

Parallel Requirements of Construction Standards for Accessibility

ANSI, UFAS and 1991 ADA Standards

Facility	Readily Accessible (prior to ANSI 6/77)	ANSI (6-4-77 TO 1-17-91)	UFAS (1-18-91 TO 1-27-92)	ADA (1-28-92 to 3-15-2012)
		Cite 4.2	Cite 4.3	Cite 4.3
<p>ACCESSIBLE ROUTE/WALK</p> <p>Path of travel is stable, firm, slip-resistant, and accessible to entrance</p> <p>Path width:</p> <p>Path of travel has a continuing surface not interrupted by steps or abrupt changes in level</p> <p>Path of travel blends at driveways and parking lots or have curb cuts at driveways and parking</p> <p>Not applicable</p>		<p>Required minimum 4 ft. wide</p> <p>Required</p> <p>Required</p>	<p>Required minimum 3 ft. wide</p> <p>Required</p> <p>Required</p>	<p>Required minimum 3 ft. wide with passing space of 60 " by 60" every 200'</p> <p>No changes in level greater than ¼ without beveling</p> <p>Max slope is 5%; max cross slope is 2%</p> <p>Required</p> <p>Required</p>

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			Cite 4.33	Cite 4.33
ASSEMBLY MEETING CONFERENCE ROOMS	<p>Assembly area</p> <p>Is there an accessible route to the assembly area</p> <p>Is there an accessible route to the wheelchair designated seats</p> <p>Number of wheelchair locations Accessible doors, hardware and bathrooms</p>	Requires appropriate number	Capacity	#wheelchairs
			<p>50 to 75</p> <p>76 to 100</p> <p>101 to 150</p> <p>151 to 200</p> <p>201 to 300</p> <p>301 to 400</p> <p>401 to 500</p> <p>501 to 1000</p> <p>over 1000</p>	<p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>2%</p> <p>20+1 for each 100 over 1000</p>
Access to performing area	Is there an accessible route connecting seating locations to performing area, stages, and other spaces used by actors		Required	Required
Audio amplification	If there is audio-amplification, how are the hearing impaired accommodated	Accessible and usable	listening devise to accommodate a reasonable # of people, but no fewer than 2 with severe hearing loss If accommodation is fixed, is it within 50' of stage	Same as UFAS

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				Cite 4.34
AUTOMATED TELLER MACHINES Automated teller machines		Accessible and usable	Not mentioned Could cite section 4.27 regarding controls.	Provide for parallel approach and both forward and side reach. Instructions and all information for use is to be accessible to and independently usable by persons with vision impairments.
		Cite 5.3	Cite 4.13	Cite 4.13
DOORS AND DOORWAYS Minimum clearance: Internal door opening force: Thresholds at doorway: Maneuvering clearance: External doors-no weight maximum. Recommend 8.5 f Door handles, pulls, latches, locks and operational devices		32" Operable by single effort Exterior 3/4" Interior 1/2" (no greater than) Both sides of door are level with 60" clearance in direction door swings	32" 5 lb/f Same 42" – 60" 48" maximum height operable with closed fist	32" 5 lb/f Same 42" – 60" same

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		Cite 5.7	Cite 4.15	Cite 4.15
DRINKING FOUNTAINS				
Number accessible	If only one fountain on the floor, is it accessible If more than one fountain, are 50% accessible	Appropriate number must be accessible	If only one, must be accessible; if more than one, 50% of total number must be accessible 30" x 48" clear floor space	Same as UFAS
Location	On an accessible route	Required	Required	Required
Height	Spout no higher than 36" from floor	Spout no higher than 36" from floor to spout outlet Required	Spout no higher than 36" from floor to spout outlet Required; also is the flow high enough for the insertion of a cup or glass Clear knee space of 27" from floor to apron. 30" wide by 48" deep clear floor space for forward approach 30 " minimum wide, 17"-19" deep	Spout no higher than 36" from floor to spout outlet Required; also flow of spout is positioned so the flow of the water is within 3" of the front of the fountain
Controls	Are the controls mounted on the front or side, near the front edge, and operable with a closed fist	Required	Required Controls on front or side, near the front edge, and operable with closed fist.	Required Controls on front or side, near the front edge, and operable with closed fist.
		Cite 5.9	Cite 4.10	Cite 4.10
ELEVATORS				

