

INSTALLATION OF CARPET USING THE DOUBLE-GLUE APPLICATION

Proven Methods of Installation Prepared by the CFI

LIABILITY WAIVER

The information contained in this handout is to be used as recommended guidelines. It is based on the best information available at the time of publication; always subject to revision. No guarantees are made as to results and CFI assumes no liability or responsibility in connection with the use of the information. It is suggested that you test all procedures before widespread use to determine results in your specific situation, as every circumstance is different. Information is provided as a guide and is not intended to take the place of good judgment, common sense or the manufacturer's written guidelines. **ALWAYS follow adhesive, cushion and carpet manufacturers' guidelines.**

DOUBLE-GLUE INSTALLATION SPECIFICS

*Avoid problems that turn a profitable installation into one that loses money and customers!
These guidelines assist estimators, dealers, contractors and installers with a successful installation!*

DO NOT CUT CORNERS!

PROFESSIONAL INSTALLATION

- Engage the services of only professionals who are knowledgeable concerning this type of installation and require proof of previous jobs.

KNOW YOUR COSTS!

- PRIOR to submitting a quote for the cost of a double-glue application, research ALL the costs associated with professional products and installation.

SPECIFIED CARPET

- PRIOR to purchasing carpet for a double-glue installation, make certain the manufacturer of the carpet states in writing that the carpet is approved for a double-glue carpet application

SPECIFIED CUSHION

- Use only cushion that is specified by the manufacturer for this type of installation

SPECIFIED ADHESIVES

- Use only adhesives that are specified by the manufacturer

CONTRACT INSTALLATION

- The double-glue method of carpet installation is ideal for commercial, hospitality and patterned carpet applications

RESIDENTIAL INSTALLATION

- Using the double-glue method of installation allows the installation professional an advantage when installing borders, insets, specific types of carpet and in larger areas

PATTERN TOLERANCES

- It is very important that the flooring contractor check for pattern tolerances prior to cutting the carpet. If the carpet is not within the manufacturer's stated tolerances, the time required for installation is greatly increased.

PROPER SURFACE PREPARATION IS CRUCIAL!

FOLLOW THE RULES! FIVE IMPORTANT keys to remember!

Flooring contractors might miss 1 and be successful, but if they miss 2 of the following keys; **the job will fail!**

1. Acclimation
2. Floor preparation
3. Use of proper adhesives and correct notched trowels
4. Limit traffic 24/48 hours
5. Rolling (to assure proper transfer of adhesive)

CFI DOUBLE-GLUE INSTALLATION PROVEN METHODS

- A double-glue installation is a method of adhering a separate cushion to the floor with adhesive, followed by a total adhesive bonding of the carpet to the cushion.
- Prior to purchasing carpet for a double-glue installation, contact the manufacturer of the carpet for a written statement that the carpet is approved for this type of installation.
- The double-glue type of installation is recommended for commercial use in large areas where proper powerstretching is difficult to achieve and is also an ideal method if carpet receives unusual, excessive or rolling traffic. Using this method also provides the installation professional with an advantage when installing borders both in commercial and residential applications.
- Carpet performs better over cushion, as opposed to the direct-glue method and protects the investment. The stability of the system by adhering cushion directly to the floor and adhering the carpet to the cushion eliminates seam peaking and the need for restretching.

*******Every carpet has unique characteristics and each carpet installation project should be carefully evaluated to determine proper application of this standard***

SECTION ONE - Products

A. CARPETS SUITABLE FOR DOUBLE-GLUE

1. Minimum of **10-pick** – **Polypropylene** secondary backing
 - Less contamination of fillers from SB latex will occur
 - Provides greater surface to which the adhesive can bond
2. Minimum of **8-pick** – **Staple** polypropylene secondary backing
 - Constructed of staple yarn
 - Texture of the staple yarn is compatible with adhesive bonding
3. Woven carpet with manufacturer-applied sizing is also acceptable (CAUTION: Woven carpets that have been constructed using jute warp or weft cords is not acceptable for this type of installation because of shrinkage)
4. Unitary-backed carpet is not recommended

