

Venture

Venture

Modular Carpet Gluedown Installation Procedures

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Glue-Down Installation Instructions

Modular Carpet
Tiles and Planks

Commercial
Applications

IMPORTANT:
Read this entire document, along with the adhesive manufacturer's current Technical Data Sheets (TDS), before starting any installation. Installation of the product is considered acceptance of materials and site conditions.

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1. Introduction & Scope

1.1 Product use

Venture Carpets modular tiles and planks can be installed in both residential and commercial settings. This guide specifically addresses glue-down installation requirements for commercial projects, which require professional-grade installation to meet high-performance standards and warranty requirements.

1.2 Professional installation

Venture strongly recommends that our products be installed by experienced professional flooring installers familiar with commercial carpet and resilient flooring installation.

Training programs such as those provided by the **International Standards & Training Alliance (INSTALL)** and the **World Floor Covering Association (WFCA)** are recommended.

1.3 Standards and guidelines

Substrate testing and preparation must comply with applicable industry standards (quoted in this document) and these Venture Carpets installation instructions. Where a particular situation is not directly covered here, follow relevant industry standards and adhesive manufacturer recommendations.

1.4 Method covered

This document covers direct glue-down installation of Venture Carpets modular tiles and planks. Alternative attachment methods (such as tab/tape systems including MaxTab™) are covered in separate Venture instructions.

2. Important Notices

Jobsite Conditioning and Acclimation

Proper conditioning prior to installation is essential for all Venture Carpets products. The jobsite must be completely sealed (all exterior windows and doors properly installed) before beginning the installation process or before any floor preparations are performed.

The jobsite, along with the floor covering materials and adhesive, must be acclimated to a temperature between **18°C (65°F)** and **27°C (80°F)** and relative humidity from **35% to 65%** for at least **48 hours** before, during, and continuously for **48 hours** after the final installation.

The substrate temperature should be at least **-15°C (5°F)** higher than the dew point. These conditions are best achieved with a functioning HVAC system.

All carpet tiles and planks must be removed from their packaging and allowed to adjust to the jobsite temperature for **48 hours** prior to installation.

Product Inspection Requirements

All Venture Carpets products should be carefully inspected for damage, defects, color variations, or incorrect product prior to installation.

Venture Carpets **will not be responsible** for any costs associated with replacement or repair as a result of damaged or defective materials being installed when such damage or defects were identifiable prior to installation.

Installation of the product constitutes acceptance of the material and its appearance.

Any claims for visible defects must be made before installation begins.

Installation Procedures

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 contact Venture Carpets Technical Services before proceeding.

Warranty Information

The carpet tiles and planks are warranted in accordance with Venture Carpets' Commercial Product Warranty. Installation must be performed in strict accordance with these instructions to maintain warranty coverage.

EXCEPT AS EXPRESSLY PROVIDED IN THE COMMERCIAL PRODUCT WARRANTY, VENTURE CARPETS MAKES NO REPRESENTATION OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND HEREBY DISCLAIMS THE SAME.

Without limiting the foregoing, Venture Carpets will not be responsible for tears, burns, cuts, pulls, or other damage, deterioration, problems, or loss caused by abuse, neglect, misuse, improper installation, improper maintenance, flood, or installations over substrates where hydrostatic pressure or groundwater intrusion exists.

Moisture and pH testing at the installation site are the responsibility of the owner/general contractor, and issues related to or arising from excessive moisture and/or pH are specifically excluded from warranty coverage. The warranty also does not cover problems or damages arising from the use of non-approved adhesives or installation techniques.

Hazardous Materials Warning

Existing flooring materials and adhesives may contain asbestos or lead. Follow all applicable federal, state, and local regulations regarding the handling and disposal of hazardous materials.

For technical support, questions, or clarification:

**Venture Carpets
Technical Services Website:**

www.venturecarpets.com

These installation instructions are subject to change. Please check our website for the most current version before beginning installation.

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3. Reference Standards

The following standards and industry documents are referenced in these instructions and form part of the installation requirements:

ASTM F710	Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring (used here as best practice for concrete substrates)
ASTM E1745	Standard Specification for Plastic Water Vapor Retarders Used Under Concrete Slabs
ASTM F1869	Standard Test Method for Measuring Moisture Vapor Emission Rate (MVER) of Concrete Subfloor Using Anhydrous Calcium Chloride
ASTM F2170	Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using In Situ Probes
ASTM F1482	Guide to Wood Underlayment Products Available for Use Under Resilient Flooring
RFCI	“Recommended Work Practices for Removal of Resilient Floor Coverings” (Resilient Floor Covering Institute)
CRI-104	Carpet & Rugs Institute Standard for Installation of Commercial Carpet. <i>Installations should also be consistent with the principles of CRI-104 (Standard for Installation of Commercial Carpet)</i>

Note: Where there is any conflict between a generic standard and these Venture instructions for Venture products, these Venture instructions take precedence, provided they do not violate any applicable laws or regulations.

