage doorways” which must meet normal Type B unit door provisions
 - Allows a reduced clear width
 - Allows tracks or “thresholds” for shower doors that exceed 1/2”

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Operable Parts – Type B units 1104.9



- Reference to 1104.1.1 reinforces that 48” clear floor space is permitted.
- Retains operable parts section in Type B units instead of relying on 309
- Adds exception for outlets in corner of kitchen cabinet between two appliances.

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Laundry Equipment 1104.10.1 Clear Floor Space

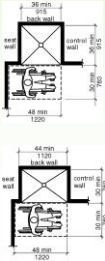



- Change to keep 30” x 48” clear floor space
- Since no requirements for operable parts on appliances, Type B units can use stackable machines

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Shower Compartment 1104.11.3.1.3.3

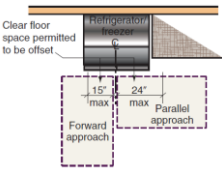


- Transfer shower was limited to 36” x 36” minimum size dimensions
- Allows 30” x 44” min. as alternate for equivalent area
- Any size shower door permitted

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Clear Floor Space 1104.12.2.5 Refrigerator/Freezer





- Permits a forward approach
- Coordinates with Fair Housing Accessibility Guidelines
- Offset is limited to 15” for forward approach
- Remember clear floor space is 30” x 48”**

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Units with Communication Features 1106.5.1 Primary Entrance - Notification

- Requires a means of disconnecting visible doorbell signals if they are located in the sleeping area
- Done to coordinate with ADA requirement
- Visible signals typically are located in sleeping room while audible is typically in a hall where a door can close

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QUESTION & ANSWER **Questions?**



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