B. CARPET CONSTRUCTION RECOMMENDATIONS – CHECK WITH MANUFACTURER

1. Constructed of a straight-row stitch
2. Minimum ten-gauge yarn construction

C. CUSHION RECOMMENDATIONS – CHECK WITH MANUFACTURERS

Only cushions that are approved by the cushion manufacturer are suitable for this application

1. Slab Rubber –¼” 68-ounce minimum
2. Urethane Foam blended and bonded – not to exceed 3/8” in height and minimum of 10 lbs.
3. Synthetic Fiber 32-ounce minimum with plastic film fused to each side

D. ADHESIVE RECOMMENDATIONS – CHECK WITH MANUFACTURERS

1. Use only adhesives that are recommended and designed by the manufacturer for a double glue application.
2. **Cushion-to-Floor Adhesives** – Pressure-sensitive adhesive is recommended, but a manufacturer-recommended multi-purpose is also acceptable.
3. **Cushion-to-Carpet Adhesives** – Premium multi-purpose that is high in solids and recommended by the adhesive manufacturer

E. TROWEL or SPRAY APPLICATION RECOMMENDATIONS

1. **TROWEL** (floor to cushion) - Recommended: 1/16” x 1/16” x 1/16” square-notched trowel
(check with carpet and adhesive manufacturers)

TROWEL (cushion to carpet) - Recommended: 1/8” x 1/8” x 1/16” U-notched trowel
(check with carpet and adhesive manufacturers)

2. **SPRAY** (floor to cushion) - Pressure sensitive or acrylic adhesive – manufacturer recommended
SPRAY (cushion to carpet) - Manufacturer-recommended adhesive. Completely cover the substrate and mist the backing of the carpet to achieve a total bonding of the two products
3. **ROLLER** – The application of adhesives with a roller is **not** recommended *(check with manufacturers)*

F. TACKSTRIP RECOMMENDATIONS

1. Tackstrip can be used, but is not necessary. If tackstrip is not used, it is recommended that wallbase be installed. If vinyl or rubber wallbase is used, it must have toe.
2. If tackstrip is used, the carpet edges can be tucked into the gully and secured without the use of wallbase. This procedure positions and holds the carpet in place during the curing of the adhesive.
3. If preexisting tackstrip is properly installed, it is not necessary to remove in order to successfully install a double-glue installation.
4. Tackstrip also assists during patterned carpet alignment by maintaining stretch as needed.
5. If difficult situations should arise, the use of tackstrip will assist in solving the problem.
6. Use shorter pinned tackstrip with lower-pile height carpets. If not available, shorten the height of the pins by using felt paper, secondary ActionBac backing or similar products.

SECTION TWO – Requirements of the Floor Covering Contractor

1. Submit proof of a minimum of five-year's experience installing commercial installations, preferably a CFI Certified Installer with a Commercial-II or above certification.
2. Submit complete list of installers who will be involved with the flooring installation
3. Installation contractor will be held accountable to ensure that a qualified and a knowledgeable installation team is employed that adheres to the correct and recommended installation procedures.
4. Comply with all OSHA and EPA, local and national government regulations.
5. Read and understand the specifications of a double-glue installation and adhere to the manufacturer's written guidelines.
6. Use all specified materials **WITHOUT DEVIATION FROM SPECIFICATIONS**. If contractors deviate from specified materials, they assume the responsibility for the performance of these products.
7. Inspect all carpet and cushion to insure that merchandise received is in agreement with the ordered products. Unroll carpet and check for visual defects. If a problem is detected, installation should not proceed without WRITTEN authorization from a responsible party.
8. Maintain record of all purchased supplies used during installation for future reference.

It is understood that defects may not surface prior to installation. However, it is extremely important due to the replacement cost of a double-glue installation that the flooring contractor report visible defects **immediately**.

SECTION THREE – Installation Tools and Supplies

The following list includes the majority of tools and supplies that are necessary for the installation.