4. Roles & Responsibilities

OWNER / GENERAL CONTRACTOR	FLOORING CONTRACTOR / INSTALLER	VENTURE CARPETS
<ul style="list-style-type: none"> → Provide building and substrate conditions that comply with this document and applicable standards → Ensure that required moisture and pH testing is performed by a qualified party and that results are provided to the flooring contractor before installation → Confirm that a suitable vapor retarder was installed under on- and below-grade concrete slabs in accordance with ASTM E1745 	<ul style="list-style-type: none"> → Review this guide and all relevant adhesive Technical Data Sheets before starting work. → Inspect materials upon receipt and prior to installation; do not install materials with visible defects, incorrect product, or damage → Verify and document that substrates, site conditions, and test results meet these requirements prior to installation → Install the product strictly in accordance with this guide, relevant standards, and adhesive manufacturer instructions 	<ul style="list-style-type: none"> → Provides product, installation, and maintenance guidance → Offers warranty coverage as described in the applicable Venture Carpets commercial warranty, contingent upon correct installation and maintenance → Is not responsible for failures arising from improper substrate design, excessive moisture, non-compliant installation, or inadequate maintenance

5. Material Handling, Storage & Inspection

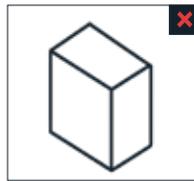
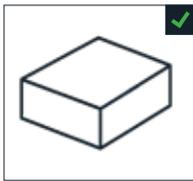
5.1 Receipt of goods

Immediately upon delivery, remove flooring cartons from pallets. If any cartons are damaged, note this on the shipping documents before signing and notify the carrier.

Do not install material from damaged cartons until it has been inspected and deemed acceptable.

5.2 Storage of product

- Store tiles and planks flat and level, never on edge



- Keep materials in their original packaging until ready for acclimation and installation
- Protect all materials (floor covering, patch/level compounds, adhesives, maintenance products) from freezing, overheating, or other temperature extremes during shipping and storage

5.3 Jobsite storage and acclimation

- Place unopened cartons of product in the installation area (or an adjacent area with the same environmental conditions) for at least **48 hours** prior to installation
- Areas must be fully enclosed, weather-tight, and conditioned between **18–27°C (65°F and 80°F)** during this period



48
Hours



18 to 27
°C

5.4 Inspection prior to installation

Carefully inspect product for visible defects (color, pattern, damage, incorrect product) before installation.

Any product with visible defects, wrong color, or damage must not be installed.

CONTACT YOUR VENTURE REPRESENTATIVE OR YOUR DISTRIBUTOR IMMEDIATELY

Important: Installation of the product constitutes acceptance of the material and its appearance.

Venture will not honor warranty claims for issues that should reasonably have been discovered prior to or during installation.

6. Site Conditions & Environmental Requirements

6.1 Sequence of work

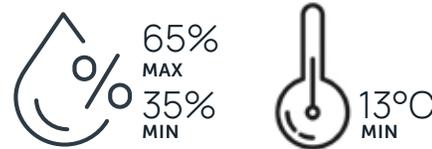
Install Venture Carpets modular floors **after all other trades have completed work that may damage, contaminate, or affect the flooring** (painting, drywall, ceiling work, mechanical, electrical, etc.).

6.2 Temperature and humidity

1. Maintain building temperature between **18–27°C (65°F and 80°F)** for at least **48 hours** before installation, during installation, and for 48 hours after installation



2. After this initial period, maintain the space at a minimum of **13°C (55°F)** and within a normal operating temperature range
3. Maintain relative humidity between **35% and 65%** where practical
4. If a temporary HVAC system is used, it must provide **continuous temperature and humidity control** at the specified levels for the specified duration



6.3 Ventilation

- Provide adequate fresh air ventilation **during and after** installation
- Use exhaust fans to draw air out of the installation area; do not blow air directly across wet adhesive or patch
- Do not use fans to force-dry adhesives or patching/leveling compounds, as this may impair performance

6.4 Protection from traffic

Protect installation areas from all traffic (trades, equipment, general public) before, during, and immediately after installation until the adhesive has cured per the adhesive manufacturer's recommendations.

7. Substrate Requirements – General

7.1 Condition of substrates

All substrates must be:

- Structurally sound and stable
- Clean, free from dust, dirt, paint, old adhesive, curing compounds, sealers, oils, grease, wax, asphalt, or any contaminant that may interfere with bonding
- Permanently dry
- Smooth and level, with no abrupt irregularities
- Free from active cracks or movement that could transfer through the floor covering

Note: Any surface irregularities may telegraph through and become visible in the finished floor.

7.2 Flatness

Follow applicable standards (e.g. **ASTM F710**) and project specifications for flatness. As a general guideline, smooth and level substrates should not vary by more than approximately **1/8" in 10' (3 mm in 3 m)** or as otherwise required by the adhesive manufacturer and project documents.

7.3 Patching and leveling

Use only high-quality, cement-based patching and leveling compounds that are approved by their manufacturer for use under resilient and modular flooring and are compatible with the selected adhesive.

8. Concrete Substrates

8.1 General

Concrete substrates must be prepared and evaluated in accordance with **ASTM F710**, which covers moisture testing, smoothness, flatness, strength, and vapor retarder requirements.

8.2 Vapor retarder (on-/below-grade)

For all concrete slabs on or below grade:

- A permanent and effective moisture vapor retarder with a minimum thickness of **0.010 in** and a permeance of **0.1 perms** or less, as described in **ASTM E1745**, is required directly beneath the slab
- The vapor retarder must be installed correctly and not compromised during construction
- The presence of a functional vapor retarder significantly reduces potential water vapor transmission but does not eliminate the need for moisture testing

8.3 Joints in concrete

Do not fill or bridge moving joints such as expansion joints, isolation joints, or other active structural joints with patching compounds or floor coverings. Modular flooring shall not be installed across these joints.

