

PORTLAND PUBLIC SCHOOLS ELEMENTARY SCHOOL ADA STANDARDS

March 2013

This summary of standards includes the standards previously published on August 21, 1997 by the design team Hampton/Ritson. Revisions and amendments to those standards shown in bold text reflect the 2010 ADA Accessibility Guidelines changes which became legally enforceable by the US Department of Justice on March 15, 2012. The 2010 ADA requirements were incorporated into the Oregon Structural Specialty Code (OSSC) with minor amendments through the adoption of the ICC/ANSI A117.1-2003 effective March 1, 2012. Sections of A117.1 and 2010 ADA are referenced below. The 2010 ADA did not incorporate every DOJ draft children’s standard previously included in this listing by Hampton/Ritson, but where not otherwise superseded by 2010 ADA technical requirements they were left in the document as a reference for children’s anthropometrics. This summary also lists related ADA “blanket appeals” for children’s dimensions that have been previously approved by the Portland Bureau of Development Services. A table of the approved appeals, as provided by Portland Public Schools, is provided as an appendix for reference.

This table shows:

1. The adult ADA standard for comparison.
2. The acceptable range for fixtures in elementary schools. If an existing fixture is mounted within this range, it does not need to be relocated. Additionally, the Bureau of Development Services will generally accept variations of up to plus or minus one inch to the required ADA standards at existing fixtures, per previous agreement and correspondence.
3. The preferred mounting height or dimensions for new or relocated fixtures.
4. BDS blanket appeal numbers applicable to listed fixture heights.
5. The BDS appeals summary with the City of Portland included a compromise between DOJ draft children’s standards expressed by age range and the K-5 model classroom that spanned DOJ age ranges. Since the previous appeal (B-19) indicated agreement that it was appropriate to apply DOJ 9-12 age range standards to K-5 Elementary facilities where ages range from 5-11, it also appears reasonable to apply the DOJ 9-12 age range now to the K-8 model classroom where ages range from 5-14. Middle Schools with an age range of 11-14 (grades 6-8) and High Schools will still use the adult standards.

Adult Standard Range	Elementary Standard Range	Preferred Standard for New or Relocated Fixtures, Grab Bars, etc.	Approved Blanket Appeal
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(308.1, 308.2)
Forward Reach

max height above floor	48	40 to 44	40 K-5 and K-8
min height above floor	15	16 to 18	18 K-5 and K-8

(308.3)
Side Reach

max height above floor	48	40 to 44	40 K-5 and K-8
min height above floor	15	16 to 18	18 K-5 and K-8

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(505.4, 505.7)

Handrails

top rail above ramp/stair	34 to 38	34 to 38	36	
bottom rail above ramp/stair	NA	20 to 28	27	K-5 and K-8
circular rail diameter	1.25 to 2	1 to 1.25	1.25	K-5 and K-8
preferred diameter	1.5		1.5	6-8

(604.8, 604.9, 604.10)

Toilet stalls

clear width	60	60	60	B-9
clear depth (wall-floor mtd)	56-59	59	59	
toe clearance height	9	12	12	K-5 and K-8
toe clearance depth	6	6	6	

(604.1, 604.2, 604.9, 604.10)

Water closet clear space

centerline to near wall (accessible)	16 to 18	12 to 15 5-8yrs 15 to 18 9-12yrs	16 K-5 and K-8 18 6-8	B-19 #1
centerline to near wall (ambulatory, 6 or more stalls)	17 to 19	17 to 19	18	

(604.4, 604.9, 604.10)

Water closet seat height

17 to 19	12 to 15 5-8yrs 15 to 17 9-12yrs	16 K-5 and K-8 17 to 19 6-8
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(604.5, 604.9, 604.10, 609)

Grab bars

height	33 to 36	20 to 25 5-8yrs 25 to 27 9-12yrs	25 to 27 K-5 and K-8 27 to 29 (at obstructions) 33 to 36 6-8	B-3 #1
rail diameter	1.25 to 1.5	1 to 1.25	1.25	K-5 and K-8
preferred diameter	1.5		1.5	6-8