1. Basic installation hand tools
2. Kneekicker
3. Powerstretcher
4. Powerstretcher with cottonhead when stretching loop-pile carpet and aligning patterns.
5. Deadman
6. Six-inch smooth roller
7. Six-inch starred roller or carpet tractor
8. 35-pound roller
9. Dust broom and vacuum
10. Stay nails
11. Dry line / string line - a visual aid to assist in proper pattern alignment
12. Wall trimmer designed for direct-glue application or standard wall trimmer if tackstrip is utilized

13. Seaming Iron / Radio-wave seaming tool
14. Restretcher – Pattern Alignment Tool
15. Professional glue-gun and adhesive sticks
16. Row Cutter – Cushion Back
17. Row Cutter – Loop Pile
18. Row finder
19. Seam sealer
20. Seaming tape designed for double-glue installation
21. Stiff broom/ lean on roller- used to set cushion into adhesive
22. Trowel (Floor to Cushion) - Recommended: 1/16" x 1/16" x 1/16" square-notched trowel
(check with adhesive and carpet manufacturers)
23. Trowel (Cushion to Carpet) - Recommended: 1/8" x 1/8" x 1/16" U-notched trowel
(check with adhesive and carpet manufacturers)

SECTION FOUR - Preparation

A. PREPARATION PRIOR TO INSTALLATION

1. The specifier is responsible for the selection and ordering of sufficient materials to ensure that the choices are suitable for the substrate and/or area in which they are to be installed.
2. Consult the manufacturer(s) for detailed information. The manufacturer's specifications are ALWAYS the primary source of for installation instructions. Follow these recommendations in all areas of installation, as well as the guidelines concerning ventilation that must be addressed prior to the installation date.
3. Allow additional time and expertise for the installation of patterned goods.
4. A detailed, scale drawing of the area or an architectural drawing is essential to determine:
 - Roll sizes and dye lot specifics
 - Pattern direction
 - Edge treatments and moldings
 - Quantity of installation supplies, including if required, flooring adhesives
 - Seam locations
5. Detailed drawing should direct attention to keeping seams at a minimum. To achieve a professional installation, refer to this drawing when the carpet roll sizes are ORDERED.
6. Specify transitions – Protect all carpet edges between adjoining floor surfaces.

7. Specify wall base if required - For this type of installation if tackstrip is not used, it is recommended that wood base, rubber or vinyl cove base with toe or carpet wall base be used along walls to keep carpet secured around edges.
8. Specify **pile direction** which must be uniform and allow the carpet to lay in the same direction.
9. Whenever possible, follow **roll sequence** depending on the job layout. Dye lots are not to be mixed.

B. SEAMS

Seams should:

- Run lengthwise in major areas parallel to the traffic flow
- Run into natural and artificial light sources
- Avoid major pivotal / traffic areas
- Avoid areas that intersect perpendicular to doorways and entrances

Seams should always be sealed unless the manufacturer's directions specify otherwise.

C. JOB SITE RECOMMENDATIONS

1. Prior to arrival of Installation Contractor, the Owner or the General Contractor is responsible for providing an acceptable substrate. This includes the avoidance of other trades and all traffic that interferes with the installation and may result in soiling, adhesive failure, appearance issues or delamination.
2. Carpet, cushion and adhesives are to be installed according to the specifications outlined by the product manufacturers. This includes, but is not limited to substrate preparation requirements, the use of sealers, specification for concrete substrates, the slab temperature, ambient temperature and relative humidity. It is the responsibility of the owner and/or general contractor to ensure these specifications are met and maintained before, during and following installation.
3. General contractor is to submit *PRIOR* to commencing the installation information stating moisture and alkalinity testing results, as well as sealers or sealants that have been previously used on the substrate. These can play a critical role in the long-term success of an installation.
 - **Alkalinity**-The presence of excessive surface alkali can destroy most floor covering adhesives. Concrete sub-floors (substrates) with a pH greater than 9 require corrective measures before carpet installation using adhesives.
 - **Moisture Vapor Emissions using Calcium Chloride test method** - This test measures moisture vapor emissions at the surface of a concrete substrate using a quantifiable formula. Most carpet and adhesive manufacturers require that carpet be installed only if the moisture emission rate as determined by the anhydrous calcium chloride test is not more than 3 lbs/1000 sq. ft. / 24 hours. American Standard Testing Materials ASTM F-1869-04, ASTM f-710