8.4 Moisture testing

All concrete slabs must be tested for moisture, regardless of age or grade level. The only acceptable test methods are:

- Calcium Chloride test – **ASTM F1869** (MVER)
- Relative Humidity test – **ASTM F2170** (in-situ probes)

Moisture meters, plastic sheet tests, and other non-standard methods are not acceptable for determining suitability for flooring installation.

8.5 Documentation

Test methods, locations, and results shall be documented and provided to the flooring contractor, general contractor, owner, and/or architect before installation proceeds.

8.6 Moisture conditions outside limits

If moisture test results exceed the allowable limits for the chosen adhesive and floor system (see Section 13), do not begin installation. Either:

- Allow the slab to dry naturally until within limits;
- Install a suitable **100%** solids epoxy moisture mitigation system in accordance with the mitigation system manufacturer's instructions
- Venture **does not endorse** any specific manufacturer but recognizes systems from several leading suppliers as examples (Ardex, Bostik, Koester, Mapei, etc.). The project team is responsible for selecting an appropriate system and ensuring compatibility with adhesives and flooring.

9. Wood & Panel Subfloors



9.1 Construction requirements

Wood subfloor systems must conform to **ASTM F1482** and applicable building codes.

A typical commercial wood system includes:

- Joist spacing of **16" (40.7 cm)** on center
- A double-layer subfloor/underlayment system providing a combined thickness of at least **1" (2.5cm)**

9.2 Clearance and ventilation

- Wood subfloors must be at least **18" (45.7 cm)** above grade
- Crawl spaces shall be well ventilated and protected with a proper ground moisture barrier to reduce humidity from soil

9.3 Unsuitable wood substrates

Do not install Venture Carpets products directly over:

- Lauan or lightweight underlayment panels
- Plywood with large knots or voids
- OSB
- Hardwood flooring
- Chemically treated wood (pressure-treated, fire-retardant, coated, etc.)
- Particle board, chipboard, flakeboard, fiberboard, Masonite™, pressboard, or similar unstable materials
- Where such materials exist, install a suitable underlayment-grade plywood (e.g., arctic birch, A/C plywood over the subfloor according to manufacturer and industry guidelines).

10. Gypsum Substrates

10.1 General use

Only properly formulated poured gypsum underlayments approved by their manufacturer for use under resilient/modular flooring may be used.

10.2 Prohibited uses

Do not install over trowel-applied gypsum patching compounds
Do not use poured gypsum underlayment over concrete slabs on or below grade for this application

10.3 Compressive strength

For commercial installations, gypsum underlayments shall have a minimum compressive strength of 3000 psi at 28 days. The underlayment must be mixed and installed in accordance with the manufacturer's instructions.

10.4 Drying and testing

Follow the manufacturer's recommended drying time.

Use only the moisture test method recommended by the gypsum manufacturer (often a specific moisture meter); calcium chloride testing (**ASTM F1869**) is not acceptable for gypsum

10.5 Sealing/priming

Before installing adhesive-applied floor coverings, gypsum underlayments must be sealed/primed according to the underlayment manufacturer's directions. Unsealed gypsum is excessively porous and may prevent proper adhesive performance.

10.6 Patching over gypsum

When patching or skim coating over gypsum:

- Use only patching compounds suitable for use over gypsum, following the compound manufacturer's instructions
- Priming of the gypsum surface may be required prior to patching

11. Existing Floor Coverings & Other Substrates



11.1 Existing resilient floor coverings

Venture Carpets does not recommend installing tiles or planks over existing resilient flooring.

11.1.1 Concrete subfloors

- Remove existing resilient floor coverings and adhesives completely
- Remove any floor patch beneath the adhesive layer
- Do not use chemical adhesive removers, as residues can impair adhesion
- Black asphaltic "cutback" adhesive may be scraped to a thin, well-bonded residue and then encapsulated with a cement-based patch
- leveler approved for such use
- All other adhesive types (carpet adhesive, VCT adhesive, epoxy, etc.) must be completely removed from concrete

11.1.2 Wood subfloors

Where existing resilient flooring and/or adhesive residue is present over wood subfloors, install an appropriate plywood underlayment as described in Section 9 before proceeding.

11.1.3 Hazardous materials (asbestos, lead)

Removal of existing flooring and adhesive must comply with all applicable regulations. Existing floors and/or adhesives may contain asbestos or lead. Many jurisdictions regulate the handling and removal of these materials. Follow the RFCI "Recommended Work Practices for Removal of Resilient Floor Coverings" and all relevant federal, state/provincial, and local regulations.

11.2 Other substrates

Terrazzo, stone, ceramic tile, and metal substrates must be covered with a suitable cement-based underlayment system installed per the underlayment manufacturer's instructions and in compliance with **ASTM F710**

Do not install over non-compatible substrates such as asphalt, bituminous or asphalt-saturated materials, or floor coverings made of (or containing) rubber.



