

Installation Instructions for GlasBac®/GlasBacRE Tiles

Interface®

Important Notices

These Installation Instructions cover most installation procedures. If you run across a situation that isn't addressed in this document or requires more detailed assistance please contact the Interface Help Desk. U.S. (877) 733-7403 / Canada (888) 224-2972

All carpet tiles should be carefully inspected for damage or defects prior to installation. Interface will not be responsible for any cost associated with replacement or repair as a result of damaged or defective tiles being installed when said damage or defects were identifiable prior to installation.

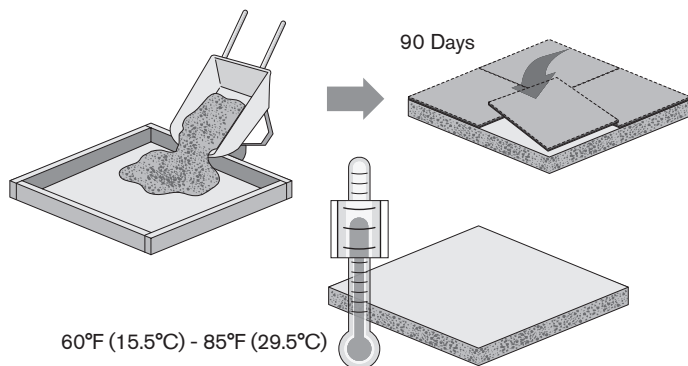
If you encounter any conditions or defects during installation that could jeopardize the installation or affect the installation procedure, you should STOP the installation immediately and call the Interface Help Desk. U.S. (877) 733-7403 / Canada (888) 224-2972

The carpet tiles are warranted in accordance with Interface's Standard Product Warranty. If you do not have a copy of Interface's Standard Product Warranty and wish to obtain one, call the Interface Help Desk. U.S. (877) 733-7403 / Canada (888) 224-2972 or visit our website at www.interface.com/warranty.

EXCEPT AS EXPRESSLY PROVIDED IN THE STANDARD PRODUCT WARRANTY, INTERFACE MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS OF ITS PRODUCTS FOR ANY PARTICULAR PURPOSES, AND HEREBY DISCLAIMS THE SAME. Without limiting the foregoing, Interface will not be responsible for staining, soiling, contamination, tears, burns, cuts, pulls or other damage, deterioration or loss caused by abuse, misuse, improper installation, improper maintenance or failure to protect carpet tiles during building construction. Interface shall not be responsible for any damage or loss resulting from failure to strictly follow any part of these Installation Instructions, and such failure shall void any and all portions of the Standard Product Warranty that are affected by such failure.

WARNING: IN THE EVENT THAT ANY ASBESTOS-CONTAINING MATERIALS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED DURING INSTALLATION, YOU SHOULD STOP THE INSTALLATION IMMEDIATELY AND OBTAIN ASSISTANCE FROM A QUALIFIED REMEDIATION CONSULTANT OR CONTRACTOR PRIOR TO PROCEEDING.

Pre-installation visit

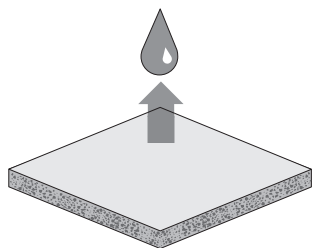


New concrete needs at least 90 days to dry under ideal conditions. Lightweight concrete and concrete poured above grade in metal pans take a considerably longer time to dry. Installation cannot begin until it is fully dried and in compliance with moisture and alkalinity requirements.

The temperature of your job site must stay within 60°F (15.5°C) and 85°F (29.5°C) with relative humidity between 40% - 60% for 48 - 72 hours prior to, during, and 48 - 72 hours after installation. So be sure the heating and air conditioning system is operating.

All carpet tiles must be removed from the cartons and allowed to adjust to the job site temperature for 48 hours prior to installation.

Concrete moisture and alkalinity testing



NOTE: The required pre-installation moisture and alkalinity tests should be performed to ASTM standards.

Per CRI guidelines it is recommended that these tests be performed by a qualified independent testing consultant.

Interface will not be responsible for failures, problems, or damage arising from high moisture, high alkalinity, or other subfloor conditions.

NOTE: New or bare concrete is defined as concrete free of adhesive residue, paint, sealers, primers and other applied materials.

Before installing, all concrete floors, regardless of age, must comply with the moisture and pH requirements stated below, and must otherwise be suitable for carpet tile installation. The moisture conditions of the concrete should be determined by use of the *In Situ* probe relative humidity (RH) test method (ASTM F 2170). Interface requires the use of a moisture testing device manufactured by Wagner or Vasela. The testing device must be properly maintained and calibrated in accordance with the manufacturer's specifications and frequency recommendations. Certificates of calibration should be maintained for test validation.

Interface allows for carpet tile installation under a variety of conditions depending on the type of slab and the moisture and pH test results at time of installation. For best results we recommend the pH test developed by Interface. Please see "Standard Practice for pH Testing Concrete Floors" on p. 13 for details.

1. For installation over concrete with an unlimited RH and a pH up to 9.0, you may install with Interface's TacTiles® connectors. **Under these conditions you MUST use the pH test developed by Interface to ensure expected performance and warranty coverage.**

2. For installation over concrete with up to 97% RH and pH up to 11.0, you may install with Interface's TacTiles connectors in conjunction with XL Brands 9511

Concrete moisture and alkalinity testing (continued)

Moisture Vapor Reduction System. All XL Brands 9511 written requirements for product application, including but not limited to moisture and pH testing protocols, must be met for Interface warranty eligibility. More information concerning the proper use of XL Brands 9511 can be obtained through your local Interface representative or by visiting www.xlbrands.com.