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Call button hallway		48" from floor	42" to center of "up button" must be on top and sound once; down button sounds twice	Same as UFAS
Hall lantern-tells where elevators are...			Must be visible and audible – audible once for up and twice for down (72" min.)	Same as UFAS
Doors		32" wide	Opening 36" wide automatically opens and closes-reopening devise for obstructions 5" and 29" from floor	Same as UFAS
Raised characters		Accessible and usable	raised characters on hoist way 60" on both jambs above finish floor	UFAS and additionally specifies tactile must be raised and Braille characters and symbols
Car controls		Accessible and usable	48" (front approach) to 54" (side approach) maximum tactile and visual control indicators-all control buttons designated by raised characters and symbols to the left of buttons-main floor a star emergency buttons no less than 35"	UFAS and additionally specifies tactile must be raised and Braille characters and symbols
Car position indicator		Accessible and usable	In car above control panel or door, a visual indicator shows the position of the car – illuminates and an audible signal sounds when car stops on a floor verbal	Same as UFAS

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<p>FIXED OR BUILT-IN SEATING AND TABLES</p>		<p>Accessible and usable</p>	<p>At least 5% but not less than one</p> <p>Accessible route to and through the area</p> <p>At least 30" x 48" allowing for front or parallel approach.</p> <p>27" high, 30" wide, and 19" deep knee space required for wheelchairs.</p> <p>Height to top of <i>accessible</i> tables and counters to be 28" to 34"</p>	
				<p>Cite 4.25</p>
<p>FIXED STORAGE</p> <p>(cabinets, shelves, closets, drawers, etc.)</p>		<p>Accessible and usable</p>	<p>If storage is provided, in an accessible facility, at least one should be accessible.</p> <p>Accessible route to and through the area</p> <p>Clear floor space of 30" x 48" for forward or parallel approach.</p> <p>Reach --54" maximum for</p>	

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			side approach, 48" maximum for forward approach. Hardware operable with closed fist	
			Cite 4.32, 4.1	Cite 4.32, 4.1
FOOD SERVICE Seating, Tables, and Work Areas	Number accessible _____ Floor space _____ Knee clearance _____ Height _____	Accessible and usable	f fixed or built-in seating or work surfaces are provided in accessible spaces, at least 5%, but not less than one, must comply with 4.32. Seating at these spaces should have appropriate floor space and knee clearance of at least 27" high, 30" wide, and 19" deep. The top of the work surface should be 28" to 34" from the floor	Same as UFAS Additionally, an accessible route shall lead to and through such fixed or built-in seating areas or tables
Facilities Seating	Number _____	Accessible and usable	Cite 5.1, 4.32, 4.3 At least 5% of all fixed seating or tables shall comply with 4.32 with appropriate clear floor space, knee clearance of at least 27" high, 30" wide, and 19" deep, with tops of tables 28" to 34" from the floor	Cite 5.1, 4.32 Same as UFAS, except where separate areas are designated for smoking, the Required number of tables shall be proportionately distributed. In new construction, and where practicable in alterations, accessible tables shall be distributed throughout the facility.
Food service lines	Number _____	Accessible and usable	Cite 5.2 Minimum clear width of 36"	Cite 5.5 Same as UFAS

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			(preferred 42"), tray slides no higher than 34" above the floor	
Tableware and condiment areas		Accessible and usable	Cite 5.3 Reach should be no more than 54" (4.2)	Cite 5.6 Same as UFAS
			Cite 8.1 through 8.5	Cite 8.1 through 8.5
LIBRARIES Site area		Accessible and usable	In addition to the req. of 4.1 and 4.33, the design shall comply with 8.1 through 8.5	Same as UFAS
Reading and study areas	Number of units of: fixed seating _____ tables _____ study carrels _____	Accessible and usable	Cite 8.2 At least 5% or a minimum of one of each unit of fixed seating, tables, or study carrels shall be accessible. Clearances between the tables or study carrels shall be accessible	Cite 8.2 Same as UFAS
Check-out areas	Number of check-out lines _____	Accessible and usable	Cite 8.3 At least one lane at each check-out area shall comply with 4.32 with appropriate floor space, knee clearance, of at least 27" high, 30" wide, and 19" deep, with top of counter 28" to 34" from the floor	Cite 8.3 Same as UFAS
Card catalogs		Accessible and usable	Cite 8.4 Minimum clear aisle space at card catalog, magazine	Cite 8.4 Same as UFAS

