

**Print Version** - legal size sheets (8½ x 14)

# Multi-Family Reference Matrix Dwelling Unit Bathrooms

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This reference lists the different items typically found in dwelling unit bathrooms or required by bathroom design for mobility, accessible, adaptable or usable bathrooms. The matrix compares, on an element-by-element basis, requirements for the 2010 ADA Standards, UFAS, FHA Design Manual, 2013 CBC-11B, 2013 CBC-11A, and 2010 CBC-11A along with the sourcing for each. By knowing which regulations pertain to your project, this matrix allows you to quickly compare and ascertain which are the controlling requirements and features per each item.

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MULTI-FAMILY RESIDENTIAL - DWELLING UNIT BATHROOMS			* Underline notates advisory, not required						© Janis Kent, AIA, CASp January 2015			
2010 ADAS (non-HUD) - Title II Public (HUD Temporary Adoption May 23, 2014)		HUD Section 504 - UFAS can use 2010 ADAS with 11 exceptions (might affect bathroom alterations)		FHA Design Manual - Aug 1996, Rev April 1998		2013 CBC 11B - Public		CBC 2013 CBC 11A - Privately Funded		CBC 2010 11A- Privately Funded		
ITEM	DESCRIPTION	SOURCE	DESCRIPTION	SOURCE	DESCRIPTION <i>Italics notates not required - advisory</i>	SOURCE	DESCRIPTION <i>Italics notates deviation from ADAS</i>	SOURCE	DESCRIPTION <i>Section 11A does not adopt the 2012 IBC</i>	SOURCE	DESCRIPTION	SOURCE
FAUCET, CONTROLS & OPERATION	<b>607.5 Controls.</b> Controls, other than drain stoppers, shall be located on an end wall. Controls shall be between the bathtub rim and grab bar, and between the open side of the bathtub and the centerline of the width of the bathtub. Controls shall comply with 309.4.  <b>309.4 Operation.</b> Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.	607.5 309.4	<b>4.34.5.4 BATHTUBS.</b> If a bathtub is provided, then it shall have the following features:.... <b>(4) Controls.</b> Faucets and other controls shall be located as shown in Fig. 34 and shall comply with 4.27.4. <i>Fig 34 - Faucet and controls are located on the control (foot) wall on the open side and below the grab bar</i>  <b>4.27.4 OPERATION.</b> Controls and operating mechanisms shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls shall be no greater than 5 lbf (22.2 N).	4.34.5.4 (4) Figure 34(a) 4.27.4	The Guidelines contain no requirements for location or type of controls except in Specification B bathrooms, the controls must be located at the foot of the tub.  <i>When bathtub controls are offset toward the outside of the bathing fixture, the need to bend and stretch to reach the controls from outside the fixture is greatly reduced - a help for any user with limited flexibility</i>	7.39 7.61	<b>11B-607.5 Controls.</b> Controls, other than drain stoppers, shall be located on an end wall. Controls shall be between the bathtub rim and grab bar, and between the open side of the bathtub and the centerline of the width of the bathtub. Controls shall comply with Section 11B-309.4.  <b>11B-309.4 Operation.</b> Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.	11B-607.5 11B-309.4	<b>1134A.5 Bathtubs. ...</b> <b>3. Bathtub controls.</b> Faucet controls and operation mechanisms shall be operable with one hand and shall not require light grasping, pinching or twisting of the wrist.  The force required to activate controls shall be no greater than 5 pounds (22.2N). Lever operated, push type and electronically controlled mechanisms are examples of acceptable designs.	1134A.5.3	<b>1134A.5 Bathtubs....</b> <b>3. Bathtub controls.</b> Faucet controls and operation mechanisms shall be operable with one hand and shall not require light grasping, pinching or twisting of the wrist.  The force required to activate controls shall be no greater than 5 pound-force (22.2 N). Lever operated, push type and electronically controlled mechanisms are examples of acceptable designs.	1134A.5.3