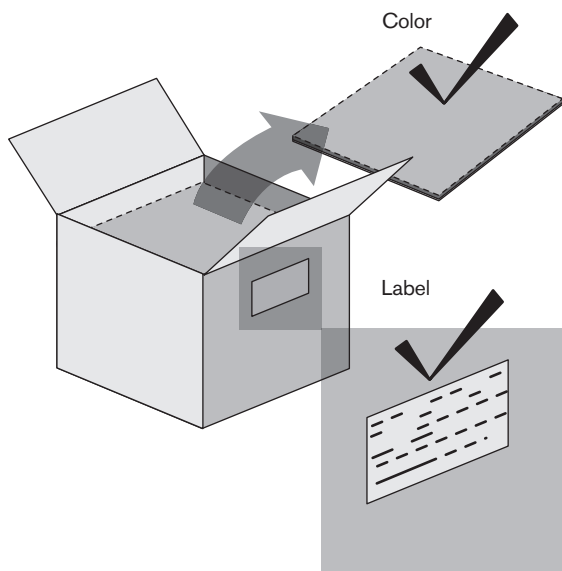
3. For glue-down installation over concrete with up to 95% RH and pH up to 11.0, you may install with XL Brands Adhesive 2000 Plus (U.S.) or Adhesive 2500 Plus (Canada) in conjunction with XL Brands RH95 moisture vapor reduction system. All XL Brands RH95 written requirements for product application, including, but not limited to, moisture and pH testing protocols, must be met or the carpet tile products will not be covered by warranty. More information concerning the proper use of XL Brands RH95 can be obtained through your local Interface representative or by visiting www.xlbrands.com.

4. For glue-down installation over concrete with up to 80% relative humidity (RH) and pH up to 9.0, you may install with the recommended spread adhesive. Standard installation instructions apply.

NOTE: Moisture and pH test results reflect only the conditions of the concrete at the time of testing. If the moisture and/or pH test results are outside of the stated allowable limits, **STOP** and **DO NOT PROCEED** with the installation. Seek further advice from Interface before proceeding.

Refer to Preparing the Subfloor for additional information concerning issues relating to surface conditions of the concrete slab prior to installation.

Product inspection



INSPECT INTERFACE GLASBAC/GLASBACRE CARPET TILES TO BE SURE THEY MEET THE ORDER SPECIFICATIONS. IF THE WRONG PRODUCT OR COLOR IS INSTALLED, INTERFACE WILL NOT BE RESPONSIBLE FOR CORRECTING THE PROBLEM.

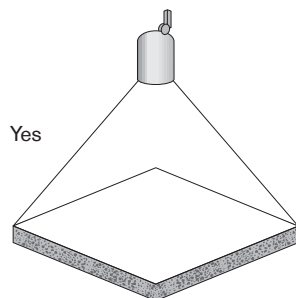
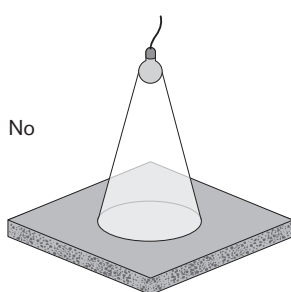
The labels on each carton indicate product style, pattern, color, run number and dye lot. Be sure the style, pattern and color match the specifications for each area of your installation. On larger installations, you may find that some cartons have different run numbers and/or dye lots. To avoid subtle variations in the finished installation of non-i2® styles, do not mix run numbers or dye lots in the same area.

Dye lots may be mixed for Interface i2 styles.

Check to confirm that you have the right quantity and correct installation method. Be sure you also have enough tiles to establish an "attic stock" for future replacements.

Open all cartons to inspect for damaged or defective tiles. If you find any, call the Interface Help Desk. U.S. (877) 733-7403 / Canada (888) 224-2972

Lighting



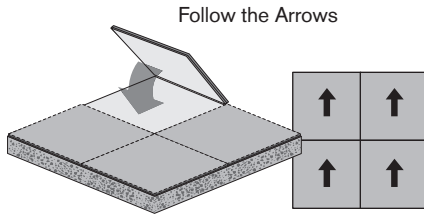
Ensure adequate overhead lighting is provided. Ideally, lighting should mimic or consist of the same conditions expected at time of occupancy.

INSTALLATION OF CARPET TILES SHOULD BE THE LAST ITEM ON THE CONSTRUCTION SCHEDULE. CAREFULLY CONSIDER THE RISKS IF YOU ARE ASKED TO INSTALL CARPET TILES TOO EARLY. IF CARPET TILES ARE INSTALLED BEFORE CONSTRUCTION IS COMPLETE, ANY STAINING, SOILING OR DAMAGE CAUSED BY OTHER TRADES MAY VOID THE PRODUCT WARRANTY.

SQUARE TILES

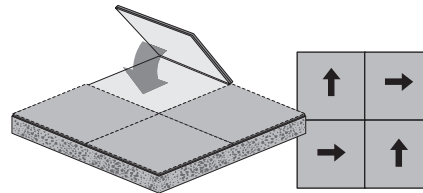
(for Plank Tile Instructions see page 11)

Monolithic Installation



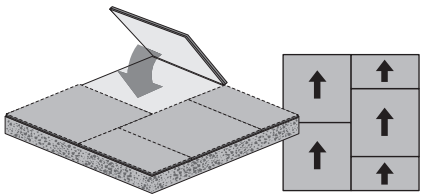
An arrow is printed on the back of each carpet tile to indicate pile direction. Make sure the arrows point in the same direction throughout your installation.

