



Architectural Presentation

Why Specify a Commercial Cushion Under Carpet?

- ☑ Appearance Retention; cushion prolongs the life of a carpet by as much as 60%.
- ☑ Noise Reduction; the acoustical properties of cushion reduce sound transmission.
- ☑ Energy Savings; cushion is a great insulator.
- ☑ Reduces Fatigue; cushion provides excellent support for heavy foot traffic.

Why Specify a Double-Glue Down Installation?

- ☑ Double-glue down installations eliminate problems associated with *stretch-in* and *direct-glue down* methods. Stretch-in installations often experience wrinkling, seam peaking, pattern distortion and carpet delamination. Direct-glue installations cause pile height loss in carpet and simply “ugly-out”.
- ☑ Double-glue down installations are cost effective and benefit the environment. The following Life Cycle analysis shows Double-Glue as the better value:

End-User Comparison (per SY)	Direct-Glue	Double-Glue
Carpet Cost	\$20.00	\$20.00
Cushion Cost	0.00	4.00
Installation/Adhesive Cost	6.00	8.00
Total	\$26.00	\$32.00
Average Life (Years)	5	8
Average Annual Cost	\$5.20	\$4.00

Why Specify Uni-LoC?

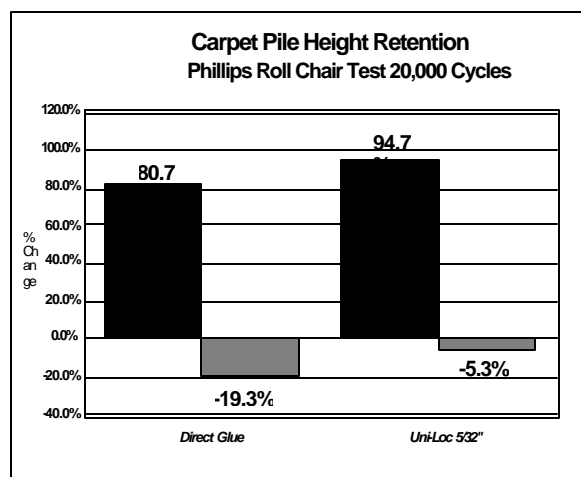
- ☑ Unique Construction. Uni-LoC is manufactured of recycled materials and is recyclable.
- ☑ Passes CRI Green Label indoor air quality carpet cushion testing program.
- ☑ Contributes to USGBC – LEED’s Project Certification (Leadership in Energy & Environmental Design)
- ☑ Recommended product for ADA installations
- ☑ Fresh Dimension ANTIMICROBIAL treated cushion – inhibits the growth of mold, mildew, and odor causing bacteria
- ☑ Performance. Uni-LoC *resists bottoming out* more effectively than competitive products.
- ☑ Precision Gauge. Uni-LoC is cut to within .020” (20/1000 inch).
- ☑ Budget Friendly. Uni-LoC is competitively priced for the commercial market.
- ☑ Wearability. Uni-LoC is approved for Class III Extra Heavy traffic.



For quality commercial double glue down or stretch-in installations. Uni-LoC provides excellent carpet support, eliminates seam peaking and improves appearance retention. Uni-LoC's exclusive 8-ply poly laminate construction offers several advantages.

Proven Performance

- Improves the life of carpet. *Chart Below* illustrates that the use of Uni-LoC increases carpet wear dramatically by reducing carpet pile height loss. The carpet retained almost 95% of its pile height (test method: Phillips Roll Chair Test utilizing 150 lbs of pressure of 20,000 cycles over a 28 oz level loop nylon carpet).
- Measured resilience provides walking comfort without fatigue.



- Eliminates re-stretch problems and reduces seam peaking.
- Acoustical properties reduce noise.

Environmentally Friendly



- Non-allergenic. Odor and mildew resistant.
- Manufactured of 100% recycled materials and is recyclable.
- EPA Registered ANTIMICROBIAL "Fresh Dimension" treatment throughout cushion
- Uni-LoC contributes to USGBC – LEED's project certification
- Petroleum based Polyol replaced with BioBasic™ renewable seed oil

Installation

- Precise gauges are cut to within twenty thousandth of an inch (+/- .020"). This provides a uniform installation.
- Ease of installation, handling and wide width (6') saves time and money on labor.
- Offers strength and support with a releasable option.