- **Moisture testing using rH In-situ probes-** The use of In-situ relative humidity probes is another test method that manufacturers are recognizing as a quantifiable test method. This test method is a destructive test measuring the relative humidity of the interior of the slab. Refer to manufacturer for acceptable in slab relative humidity level. Many manufacturers accept 75% rH ASTM F-2170-02
4. General contractor is responsible for any discoloration, dark spots such as paint or oil or materials that could contaminate the concrete slab and cause the adhesive not to properly adhere.
 5. If the slab is found to be outside the Manufacturer's parameters, it is the responsibility of the owner/general contractor to bring the slab into compliance.
 6. Temporary heat sources do not properly warm the substrate and may lead to additional problems in the future and are therefore, not acceptable.
 7. During installation, the HVAC system must be fully operational to maintain proper temperature and allow for air circulation.
 8. If flooring contractor is instructed to commence work by an architect, general contractor, dealer or owner, in regard to unacceptable site conditions, including, but not limited to those stated above and to include proper floor preparation, the floor covering contractor should be relieved of any liability, including holes, levelness or deviations. It is in the best interest of all parties that the items directly related to site conditions be documented by the flooring contractor. It is suggested that a **NOTICE, PROTEST AND ASSUMPTION OF RISK** document be prepared by a legal entity.
 9. Manufacturer's directions are to be followed concerning installations over radiant-heated floors.

Installation Contractor is to request all pertinent information prior to commencing the installation.

1. Flooring contractor is to inspect and mark areas that may hamper the installation process.
2. To achieve the best possible installation, all materials should be acclimated to room temperature a minimum of 24-hours prior to installation.

The flooring contractor has **NO** control over the following conditions, but must verify:

- Temperature in the area that must be between 65 - 95 F degrees.
 - Relative humidity that is recommended to be between 10% and 65%
 - The SLAB temperature of a minimum of 65-degrees F twenty-four hours PRIOR to starting the installation
 - The indoor temperature that should never fall below 55-degrees F, regardless of the age of the installation.
3. At all times, the installation and materials must be protected from extreme conditions.
 4. All areas to receive flooring must be free of other trades and workers that hamper the proper installation procedures.

D. RECOMMENDATIONS FOR STORAGE OF MATERIALS

1. Store carpet on DRY flat surface, and not draped over 2x4's or anything that creates a crease in the carpet.
2. Carpet should not be stacked more than three rolls high.

3. Do not store materials where they will be subjected to outside elements, such as covered by a canvas or in like manner. They are to be stored in a dry space and protected from soil, contaminants, moisture and extreme conditions. Materials are not to be stored in an unheated trailer, unless they are acclimated to room temperature PRIOR to installation.
4. If it becomes necessary to bend or fold rolls of carpet, upon arrival at the jobsite unroll and lay carpet flat immediately. **ALWAYS** attempt to avoid this if at all possible.

E. ACCLIMATION OF CARPET

1. Allowing the carpet to acclimate prior to installation may minimize pattern distortion and also contribute to a more successful installation of patterned materials.
2. If possible, cut the carpet 24-48 hours prior to the installation.
3. Dry lay carpet into areas to be installed and allow the carpet to acclimate.
4. By allowing the carpet to acclimate, the carpet has the capability of relaxing and regaining its original shape that may have been altered during shipping and/or storage

Acclimation in the “Real World” of Installation

NOTE: Although the conditioning or acclimation of carpet is highly recommended prior to installation, “real world” situations may dictate otherwise.

Numerous Variables **DO NOT** Allow for Acclimation

- Other trades in the installation area
- No designated areas for cutting the carpet
- Potential for theft if materials are left on premises
- Time constraints of installation that do not allow the carpet to be dry laid
- Other circumstances pertinent to the site

If acclimation of product cannot be achieved, contact the manufacturer immediately to see what course of action will be necessary. If flooring contractors deviate from proper acclimation times, they assume responsibility for performance of products. Acclimation of products needs to be addressed at the time of the bid.