Quarter-Turn Installation



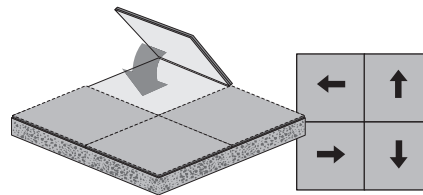
Some Interface GlasBac/GlasBacRE tiles are designed to be installed in a parquet pattern. In this case, the arrows should be turned 90 degrees every other tile.

Ashlar Installation



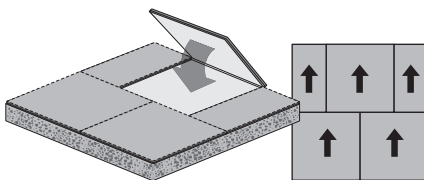
Some Interface GlasBac/GlasBacRE tiles are designed to be installed in an ashlar pattern by offsetting the front and back tile joints.

Non Directional Installation



Some Interface GlasBac/GlasBacRE tiles are designed to be installed in a non directional pattern. This pattern allows installation of tiles without regard to arrow direction.

Brick Installation



Some Interface GlasBac/GlasBacRE tiles are designed to be installed in a brick pattern by offsetting the side joints of the tiles.

Tools

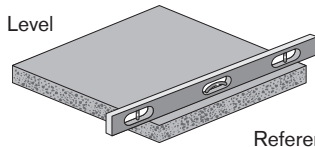
Proper installation requires tools on the following checklist.

English/Metric steel measuring tape	Vacuum
Scraper	White chalk line
Carpet knife	TacTiles
Carpet knife replacement blades	OR
Steel straight edge	Recommended adhesive with 3/8" nap paint roller
Carpenter's square	
Broom	
Sander	

NOTE: INTERFACE ASSUMES NO LIABILITY FOR ISSUES RELATED TO OR RESULTING FROM INSTALLING OUT OF SPECIFICATION, INCLUDING, BUT NOT LIMITED TO, RECOMMENDED INSTALLATION METHOD.

PREPARING THE SUBFLOOR

Installing over concrete

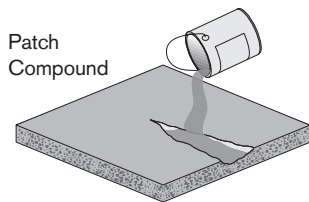


Reference 10' straight edge method. Level is defined as having up to 1/4" maximum gap within 90% of samples taken. No sample should exceed a maximum gap of 3/8".

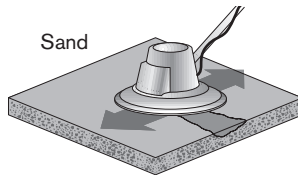
All concrete floors must comply with moisture and alkalinity requirements prior to proceeding with installation. (See "Moisture and Alkalinity Test" above.)

Level the floor to the standards outlined in the American Concrete Institute specifications for Concrete Buildings in regards to troweled finish and finishing tolerances. Leveling compounds must be cementitious based.

Existing Concrete



Sand



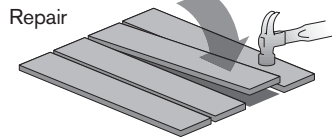
Patch cracks and holes with one of the following approved patching compounds: Ardex Feather Finish, Ardex K-15, Henry's 547, Armstrong S-184 or similar cement based compound. NOTE: Some patching compounds can be mixed with water while some must be mixed with latex. Follow the manufacturer's specifications and instructions for use.

NOTE: All adhesives, solvent based materials and other contaminants should be removed and encapsulated prior to application of adhesive and installation of carpet. Contact the Interface Help Desk. U.S. (877) 733-7403 / Canada (888) 224-2972

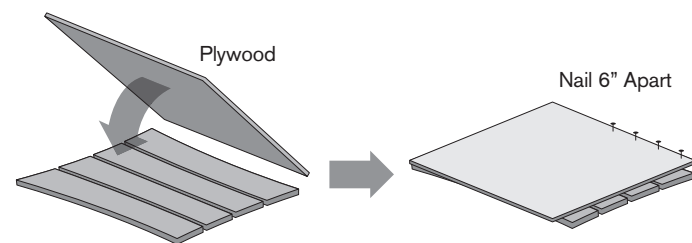
New Concrete

Interface recommends that dusty and / or porous conditions be primed using XL Brands Prelude or a similar product.

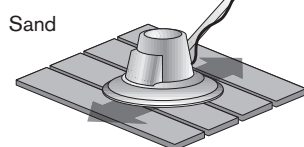
Installing over wood, plywood or particle board



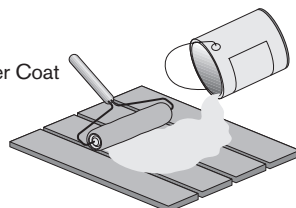
Repair loose or broken boards. Secure with 8-D cement-coated screw nails.



If the majority of the boards are worn or badly cupped, cover with 5/8 inch (1.6 cm) exterior grade AD plywood secured with 8-D cement-coated screw nails spaced 6 inches (15.2 cm) apart. Sand seams smooth.



Barrier Coat



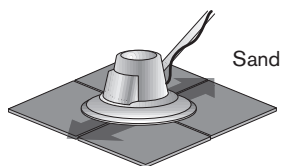
Sand the finish down to bare wood.

Remove dust by sweeping, then wiping with a tack cloth.

