

## DOUBLE GLUE-DOWN INSTALLATION

Daltonian recommends using the Carpet and Rug Institute's CRI 104 for installation procedures.

### Carpet Installation Checkoff List

1. Newly poured concrete floors generally will take 90 to 120 days to cure. If moisture exceeds five pounds as determined by a calcium chloride test kit (Refer to CRI 104 ) consult manufacturer.
2. The alkalinity or pH in a concrete slab should be between 5 and 9 for a double glue-down installation.
3. The temperature of a concrete slab must be stabilized above 65 F both 24 hour before and 24 hours after installation.
4. The following environmental conditions inside the building are critical for proper installation: The temperature must be between 65 F and 95 F, and the humidity between 10 % and 65 % for at least 72 hours before and 72 hours after installation. In addition, the adhesive and seam sealer should be stored under these conditions for at least 24 hours before installation.
5. Old cut-back adhesive must be properly sealed or removed prior to any direct glue-down installation
6. All carpet should be rolled out and allowed to acclimate (relax) for at least 24 hours prior to installation. Carpet should never be folded or creased, as this can result in permanent wrinkles or crush marks.
7. Before any cuts are made the pattern repeats throughout each roll of your carpet should be measured to determine the proper sequence for installation.
8. Never install carpet over carpet.
9. Never cut carpet over carpet, as this can result in overpenetration of the blade and cutting loops on the lower carpet.
10. Furniture placement and heavy traffic should be avoided for at least 24 hours after a double glue-down installation. Furniture and heavy equipment concentrated pressure, and movement over unprotected carpet can cause adhesive breakdown. This can result in buckling and/or wrinkling. It is strongly recommended that plywood or masonite boards be placed over the carpet during the move-in phase to spread the concentrated weight of furniture and heavy equipment.

### Required Tools and Materials

1. Adhesive
2. Seam Sealer
3. Thread for sewing the seam or Premium Seaming Tape 6"
4. Seaming Iron
5. Razor Blade Knife
6. Trowels ( CRI 104 )
7. 50 lb. to 75 lb. Roller
8. Stay Nailer
9. Top Cutter
10. Knee Kicker
11. Crab Stretcher and Power Stretcher

### Cushion

Daltonian Flooring, Inc. warrants that a double glue-down method of installation requires a minimum 14-lb. Density Polyurethane double glue cushion. To be adhered to a smooth clean non-porous floor or porous floors must be sealed. The cushion should be installed in the longest continuous lengths possible with consideration given to the traffic pattern and seam placement of the carpet. The cushion seams should be at a right angle to carpet seams or offset at least six inches to either side. The glue used needs to be a premium pressure sensitive adhesive. The glue goes between the floor and the cushion. Use only a 1/16 x 1/32 x 1/32 U notch for smooth floors, and a 1/16 x 1/16 x 1/16 U notch for porous floors.

### Pile Direction

All Woven Wilton carpets should be checked for its pile direction before any cuts are made. This can be accomplished with a pencil and a sheet of paper. Lay the paper on the carpet and lay the pencil on top of the paper. Roll the pencil back and forth, and the paper will move the direction of the pile.

### Recommended Cutting Methods

Woven carpets should be cut between the rows using a top cutter.

- a. Lengthwise Cuts: Bend the carpet along the length to separate the rows and expose the backing yarns. Part or trace the pile with a screwdriver or awl along the length of the proposed cut. Start the cut by making a small incision on the edge with a carpet knife. Insert the top cutter between the backing yarns and cut along the face of the carpet. The top cutter should always be inserted so that the blade is close to the seam edge. All cut edges must be sealed by pressing a thin coating of latex seam sealer into the base of the pile and backing.
- b. Widthwise Cuts: Follow the same procedure as for lengthwise cuts, inserting the top cutter with the blade close to the seam edge. All cut edges must be sealed by pressing a thin coating of latex seam sealer into the base of the pile and backing.

### Seam Preparation

If the installation requires more than one width, select the best location for the first seam and strike a chalk line on the floor square with the walls for seam placement. Most seams are visible. Therefore, when possible, place seams in areas of least traffic, away from the direct lighting, and perpendicular to side lighting, such as windows.

### Pattern Matching

It must be understood that carpet is a textile and cannot be made to exact specifications. All patterned carpet is subject to certain manufacturing tolerances, therefore a perfect pattern match cannot be guaranteed. However, a match should be achievable by stretching the short side out to meet the long side. Tolerances for patterned carpet are:

Bow: 1-1/2 inches across the 12- foot width

Skew (bias): 1-1/2 inches across the 12-foot width

Pattern elongation: 1-1/2 inches in 12 feet along the length

If you are having trouble matching a pattern, STOP at once and call Daltonian at 800-788-1408.

### Seaming and Pattern Matching

Start in the center of the each breadth; join the seam in both directions only as far as the match will allow. Using a knee kicker and a mini stretcher, compress the two sections together. Daltonian Flooring, Inc recommends sewing your seams but a premium 6" seaming tape will work in most instances. If the patterns do not align, use a dead man (4x12-4ft. long with tackless strips) to lie across the matched patterns. With the use of a power stretcher, stretch the short side to make a proper match to the long side. Stay nails may be needed to hold the pattern in place when stretching. Use approximately ten-foot sections of stretcher poles to stretch off of the dead man. A knee kicker may be needed to work the pattern within this length for the best pattern match. Continue this procedure down the length of the seam in both directions. Bowing and pattern bias must be dealt with during the power stretching process. A mini stretcher may also be used. A dry line should be used throughout the installation to check the bow and skew.

### Carpet Adhesive

Pattern carpets should be laid out to check for pattern matching before any installing takes place. Pattern matching can be accomplished in many different ways depending on the installation shape or lay out. Be sure to give plenty of time for the adhesive to reach the proper tacky stage before dropping the carpet into place. Be sure to have enough people spreading the adhesive and installing the carpet so that, after the floor is covered with adhesive, each breadth is in place within the determined period of open time. Be sure to roll out looseness and air bubbles as the carpet is put into place. Reroll all carpet after each day's installation with 50 lb. to 75-lb. roller, rolling in all directions. Properly protect your installation with sheets of plywood or masonite boards (to transfer pressure over larger areas) for the time your glue company states for the glue to cure. The glue between the cushion and carpet should be a premium quality, multipurpose adhesive, and should only be applied with a 1/8 x 1/8 x 1/8 U notch trowel.

Daltonian Flooring, Inc. does not guarantee results and assumes no liability in connection with these are any other installation instructions.