(604.7, 604.9, 604.10)

Toilet paper dispensers

height to paper outlet	15 to 48	14 to 17 5-8yrs 17 to 19 9-12yrs	17	K-5 and K-8
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centerline from front of wc	7 to 9	7 to 9	7 to 9	
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	Adult Standard Range	Elementary Standard Range	Preferred Standard for New or Relocated Fixtures, Grab Bars, etc.	Approved Blanket Appeal
(605.4, 308.1, 309, 1008.4.2)				
<u>Urinal flush controls</u>	48	44	40	
(606, 305, 306, 308, 309, 1008.4.2)				
<u>Lavatory height and clearances</u>				
min knee clearance height	27	24 (within 11")	24 K-5 and K-8	B-2
min knee clearance depth	8	8	8 K-5 and K-8	
min knee clearance width	30	30	30 K-5 and K-8	
min height of apron bottom	27	27	27 K-5 and K-8	
max height of rim/counter	34	30	30 K-5 and K-8	
(603.3)				
<u>Mirrors</u>				
max to bottom of mirror above lavatory	40	36 (6" above rim)	34 K-5 and K-8	
unobstructed	35	35	34 K-5 and K-8	
(608.4, 610.3, 604.9, 604.10)				
<u>Shower, transfer seat height</u>	17 to 19	12-15 5-8yrs 15-17 9-12yrs	16 K-5 and K-8	
(608.3, 609.4, 604.9, 604.10)				
<u>Shower, grab bar height</u>	33 to 36	20 to 25 5-8yrs 25 to 27 9-12yrs	25 to 27 K-5 and K-8	
(608.5.1, 308.1, 1008.4.2)				
<u>Shower, control height</u>	38 to 48	29 to 44	30 to 40 K-5 and K-8	
(602, 305, 306, 1008.4.3)				
<u>Drinking fountains</u>				
max low spout height	36	32 (2" above rim)	30 K-5 and K-8	B-2 sim
standing spout height	38 to 43			
min knee height	27	24	24 K-5 and K-8	B-2 sim
min clear toe space	9	12	12 K-5 and K-8	
min knee clearance width	30	30x48 (parallel)	30	
(811.3, 308, 1008.4.2)				
<u>Storage shelving</u>				
max height above floor	48	40 to 44	40 K-5 and K-8	
min height above floor	15	16 to 18	18 K-5 and K-8	

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(902, 305, 306, 1008.4.3)
Seating, tables and counters

height of tables/counters	28 to 34	26 to 30	30 K-5 and K-8	B-2 sim
max rim height play counter		31	31 K-5 and K-8	
min knee clearance (HxW)	27x30	24x30	24x30 K-5 and K-8	
max knee space depth / clear floor space lap	17-25	17	17	

(904.5, 308, 403.5, 403.5.1)
Food service lines and dispensers

max tray slide height	28 to 34	30	30 K-5 and K-8	B-3
max tableware supply height	46	42 (obstructed)	40 K-5 and K-8	
food service aisle width	36	36	36	

(703.3.10, 703.4.1)
Signage mounting height

underside of top text	60	60	60	
underside of bottom text	48	48	48	

(903, 604.9 604.10)
Benches

seat height	17-19	15 to17	16	
seat depth	20 to 24	20 to24	20	
seat length	42	42	42	
back support min height above seat	18	18	18	

(704, 309)
Pay Telephones

top operable part (coin slot)	48	44	44	
top of counter	34	30	30	
min touch surface of TTY	34	34	34	

(904.3.3, 902.3, 902.4, 902.4.1, 902.4.2, 904.4)
Service Counters

top of counter	28 to 34	26 to 30	30	
width of service counter	36	36	36	

Adult Standard Range	Elementary Standard Range	Preferred Standard for New or Relocated Fixtures, Grab Bars, etc.	Approved Blanket Appeal
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(404.3.5, 309, 308)

Automatic Door Operator & Remote Intercom

center of operable control	15 to 48	16 to 44	42
center from hinge min	24 + door	24 + door	26 + door
center from latch min	9	9	12