All wood surfaces should be primed prior to application of an adhesive. Interface recommends XL Brands TriSeal or similar product.

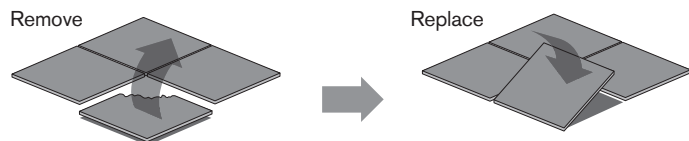
NOTE: All adhesives, solvent based materials and other contaminants should be removed and encapsulated prior to application of adhesive and installation of carpet. Contact the Interface Help Desk. U.S. (877) 733-7403 / Canada (888) 224-2972

Installing over vinyl tile, sheet vinyl or natural materials

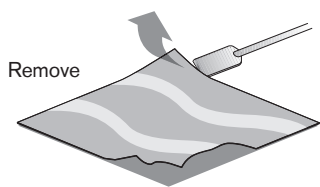


WARNING: EXISTING FLOOR COVERING MAY CONTAIN ASBESTOS OR OTHER HAZARDOUS MATERIALS. IN THE EVENT ASBESTOS-CONTAINING MATERIALS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED, YOU SHOULD STOP THE INSTALLATION IMMEDIATELY AND OBTAIN ASSISTANCE FROM A QUALIFIED REMEDIATION CONSULTANT OR CONTRACTOR PRIOR TO PROCEEDING.

Use an appropriate non solvent stripper or a sander to remove the wax top coat.

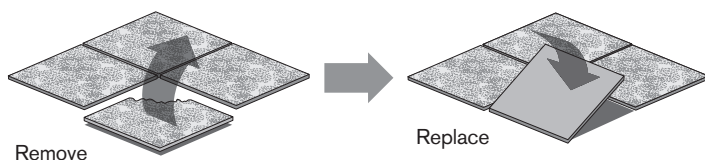


Remove any damaged or loose vinyl tiles and replace with comparable thickness tile or patching compound.

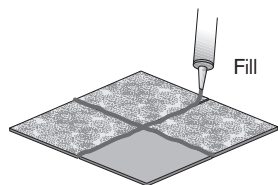


Remove sheet vinyl with a scraper. Do not install over sheet vinyl. Any existing adhesive remaining on subfloor should be removed by grinding/scraping and residue encapsulated.

NOTE: This is not necessary for TacTiles connectors. Sheet vinyl must be secure to subfloor.

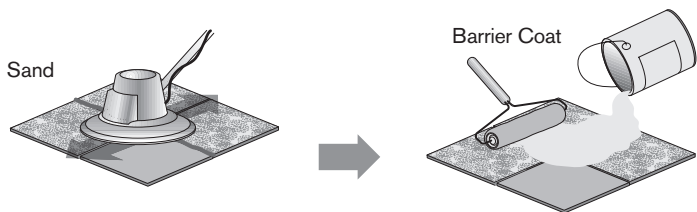


For natural materials such as granolithic, terrazzo, marble, ceramic tile, etc., breakout and remove all material or replace damaged areas with substitute material of the same thickness.



Patch and fill cracks and irregularities, including grout lines, with one of the following approved patching compounds: Ardex Feather Finish, Ardex K-15, Henry's 547 or similar cement based compound.

NOTE: Some patching compounds can be mixed with water while some must be mixed with latex. Follow the manufacturer's specification and instructions for use.

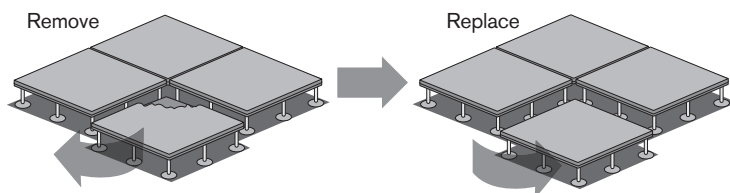


Sand top surface to remove glaze.

Remove dust by sweeping, then wiping with a tack cloth.

All porous surfaces should be primed prior to application of an adhesive. Interface recommends XL Brands TriSeal or similar product.

Installing over raised floors

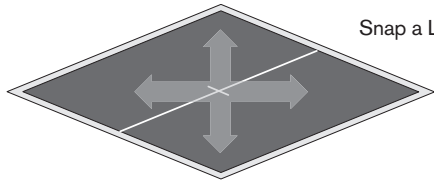


Patch or replace any damaged floor panel inserts.

Panels should be free of any dirt, grease, oil, paint, sealer, adhesive or other materials from floor.

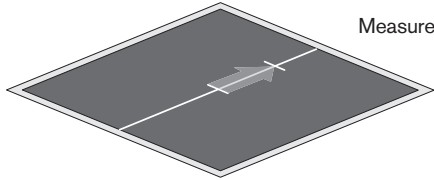
NOTE: All adhesives, solvent based materials and other contaminants should be removed and encapsulated prior to application of adhesive and installation of carpet. Contact the Interface Help Desk. U.S. (877) 733-7403 / Canada (888) 224-2972

ESTABLISHING THE STARTING POINT



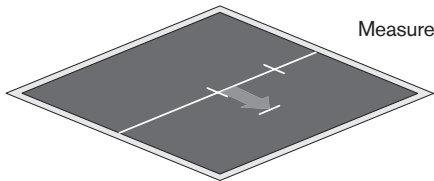
Snap a Line

1. Measure to determine the center point and mark. Snap a chalk line.



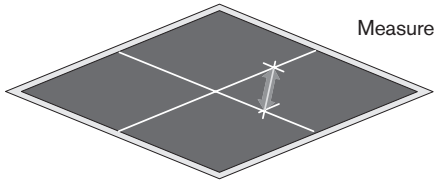
Measure

2. Measure 8 feet (243.5 cm) out from your center point along the chalk line. Make a mark.



Measure

3. Measure 6 feet (182.9 cm) from your center point at a right angle to your chalk line and make a mark.



Measure

4. Measure the distance between your marks. It should be exactly 10 feet (304.8 cm). If it is, your quadrants will be square. Snap a chalk line here.

