



## Installation of Direct Glue Down Broadloom Carpet

### INSTALLATION GUIDELINES

The following instructions shall be reviewed and followed. CM Hospitality will not be responsible for improper installation.

### SITE TESTING AND CONDITIONING

Check the concrete surface pH at several locations. A reading below 5.0 or above 9.0 requires corrective measures. Maintain the temperature of the installation site, carpet, adhesive and seam sealer between 65 F and 95 F for 24 hours before installation. Do not begin the installation if the room or subfloor temperature is below 65 F. The adhesive and seam sealer will not function properly if applied over a cold surface. The proper conditions must be maintained for 24 hours before, during and for 24 hours after the installation.

Check the concrete for moisture. The moisture transmission rate must not exceed 5.0 lb. per 1000 sq. ft. per 24 hours as determined by a calcium chloride test per ASTM F1869, or 80% relative humidity per ASTM F2170. Do not install carpet if the moisture transmission rate is higher than 5.0 or 80% RH. Other methods of testing are not recommended as they are not reliable.

**CM HOSPITALITY IS NOT RESPONSIBLE FOR MOISTURE RELATED INSTALLATION FAILURES!**

### FLOOR PREPARATION

The floor must be free of dust, dirt, oil, grease, paint, wax, moisture or any debris that may affect adhesion of the carpet backing to the floor. Do not use solvents to clean the floor. Do not use sweeping compounds as they may leave oily residues on the floor that can affect the adhesive from adhering to the floor.

Old adhesive must be properly removed before installing glue down carpet. Cut back adhesive or residue of cut back adhesive must be removed or properly sealed before installing glue down carpet.

The floor must be level and smooth. Depressions and cracks must be filled with a Portland based patching compound. Any protrusions in the floor must be leveled and patched over to create a smooth surface. Concrete floors must be sealed if dusting or powdering exists. **Do not sand or scrape Vinyl asbestos flooring, follow all state and local codes.**

**CM HOSPITALITY ACCEPTS NO RESPONSIBILITY FOR LOOSE ASBESTOS CONTAINING FLOORING THAT IS AFFECTED DURING REMOVAL OR INSTALLATION OF A COMMERCIAL CARPET.**

## **ADHESIVES**

Apply adhesive with a 1/8" X 1/8" X 1/8" U or a 1/8" X 1/8" X 1/16" V notched trowel to assure that the proper amount of adhesive gets into the ridges of the carpet backing. This will give you a spread rate of 8 to 10 square yards per gallon or 32 to 40 square yards per 4 gallon pail. On extremely porous or rough floors or on floors with residual multi-purpose adhesive, more adhesive will be needed. The spread rate should never exceed 40 square yards per 4 gallon pail or an installation failure may occur. This is often the result of a worn or improperly notched trowel.

The adhesive must have proper open time to become tacky prior to installation. The open time will vary depending on temperature and humidity at the job site. The adhesive is ready for the carpet to be installed when the ridge of the adhesive becomes tacky. The adhesive must have "legs" or strings and not be wet to the touch. Installing the carpet before the adhesive has had proper open time can result in an installation failure.

A CM approved wet set adhesive may be used with patterned carpet. This will allow the carpet to be installed while the adhesive is wet for better pattern matching capabilities.

Inadequate adhesive application will result in bubbles, peaked seams and/or curling and could result in a total installation failure.

**CM HOSPITALITY IS NOT RESPONSIBLE FOR ADHESIVE RELATED INSTALLATION FAILURES IF THESE GUIDELINES ARE NOT STRICTLY FOLLOWED.**

## **JOB LAYOUT**

Always keeps the pile direction running the same direction. Dry lay the entire area to be carpeted and then measure the pattern repeats to establish the correct roll sequencing. This will minimize any variations encountered when matching patterns and any bow or skew between the rolls. Start with the larger pattern and stretch the smaller patterns to match the larger ones.

**INSPECT THE CARPET BEFORE YOU CUT IT. IF A VISIBLE MANUFACTURING DEFECT EXISTS, STOP AND CONTACT SALES REPRESENTATIVE IMMEDIATELY. IF A DEFECTIVE CARPET IS INSTALLED, CM HOSPITALITY IS NOT LIABLE FOR THE INSTALLATION!**

## **CUTTING AND SEAMING**

When possible, use a screwdriver or awl to separate the rows of yarn and cut with a cushion back or loop pile cutter. The cutter should be inserted so that the blade is close to the seam edge, with the exception of carpet with a side sweep. Check the carpet pile for a side sweep and if the face pile sweeps down and to the side. On the seam edge with the face pile sweeping into the seam, insert the cutter so the blade is on the opposite side of the cutter than the pile. On the seam edge where the pile sweeps away from the seam edge, insert the cutter so the blade is close to the seam edge. This procedure will help prevent cutting the tips of the pile off.