12. Radiant Heated Floors

Venture Carpets modular products may be installed over hydronic or electric radiant heating systems where:

- The maximum surface temperature of the slab does not exceed **29°C (85°F)** at any time; and
- The system is designed, installed, and controlled according to manufacturer and code requirements



Prior to installation:

Lower or turn off the radiant heating system for at least **48 hours**

Maintain the room temperature at a minimum of **18°C (65°F)** before, during, and for at least **72 hours** after installation



48 Hours
Before



Installation

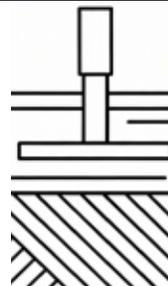


72 Hours
After

After installation:

Gradually raise the floor temperature so that the slab and floor covering warm up together.

Rapid temperature changes can cause bonding issues or dimensional movement.



13. Adhesives & Accessories

13.1 Approved adhesives

Depending on service conditions and project requirements, the following adhesives may be used for installing Venture Carpets tiles and planks:

- Venture Carpets Max 1000 acrylic adhesive
- Mapei Eco 811 (or other Venture-approved acrylic adhesives)
- Perma-Spray 2000 spray adhesive
- Mapei Ultrabond G21 two-part urethane adhesive

Always consult the adhesive manufacturer's current TDS for the latest recommendations and limitations. All adhesive-set installations require rolling the floor with a **100 lb (45–50 kg)** roller after the tile is set, to ensure full contact and embedment.

13.2 Porosity test

Before applying adhesive, determine whether the substrate is porous:

- Sprinkle a few drops of clean water on the surface
- If water is readily absorbed, treat the substrate as porous
- If water beads on the surface, treat the substrate as non-porous
- Follow the appropriate adhesive application method for porous or non-porous substrates

13.3 Venture Carpets Max 1000 Acrylic Adhesive

13.3.1 Application methods and coverage

On porous substrates, Venture Max 1000 may be used in:

- "Wet-set" mode (short open time) – see 13.3.3
- "Pressure-sensitive" mode (extended open time) – see 13.3.4

On non-porous substrates, use the pressure-sensitive method.

Typical coverage is approximately **125–175 ft²** per **U.S. gallon**, depending on substrate porosity. **Use:**

- 1/16" × 1/16" × 1/16" V-notch trowel for non-porous substrates
- 1/16" × 1/16" × 1/16" square-notch trowel for porous substrates

13.3.2 Moisture limits (concrete)

For installations using Venture Carpets Max 1000 adhesive, concrete substrates must meet the following criteria:

Test Method	Maximum Allowable
ASTM F1869 (MVER)	6 lb/1000 ft ² /24 h
ASTM F2170 (Internal RH)	82% or less
pH Range	7.0 to 11.0

13.3.3 Wet-set method (porous substrates)

- Apply adhesive with the recommended trowel
- Allow approximately **10 minutes** open time (dependent on site conditions)
- When the adhesive is still wet and stringy to the touch and transfers to the finger, begin installing
- Ensure full adhesive transfer to the tile backing. If adhesive no longer transfers to the finger, it is too dry; scrape off and apply fresh adhesive
- Work in small areas so tiles can be installed while adhesive is in the proper wet condition
- Lay field (full) tiles first; because cutting borders takes time, apply adhesive for border tiles after they are cut

13.3.4 Pressure-sensitive method

- Apply adhesive with a **10 mil nap roller**
- Allow the adhesive to dry to a tacky film that does not transfer to the finger when lightly touched
- Open time will vary with temperature, RH, and substrate porosity
- When adhesive is dry-to-the-touch with no transfer, place tiles into the adhesive bed

13.4 Perma-Spray 2000 Spray Adhesive

Perma-Spray 2000 is a spray adhesive offering:

- ✓ High tolerance for elevated moisture and pH
- ✓ Longer working time than many trowel adhesives
- ✓ Immediate traffic access once installation is complete
- ✓ Potential reductions in installation time

13.4.1 Coverage and limits

Typical coverage: approximately **160–190 ft²** per can, depending on application and substrate.

Test Method	Maximum Allowable
ASTM F1869 (MVER)	7 lb/1000 ft ² /24 h
ASTM F2170 (Internal RH)	85% or less

13.4.2 Surface preparation and application

1. Thoroughly clean the substrate by vacuuming and/or sweeping to remove dust and debris before spraying adhesive
2. Apply adhesive in accordance with the can instructions, ensuring an even film
3. Allow adhesive to dry until it no longer transfers to the finger when lightly touched. High humidity and low temperature will increase drying time
4. Open time is up to 8 hours after application; during this period, protect the adhesive film from dust and contamination
5. Once adhesive is dry, install the floor covering into the tacky film, applying firm pressure

13.5 Mapei Ultrabond G21 Two-Part Urethane Adhesive

Ultrabond G21 is recommended for installations where:

- ✓ The finished floor will experience frequent exposure to extreme hot or cold temperatures
- ✓ Heavy static or rolling loads are anticipated
- ✓ Custom designs, logos, or small pieces require high bond strength and dimensional stability

13.5.1 Coverage

Typical coverage for G21 is approximately **185–245 ft²** per gallon, depending on substrate and trowel.