NOTE: If the room is too small for the above measurements, reduce them by half. Measure 4 feet (121.9 cm) vertically and 3 feet (91.4 cm) horizontally. In this case, the measurement between your two marks should be exactly 5 feet (152.4 cm).

Determine if center lines need to be offset

Dry fit (without adhesive) a row of tiles along the entire length of your vertical and horizontal center lines. Go all the way to the walls. If necessary, offset either or both center lines to ensure perimeter tiles will be cut no less than half size, or 9.84 inches (25 cm).

TacTiles Installation System

SQUARE TILES

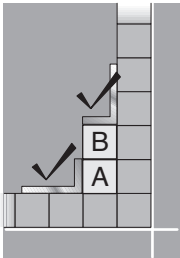
(for Plank Tile Instructions see page 12)

Applying TacTiles connectors

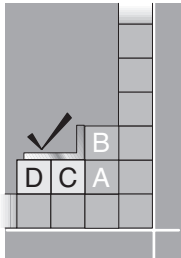
NOTE: The average TacTiles connector application rate is four TacTiles per square yard of carpet when installed monolithic, quarter-turn or non directional and six TacTiles per square yard when installed ashlar or brick. In small spaces a higher per yard application rate may apply. Consult your local Account Executive or the Interface Help Desk. U.S. (877) 733-7403 / Canada (888) 224-2972

TacTiles connectors should not be used on stairs, ramps or inclines.

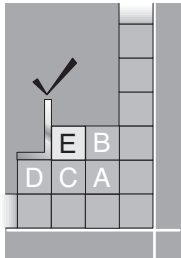
Lay anchor rows, placing a TacTiles connector at every joint. Install carpet using a step method placing a TacTiles connector at every corner.



Check
Square



Check
Square

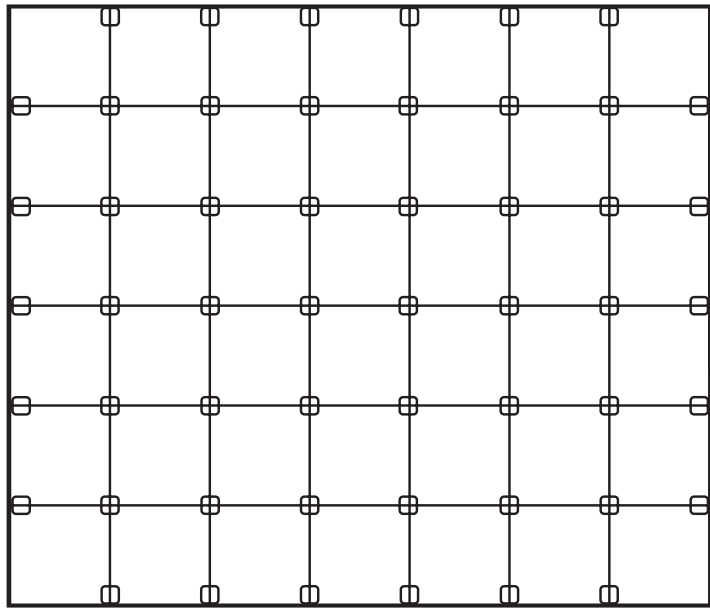


Check
Square

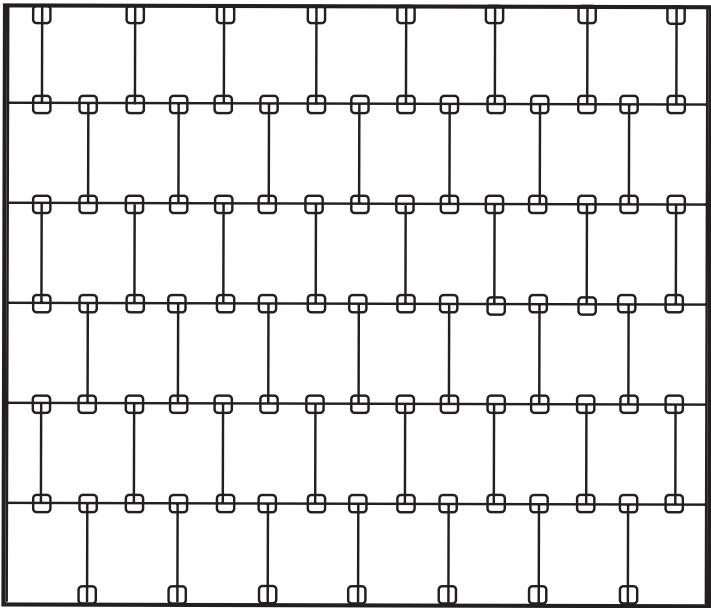
TacTiles connector placement

Insert tiles based on approved installation method. TacTiles connectors should be applied based on the following diagrams.

Quarter-Turn / Monolithic / Non Directional Installations / Area Rugs



Brick / Ashlar Installations (Six TacTiles per yard - one at every corner.)



