

## TECHNICAL SERVICES BULLETIN # 101

### INSTALLATION OF PATTERNED CARPET

**NOTE:** This publication is intended for use with direct glue and double glue installation. For stretch over cushion using the tackless strip method, strictly follow the guidelines found in the Commercial Carpet Installation Standard, more commonly known as the CRI-104.

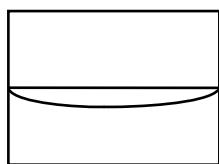
**Attention:** Before you start, read this bulletin and other applicable literature pertaining to the installation of Masland carpet. **Any topics not specifically covered in this bulletin should be directed to Masland's Technical Services Center at: 1-800-633-0468.**

**Before starting installation inspect for:** Concealed damage, Manufacturing defects and Shipping errors (example: wrong color, style, etc.)

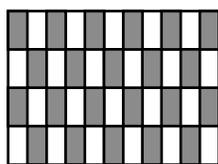
**Warranties** from Masland Contract specifically exclude claims involving carpet which has been cut and installed with visible manufacturing defects.

**NOTE:** Should other trades perform work in areas where Masland carpet has been installed, the installer and / or general contractor assumes total liability for damage and deterioration, including wear, compaction, soiling, staining, and abrasion. Failure to provide adequate protection until occupancy may void all Masland Contract Warranties.

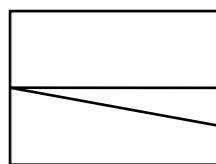
**TOLERANCES:** Masland Contract products are manufactured to rigid quality standards. Because carpet is a textile product, certain tolerances are considered within normal limits and are not considered manufacturing defects.



**BOWING**  
0.75 in / 12 ft width



**PATTERN REPEAT**  
1% or 1.44 in / 12 ft



**SKEWING**  
1.5 in / 12 ft



**EDGE TRUENESS**  
0.50 in 12 ft length

**CARPET CONDITIONING:** At least 24 hours prior to installation, roll out carpet on the job site and smooth out wrinkles. Conditioning allows the carpet to relax and become more pliable for seaming and aligning pattern match.

### JOB SITE CONDITIONS

**TEMPERATURE:** Minimum 65 F, 48 to 72 hours prior to, during and after installation.

**LIGHTING:** Operative to level of occupancy.

**SUBFLOOR:** Sound, and free of grease, oil, paint, or any foreign substance that may inhibit the adhesive bond.

**pH:** If pH readings exceed 9.0, contact the General Contractor to correct the condition.

**AMBIENT HUMIDITY:** Between 12% and 65%.

**CONCRETE:** Must cure for a minimum of 90 days. Any topical coating or curing/sealer should be removed.

**PATCH:** Cracks larger than 1/8" must be filled with an approved latex or cementitious compound. These are: Armstrong S-180, Ardex Feather Finish, Mapei Plani Patch, Lev-L-Lastic and Dependable

**RELATIVE HUMIDITY in SUB-STRATE:** Determined by the ASTM-F-2170-09 "Relative Humidity in situ Probe test should not exceed 85%."

### LAYOUT

**ROOM SQUARENESS:** Check the installation area for squareness and strike a chalk line perpendicular to an outside wall across the room. A laser square also works well. Align carpet to these lines as they will help you keep the patterns aligned and square across the room.

## DIRECT GLUE

**SEAMS:** A comprehensive seaming diagram must be submitted and approved by the purchasing parties prior to installation. NOTE: The seams should run lengthwise in major areas, parallel to traffic paths, into natural and artificial light sources, and be avoided at major pivot points where they may intersect perpendicular to doorways and entrances.

**PATTERN SEQUENCE:** For best results Masland recommends installing its carpet in pattern sequence. Measure pattern lengths prior to making cuts. Arrange the cuts so that the longest patterns are installed first. Plan your work so that you can stretch the shorter patterns to match the longer ones if necessary. Look for a different colored strand of yarn on one selvage edge. Arrange the cuts so that the marker yarns are oriented the same way. The marker yarn supersedes arrow back stamps.

**PATTERN MATCHING:** Dry lay all pieces prior to spreading the glue or hot melt tape application. This allows for potentially relocating some pieces to a more compatible pattern match. PRE-STRETCH breadths prior to seaming. This will allow for closer matches and less stretching while the carpet is in wet adhesive.