Date, temperature, HVAC condition, storage area, and acclimation time frame, should be documented for future reference in the event that an installation-related problem should arise concerning any of these issues.

SECTION FIVE – Installation of the Cushion

A. INSTALLATION OF CUSHION WITH USE OF A TROWEL

Use only cushion recommended by the manufacturer for a double-glue installation

1. Installation of cushion:
 - a) Whenever possible, always install the cushion at 90-degree angle from the lay of the carpet. If not possible, always offset the carpet seams at least six-inches from the cushion seams.

- b) Rough cut the cushion prior to the application of the adhesive
- c) Position the cushion flat
- d) Fold back the cushion in order to apply the adhesive
- e) Secure the cushion to the floor with a pressure-sensitive adhesive applied with a **1/16" x 1/16" x 1/16" square-notched trowel**. *(Check with manufacturers)* **CAUTION:** The notch size **MUST** be maintained throughout the installation
- f) Pressure-sensitive adhesive is to be dry to the touch, before the cushion is placed into it. If multi-purpose is recommended, place cushion into adhesive after proper open time. Appropriate open-time varies with environmental conditions, substrate porosity, backing system, adhesive type and manufacturer's recommendations.

The use of fans can help minimize the length of time necessary to allow for the adhesive to flash off. Be aware that use of a fan directed at the adhesive will cause the adhesive to "skin" over and some areas to dry more rapidly than others. Use the fan for circulating air throughout the area by aiming the fan upward away from the adhesive.

- g) There are to be no gaps in the edges of the cushion
- h) Cut cushion net at the wall with no voids. The material is not to be forced into a compression fit; it must lay in a natural position and cannot be stretched.
- i) The use of tape on cushion seams is not recommended.
- j) **IMPORTANT:** Do not leave floor void of adhesive next to wall. Apply adhesive in a uniform manner to cover this area.
- k) Apply minimal amount of pressure to push bubbles away so cushion will lay flat and the adhesive will be transferred onto the backing of the cushion. A lightweight lean-on roller or stiff broom is used for this procedure.
- l) Once the cushion is secured to the floor, it is to lay flat and the seams butted together firmly.

B. INSTALLATION OF CUSHION WITH THE SPRAY SYSTEM

This is an acceptable method of installation when performed by a spray certified installation technician using materials that are approved for this type of application by the manufacturer.

SECTION SIX – Installation of the Carpet

A. Basic Installation Procedures

1. Identify the backing and secure any installation products that are required by the manufacturer
2. If patterned carpet is to be installed,
 - Measure and count the patterns along the length to determine pattern elongation
 - Measure and count the patterns across the width to make sure a full pattern is available for pattern matching at each selvage edge

3. If installing in areas of corridors and rooms, install corridors first then install rooms. Arrange cuts to install the longest areas first. If pattern elongation/run-off occurs, stretch the short pattern to the longer pattern with the use of a dead-man and powerstretcher, pattern stretcher or knee kicker, and stay nail if necessary. Flooring contractors may need to stretch on either side of the seams, depending on the location of the pattern elongation/run off.

B. SEAM CONSTRUCTION USING HOT-MELT SEAMING TAPE

1. Always reference the seaming diagram
2. Do not use the factory edges to construct seams without written instructions from the manufacturer of the carpet.
3. The majority of carpets are cut from face, running a row and using an appropriate cutter
4. Do not use a cushion-back cutter for row cutting without protecting the cushion from damage.

C. WIDTH CUT SEAM

1. In the majority of applications, a sharp knife, straightedge and square are required when constructing seams across the width of the carpet. **Always** run a row, whenever possible.