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			displays, or reference stack shall be 36" wide. Maximum reach height preferred – 48"	
Stacks		Accessible and usable	Cite 8.5 Minimum clear aisle width between stack, 36" minimum; preferred – 42". Shelf height in stack areas is unrestricted	Cite 8.5 Same as UFAS
			Cite 4.11	Cite 4.11
LIFTS Does lift facilitate unassisted entry and exit?		Required	Required	Required
			Cite 4.23	Cite 4.23
LOCKER ROOMS Locker Rooms		Accessible and usable	4.21-Shower stalls	15" to 48" mounting height to operable part of switches, handles, dispensers, controls (desirable for forward approach) Comparable Accessible Private and accessible shower stall. Comparable and accessible hair dryers or other features.
		Cite 4.3	Cite 4.6	Cite 4.6
PARKING				

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Total # of spaces: # of accessible spaces:		No required number; however, the number of accessible spaces should be based on frequency and persistence of parking needs	Total spaces 1-25 /1 26-50 /2 51-75 /3 76-100 /4 101 – 150 /5 151 – 200 /6 201 – 300 /7 301 – 400 /8 401 – 500 /9 501 – 1,000 /2%	Same as UFAS
Measurement of spaces:		12 ft. wide	8 ft. plus 5 ft. access surface slope not to exceed 1:50 (2%)	Same as UFAS 1 van accessible to 8 accessible spaces Must be 16 ft. (van-accessible) 96” wide
Spaces identified with International Symbol of Accessibility Signage mounted to be seen over parked car		Required	Required	Required
Closest to accessible entrances		Required	Required	Required
Parking surface is smooth		Required	Required	Required
Clear and safe path from parking spaces to accessible route		Required	Required	Required
		Cite 5.8	Cite 4.31	Cite 4.31
PUBLIC TELEPHONES				

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Wheelchair accessible		If public phone provided, appropriate number must be accessible and usable	If public phone provided, one accessible phone required at each bank of phones. Is there a clear floor space of at least 30 x 48" in front of accessible one Yes _____ No _____ Is the highest operable part of the phone no higher than 48" (up to 54" if side approach is possible) Yes _____ No _____ Are there push button controls Yes _____ No _____ 29" minimum phone cord length Telephone books within reach	Same as UFAS
Accessible to hearing impaired	Is there a hearing aid compatible phone Is there a volume control	Required	Required	Required
Text telephone TDD/TTY			UFAS does not require.	is there access to a TDD Is there directional signage
		Cite 5.1	Cite 4.8	Cite 4.8
RAMPS				

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<p>Maximum slope:</p> <p>Clear width:</p> <p>Handrail: (Height)</p> <p>Number of handrails:</p> <p>Handrail has smooth surface and extends lift beyond top and bottom of ramp</p> <p>Level landings at top and bottom of ramp</p>		<p>1:12 (8%) non-slip surface level platforms at 30 foot intervals</p> <p>36"</p> <p>32" high measured from ramp surface</p> <p>at least one</p> <p>Required</p> <p>Top 5 ft 5 in bottom 6 ft clearance</p>	<p>Same</p> <p>36"</p> <p>30" – 34"</p> <p>Both sides (if rise is greater than 6" or projects more than 72")</p> <p>Required</p> <p>Top 5 ft bottom 5 ft clearance</p>	<p>Same</p> <p>30 " Maximum rise for any run 1:50 (2%) max for cross slopes</p> <p>36"</p> <p>34" – 38"</p> <p>1 ¼-1 ½" diameter gripping surface 1 1/2" clear space between rail and wall.</p> <p>Both sides (if rise is greater than 60" or horizontal projection of 72") Required</p> <p>Top of gripping surfaces mounted 34" to 38" above ramp surface Rail extends 12" beyond top and bottom of ramp</p> <p>Top 5 ft bottom 5 ft clearance</p>
		Cite 4.1, 4.22, 4.23	Cite 4.1, 4.22, 4.23	Cite 4.1, 4.22, 4.23
RESTROOM				