NOTE: When installing using Interface TacTiles connectors, perimeter tiles should be cut net to the wall. In the event a wall or other termination point does not extend to the subfloor, the perimeter tiles should be installed using an approved Interface adhesive.

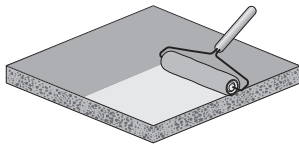
Adhesive Installation

APPLYING ADHESIVE

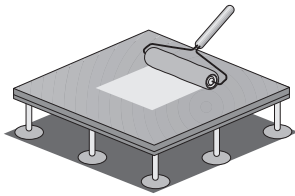
If you choose spread adhesive, use only XL Brands Adhesive 2000 Plus (U.S.) or Adhesive 2500 Plus (Canada) on all areas other than stairs. On stairs, use only vinyl compatible permanent adhesive. For stair nosing, use manufacturer's recommended installation method.

Full spread adhesive application

Spread Rate:
39 - 44 Sq. Yds./Gallon



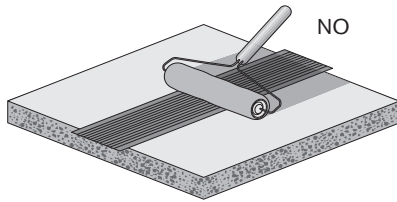
Raised Floor Systems



Apply adhesive with a 3/8" nap paint roller. Expect a spread rate of 39-44 square yards per gallon using a 3/8" nap paint roller.

For raised floor systems a full spread of adhesive is required.

Adhesive in special situations



FLATWIRE

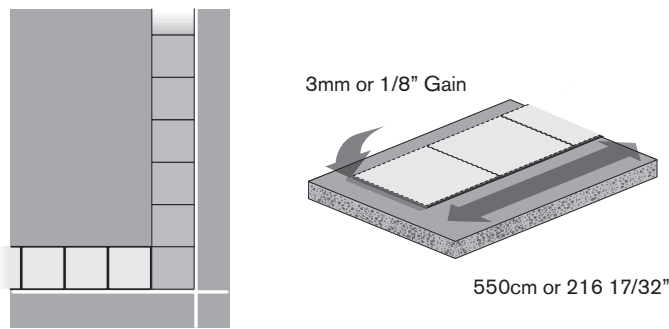
Never apply adhesive directly over flatwire. The flatwire may be damaged if the tiles need to be removed.

UNEVEN AREAS

Any surface that cannot be leveled may require adhesive or double-sided tape to hold a tile in place.

Tile Installation

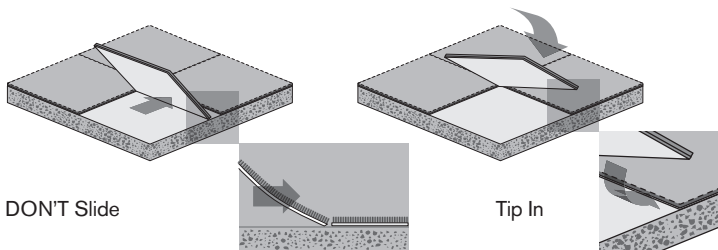
LAYING TILES



Follow the center lines closely. In smaller rooms, your anchor rows may consist of fewer than 11 tiles. Lay an anchor row of 10 additional tiles (11 including the one you've already placed) aligned with the center line.

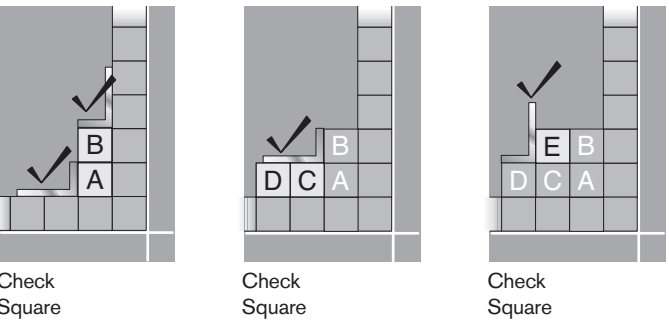
Measure your anchor rows. Each should equal 550 cm (11 tiles x 50 cm each, or 216 17/32") with no more than a 3mm (1/8") gain. If the gain is more than 3 mm, the tiles aren't tight enough and should be laid again. After relaying, measure again. If tiles are less than 550 cm they are too tight and should be laid again.

Tip into place

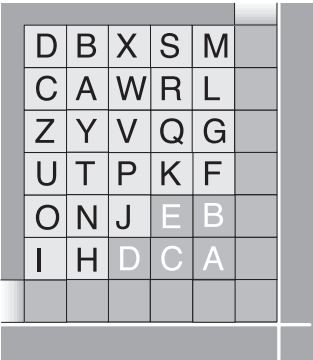


Don't position tiles by sliding them across the adhesive. This will cause the corner to bend under. Instead, brush the pile back with one hand, then tip a corner of the tile into place. Position the rest of the tile once the corner is properly aligned. Do not catch the pile in the joints.

Lay tiles in step or pyramid pattern

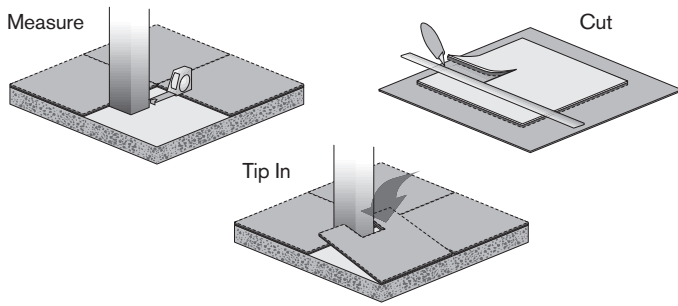


1. Lay two tiles vertically, and check that they are square to the anchor rows.
2. Lay two tiles horizontally, and check that they are square to the anchor rows.
3. Lay one tile to complete the step.
4. Follow the ABCD pattern laid out here until you reach the end of your anchor rows. Repeat laying anchor rows and ABCD patterns in all quadrants until complete.