13.5.2 Moisture limits (concrete)

Test Method	Maximum Allowable
ASTM F1869 (MVER)	5 lb/1000 ft ² /24 h
ASTM F2170 (Internal RH)	75% or less

13.5.3 Trowel and PPE

- Apply with a **1/32" × 1/32" × 1/32"** trowel, or as directed by Mapei's latest TDS
- Wear appropriate PPE (e.g. chemical-resistant gloves); avoid skin contact during mixing, application, and cleanup

13.5.4 Mixing and working time

- Pour all of Part B (liquid) into Part A (paste) and mix with a low-speed mixer as per manufacturer instructions
- Do not allow mixed adhesive to sit in the container; immediately spread onto the substrate
- Do not spread more adhesive than can be covered within approximately **40 minutes** (pot life) at normal temperatures

13.5.5 Installation

- Install floor covering into the adhesive while it is still fresh and wet (no waiting for dry-tack)
- Ensure full contact and then roll with a **100 lb roller** as per Section 16

13.6 MAXTAB® Installation Tab System

13.6.1 Description

MaxTab® is a discrete mechanical attachment system designed to secure modular carpet tiles and planks without continuous substrate bonding, allowing controlled floating behavior.

13.6.2 Approved Uses

MaxTab® may be used in:

- Office environments
- Access floor systems
- Retrofit installations over stable substrates
- Projects requiring removability or minimal substrate disruption

13.6.3 Prohibited Uses

Do not use MaxTab®:

- In areas subject to heavy rolling loads (forklifts, pallet jacks)
- Under fixed casework or permanent partitions
- In healthcare or wet-service environments unless specifically approved
- Over substrates with active movement, cracking, or instability

13.6.4 Substrate Requirements

Substrates must be:

- Structurally sound and dimensionally stable
- Clean, dry, and free of contaminants
- Flat per Section 7

MaxTab® does not compensate for substrate deficiencies.

13.6.5 Warranty Boundary

Failures resulting from excessive load, misuse, or improper system selection are excluded from warranty.

13.7 FUSEMAX® Seam & Perimeter Tape System

13.7.1 Description

FuseMax® is a pressure-sensitive seam and perimeter stabilization tape designed to:

- Control tile separation
- Manage expansion and contraction
- Maintain seam integrity in floating or hybrid installations

13.7.2 Approved Uses

FuseMax® may be used:

- At seams in floating or hybrid installations
- At perimeters to provide controlled restraint
- In combination with MaxTab® or adhesive systems

13.7.3 Limitations

FuseMax® is not a structural adhesive and shall not be used to:

- Replace full-spread adhesive where continuous bond is required
- Restrain excessive substrate movement
- Compensate for improper expansion allowances

14. Layout & Planning

14.1 General layout

Follow the layout specified by the owner, architect, or designer. Tiles and planks may be installed parallel or diagonal to the main room axis or walls.

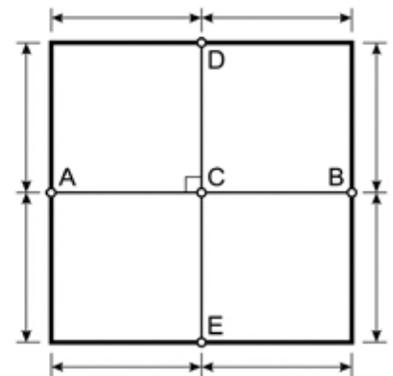
Venture Carpets products may be suitable for various installation patterns (e.g., monolithic, quarter-turn, ashlar, brick) – always consult product-specific documentation (architect folders, sample boards, or website) to confirm allowed layouts for each style.

14.2 Dry layout

Before spreading adhesive, dry-lay a representative section of the floor so the owner/specifier can confirm pattern, direction, and appearance.

14.3 Establishing layout lines

1. Measure the room and mark guides in pencil or chalk
2. Snap a chalk line between the midpoints of opposite walls (A-B)
3. Locate the center point (C) of line A-B and use the 3-4-5 method or a square/laser to create a perpendicular line D-E through point C



14.4 Checking borders

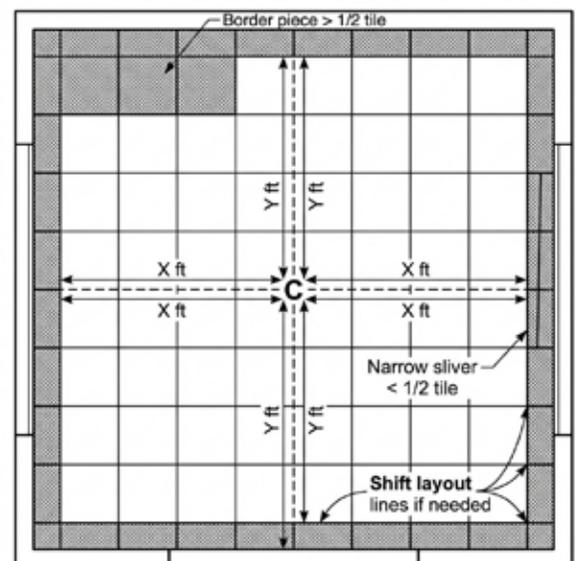
From center point C, measure towards the walls along the grid lines:

- Confirm that border pieces at perimeter walls will be at least half a tile/plank wherever possible
- If necessary, shift the layout lines to balance cuts and avoid narrow slivers

14.5 Final layout

After dry-laying and confirming pattern and border sizes, mark final guide lines in pencil or chalk.

These serve as the primary reference for installation.