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FACILITIES Availability and number	Available Number Female _____ Male _____	Appropriate number in accordance with the nature and use of a specific facility	If toilet facilities are provided, all available toilet rooms should be accessible	Same as UFAS
Accessible Route		Accessible and usable	Cite 4.22 Accessible toilet rooms shall be on an accessible route	Cite 4.22 Same as UFAS
Signage		Cite 5.11 Appropriate identification	Cite 4.1, 4.30 Interior signage shall be located alongside the door (in view from the hallway) at a height of between 54" and 66"	Cite 4.1, 4.30 Signage should designate accessible toilet facilities when not all are accessible. The signage shall be at a height of 60"
Doorways and passages	Female (F) Male (M)	Cite 5.3 Door shall have a clear opening of no less than 32" when open, be operable by a single effort	Cite 4.1, 4.2, 4.13 Doorways shall have a minimum of 32" clear space, be equipped with accessible handles mounted no higher than 48" with a door opening force of 5LBF. There shall be a 36" wide path to all fixtures	Cite 4.1, 4.2, 4.13 Same as UFAS
Foyer	(M) (F)	Accessible and usable	Cite 4.13.7 Minimum space between two doors in series (foyer) shall be 48" plus the width of any door swinging into the space	Cite 4.13 Same as UFAS
Clear floor space	(M) (F)	Cite 3.2, 5.6 Toilet rooms shall have an average turn	Cite 4.16, 4.22 Same as ANSI, or a T-shaped space permitting a	Cite 4.16, 4.22 Same as UFAS

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Urinals		space of 60" by 60" Cite 5.6.5 Wall-mounted opening of basin 19" from the floor; floor-mounted – level with the floor	180 degree turn (4.2.3) Cite 4.18 Stall-type or wall-hung with elongated rim at a max. of 17" from the floor. A clear floor space 30" by 48" shall be provided in front of urinal to allow forward approach	Cite 4.18 Same as UFAS
Lavatory (sinks)	(M) (F)	Cite 5.6.3 Lavatories shall have narrow aprons, mounted at a height usable by persons in wheelchairs. Hot water pipes shall be covered	Cite 4.19, 4.27.4 Lavatories shall be mounted with rim or counter surface no higher than 34" above the floor with a clearance of at least 29" above the floor to the bottom of the apron. A clear floor space of 30" by 48" shall be provided in front of lavatory to allow forward approach. Hot water pipes shall be insulated or plastic. Faucets shall comply with 4.27.4-operable with closed fist.	Cite 4.19 Same as UFAS
Mirrors	(M) (F)	Cite 5.6.4 Mounted no higher than 40" above the floor, measured from the bottom of the mirror	Cite 4.19.6 Bottom edge of reflecting surface no higher than 40" above the floor	Cite 4.19.6 Same as UFAS
Stalls	Designated stalls?	Cite 5.6 At least one stall shall be 36" wide and 56"-60" deep	Cite 4.17.3 Stalls shall be 60" wide. Stalls with a minimum depth of 56" shall have wall-	Cite 4.17.3 Same as UFAS

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			mounted water closets (toilets). By increasing the depth to 59", the water closet may be floor mounted. Arrangement of the toilet stall can vary	
Stall Doors	(M) (F)	Cite 5.6 32" wide swings out	Cite 4.17.5, 4.13 32" wide, swings out, with accessible hardware-inside and out-max of 48"	Cite 4.17.5, 4.13 Same as UFAS
Grab bars	(M) (F)	Cite 5.6 On each side, 33" high and parallel to the floor, 1 1/2" in outside diameter, with 1 1/2" clearance between rail and wall	Cite 4.17.6, 4.26 Depending on arrangement of stall, grab bars should be mounted on one side and the back wall, 33"-36" from the floor, and of appropriate length (back min. 36") (side min. 40"). Diameter of 1 1/4" to 1 1/2" mounted 1 1/2" from the wall	Cite 4.17.6, 4.26 Same as UFAS
Toilet Seat (Water Closet)	(M) (F)	Cite 5.6 20" from floor to top of toilet seat	Cite 4.16 17" to 19" from floor to top of toilet seat. Flush controls shall be mounted no more than 44" high . Toilet paper dispensers shall be mounted within reach and at least 19" from the floor to max of 48".	Cite 4.16 Same as UFAS
Controls and dispensers	(M) (F)	Cite 5.6.6 Toilet rooms shall have an appropriate number of towel racks,	Cite 4.22.7, 4.27, 4.2 If controls, dispensers, receptacles, or other equipment is provided, at	Cite 4.22.7, 4.27, 4.2 Same as UFAS