**SEAMING:** Masland does not guarantee invisible seams; however, excellent seaming is achievable when following these procedures.

- 1.) Using a straight bit screwdriver, awl or knitting needle, open up the tufted rows.
- 2.) Use a loop pile or cushion back cutter, follow the opened row and keep the blade opposite to the selvage edge.
- 3.) Head Seams: except under the most difficult situations, row cutting works well for head seams. Use of a seam stretcher or "crab" is also helpful for closing head seams.

Lay carpet into the "wet" adhesive so that the carpet may slide in the adhesive to obtain pattern match.

Using dry lines and stay nails, (suitable for the flooring type, wood or concrete) match pattern at the midpoint of the seam so that elongations can be corrected towards the perimeter. In most situations this will yield acceptable results.

Using a power stretcher anchored by a wall or a "dead man", stretch the shorter patterns to match the longer ones. Use **stay nails** to hold the stretched side on pattern and use a knee kicker, or preferably a double-headed mini-stretcher, to close gaps or push any fullness toward the center of the carpet. Leave stay nails in place until adhesive has reached adequate holding strength.

**TRANSITION AND TERMINATING AREAS:** All carpets must be installed flush or slightly below the surrounding hard surfaces. Carpets protruding above the hard surfaces create a partially unprotected edge and will not perform as specified. Masland requires all carpet edges along hard surfaces (including schluter strip areas) be sealed with seam sealer. This is a key factor in preventing water and cleaning fluids from permeating the carpet edges. Terminating edges must be protected by edge moldings (see CRI 104.) Damaged carpet at transition or terminating areas is not a manufacturing defect.

**APPLICATION OF SEAM SEALER:** Seam sealer must be applied to the properly trimmed carpet edge and cover both the primary and secondary backings without contaminating face yarns.

**Seam Sealer:** For direct glue or stretch in seams, use Masland Contract seam sealer.

**ADHESIVE:** Masland Contract Premium Carpet Adhesive; Trowel: 1/8" x 1/8" x 1/16" V notch, 36 to 40 yards per pail.

## DOUBLE GLUE INSTALLATIONS

**CUSHION REQUIREMENTS:** Densified urethane or rubber pad suitable for double glue 1/4" max thickness

ADHESIVES:	TYPE	TROWEL	SPREAD RATE
Pad to Floor	Masland Contract Premium Carpet Adhesive	3/32"x 3/32"x 3/32" V notch	10 yards/gallon
Carpet to Pad	Masland Contract Premium Carpet Adhesive	1/8" x 1/8" x 1/8" U notch	8 yards/gallon

**PATTERN MATCHING:** Incorporate all procedures specified for pattern matching, seaming as listed in the direct glue portion of the bulletin. **NOTE:** Use a "cotton head" in place of a standard head for the power stretcher. Failure to do so may permanently damage the cushion.

**SEAMING:** Masland requires the use of a hot melt tape specifically designed for double glue applications. (Regular seaming tape with a silicone coated back is inappropriate.) Follow cutting techniques described earlier. Acrylic or latex seam sealer is required.

**ROLLING:** Flatten out any carpet wrinkles into the adhesive using a three foot section of the cardboard carpet core or similar and allow adequate tack time (approx. 4 hours) before rolling with a 35 lb. roller. Using a roller in excess of 35 pounds may displace the adhesive leaving insufficient amounts in some areas and cause premature installation failure. Masland requires double stick installations be restricted to installation personnel only for a minimum of 30 hours to allow the adhesives to cure properly. Premature traffic may cause installation failure. Cleaning of the carpet should wait a minimum of 40 days after the installation.

**POST INSTALLATION:** Luan, Masonite or Heavy Kraft paper may be used as post installation protection. Regardless of installation method do not use plastic, self adhering membranes or any other type of impermeable products. These products can leave adhesive residue on the carpet fiber and will attract soiling and possibly cause discoloration. **USE OF THESE PRODUCTS WILL VOID ALL WARRANTIES**

**For specific questions or installation instructions not addressed in this bulletin contact  
Masland Technical Services at 1-800-633-0468**