

INSTALLATION BASICS FOR AFFIXX™ Tile

BASICS

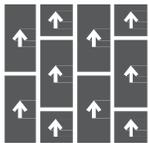
Bentley Mills has adopted the Carpet and Rug Institute's (CRI) 104 as a basic minimum industry guideline for the installation of both broadloom and modular carpet. Please note; the installation instructions for some specific styles may exceed the basic minimum requirements set forth in the CRI 104. When consulting CRI 104 please make certain it is the most recent edition and contains the latest updates; copies may be obtained on the CRI website <http://www.carpet-rug.org> NOTE: AFFIXX can be installed both with and without adhesive see below.

LAYOUT

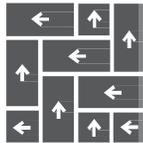
Carpet tile seams will never be invisible and are usually most visible on the day of installation. Seams become increasing less visible with routine vacuuming and foot traffic. Bentley goes to great lengths to determine how a particular style should be installed to help maximize its appearance in all standard color combinations. The variety of styles and tile sizes make it extremely important for the installer to know whether the preferred installation layout for a particular style is monolithic, brick, ashlar, quarter-turn, herringbone or other. Recommended installation methods are included on the identifying labels affixed to tile boxes.

Some styles allow for a variety of installation layouts; others have only one or two recommended layout methods that would assure an aesthetically pleasing installation for the customer. The installer should know which recommended layout is preferred by the end user prior to starting the installation. If there are questions about the recommended layout, please contact Bentley prior to starting installation of any carpet tile style.

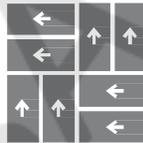
TILE INSTALLATION REFERENCE:



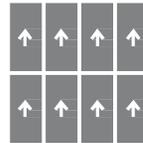
ASHLAR



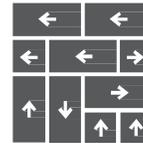
HERRINGBONE



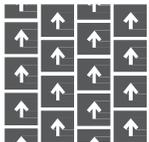
PARQUET



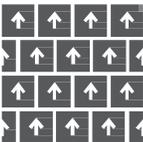
MONOLITHIC



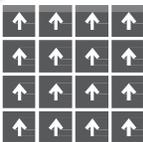
RANDOM



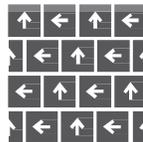
ASHLAR



BRICK



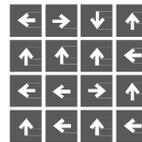
MONOLITHIC



QUARTER
DROP



QUARTER
TURN



RANDOM

Carpet and Rug Institute 104 (CRI)

In addition to the specific instructions detailed here, the CRI must be closely followed as basic minimum requirement for floor preparation and installation on all carpet installations <http://www.carpet-rug.org>

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CONCRETE SUB-FLOOR

All new concrete must be fully cured, clean, and dry. Old concrete must be clean, dry, level, and free of paint, dirt, old adhesive, oils, or other contaminants. Pre-existing adhesive must be 90% removed resulting in only trace amounts of old adhesive showing (10% or less of the old adhesive showing on the subfloor) removed by either hand scraping or mechanically sand smooth; after which, apply WF Taylor 2025 Primer prior to the installation of Bentley Mills AFFIXX carpet tile. All concrete floors must comply with moisture and alkalinity requirements prior to proceeding with installation. Whenever a powdery surface is encountered such as lightweight concrete or excessive dust, the floor must be cleaned and then primed with an approved primer; (WF Taylor 2025 Primer)

NOTE: AFFIXX Tile products can be used on installations up to 96% RH. See adhesive free installation guidelines below.

Level the floor to the standards outlined in the American Concrete Institute specifications for Concrete Building ACI 301 in regards to trowel finish and finishing tolerance. Leveling compounds must be Portland-based cement. Patch cracks and holes with one of the following approved patching compounds: Ardex Feather Finish, Ardex K-15, Henry's 547, Mapei Plani Patch, or similar cement based compound. Do not exceed manufacturer's recommendation for patch thickness. Gypsum based compounds are not recommended.

Please note: Incompatible adhesives, solvent-based materials, cut back adhesives and other contaminants should be removed and encapsulated with WF Taylor Encap 500 prior to installation of carpet. Contact Bentley for further information at 800.423.4709.