## **SEAM SEALING**

Commercial broadloom carpet requires the use of seam sealer. Seam sealer must be applied to the trimmed edges to be used for seams, cover the thickness of both the primary and secondary backings without contaminating the face yarns. Edges placed into transitional moldings or thresholds will require sealing to prevent raveling.

**SEAM EDGES MUST BE SEALED TO PREVENT EDGE RAVEL, TUFT LOSS, AND DELAMINATION OF THE SECONDARY BACKING IN THE SEAM AREA.**

## **TRANSITIONS**

Where carpet meets other flooring materials, the edges must be adequately protected with an appropriate transition strip that covers the carpet edge. It is highly recommended that these edges are sealed with a seam sealer as well.

All carpet being adhered to the floor with adhesive should be rolled in both directions with a roller not to exceed 75 lbs. This will assure transfer of the adhesive between the floor and the carpet backing.

## **PATTERN MATCHING**

**It should be understood carpet is a textile and cannot be made to exact specifications. All pattern carpet is subject to certain manufacturing tolerances, therefore a perfect pattern match cannot be guaranteed.**

Patterned carpet must be cut with the row cut method, dry laid and checked for side-match and any visual defects.

Tolerances for patterned carpet are:

- Bow: One percent of the width of the carpet 1.5 inches across the 12 foot width.
- Skew (Bias): 1.5 inches across the 12 foot width
- Pattern Elongation: 2 inches in 12 feet in the length.

If you are having trouble matching a pattern, stop and call the mill at once.

## **INSTALLING CARPET THAT HAS BOW, SKEW OR PATTERN ELONGATION BUT IS WITHIN THE SET TOLERANCES**

Rolls of patterned carpet must be sequenced so the longest pattern is installed first and the roll with the next longest pattern can be stretched to match the longer one. This procedure is critical in that it is impossible to shrink a longer pattern to match a shorter pattern. This will require that each roll be measured for pattern repeat prior to installation.

## **BOW AND SKEW**

For direct glue, cut a breadth at one end on the pattern and spread adhesive allowing room to make a seam. Push the short corners to the wall and stretch the excess carpet created by the bow or skew to the opposite wall using a power stretcher and crab stretcher. Use stay nails to hold pattern in place until the adhesive sets. Follow this procedure throughout the installation.

## **PATTERN ELONGATION**

All rolls should be dry laid and the pattern repeat measured to establish the correct roll sequence. The longest pattern must be installed first, then the next longest, etc. This allows stretching of shorter pattern to longer pattern and keeps the closest pattern repeats together. After the roll sequence is established, glue half of the long pattern and half of the shorter pattern lengthwise. Stretch the shorter pattern to be needed to secure the pattern match as adhesive sets.

## **Trueness of Edge**

After trimming and sealing the edges, carpet should be dry laid with the short edge overlapping till the void disappears. Working from a chalk line, fold carpet back 4 to 6 foot on each breadth, spread adhesive and allow adhesive to tack up. The breadth that overlaps must be compressed to form the seam, forcing the excess carpet away from the seam. It may be necessary to stay nail along the seam until adhesive cures. The fullness/excess carpet should be dispersed into surrounding areas by rolling away from the seam.

It is highly recommended that you do not start the installation process without the proper tools needed to install pattern carpet properly.

## **Suggested Tools and Material Needed**

- Power Stretcher and Crab Stretcher
- Premium Grade Adhesive
- Seam Sealer
- Knee Kicker (position carpet only)
- Top Cutter
- Stay Nails
- Dead Man and Pull Boards

## **PROTECTING INSTALLED CARPET**

Use plywood over carpet when heavy objects are moved within 48 hours after installation.

Protective chair mats under chairs with casters are recommended, to protect face yarns from excessive wear.

A non-staining building material paper should be placed over the carpet to protect it during construction activity to prevent staining and soiling. **DO NOT USE PLASTIC SHEETING AS IT WILL TRAP MOISTURE UNDER THE CARPET.**

## **GENERAL COMMENTS**

For the following backing systems: PFAB-3, Laminate Plus, and Cushion Plus

These backing systems are for glued direct installations only. Do not stretch these products in over cushion.