14.6 Selective Install Precaution for Carpet Tile

Why Installers Must Choose Tiles Intentionally, Not Randomly from the Box :

In carpet tile installations, "selective install precaution" refers to the practice of evaluating and choosing each tile based on the overall layout, visual consistency, and desired design, rather than installing tiles in the order they come out of the carton.

Carpet tiles—especially those with texture, multi-tone yarns, or directional patterns—can have subtle variations between pieces. Proper selective installation ensures the floor looks uniform, intentional, and consistent with the design intent.

14.6.1 What It Means in Carpet Tile

Selective installation means the installer must:

- Open multiple cartons and blend tiles
- Visually inspect each tile before placement
- Place tiles strategically based on shade, texture, and direction
- Follow the layout and pattern instructions (quarter-turn, monolithic, ashlar, brick, herringbone, etc.)

It is not acceptable to simply pull tiles randomly from one box.

14.6.2 Why Carpet Tiles Require Selective Placement

Even high-quality carpet tiles have natural or manufactured variations:

Shade Variation

- Different dye lots or tufting characteristics can produce visible differences in color or tone.
- Texture or Pile Variation
- Cut and loop structures, tip-shearing, random patterns, or high-low textures can reflect light differently tile to tile

Directional Patterns

Most carpet tiles have:

- A tufting direction
- A pattern direction
- A pile lay direction
- If tiles are misoriented, the floor can appear patchy or inconsistent.

Batch Differences:

- Carpet tiles manufactured at different times, even within tolerance, may not match perfectly.
- Selective placement blends these natural differences across the room so they look intentional.

14.6.3 How to Perform a Proper Selective Install

Here are the standard professional steps:

Step 1 – Open multiple cartons

- Mix tiles from at least 3–5 cartons at a time
This prevents "blocks" or "bands" of darker or lighter tiles

Step 2 – Inspect each tile

Check:

- Shade consistency
- Pattern direction
- Tufting uniformity
- Face texture

Set aside any tiles that stand out visually—they may still be used in less critical areas or for cuts.

Step 3 – Follow the design layout

Look at the designer's specifications:

- Monolithic
- Quarter-turn
- Ashlar
- Brick
- Random

Lighting direction should also be considered, as it affects texture visibility.

Step 4 – Blend tiles as you install

- Do not lay all tiles from a single carton in the same area
- Pull tiles alternately from multiple stacks

Step 5 – Step back and review

Every 50–100 sq ft, installers should:

Stand up and view the floor from multiple angles
Adjust tile placement if any areas appear inconsistent

This prevents large-scale shading issues before they become visible to the customer.

FOR MORE INFORMATION ON SELECTIVE INSTALL, WATCH THIS VIDEO HERE :

14.6.4 The Purpose: Achieving the Intended Visual Outcome

Selective installation ensures that:

- The floor looks balanced and uniform
- Shade variations blend naturally
- Texture transitions appear intentional
- Directional patterns align properly
- The final installation matches the designer's visual concept

Without selective precautions, even premium carpet tiles can look patchy or flawed—leading to customer dissatisfaction and possible warranty issues.

14.6.5 Example: The Impact of Selective Installation

Without selective installation: If an installer pulls tiles straight from one carton, all tiles from that box may look slightly darker or have a slightly different pile angle. Installed together, they can create a visible panel or patch.

With selective installation:

- Tiles from multiple cartons are blended
- Variations scatter throughout the floor
- The visual effect becomes uniform instead of patchy

“ THIS IS THE PROFESSIONAL STANDARD—AND OFTEN REQUIRED BY MANUFACTURERS FOR WARRANTY COMPLIANCE ”

15. Installation – Setting Tiles and Planks

15.1 Substrate cleaning

Thoroughly sweep and/or vacuum the substrate to remove dirt, dust, and debris immediately before adhesive application.

15.2 Starting point

Begin installation at the intersection of layout lines (center point C), ensuring the first tiles/planks align precisely with the chalk lines

Work outward from this point, maintaining alignment at all times.

15.3 "Pyramid" installation method

- Starting at center, install tiles in a pyramid or step fashion, completing one quadrant at a time
- Continuously check that tiles do not drift off the guide lines
- Firmly butt each tile to adjacent tiles without forcing or bending them. If the first few tiles are misaligned, the entire installation will be affected
- In corridors and narrow spaces, it may be easier to work lengthwise from one end, using the center line as a guide

15.4 Cut edges and borders

- Whenever possible, avoid placing a fresh factory-cut edge directly against a cut edge if it produces an undesirable appearance; instead, adjust cuts for a consistent look
- Use a sharp utility knife and straightedge to cut tiles for a tight, neat fit
- In border areas that will be covered by base or molding, cuts may be made using a tile cutter or utility knife; ensure edges are fully supported

15.5 Working with adhesive

When using wet-set adhesive over porous substrates, first spread adhesive only in areas that will receive full tiles. After all full tiles in that area are installed, scribe and cut border tiles and then spread adhesive for those areas

When using pressure-sensitive or spray adhesives, ensure the adhesive has achieved the proper tack/dryness before placing tiles. Do not install into overly wet or contaminated adhesive

15.6 Setting and adjusting tiles

- Set each tile or plank carefully into the adhesive bed, avoiding excessive sliding that might displace adhesive or contaminate joints
- If repositioning is necessary, lift and reset the tile rather than shoving it
- Maintain tight, but not overly compressed, joints

