

### Kitchens - Type A Units

This Tip Sheet reflects code requirements of the 2021 International Building Code (IBC) and International Code Council A117.1-2017 with Washington State Amendments.

### **Sample Kitchen Layout**

This is a sample of a pass-through kitchen layout for a residential Type A unit. Compliance with the following code provisions shall be documented on plans submitted for permit.

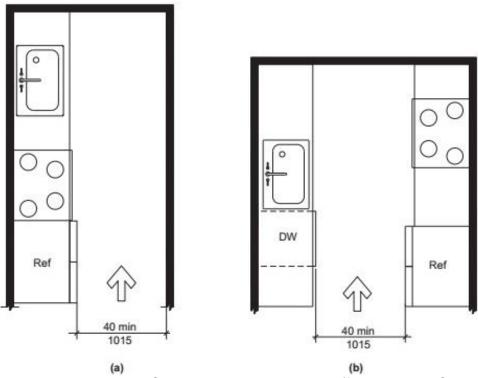


Figure 1: Minimum Kitchen Clearance in Type A Units (from A117.1 Commentary)

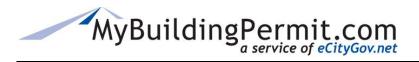
#### **Clearances**

- ☐ The **clearance** between all opposing base cabinets, countertops, appliances, or walls within kitchen work areas shall be:
  - o 40 inches minimum for pass-through kitchens. (A117.1 1103.12.1.1)
  - 60 inches minimum for U-shaped kitchens. (A117.1 1103.12.1.2) Exception: The clearance may be reduced to 40 inches when there is an island, and it complies with A117.1 1104.12.1.1.

These measurements do not include cabinet/appliance handles.

## **Clear Floor Space**

☐ The clear floor space shall be **30** inches by **52** inches. (A117.1 305.3, A117.1 1103.12.2)

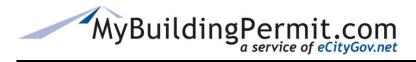


# **Work Surface**

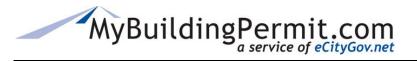
	At least <b>one</b> section of counter shall provide an accessible work surface <b>30 inches minimum</b> in length (or <b>36 inches minimum</b> when using a T-shaped turning space). (A117.1 1103.12.3) Exception: Spaces that do not provide a cooktop or conventional ranges shall not be required to be an accessible work surface.
	The clear floor space shall be positioned for a <b>forward</b> approach to the work surface. See applicable exceptions. (A117.1 1103.12.3.1)
	The work surface shall be <b>34 inches</b> maximum above the floor. See applicable exceptions. There shall be no sharp or abrasive surfaces under the exposed portions of the work surface counter. (A117.1 1103.12.3.2, A117.1 1103.12.3.3)
Sinks	
	A <b>clear floor space</b> shall be positioned for a <b>forward</b> approach to the sink. (A117.1 1103.12.4.1) Exception: A clear floor space may be positioned for a <b>parallel</b> approach when it complies with requirements under A117.1 1103.12.4.1, Exception 3; the clear floor space shall be centered on the sinks and at a kitchen sink in a space where a cook top or conventional range is not provided.
	<b>Height</b> . The front of the sink shall be <b>34 inches maximum</b> above the floor, measured to the higher of the rim or counter surface. See applicable exception. (A117.1 1103.12.4.2)
	<b>Faucets</b> shall comply with operable parts requirements per A117.1 309 and <b>water supply and drainpipes</b> under the sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under sinks. (A117.1 1103.12.4.3, A117.1 1103.12.4.4.)
Appliances	
	A clear floor space, positioned for a <b>parallel</b> or <b>forward</b> approach, shall be provided at <b>every</b> kitchen appliance. (A117.1 1103.12.5.2)
	The <b>dishwasher</b> door in the open position shall <b>not obstruct</b> the clear floor space for the dishwasher or an adjacent sink. (A117.1 1103.12.5.3)
	For <b>cooktops</b> with a <b>forward</b> approach, knee and toe clearance per A117.1 306 shall be provided. The underside of the cooktop shall be insulated or otherwise configured to protect from burns, abrasions, or electrical shock. When a <b>parallel</b> approach is used, the clear floor space shall be centered on the appliance. (A117.1 1103.12.5.4.2)
	The <b>oven</b> door in the open position shall <b>not obstruct</b> the clear floor space for the oven. (A117.1 1103.12.5.5.1)