TUB SHOWER SPRAY UNIT	<b>607.6 Shower Spray Unit and Water.</b> A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Bathtub shower spray units shall deliver water that is 120°F (49°C) maximum.  <b>Advisory 607.6 Shower Spray Unit and Water.</b> Ensure that hand-held shower spray units are capable of delivering water pressure substantially equivalent to fixed shower heads.	607.6	<b>4.34.5.4 BATHTUBS.</b> If a bathtub is provided, then it shall have the following features:.... <b>(5) Shower unit.</b> A shower spray unit with a hose at least 60 in (1525 mm) long that can be used as a fixed shower head or as a hand-held shower shall be provided.	4.34.5.4 (5)			<b>11B-607.6 Shower spray unit and water.</b> A shower spray unit with a hose 59 inches (1499 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Bathtub shower spray units shall deliver water that is 120°F (49°C) maximum.  <b>Advisory 11B-607.6 Shower spray unit and water.</b> Ensure that hand-held shower spray units are capable of delivering water pressure substantially equivalent to fixed shower heads.	11B-607.6	<b>1134A.5 Bathtubs. ...</b> <b>4. Shower unit.</b> A shower spray unit is not required in bathtubs.	1134A.5.4	<b>1134A.5 Bathtubs....</b> <b>4. Shower unit.</b> A shower spray unit is not required in bathtubs.	1134A.5.4
WATER TEMPERATURE AT SHOWER SPRAY UNITS	<b>607.6 Shower Spray Unit and Water.</b> ...Bathtub shower spray units shall deliver water that is 120°F (49°C) maximum.	607.6	—				<b>11B-607.6 Shower spray unit and water. ...</b> Bathtub shower spray units shall deliver water that is 120°F (49°C) maximum.	11B-607.6				
TUB ENCLOSURE	<b>607.7 Bathtub Enclosures.</b> Enclosures for bathtubs shall not obstruct controls, faucets, shower and spray units or obstruct transfer from wheelchairs onto bathtub seats or into bathtubs. Enclosures on bathtubs shall not have tracks installed on the rim of the open face of the bathtub.	607.7	<b>4.34.5.6 BATHTUB AND SHOWER ENCLOSURES.</b> Enclosures for bathtubs or shower stalls shall not obstruct controls or transfer from wheelchairs onto shower or bathtub seats. Enclosures on bathtubs shall not have tracks mounted on their rims.	4.34.5.6			<b>11B-607.7 Bathtub enclosures.</b> Enclosures for bathtubs shall not obstruct controls, faucets, shower and spray units or obstruct transfer from wheelchairs onto bathtub seats or into bathtubs. Enclosures on bathtubs shall not have tracks installed on the rim of the open face of the bathtub.	11B-607.7	<b>1134A.5 Bathtubs. ...</b> <b>5. Bathtub enclosures.</b> Doors and panels of bathtub enclosures shall be substantially constructed from approved, shatter-resistant materials. Hinged doors shall open outward. Glazing used in doors and panels of bathtub enclosures shall be fully tempered, laminated safety glass or approved plastic. When glass is used, it shall have minimum thickness of not less than 1/8 inch (3.17 mm) when fully tempered, or 1/4 inch (6.35 mm) when laminated, and shall pass the test requirements of this part, Chapter 24 Glass and Glazing. Plastics used in doors and panels of bathtub enclosures shall be of a shatter-resistant type.	1134A.5.5	<b>1134A.5 Bathtubs....</b> <b>5. Bathtub enclosures.</b> Doors and panels of bathtub enclosures shall be substantially constructed from approved, shatter-resistant materials. Hinged doors shall open outward. Glazing used in doors and panels of bathtub enclosures shall be fully tempered, laminated safety glass or approved plastic. When glass is used, it shall have minimum thickness of not less than 1/8 inch (3.17 mm) when fully tempered, or 1/4 inch (6.35 mm) when laminated, and shall pass the test requirements of this part, Chapter 24. Glass and Glazing. Plastics used in doors and panels of bathtub enclosures shall be of a shatter-resistant type.	1134A.5.5
SHOWERS												
GENERAL	<b>608 Shower Compartments</b> <b>608.1 General.</b> Shower compartments shall comply with 608.	608.1	<b>4.34.5.5 SHOWERS.</b> If a shower is provided, it shall have the following features:	4.34.5.5	<b>CLEAR FLOOR SPACE AT SHOWERS</b> Shower stalls in covered dwelling units may be of any size or configuration and are not limited to the 36-inch x 36-inch stall shown in the diagram... An exception regarding minimum stall size is made when a shower stall is the only bathing fixture in the covered dwelling unit; this is discussed on page 7.58.  In Specification A bathrooms, where all fixtures must meet the Guidelines, if the room is equipped with both a bathtub and a separate shower, both fixtures must be provided with the required clear floor space.  In Specification B bathrooms, only one bathing fixture must be provided with the required clear floor space.	7.56	<b>11B-608 Shower compartments</b> <b>11B-608.1 General.</b> Shower compartments shall comply with Section 11B-608.	11B-608	<b>1134A.6 Showers.</b> Showers required to be accessible shall comply with this section. ...	1134A.6	<b>1134A.6 Showers.</b> Showers required to be accessible shall comply with this section.	1134A.6