

# VB230

Second Story Volleyball Socket Form



Customer Service  
(800) 247-7668

**Application:**

**Floating floor socket installation on floating floor with lower levels or crawl space below concrete or wooden subfloors.**

**Notice:**

**While more difficult to install, it is possible to use floor sockets on upper level gym floors. Unless you are experienced in this technique it is wise to consult a professional installer. There are many variables that need to be considered so the instructions below should only be used as a general guideline.**

**Caution:**

**Proper net tensioning transfers up to 10,000 pounds of force to the socket and its housing so it is imperative to use anchors that will withstand this load. If your gym floor, subfloor or other variables differ from those described, installer will need to adjust the installation procedure to suit the actual conditions. Installer and owner bear full responsibility for proper installation.**

**PARTS LIST**

Item	Qty	Description	Item	Qty	Description
A	1	VB230 Concrete Form	C	1	Floor Socket
B	1	Floor Plate			

- ◆ Inspect all contents prior to installation. Report any missing parts to dealer immediately.
- ◆ Read all instructions before proceeding.

1. Once desired location of sockets in the gym is determined you will need to determine the type of subfloor, the location and orientation of all support structure, whether flooring supports are steel, wood or pre-stressed concrete and whether it is possible to feasibly access the area directly below the desired socket locations. Sometimes it is necessary to drill a small hole on the desired centerline of the socket through the wood floor, concrete and support structure to determine location below. If this location is not used the hole in the floor needs to be filled.
2. If it is determined that the locations of the *Floor Sockets* (C) selected will allow for installation of a *VB230 Concrete Form* (A) below the floor, use the *Floor Plate* (B) and pencil to draw a circle on the finished floor at each *Floor Socket* (C) location.
3. Measure the distance from the top of the floor to the subfloor surface below. If the distance is greater than 3" you will not be able to use *VB230 Concrete Form* (A) without field modifications.
4. Cut a hole through the wood floor that is 2" **SMALLER** in diameter than the circle drawn from instruction #2. This should be approximately 6" in diameter. **CAUTION:** If you cut the hole on the larger pencil circle it will not be possible to install the *Floor Plate* (B) properly. You may need to rout relief in the wood to accommodate *Floor Socket* (C) installation. See Figure 1.

5. Drill or break out a 6" diameter hole through the subfloor. Use of a rotary hammer drill and chisel or core drill on concrete subfloors is recommended. If using a wet core drill, all water must be immediately removed to avoid floor damage. See Figure 1.
6. Route an accurate recess on the wood floor that allows flush and clean installation of the *Floor Plate (B)*. **MAKE SURE TO FOLLOW THE INSTALLATION INSTRUCTIONS PROVIDED WITH THE FLOOR PLATE.** This recess will be approximately 3/8" deep. Take caution in this step to avoid a sloppy, oversized or over depth recess. Optional Bison VB23IK installation templates will help in this process. See Figure 1.
7. Follow the instructions provided with the *Floor Plate (B)* and *Floor Socket (C)* to assemble the *Floor Plate (B)* to the *Floor Socket (C)*.
8. Install duct tape over the top of the *Floor Socket (C)* to avoid grout entering the *Floor Socket (C)* during installation.
9. Set the *Floor Socket (C)* and *Floor Plate (B)* assembly into the prepared hole to insure that both the *Floor Socket (C)* and the *Floor Plate (B)* fit neatly. Rework openings if necessary.
10. With the *Floor Socket (C)* assembly properly sitting in the hole, inspect the installation area from the lower level or crawl space.
11. Install *VB230 Concrete Form (A)* to the underside of the floor with the grout retainer centered on the *Floor Socket (C)* assembly. Make sure to use the proper sized anchors or attachment hardware. See Figure 1.
12. Fill the hole and *VB230 Concrete Form (A)* with premixed, non-shrink grout to within approximately 4" of the playing surface. Using a pole, vibrate the grout to allow settling.
13. Install socket assembly into the grout filled retainer. You will need to work the assembly into the hole to allow the grout to surround the *Floor Socket (C)*. If grout does not flow to the top of the hole in the original sub-floor remove assembly and add more grout.
14. Carefully follow the instructions included with *Floor Plate (B)* to attach *Floor Plate (B)* to the floating wood floor to eliminate *Floor Socket (C)* floating when the grout is curing.
15. After grout is set remove all hardware connecting the *Floor Plate (B)* to the wood floor and *Floor Socket (C)*. Re-install *Floor Plate (B)* to the wood floor with hardware provided. This allows the *Floor Plate (B)* to move independent of the *Floor Socket (C)* when humidity changes in the gym.

**Caution:**

**Do not allow use of floor sockets for 10 days as permanent structural damage to the socket installation may occur when using regular grout. If using a quick set product, follow instructions provided with that product**

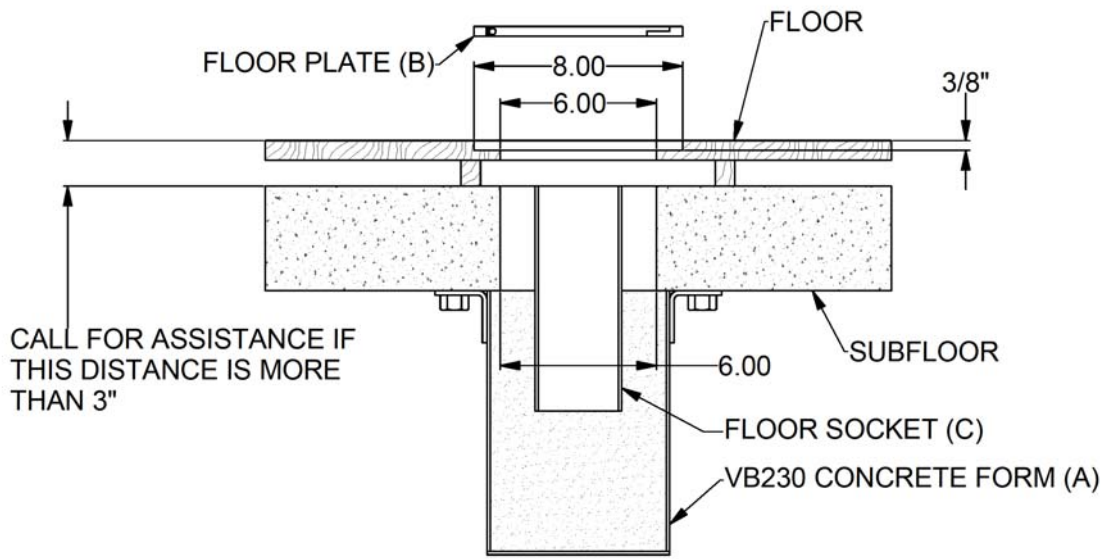


FIGURE 1