NOTE: WIDTH SEAMS SHOULD BE KEPT TO A MINIMUM

D. SEAMS CONSTRUCTED USING HOT-MELT SEAMING TAPE

1. After the carpet is cut, position the center of the seaming tape directly under the seam.
2. Use only seaming tape specifically designed and recommended for double-glue installation. Check with the manufacturer for seam tape recommendation.
3. Apply appropriate seam sealer to the thickness of the primary and secondary backings on BOTH sides of the edges to be seamed.
4. If the double-glue seam tape is not manufactured with hot-melt adhesive extended to the edge of the paper:
 - Trim the unfinished edge prior to using or
 - Trowel adhesive under and on top of the exposed paper

E. ADHESIVE APPLICATION

1. Position carpet seams at 90-degree angles to the seams in the cushion. If not possible, offset the seams in the cushion and the carpet by a minimum of 6-inches.
2. Fold carpet back and spread adhesive up to the edge of the seaming tape.
3. A **1/8" x 1/8" x 1/16" notch U-shaped trowel** is recommended (*check with adhesive and carpet manufacturers*). This is the standard notched trowel for smooth-backed carpet. When bidding, keep in mind that a U-shaped trowel leaves more adhesive on the substrate than a V-shaped trowel notch. Refer to the adhesive manufacturer for proper spread rates of adhesive.

4. When applying adhesive, hold the trowel in the correct position to apply the proper amount of adhesive. Slide it across the top of the cushion with minimal amount of pressure.
5. Begin by applying adhesive up to edge of seaming tape and work away from the area.
6. When the adhesive becomes tacky, lay the carpet into the adhesive. Seams are to remain butted together. Appropriate open time varies depending upon environmental conditions, backing system, adhesive type and manufacturer's recommendations
7. The use of fans can help minimize the length of time necessary to allow for the adhesive to flash off. Be aware that use of a fan directed at the adhesive will create issues. The top surface of the adhesive dries more rapidly, creating a "skin." When this occurs, the adhesive underneath does not allow the moisture to "flash off" properly.

Use the fan for circulating air throughout the area by aiming the fan upward away from the adhesive. Controlling the rate of open time with fans will allow for the necessary slip time to make adjustments. This is especially critical when working with patterned materials

8. Periodically, check to ensure that both the cushion and the carpet backing are completely covered with adhesive to achieve a total bonding of the two products.
9. Make necessary adjustments at this point with the use of a kneekicker, restretcher or powerstretcher and hold the carpet in position with the use of stay nails. If installing over radiant heated floors, the use of fasteners may penetrate into the electric system, causing an electrical short or puncture the pex tubing, causing leaks and costly repairs.

F. SEAMING PROCEDURES

1. The temperature of the iron will vary according to the quality of tape, type of seaming iron and the type of carpet and backing. **EXCEPTION:** To achieve a good transfer for rough backed carpet, it may be necessary to use a heavier tape and a heavier notched trowel. Always follow manufacturer's recommendations.
2. A star roller or carpet tractor is **NOT** to be used on cut-pile carpet. It is acceptable on loop-pile carpet. The use of a six-inch roller is recommended to ensure the transfer of the thermoplastic onto the backing of the carpet.
3. When multiple breadths of carpet are required, dry lay as many breadths as possible.
4. Align the pattern, starting in the center of each breadth.
5. If pattern alignment is satisfactory, fold back sections approximately six-feet.
6. Apply adhesive using 1/8" x 1/8" x 1/16" U-notched trowel (*verify with adhesive and carpet manufacturers*)
7. If patterns do not align and pattern runoff occurs after attempting to match at the center of the pattern, apply adhesive to within 18-inches of each side of the seam.
 - a. Lay the carpet into the adhesive before it gets tack to allow more time for proper alignment of patterns. This will allow the sections to move easily. Align the patterns and use stay nails to hold the match in place.

8. After seam is completed, spread the adhesive to within 18-inches of the next seam. Repeat above procedure.
9. It may be necessary to utilize other methods if pattern bow or pattern skew are factors. Contact CFI office for detailed applications.

G. PROCEDURES TO FOLLOW AFTER SEAMING IS COMPLETED

1. Properly trim the edges of the carpet at the wall with a glue-down wall trimmer if there is no tackstrip installed and a traditional wall trimmer if tackstrip is utilized.
2. Transitions – When adjoining a double-glue installation to a surface where no transition bars are used, apply seam sealer to the adjoined surface to ensure that the edges of the carpet are sealed. This avoids edge raveling and curling.
3. Roll the carpet in four directions using a lightweight roller that does not exceed 35-pounds. This ensures equal transfer of the adhesive to the backing of the carpet and to the substrate to achieve the proper bonding requirements.
4. If quarterround or wallbase is present, remove and extend the carpet underneath. If not present, install quarterround or wallbase. An optional method is the installation of tackstrip to secure the carpet to prevent the edges from curling due to the extreme variances in temperature around the walls that are exposed to outside conditions.
5. Use an appropriate solvent on a white cotton towel (never apply solvent directly to face pile) to remove any adhesive from face pile.