16. Rolling, Traffic & Protection

16.1 Rolling

After tiles have been placed and aligned:

- Roll the entire installed area with a **100 lb floor roller** in both directions to ensure full adhesive transfer and bond strength
- Re-roll any areas where tiles have been lifted and reset

16.2 Initial traffic restrictions

Adhere to adhesive-specific restrictions:

For installations with Perma-Spray 2000 or Mapei Ultrabond G21, do not allow any foot traffic on the new floor for **at least 12 hours**, and do not permit rolling traffic or furniture placement for **at least 36 hours** after installation



No
Foot Traffic



12 Hours
After Installation



No
Furniture



36 Hours
After Installation

For other adhesives (e.g., Max 1000, Eco 811), follow the adhesive manufacturer's current TDS; when in doubt, a minimum **24–48 hour** cure period before heavy or rolling loads is recommended

16.3 Protection during construction

If construction activity will continue after flooring installation:

- Cover the floor with brown Kraft paper to protect from tracked soil and light foot traffic
- If rolling loads (carts, lifts) are expected, place plywood or hardboard panels over the Kraft paper to distribute loads
- Do not roll heavy equipment or furniture directly across a newly installed floor

WARNING: Failure to protect carpet before final occupancy will void warranty

17. Initial Maintenance

17.1 Initial Cleaning

The newly installed floor can be swepted or vacuumed without the use of a beater bar system. **Do not ever use a beater bar system vacuum**

See our warranty for Venture Carpets certified vacuum list.

Do not hot water extract the tile or plank for at least 4 days.

Maintenance shall follow the latest version of the maintenance instructions for Venture Carpets. For other types of cleaners and floor finishes, see maintenance instructions.

17.2 Entrance Matting

Because 90% of all dirt in a building comes in on footwear, we strongly recommends installing and maintaining entrance matting (preferably permanently installed) at all outdoor entrances (20-30 linear feet for major entrances; less for infrequently used entrances). Doing this will improve indoor air quality, reduce flooring maintenance costs, and lengthen the life of your floors.

17.3 Furniture

To minimize the chance of damage, proper chair pads protection must be used for chairs and other furniture that may side directly across the floor. Heavy objects such as equipment, appliances, fixtures and heavy furniture shall not be moved directly across the floor. Using protective boards will reduce the chance of damage in these cases.

17.4 Sunlight

Direct sunlight can damage most interior finishes so proper protection in the form of window coverings is recommended

*ASTM F 710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring, ASTM International, West Conshohocken, PA, 2003, www.astm.org.

Addendum

System Integration Addendum

For Modular Carpet Tile & Plank Installations

Purpose: This document supplements Section 13 of the Installation Instructions. It provides mandatory decision logic for selecting the appropriate adhesive or attachment system based on specific project conditions, load requirements, and environmental factors. This System Integration Addendum supplements Venture Carpets' Modular Carpet Gluedown Installation Instructions and establishes approved installation systems, including: Full-spread adhesive installations, MaxTab® mechanical attachment systems, FuseMax® seam and perimeter stabilization systems & Approved hybrid combinations of the above. This Addendum governs system selection, limitations, and warranty applicability. Where conflicts exist, this Addendum takes precedence for system-based installations.

1. GENERAL SYSTEM SELECTION PRINCIPLES

System Type	Typical Applications	
Glue-Down	Full-spread adhesive bond to substrate	Heavy rolling loads, healthcare, education, permanent installations
MaxTab®	Discrete mechanical attachment tabs	Office spaces, access floors, retrofit, fast-track projects
FuseMax®	Pressure-sensitive seam and perimeter tape	Dimensional control, floating behavior, perimeter restraint
Hybrid System	Combination of adhesive, MaxTab®, and/or FuseMax®	Transitional zones, phased installs, selective restraint

System selection shall be based on:

- Substrate condition and type
- Environmental stability
- Anticipated rolling and static loads
- Moisture risk profile
- Desired removability or future access

* No single system is universal.

** Selecting an inappropriate system constitutes misuse.

QUICK REFERENCE SUMMARY (ADHESIVE):

ACRYLIC (Max 1000, Eco 811) Standard offices, controlled environments, permanent bond.

URETHANE (Ultrabond G21) Healthcare, education, heavy rolling loads, extreme temperature swings.

SPRAY (Perma-Spray 2000) Fast-track projects, access floors, moderate moisture, releasable.

MaxTab® SYSTEM Floating install, full removability, retrofits, occupied spaces.