CONCRETE MOISTURE

Concrete floors, even with adequate curing time, can present an unacceptable moisture condition by allowing excessive amounts of moisture vapor to pass through to the surface. **AFFIXX Tile products can be used on installations up to 96% RH.**

TEST CONDITIONS

Accurate testing of concrete floors requires the building to be fully enclosed and the air conditioning and heating system should function to a level similar to that expected when the space is occupied.

CALCIUM CHLORIDE

The test must be administered in strict adherence to the specifications of the ASTM F1869 test procedure.

RELATIVE HUMIDITY

The test must be administered in strict adherence to the specifications of ASTM Standard F2170 and as described here. Moisture levels in the concrete sub-floor must be 96% RH or less - **pertains only to AFFIXX products.** Once levels have been determined to be 96% RH or less, then the chemical pH of the concrete sub-floor should also be tested.

ASBESTOS

Floor tiles containing Asbestos, and adhesive possibly containing asbestos, or other asbestos- containing floor coverings require special preparation, handling, and removal procedures. Please consult the appropriate local or state authorities or the Resilient Floor Covering Institute before disturbing any suspected asbestos-containing material.

ACCESS PANELS

When installing carpet tiles over raised access floor panels, it's suggested to start the installation by overlapping the access panel joints to prevent the seams of the tiles from lining up with the access panel joints. All access panels must be sound, level and edges firmly secured to the raised flooring pedestals.

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Bentley Mills is not responsible for any product failure due to improper floor preparation and / or installation procedures.

CHEMICAL PH

All concrete floors, old or new, should be tested for alkalinity by using an alkalinity test kit, a pH Test Probe or pH Test Meter. Testing the pH at the surface of the concrete slab must be conducted in accordance with the ASTM F710 Standard. The slab should have an alkalinity level ranging from 7.0 to 9.0 to be suitable for installation. Chemical pH test strips should be capable of measuring a range of 0-14. The area to be tested must be enclosed and acclimated as described.

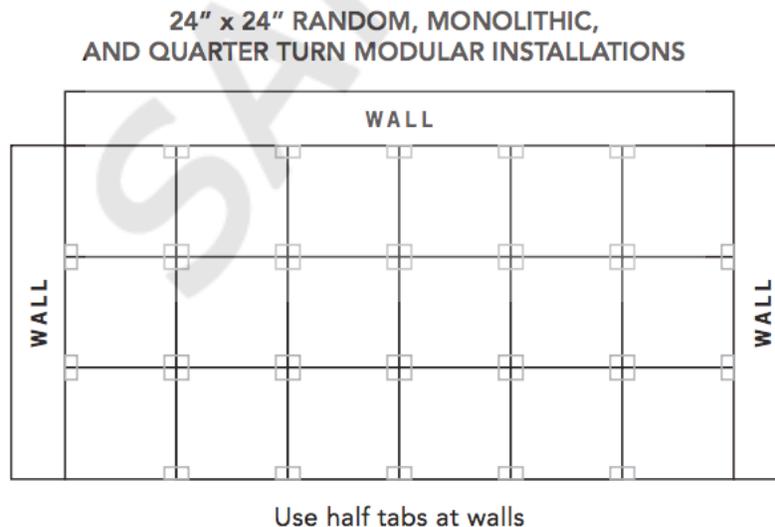
CONDITIONING CARPET

The floor and room temperature must be acclimated by maintaining the temperature at 65F and 85F, and the humidity between 30% and 65%, for at least 48 hours before and during installation. In addition, the carpet and adhesive should be stored under these conditions for at least 24 hours before installation. The installation site must be acclimated with HVAC in operation and maintained at normal service temperature and humidity.

Please note: Bentley Mills can not be held responsible for carpet stability issues such as curl, dome, expansion, or contraction when carpet is not properly conditioned prior to installation.