CUTTING TILES

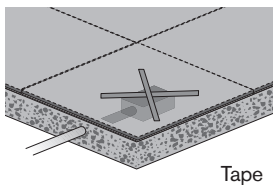
Guidelines for cutting tiles



Tiles adjacent to fixtures, architectural elements and walls need to be cut. Follow these guidelines:

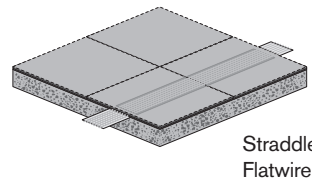
- If practical, remove the base molding before installing perimeter tiles. Replace molding when finished.
- Replace blades often. Sharp blades make cutting quicker, easier and more precise.
- Never use other tiles as a cutting surface. Place tiles on layers of cardboard before cutting.
- Always secure cut tiles with adhesive.

Floor outlets



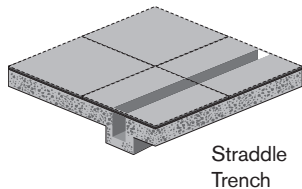
Floor outlets are usually wired after carpet tiles have been installed. Consequently, you should install tiles directly over floor outlets and mark the location with tape. This way, it will be easy to see which tiles need to be lifted for cutouts later.

Flatwire



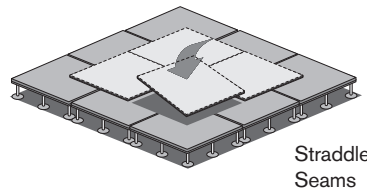
Tile layout should allow flatwire to be centered under a row of tile.

Trench headers



Tile layout should allow trench headers to be centered under a row of tile. Secure the tiles on either side of trench headers with adhesive. This will prevent the installation from shifting while servicing trench headers.

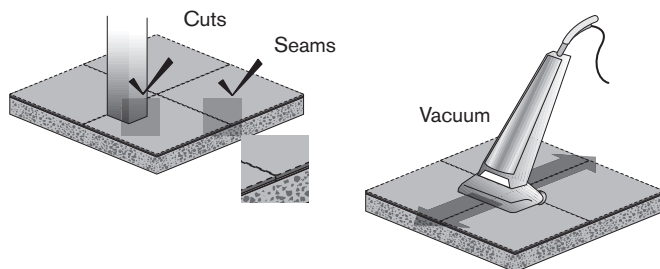
Raised floors



Raised floor panels are susceptible to subtle flexing. To ensure uniform appearance, avoid matching raised floor seams with tile joints.

PREPARING FOR OCCUPATION

Final inspection and vacuum



Inspect the entire installation, paying close attention to joints and any tiles that have been cut.

Vacuum the floor with a pile lifter. If you don't have a pile lifter, use an upright vacuum cleaner.

Follow CRI installation standards

In addition to the specific floor preparation and installation instructions detailed here, the Carpet and Rug Institute's Carpet Installation Standard must be followed. Please note that many of the Interface installation requirements may exceed or differ from those in the CRI Standard. In the event of conflict between the Interface Installation Instructions and the CRI Standard, you should follow the Interface Installation Instructions.

Special Product Guide

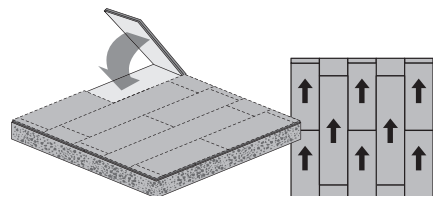
(for Square Tile Installation Instructions see page 3)

50CM X 1M PLANK TILES

Ashlar Installation

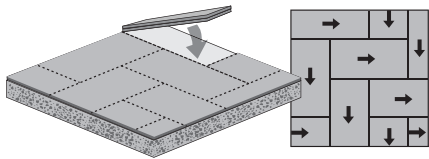
Follow the Arrows

Ashlar is created by offsetting the front and back tile joints.



Herringbone Installation

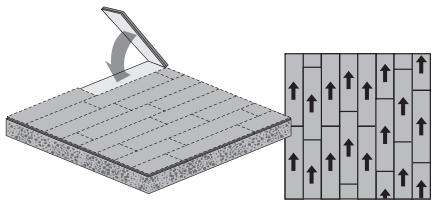
Herringbone is created by laying planks in an L pattern.



25CM X 1M PLANK TILES

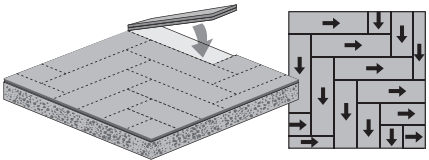
Ashlar Installation

Ashlar is created by offsetting the front and back tile joints. We recommend a variable drop ashlar, as shown here, but our products can also be installed with a half drop ashlar.



Herringbone Installation

Herringbone is created by laying planks in an L pattern.



TacTiles Installation System

(for Square Tile Instructions see page 7)

PLANK TILES

Applying TacTiles connectors

NOTE: The average number of TacTiles connectors needed depends on the size of the plank and the installation method used.