SECTION SEVEN – Patterned Carpet Installation

A. INSTALLATION OF PATTERNED CARPET

NOTE: All manufacturers do not use the same tolerances. As carpets possess different characteristics, consideration must be allowed for each type. If necessary, check specifics with the carpet manufacturer.

1. Prior to cutting the carpet, check bow, skew and pattern elongation according to manufacturer's tolerance. If tolerance is not stated and should exceed the following, stop and consult with the manufacturer: **Estimator and installer should be aware of the pattern repeat and the manufacturer's printed pattern tolerance of the carpet to be installed.**

Note: If a problem is evident and the flooring contractor is instructed to proceed with the job, written confirmation to do so should be received.

2. Lay the carpet in the designated area.
3. When preparing to construct the seam, begin by aligning the patterns at the midpoint of the seam to minimize pattern runoff.
4. Fold sections of carpet back on each side and spread adhesive using proper-size notched trowel.
5. Lay the sections into the adhesive after shorter open time; dependent on site conditions. This allows movement of patterns for alignment.

6. Seal the edges with the appropriate seam sealer.
6. Using kneekicker, deadman and powerstretcher, align the pattern while constructing the seam and use stay nails to hold the carpet. *NOTE:* To align the pattern and to utilize the slippage in the adhesive, construct the seam as soon as possible. Stay nails are used on wood or concrete substrates to hold the pattern on line.
7. Fold the carpet back until the adhesive is visible.
8. Spread adhesive out six additional feet or to the wall.
10. Draw the dry line (string line) across the designated pattern points to align the pattern.
11. Repeat procedure as necessary until job is completed.
12. Potential problems may surface from laying into the adhesive too soon. Be aware that even though the need for movement of the carpet is necessary to align patterns, the adhesive can be displaced or driven into the backing of the carpet; compromising the transfer of the adhesive from the carpet to the cushion IF immediate foot traffic or rolling traffic is allowed on the completed installation.

SECTION EIGHT – Stair Upholstery

STAIR UPHOLSTERY PROCEDURES

1. Position tackstrip on the tread and riser as with a conventional waterfall type of installation.
2. Install specified cushion that is suitable for stair upholstery.
3. Extend cushion completely over bullnose; which is to be a rounded radius.
4. After the cushion is adhered, apply the double-glue adhesive on top of the cushion.
5. Install carpet into wet adhesive, this will soften the carpet backing, making it become pliable and easier to stretch.

Reminder: Potential problems may surface from laying into the adhesive too soon. Be aware that even though the need for movement of the carpet is necessary to align patterns, the adhesive can be displaced or driven into the backing of the carpet; compromising the transfer of the adhesive from the carpet to the cushion IF immediate foot traffic or rolling traffic is allowed on the completed installation.

6. It is recommended that all stair carpet be precut and dry fitted before commencing the stair installation.
7. Additional carpet is ALWAYS required when matching a pattern on the staircase.

SECTION NINE – Following the Installation of the Carpet

1. At the point of sale, inform the owner that caution tape is to be placed to alert others that floor **CANNOT** be walked on for 24-48 hours following the installation.

2. The carpet is not to be cleaned for a period of thirty days following the completed installation.
3. Do not use plastic to protect newly installed carpet. Plastic will trap moisture, may cause discoloration of the carpet or bubbles to appear, retard the curing of the adhesive and may promote mold growth.
4. It is suggested that in areas of concern, sheets of hard board or plywood be used to protect the installation from rolling traffic.
5. The inside temperature is not to fall below 50° F (10° C) during the lifetime of the installed carpet.

For assistance, please contact

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