<b>Side-hinged door ovens</b> shall have a countertop positioned adjacent to the latch side of the oven door. <b>Bottom-hinged door ovens</b> shall have a countertop positioned adjacent to one side of the door. (A117.1 1103.12.5.5.2, A117.1 1103.12.5.5.3)	
<b>Combination refrigerators and freezers</b> shall have at least <b>50 percent</b> of the freezer compartment shelves, including the bottom of the freezer <b>54 inches</b> maximum above the floor when the shelves are installed at the maximum heights possible. The centerline of the clear floor space shall be offset <b>24 inches</b> maximum from the centerline of the appliance. (A117.1 1103.12.5.6)	
Appliance Controls	
All appliance controls shall comply with operable parts requirements per A117.1 309 (A117.1 1103.12.5.1, A117.1 1103.9)	
For <b>cooktops</b> and <b>ovens</b> , the location of controls shall not require reaching across burners. (A117.1 1103.12.5.4.4, A117.1 1103.12.5.5.4)	
All <b>appliance controls</b> must be within the typical reach range of <b>15 inches</b> minimum to <b>48 inches</b> maximum measured from the finished floor. (A117.1 308)	
Operable Parts	
In a kitchen where <b>two or more</b> receptacle outlets are provided above a length of countertop that is <b>uninterrupted</b> by a sink or appliance, <b>only one</b> receptacle outlet shall be required to comply. (A117.1 309.1, Exception 2)	
In a kitchen where a clear floor space for a parallel approach cannot be located at a countertop in a <b>corner between appliances</b> , receptacle outlets over the countertop shall <b>not be required to comply</b> provided that the countertop does not exceed <b>9 square feet</b> . (A117.1 309.1, Exception 3)	
Operable parts shall be placed within one or more of the reach ranges specified in A117.1 308. (A117.1 309.3)	
Operable parts shall be operable with one hand and shall <b>not require</b> tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be <b>5 pounds</b> maximum. (IA117.1 309.4)	



#### **Knee and Toe Clearances**

Knee and toe clearances are often a "package deal." Provisions for minimums and maximums for both knee and toe clearances must be addressed when looking for adequate clearance under a plumbing fixture or a kitchen appliance. Refer to the figures that follow for basic requirements.

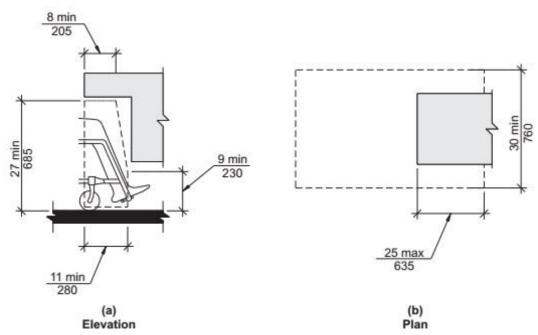


Figure 2: Knee Clearance (from A117.1-2017 Commentary)

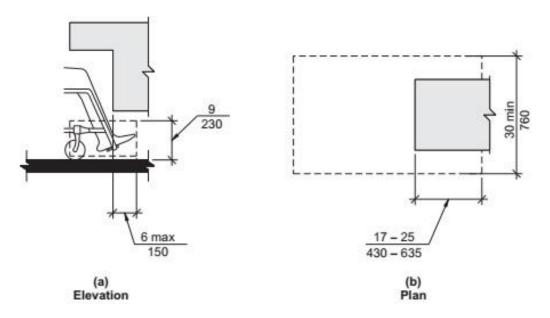


Figure 2: Knee Clearance (from A117.1-2017 Commentary)