Uni-LoC Specifications
Designed for use in double glue down installations

SPECIFICATIONS	BZ0075	BZ0076	TEST REQUIREMENTS
Thickness, Inches (mm)	.16 +/- .020	.25 +/- .020	ASTM D3574
Commercial Traffic Class	Extra Heavy	Extra Heavy	
Density, lb./cu.ft.	10 +/- 5%	10 +/- 5%	ASTM D3574
Sound Absorption NRC	.40	.40	ASTM C423-84a
Impact Insulation Class IIC (Impact Sound Transmission test)	71	71	ASTM E492-77
Compression Load Deflection:			
Minimum p.s.i.			
25% Deflection	4.4	3.1	ASTM D3574
65% Deflection	25.8	18.9	ASTM D3574
Compression Set, Max. %	9.7	12.2	ASTM D3574
Tensile Strength, Minimum p.s.i.	42.8	35.0	
Roll Size, Square Yard	40	40	
Width	6'	6'	
Length	60'	60'	
Class III-Extra Heavy Traffic	Passes	Passes	
Pill Test	Passes	Passes	DOC-FF-1-70
Smoke Density Test (NIST)	Passes	Passes	ASTM E-662-97
Radiant Panel Test	N/A - Cushion must be tested in combination with carpet	N/A - Cushion must be tested in combination with carpet	ASTM E-648
AntiMicrobial Treated Cushion EPA Registered	YES	YES	
BioBasic™ Renewable Seed Oil in place of petroleum based Polyol	YES	YES	

Uni-LoC contributes to LEED's Project Certification established by USGBC




Product	Traffic Classification/Application
Uni-LoC 5/32"	Extra Heavy – all area (great for wheel traffic)
Uni-LoC 1/4"	Extra Heavy – all areas (more luxurious feel)



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Adhesive Information:

Manufacturer	Pressure Sensitive (Floor Only)	Premium Permanent Adhesive	Seam Sealer	Phone Number
CHAPCO	SS2	SS3, SS575, SS475	31,32	800/ 621-0220
DURABOND	D870	D860	D-815	800/ 523-6530
PARACHEM	4277	DS-902 Magnum Plus Gold (4099)	M4263	800/ 763-7272
WF TAYLOR	2027	2055	2075	800/ 397-4583
MAPEI	800	Eco 350	8200	800/704-7986

Installation Method(s)	Minimum Guideline Trowel Size	
Carpet to Cushion (smooth back)	1/8 x 1/8 x 1/16 "U" Notch	
Carpet to Cushion (rough back)	1/8 x 3/16 x 1/8 "U" Notch	
Cushion to Floor	1/16 x 1/16 x 1/16 "SQ" Notch	

IMPORTANT: THIS INFORMATION IS A GUIDELINE. PLEASE CONSULT ADHESIVE MANUFACTURER FOR SPECIFIC DETAILS.



ARCHITECTURAL SPECIFICATIONS

PART 1: GENERAL

1.01 DESCRIPTION

- A. Related work specified elsewhere
Carpeting
- B. The extent of installation work is indicated on the drawings for carpeted areas and in schedules.
- C. Type of installation required:
 - 1. Double glue down – An installation whereby the cushion is glued to the floor and the carpet is then glued to the cushion.
 - 2. Cushion – Leggett & Platt’s Uni-Loc Series. Check appropriate box:

BZ0075 Uni-Loc 5/32

BZ0076 Uni-Loc 1/4

1.02 QUALITY ASSURANCE

A. MANUFACTURER:

Leggett & Platt, Inc. Carpet Cushion Division
2341 N. Main Street; Fort Worth, TX 76164

B. FLAMMABILITY:

Installations may require that the carpet cushion pass the Federal Flammability Standard DOC-FF-1-70 and ASTM-E-662-97. Carpet Cushion subject to such requirements shall be so certified.

