# Upper & Wall Hanging Base Cabinets

## Tools Required

- Pencil
- Tape Measure
- Level (4 feet or greater) or Laser Level
- Variable Speed Drill With Torque Options
- Drill Bit Set
- Screw Bit Set

## Installation

***NOTE:*** Kimball International *defines a structural wall as a load-bearing wall constructed of materials such as: poured concrete, concrete, concrete block, or stud. Wood studs must be a nominal 2" x 4" size minimum. Metal studs must b "C" channel, 20-gauge thick minimum. Metal or wood studs must be on centers no greater than 24" and have maximum height of 14' restrained at floor and ceiling. Interior walls shall be designed to resist not less than a force of 5 lbs. per square foot applied perpendic-ular to wall. The deflection of such wall under a load of 5 lbs. per square foot shall not exceed 1/240 of the span for walls with brittle finishes, and 1/120 of the span for wall with flexible fin-ished (per Uniform Building Code Section 2309b). If you have any questions concerning your load –bearing structure please consult your architect or structural engineer.*

1. Measure from the top of the cabinet to the bottom edge of the Z-brackets that will be placed on the wall. **(Figure A).**

2. Place wall hanging cabinet against structural wall in the desired location. Mark the top edge of the cabinet and set it aside. Measure down from the top edge mark, the distance of Figure A, and draw level lines. **(Figure B).**

3. Locate and mark the wall substructure along the lines. Hold the Z-Brackets on the wall with the bottom lining up with the line from step 2 and centered in the desired location of the panel. Mark the substructure locations on the Z-brackets. Fasteners should tie directly into the substructure of the wall (studs blocks, solid masonry). If only 1 stud is available where the cabinet will mount, toggle anchors must be used. **(Figure C)**.

4. Recommended spacing of fasteners is 16", smaller cabinets will require less than 16" but will require 2 fasteners. DO NOT extend the Z-Bracket more than 6" beyond the last anchor attachment.

5. Drill appropriate diameter hole in the Z-Bracket per the fastener manufacturer's guidelines, 3/8" above the bottom edge of the rail at the locations marked in Step 3. **(Figure D).** ***Note:*** *Hole sizes are dependent on the size of the fastener selected.*

Figure A

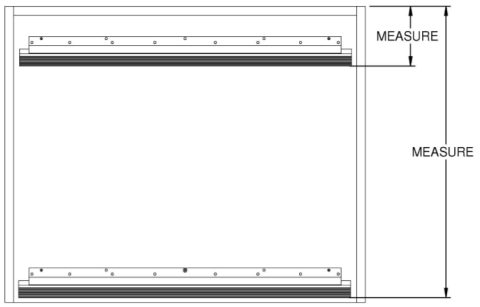



Figure B

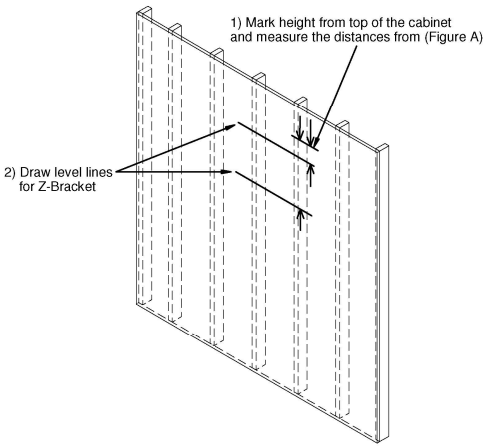



Figure C

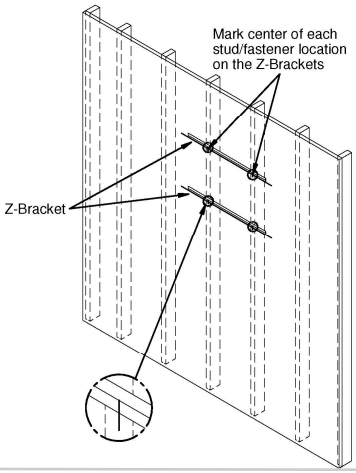
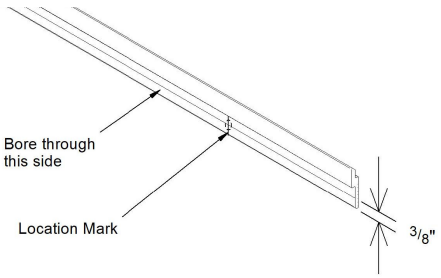



Figure D



## Installation

7. Hold the Z-Brackets on the wall with the bottom lining up with the line from step 2 and the location marks lining up from step 3. If screwing the Z-Bracket to studs, Attach to wall using the holes in the Z-bracket from step 5. If attaching with toggle anchor, mark the wall using the holes from step 5. Install toggle anchors at the hole marking locations then attach the Z-Bracket to the anchors. **(Figure E).** Ensure the Z-Brackets are securely attached to the wall.

8. Place cabinet flush against the wall so that the Z-Brackets attached to the cabinet are above the Z-Brackets attached to the wall and is between the end panels of the cabinet. Carefully lower the cabinet until the Z-Brackets engage. Make sure the Z-Brackets are firmly seated together. **(Figure F).**

   ***Note:*** *It is the responsibility of the installer and/or the contractor to select and install the proper fasteners in the struc-tural wall.* Kimball International *does not furnish fasteners or assume liability for their use.*

| Recommended Fastener | Size | Model No. |
|---|---|---|
| Steel Stud (for 1/2" to 3/4" drywall):<br>Snaptoggle® BA™<br>3/16" toggle bolts | 3/16 toggle<br>10-24 x 2 1/2" | 24013 |
| Wood stud (for 1/4" to 1/2" drywall; meets of exceeds ANSI/ASME B18.6.4 and SAE J933)<br>Panhead sheet metal screw | | 10-2 PHPMS |
| Solid Masonry:<br>Crown Bolt lag shields<br><br>Buildex Tapcon concrete anchor screw | 1/4" x 1 1/2"<br><br>1/4" x 2 3/4" | |
| Masonry Block:<br>Snaptoggle® BA™<br>3/16" toggle bolts<br><br><br><br>Crown Bolt Lag shields<br><br>Buildex Tapcon concrete anchor screw | 3/16 toggle<br>10-24 x 2 1/2"<br><br><br><br>1/4" x 1 1/2"<br><br>1/4" x 2 3/4" | 24013 |

Figure E

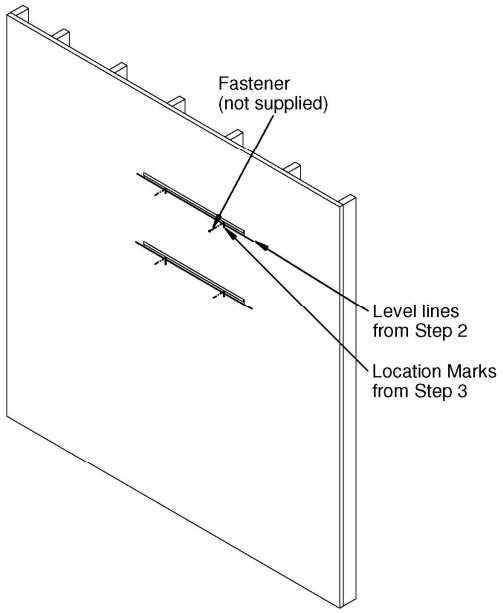



Figure F