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		towel dispensers and Disposal units mounted no higher than 40" from the floor	least one of each shall be within the ranges specified Forward reach – high 30"; low – 15"; Side reach – high 48"; low 9";	
			Cite 4.30	Cite 4.30
SIGNAGE Signage		Accessible and usable	<p>Width-to-height ratio between 3:5 and 1:1; stroke-width-to-height ratio between 1:5 and 1:10. 3" minimum character height for signage mounted overhead.</p> <p>Letters and numerals to be raised 1/32", upper case, and 5/8" to 2" in height. Grade 2 Braille to accompany raised text. Pictogram field to be at least 6" high.</p> <p>Characters and symbols to contrast with background (70% typical)</p> <p>Signs to be installed on wall adjacent to the latch side of door at 60" AFF to the centerline of the sign. (exit signs can be mounted directly on out-swinging doors.)</p> <p>Accessible elements to be</p>	<p>Width-to-height ratio between 3:5 and 1:1; stroke-width-to-height ratio between 1:5 and 1:10. 3" minimum character height for signage mounted overhead. Letters and numerals to be raised 1/32", upper case, and 5/8" to 2" in height.</p> <p>Grade 2 Braille to accompany raised text.</p> <p>Pictogram field to be at least 6" high.</p> <p>Characters and symbols to contrast with background (70% typical)</p> <p>Signs to be installed on wall adjacent to the latch side of door at 60" AFF to the centerline of the sign. (exit signs can be mounted directly on out-swinging doors.)</p> <p>Accessible elements to be identified with the international symbol of accessibility.</p>

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			identified with the international symbol of accessibility.	
		Cite 5.4	Cite 4.9	Cite 4.9
STAIRS Stairs		No square nosing Handrails at 32" from tread at the face of the riser. Risers should not exceed 7". Handrails should extend 18" beyond the top and the bottom step.		11" minimum wide treads, uniform riser heights and tread widths. 1½" maximum nosing projection, undersides to be sloped with a minimum angle of 60° from the horizontal. Complying handrails both sides. 12" horizontal projection of handrail at top; handrail to continue to slope width of one tread plus have 12" horizontal extension at bottom.
		Cite 5.12	Cite 4.28	Cite 4.28
WARNING SIGNALS Visual alarm	Is it visual	Required	Required in restrooms and	Required; also does the color of

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			all general areas- also does light flash 80" above the highest floor level within the space or 6" below the ceiling whichever is lower.	the light flash clear or nominal white
Audible alarm	Is it audible	Required	Required; also does sound exceed the prevailing sound level in the room Yes _____ No _____	Required Every space must be within 50 feet from visual signal.
			Cite 4.4	Cite 4.4
OTHER Protruding objects		Accessible and usable	Objects projecting from walls (for example, telephones) with their leading edges between 27 in and 80 in (685 mm and 2030 mm) above the finished floor shall protrude no more than 4 in (100 mm) into walks, halls, corridors, passageways, or aisles Protruding objects shall not reduce the clear width of an accessible route or maneuvering space	4" maximum for objects projecting from walls with their leading edge between 27" and 80" AFF.
<u>Head room</u>		Accessible and usable	Cite 4.4.2 Walks, halls, corridors, passageways, aisles, or other circulation spaces shall have 80 in minimum clear head room	Cite 4.4.2 80" minimum for walks and other circulation spaces.

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<u>Carpet</u>		Accessible and usable	Cite 4.5.3 The maximum pile height shall be 1/2 inch	Cite 4.5.3 ½" maximum pile thickness.
<u>Gratings</u>		Accessible and usable	Cite 4.5.4 If gratings are located in walking surfaces, then they shall have spaces no greater than 1/2 in (13 mm) wide in one direction	Cite 4.5.4 ½" maximum wide spaces in one direction.
<u>Curb ramps</u>		Accessible and usable	Cite 4.7 1:12 maximum slope. 1:20 maximum slope for adjacent surfaces. 1:10 maximum slope for flared sides. 36" minimum width.	Cite 4.7 1:12 maximum slope. 1:20 maximum slope for adjacent surfaces. 1:10 maximum slope for flared sides. 36" minimum width.

Table for converting slope Refer to this table if you use a tool which measures slope degrees or percent instead of slope ratios.

slope ratio = degrees = percent

- 1:50 = 1.1 = 2% maximum for accessible parking & cross slopes.
- 1:20 = 2.8 = 5% maximum for sidewalks, walkways.
- 1:12 = 4.7 = 8% maximum for ramps, curb cuts.
- 1:10 = 5.7 = 10% maximum for curb cut flared sides.
- 1:2 = 26.6 = 50% maximum for beveling level changes.