50cm x 1m Plank Averages:

- Ashlar – 4/sq. yard
- Herringbone – 5/sq. yard

25cm x 1m Plank Averages:

- Ashlar – 7/sq. yard
- Herringbone – 8/sq. yard

Some applications may require an additional TacTiles connector in the center where tile edges meet. Consult your local Account Executive or the Interface Help Desk. U.S. (877) 733-7403 / Canada (888) 224-2972

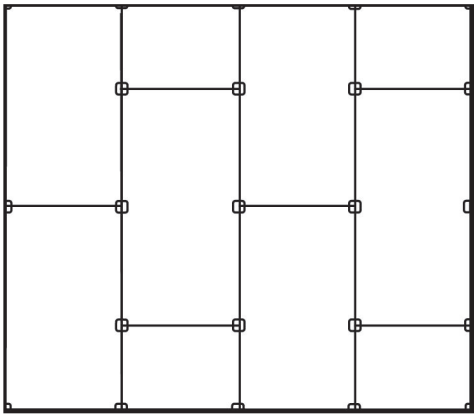
TacTiles connectors should not be used on stairs, ramps or inclines

Lay anchor rows, placing a TacTiles connector at every joint. Install carpet using a step method placing a TacTiles connector at every corner. Interface recommends securing anchor rows with adhesive or two-sided tape.

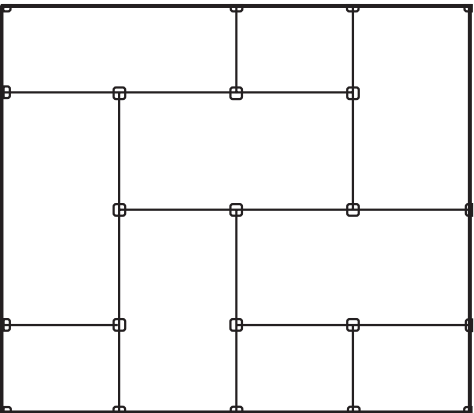
Insert tiles based on approved installation method. TacTiles connectors should be applied based on the following diagrams.

50CM X 1M placement

Ashlar Installation

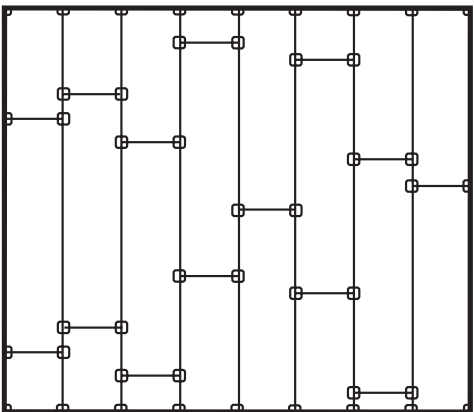


Herringbone Installation

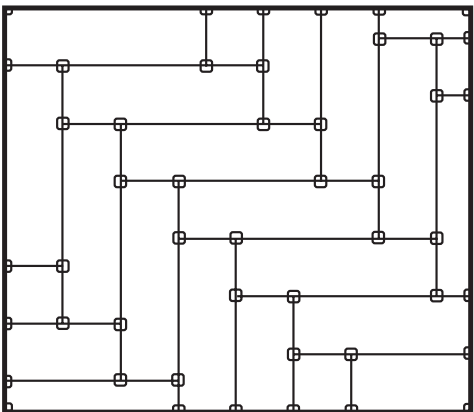


25CM X 1M placement

Ashlar Installation



Herringbone Installation



NOTE: When installing using Interface TacTiles connectors, perimeter tiles should be cut net to the wall. In the event a wall or other termination point does not extend to the subfloor, the perimeter tiles should be installed using an approved Interface adhesive.

Standard Practice for pH Testing Concrete Floors

PRIOR TO INSTALLATION

All concrete floors, old and new, should be tested for alkalinity using an approved pH test kit. The approved pH test kit should include pH test strips capable of measuring a range of 0 - 14 along with deionized or distilled water. The area to be tested must be weather-tight and conditioned, via the building's HVAC system, to a temperature range of 65° - 85° Fahrenheit and a relative humidity range of 40% - 60%. These temperature and humidity ranges must be maintained for at least 48 hours prior to commencing the test and at all times during the test. The concrete surface temperature should not be less than 65°.

All adhesives, coatings, finishes, dirt, curing compounds, sealants and other substances should be removed from the area to be tested. Non-chemical methods, such as sanding, grinding, or bead blasting should be used to remove these substances to achieve an appropriate state for testing. Any cleaning should take place a minimum of 48 hours before testing.

Once the above conditions have been met:

1. Abrade the surface using 100 grit sand paper to a minimum depth of 1/32" but no more than 1/8".
2. Apply a small amount (approximately 1" in diameter) of de-ionized or distilled water.
3. Allow the de-ionized/distilled water to stand for 60 seconds.
4. Dip the 0-14 pH test strip into the puddle and remove.
5. Allow the test strip to stand for 15 seconds.
6. Compare to the pH chart in the test kit to determine pH level.
7. At least three pH tests must be performed for the first 1,000 square feet of space. One additional test should be performed for each additional 1,000 square feet thereafter.

The concrete slab should have an alkalinity level between 7.0 - 9.0 to be suitable for carpet installation. Should the pH level be outside of this range STOP, and DO NOT proceed with installation. Call the Interface Americas Help Desk. U.S. (877) 733-7403 / Canada (888) 244-2972.

NOTE: Results obtained by this method reflect only the conditions of the concrete at the time of testing. Stated pH limitation must be maintained for the life of the installation to avoid installation and product failures and to preserve warranty coverage.