



WHY BARRICADE™ SUBFLOOR AIR PLUS?

Insulation

- R-value 1.7: Your floors will feel up to 3.2°C or 6°F warmer!
- Insulation means energy savings and rebates.
- Reduces condensation and insulates your basement.
- IIC 47 / STC 56 - reduces sound transmission.
- 4000 lbs/sq ft compression strength will hold your piano or pool table.

High Density Plastic Bottom

- Panels have been designed with air gap technology to create positive air flow, ensuring a warm and dry basement for your family to enjoy.

Finished Flooring Options

- Top surface is ready for your finished floor - think engineered hardwood, laminate, carpet, vinyl or ceramic tile.

Tongue & Groove Design

- Makes for fast and easy installation.
- No gluing or taping required.

How Many Barricade™ Air Plus Panels and Leveling Kits do I need?

Use this simple formula to estimate the number of panels and leveling kits required for your project.

$$\text{ROOM SQ.FT.} / 3.3 = \text{PANELS REQUIRED}$$

Typically one leveling kit is used for every 60 panels.

Room Size	AREA (SQ. FT.)	# PANELS REQ.	KITS REQ.
10' X 10'	100	31	1
14' X 16'	224	68	2
16' X 20'	320	97	2
20' X 24'	480	146	3



25 YEARS OF SOLID PROTECTION

A comfortable Subfloor that also provides peace of mind for many years to come.

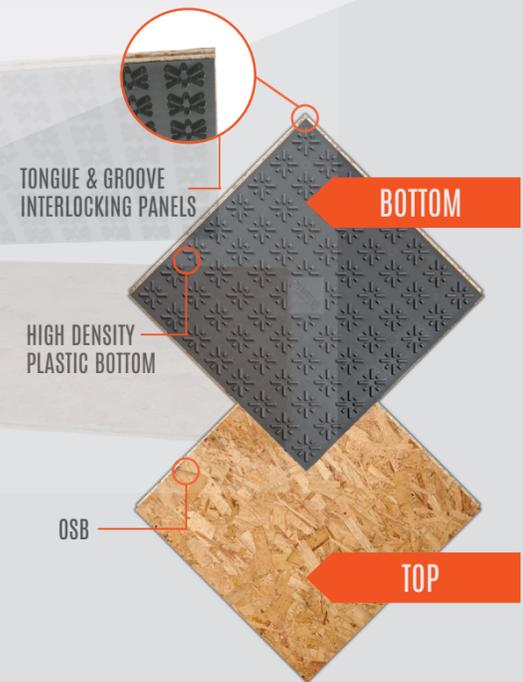
For complete warranty details visit

www.barricadesubfloor.com



YOUR DEFENCE AGAINST COLD, HARD CONCRETE FLOORS

There's no easier way to increase living space in your current home than by developing your basement, and starting with the right foundation is essential to a successful basement project.



Surface Area: 23.5" X 23.5" - 3.84 sq ft | Thickness: 7/8"
Weight: 7.5 lbs | R-value: 1.7

☎ 1-855-872-3996

A Simple Solution to Protect
& Insulate Your Basement

INSTALLATION TOOLS AND HARDWARE REQUIRED

Tape Measure, Pencil, 24-in Carpenter's Square, Long Level, 7-1/4-in Circular Saw or a General-Purpose Crosscut Hand Saw, Pry Bar, 1/4-in x 3-1/2-in Tapcon Concrete Screws, Hammer, Electric Drill, and Electric Jigsaw or Keyhole Hand Saw.

1. If your basement is unfinished, install the Barricade™ Subfloor Tile (BSFT) system first before constructing the perimeter insulated foundation wall or interior wall framing. All insulated foundation walls and interior wall framing, with the exception of load-bearing walls, can be installed on top of the BSFT.
2. If the perimeter foundation walls are already framed and insulated or already framed, insulated, and drywalled, install the BSFT up to the perimeter insulated foundation walls. However, all interior wall framing, with the exception of load-bearing walls, can be installed on top of the BSFT. For additional structure and rigidity, concrete screws, such as blue Tapcon screws, should be installed through the framing and BSFT through to the concrete floor. Note: It is essential that before the installation of BSFT you fix any foundation water leak problem that you know about.

3. First, make sure you have enough BSFT to complete the installation. To determine the number of BSFT required, multiply the room length by the room width, and then divide by 3.3.

4. Bring the BSFT into the basement installation space and leave there for 48 hours, enough time to allow the oriented strand board component of the BSFT to acclimatize to the relative humidity of the basement. This is particularly important in summertime when humidity levels in the basement tend to be higher than normal. Note: As a best practice it is recommended to maintain basement humidity at a level of approximately 30% for comfort. The best way to achieve this and encourage air change in the basement is with a stand-alone basement humidifier.



5. Now is a good time to inspect the concrete floor, looking for cracks, holes, or obvious floor problems that need to be fixed. Using an epoxy joint compound, fill cracks and holes. Remove excess material on the floor using the floor scraper or pry bar floor installation tool. Sweep all dust and debris up so that the floor is clean and ready for the installation.



6. Now that the BSFT have equalized to the relative humidity of the basement, you are ready to begin the installation. Pick the farthest corner of the room away from the entrance to the room as the starting corner. Install the first BSFT with the tile tongue against the wall with the plastic side on the concrete floor.

7. Using 1/4-in plywood strips or any similar scrap wood, install temporary 1/4-in spacers in the center of the BSFT against the wall. This gap allows the finished floating BSFT subfloor to expand and contract slightly with seasonal changes in humidity.

8. Loosely place the BSFT on the floor for the first row. Using a 2-in x 4-in block of wood, install the tongue and groove joints together using gentle tapping motions with the rubber mallet.

9. If there is a BSFT that rocks lightly, it is not level and should be shimmed. Use a BSFT leveling kit to adjust for uneven areas on your concrete floor that are less than 1/4-in.

10. When you come to the end of the first row of BSFT, you will likely have to cut a BSFT to fit the space. Measure the tile space allowing a 1/4-in gap against the wall. Take the tile out of the basement to the garage or outside to cut it so that it is easier to clean up the sawdust generated. Using a pry bar install the BSFT to complete the first row.



11. Start the second row with a 12-in x 24-in half BSFT so that all of the BSFT seams are staggered. Install the temporary 1/4-in spacer in

the middle of the tile against the wall. Staggering the BSFT seams will give the floating subfloor more structure and rigidity.

12. Continue to install the BSFT across the floor checking for level regularly and shimming if necessary. Install temporary spacers against the wall as required.

13. When you come to the installation of the final row of BSFT you will likely have to cut the BSFT to fit the gap. Measure, cut, and install the BSFT allowing for the final 1/4-in wall gap.



14. Your BSFT installation is now complete. Remove all of the temporary wall spacers. You can finish as a utility floor with two coats of polyurethane sealant. Proceed with the perimeter foundation insulated wall construction and then the interior wall framing, if applicable.

15. With all walls constructed, you are ready to install your finished flooring on top of the BSFT subfloor according to the manufacturer's installation instructions.

16. Install the baseboard trim to cover the 1/4-in perimeter wall gap.

HAVE MORE QUESTIONS?
CONTACT BARRICADE™ CUSTOMER SERVICE AT
1-855-872-3996
(9AM-5PM ET - MONDAY TO FRIDAY)
OR VISIT
WWW.BARRICADESUBFLOOR.COM