CENTERING/SQUARING

Divide the room into four quadrants and snap a chalk line. Make sure quadrants meet at right angles. Take care to keep perimeter carpet tile cuts larger than half size. Carpet tiles are printed on the back with arrows showing tuft direction



AFFIXX Tab Installation

- 1) Each Affixx Tab is approximately a 5" X 5" square that must be centered at the carpet tile intersection, also at all fills near terminating walls. Care should be taken not to trap the face yarn under the tile edges.
- 2) Start from the established intersection point (the center of the floor) with the 1st tile, place an Affixx Tab under each edge of the tile at the corners leaving $\frac{3}{4}$ of the Affixx Tab exposed.
- 3) Place the 2nd tile in place and firmly press the tile into the Affixx Tab.
- 4) Continue with the 3rd tile creating a pyramid pattern; be sure the tiles are properly aligned at the edges during the installation.
- 5) Place an Affixx Tab under the edges of the 2nd and 3rd tiles continuing with the pyramid pattern until the entire area is completed.
- 6) Roll all of the carpet tiles with a 100lb roller

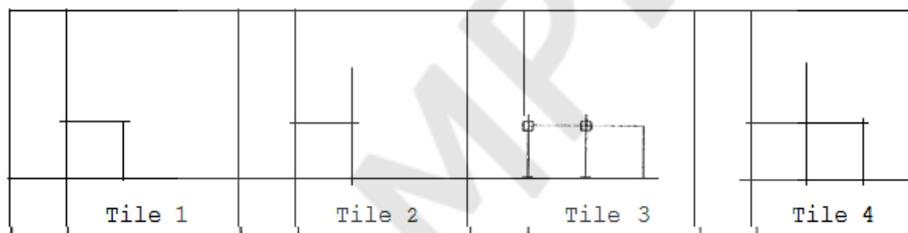
INSTALLATION BASICS FOR AFFIXX™ Tile

Areas greater than 100sf dimensionally, requires a 6" band of Healthbond 2300 pressure sensitive adhesive at walls to prevent shifting; utilize 1/32" trowel. Apply a 6" grid of adhesive every 30 feet as necessary to further secure the installation; in heavy roller traffic areas apply a 6" grid

Adhesive Free Installations: Perimeter areas and anchor points must be clean and free of debris including most of the old adhesives prior to the application of double faced tape. Areas greater than 100sf dimensionally, requires approved double faced tape at walls to prevent shifting; also apply a 2" wide double faced tape every 30 feet as necessary to further secure the installation; in heavy roller traffic areas apply a 2" grid of tape every 12 feet.

Large Rooms and Long Corridors

Dimensions over 100' must have a 2' wide band of Bentley Healthbond 2300 PSA applied with a 3/4" nap roller or a 1/16" x 1/32" x 1/32" trowel to help prevent movement in the tile installation, this should be done in equal dimensions proportionate to the length and width of the area being carpeted.



Adhesive Free Installations: Dimensions over 100' must have a 2" wide band of approved double faced tape (30-50LF) to help prevent movement in the tile installation; this should be done in equal dimensions proportionate to the length and width of the area being

THROUGH DOORWAYS

An additional perpendicular line should be established and squared from the center line of the room to run through doorways. Care should be taken to measure a distance equal to an even number of carpet tiles from the room's center line to a point in the doorway. That point in the doorway will determine where the first tile is installed.

TIPPING TILES INTO PLACE

Tip individual carpet tiles into place. Please take care to prevent tile corners from rolling under when they are positioned. Frequently check tile joints for proper alignment and firm abutment. Avoid tight or overly compressed joints that can cause peaking edges or corners.

CHECK TIGHTNESS

Expect a slight gain as the modules are installed because of spacing at the joints. To insure a tight installation and minimize the amount of gain, measure 10 squares (in length) from the front side of the first tile to back side of the 10th tile. The measurement should be slightly more than 180 inches with a gain no greater than about 1/8-inch or 3 millimeters. If gain exceeds 1/8 inch, tiles should be reinstalled and butted more tightly along backing edge. Reposition and check again.

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IMPORTANT ADVICE

These installation procedures are recommendations designed for the experienced and competent installer. Strict adherence to these procedures will result in a quality installation under most conditions. Any situation that could alter the installation procedure or jeopardize the possibility of a satisfactory installation, such as identification of defective material or unusual installation conditions, creates a responsibility for the installer to STOP the installation immediately and call Bentley Customer Care at 800.423.4709. Bentley will not be responsible for substandard installation or for an installer's decision to proceed with an installation that is not resulting in a satisfactory or acceptable finished installation.

CONTACT US

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