

Appendix F Blocking and Hardware Installation

Blocking for Grab Bars should be installed around the tub and toilets. The blocking should be 2x10, long enough for a 24" grab bar, and installed with the centerline at 36" from the floor.

Blocking for Entry Handrails: a handrail is required wherever there are more than two steps up. The handrail must be installed with the top of the rail 36" above the front edge of each step. Blocking should be installed to support this handrail.

Blocking for Attic Access: The attic access must be a minimum of 22 ½" x 30". 2x6 (or larger) blocking should be installed between two trusses to frame the attic access. It may also be appropriate to build up the height of the trusses (so that the attic access doesn't fill with blown insulation).

Blocking for Kitchen Cabinets:

		Bottom of stud to Top of 2x4	Subfloor to Top of 2x4	Top of Cap Plate to Top of 2x4
	Top row	83 ½"	85"	12 1/8"
Middle row	55 ½"	57"	40 1/8"	
Bottom row	33 12"	35"	62 1/8"	

(Note: each column in this table represents a different measurement reference (Bottom of Stud, Subfloor, or Ceiling); use whichever column is easiest for your application.)

Blocking for Closet Shelves:

Location	Distance between shelves:	Top of 1x4 or 1x2 at:	Center support
Bedroom Closet	1 shelf at 64" from floor	Top of 1x4 at 64"	Yes - 1-2
Coat Closet	1 shelf at 64" from floor	Top of 1x4 at 64"	Yes - 1-2
Above Laundry	1 shelf at 64" from floor	Top of 1x4 at 64"	Yes - two
Pantry	1 st shelf at 24" from floor 2 nd shelf up 16" from 1st 3 rd , 4 th , & 5 th shelves up 12" ea	To of 1x2 at 24", 40", 52", 64", & 76"	No
Linen Closet	1 st shelf at 24" from floor 2 nd , 3 rd , & 4 th shelves up 16" ea	Top of 1x2 at 24", 40", 56", & 72"	No

Appendix F (continued)

Blocking and Installation for Bathroom Hardware:

Vanity	Vanity is 30" W x 30" H x 18 ½" D (not incl. top/sink and backsplash). Refer to the plans for vanity placement. The vanity can be screwed into a stud.
Medicine cabinet	Medicine cabinet is 16" W x 20"H x approx. 5" D overall, but the box is only 15" W x 19" H Install the medicine cabinet centered above the vanity, approx. 20" from the surface of the vanity to the bottom of the medicine cabinet. (Another way to think of it is that the top of the medicine cabinet will be approx. 67" above the subfloor.) The actual height of the medicine cabinet can be adjusted based on input from the partner family. If there is a stud near the center of the vanity the medicine cabinet can be installed on the stud, or add blocking as needed.
Towel bars 18" or 24"	One towel bar should be installed centered above the toilet, 56" from the floor. Add blocking as needed. The second towel bar, if there is space available, is often installed under the window, approx. 41" from the floor, or it can be installed on another available wall, at 44-48" from the floor. (Note: A towel bar is not required for a half bath.)
Towel ring	The towel ring is typically installed alongside the sink, handy for a hand towel, 56-60" from the floor. Install on a convenient stud or add blocking as needed. Consider where the electric boxes are when placing the towel ring.
Robe hook	NOT on the back of the door! Install on a wall adjacent to the shower, at 64" from the floor.
Toilet Paper Holder	The toilet paper holder is 8 ½" wide and should be installed approx. 24" from the floor. Can be installed on the side of the vanity or on a wall – add blocking if needed.
Toothbrush holder & Soap dish	These holders will be installed above/behind the sink, approx. 44" from the floor to the top of the fixture. Add blocking so that one fixture can be installed on each side of the sink.
Grab Bars	2x10 blocking, centered at 36" from the floor, is required surrounding the toilet and tub in order to meet Universal Design guidelines, (Note - even if grab bars aren't planned, this blocking is required.)