2. ADHESIVE PROFILE

Product	Type	Moisture Limits	Cure Time	Best Applications	Key Advantages	Restrictions
Max 1000 / Eco 811	Acrylic	82% RH 6 lb MVER	24-48 Hrs	General Office, Retail, Low Traffic	Cost effective, Easy to spread	No heavy rolling loads initially
Perma-Spray 2000	Spray Aerosol	85% RH 7 lb MVER	Immediate	Occupied spaces, Fast-track, Access Floor	High moisture tolerance, Foot traffic in 12h	Not for heavy rolling loads
Ultrabond G21	2-Part Urethane	75% RH 5 lb MVER	12-36 Hrs	Healthcare, Education, Entryways	Extreme bond strength, Temp resistance	Strict moisture limits, Short pot life
MaxTab®	Mechanical Tab	N/A (Substrate Dependent)	Immediate	Leased spaces, Access floors, Cubicles	Floating, No odor, Immediate use	No rolling loads, No inclines

Addendum

3. PRIMARY DECISION MATRIX

LEGEND: [★] Optimal | [✓] Approved | [Δ] Caution/Conditions | [✗] Prohibited | [STOP] Do Not Proceed

CRITERIA / SCENARIO	Max 1000 (Acrylic)	Eco 811 (Acrylic)	Perma-Spray (Spray)	Ultrabond G21 (Urethane)	MaxTab® (Tabs)	Notes
APPLICATION ENVIRONMENT						
Standard Office / Controlled	[★]	[★]	[✓]	[Δ]	[✓]	G21 is overkill for standard office
Healthcare / Clinical	[✗]	[✗]	[✗]	[★]	[✗]	Biological spill risk requires sealed bond
Education / High Traffic	[Δ]	[Δ]	[✗]	[★]	[✗]	Acrylics acceptable only in low impact zones
Corridors / Vestibules	[Δ]	[Δ]	[✓]	[★]	[✗]	Temp swings require Urethane or high-tack Spray
Access Floor Systems	[Δ]	[Δ]	[★]	[✗]	[★]	Do not permanently bond access panels (G21)
TRAFFIC & LOAD TYPE						
Standard Foot Traffic	[✓]	[✓]	[✓]	[✓]	[✓]	
Rolling Loads (Chairs/Carts)	[✓]	[✓]	[Δ]	[★]	[✗]	MaxTab not for rolling loads
Heavy Rolling (Forklifts/Jacks)	[✗]	[✗]	[✗]	[★]	[✗]	Must use Urethane for heavy loads
Point Loads (Server Racks/Safes)	[✗]	[✗]	[✗]	[★]	[✗]	Requires rigid bond
MOISTURE CONDITIONS (MEASURED)						
RH ≤75% / MVER ≤5 lb	[✓]	[✓]	[✓]	[✓]	[✓]	
RH 76-82% / MVER 5-6 lb	[✓]	[✓]	[✓]	[✗]	[✓]	Exceeds Urethane limits
RH 83-85% / MVER 6-7 lb	[✗]	[✗]	[★]	[✗]	[✓]	Spray adhesive only
RH >85% / MVER >7 lb	[STOP]	[STOP]	[STOP]	[STOP]	[STOP]	Mitigation Required
CLIMATE / TEMPERATURE						
Unconditioned / Swings	[✗]	[✗]	[Δ]	[★]	[✗]	Acrylics fail in temp swings
Radiant Heated Floor	[Δ]	[Δ]	[✓]	[✓]	[✓]	Max surface temp 85°F
PROJECT TIMELINE						
Fast-Track / Immediate	[Δ]	[Δ]	[★]	[✗]	[★]	Urethane requires long cure
SUBSTRATE TYPE						
Concrete	[✓]	[✓]	[✓]	[✓]	[✓]	Verify moisture
Gypsum	[✓]	[✓]	[Δ]	[✗]	[✓]	Must be primed/sealed
Access Panels	[Δ]	[Δ]	[★]	[✗]	[★]	Urethane locks panels permanently

[!] CRITICAL STOP CONDITIONS - DO NOT PROCEED

No adhesive system is approved if ANY of the following conditions exist:

- Measured Moisture exceeds ALL limits (RH > 85% or MVER > 7 lb)
- Substrate is structurally unsound, cracking, or crumbling
- Temperature is outside 65°F - 80°F (18°C - 27°C) range during installation
- Substrate is Prohibited Material: Lauan, OSB, Particle Board, Chipboard
- Active water intrusion, hydrostatic pressure, or uncontrolled moisture source
- Chemical contaminants (oil, grease, solvents) present on slab

4. MOISTURE THRESHOLD QUICK REFERENCE

Adhesive System	Tolerance Level	Max RH (ASTM F2170)	Max MVER (ASTM F1869)
Perma-Spray 2000	High	85%	7 lbs
Max 1000 / Eco 811	Standard	82%	6 lbs
Ultrabond G21	Strict	75%	5 lbs

5. HYBRID SYSTEM CONSIDERATIONS

For complex installations, hybrid approaches may be required:

- Transitional Zones: Use FuseMax® tape at transition points between glued own and floating areas.
- Perimeter Locking: When using MaxTab®, it is recommended to glue down the perimeter tiles (approx. 2-3 rows) using pressure-sensitive adhesive for added stability.
- Heavy Traffic Corridors: Glue down corridors with Max 1000 while using MaxTab® in adjacent cubicle areas to facilitate future repairs.

6. WARRANTY & RESPONSIBILITY

IMPORTANT: Adhesive selection is the responsibility of the installer and general contractor based on actual site conditions.

- Warranty coverage applies only when systems are used within their defined scope
- Failure due to misuse, overloading, or incompatible substrates is excluded
- Venture Carpets does not warrant performance where system selection contradicts this Addendum

Selection of an adhesive system that contradicts the above (e.g., using Acrylic in a Hospital or Urethane on high-moisture concrete) constitutes **INSTALLATION MISUSE**.

Failures resulting from improper selection are NOT covered under the Venture Carpets Inc. product warranty.