1.03 WARRANTY

A copy can be made available upon request to Leggett & Platt, Inc. – Urethane Division.

PART 2: PRODUCTS

2.01 MATERIALS

- A. Carpet Cushion: Urethane foam blended and bonded into particles, then bonded together under pressure, with liquid urethane as the bonding agent. A multi-ply application of polyethylene film and non-woven fabric shall be applied to top side and a multi-ply application of film and polypropylene netting to the bottom. Core to be recycled material.

Individual Specifications:

	Uni-Loc 5/32	Uni-Loc 1/4
Density (+/-5%)	10.0	10.0
Thickness (+/- .020")	5/32 (.16)	1/4 (.25)
CLD @ 65%	25.8 psi	18.9 psi
CLD @ 25%	4.4 psi	3.1 psi

- B. Adhesive: The adhesive shall be approved by the cushion and carpet manufacturers and follow their joint recommendation of installation.



IMPORTANT

TECHNICAL BULLETIN – NO. 205

This product is a high-density low profile carpet cushion developed for commercial/contract installations. This product may be used in conventional (i.e. stretch in over strip) even though the product's primary function is for use with the double glue down method.

Double glue down – simply means an installation whereby the cushion is glued to the floor and the carpet is then glued to the cushion.

The major advantages are – elimination of restretch problems – elimination of seam peaking – and increased carpet life and appearance retention.

Double Glue Down Method

Preparation

It is imperative that the adhesive, carpet, and cushion be stored for 48 hours at room temperature (65 degrees minimum) before installation.

The floors must be dry and free of any substance, which would interfere with good adhesion; holes, loose tile or boards should be repaired to make for a smooth surface.

The cushion should be laid out in the longest lengths possible with the seams running perpendicular to the seams in the carpet. If the seams cannot be at right angles to the carpet seams, keep the cushion seams at least 6" from the carpet seams. Cushion edges should be butted together. Any excess along the perimeter walls should be trimmed and tightly fitted.

Gluing the Cushion – Pressure Sensitive Adhesive or Premium Multi-Purpose

After all the cushion is in place fold it back and apply adhesive to the floor.

The adhesive should be applied with a notched trowel according to the adhesive manufacturers recommendations. (See CRI 104 1996 Ed. P. 22). To ensure sufficient bond of the adhesive, the cushion should be laid into the adhesive while in a "tacky wet" condition. Using a flat object smooth the cushion into the adhesive working toward the seams making sure it is free of buckles and that the seams are tight without overlapping.

Gluing Carpet to Cushion – Premium Multi-Purpose Adhesive

Trowel premium multi-purpose adhesive designed specifically for double glue installation over cushion with 1/8" to 3/16" U-notched trowel, depending on the type of carpet backing. For woven, knitted, and unitary backing apply sufficient adhesive to penetrate all uneven surfaces of backing. Lay carpet into adhesive according to Adhesive manufacturer's recommendation for open time, so as to allow even distribution and penetration of adhesive on all areas of backing. **CAUTION!** "Environmentally Friendly" adhesives may require more open time. Installing carpet into adhesive prior to sufficient open time may cause the adhesive to migrate up and into the carpet's latex backing and could result in adhesion failure. The use of fans will help reduce set up time and promote tackiness. Roll in both directions carefully checking to avoid any bubbles prior to full adhesive set up time. Do not use roller in excess of 35 lbs., if unavailable, use the carpet core or similar object.

Traffic should be denied over carpeted area for a minimum of 24 to 48 hours after installation. Failure to do so will create areas where carpet and cushion have been denied proper adhesion.

Exposure to water from cleaning and other sources should be restricted for a minimum of 30 days. Dry cleaning systems are preferred.

Seaming: Installer may hand sew, or hot melt tape (non-silicone treated) seams depending on carpet manufacturer recommendations. Hot melt taping is preferred as a seaming method to avoid potential expansion/contraction of carpet seams.

Note: Certain types of backing such as fusion bonded are not compatible with many multi-purpose adhesives. Refer to your adhesive manufacturer for their recommendation as to the correct adhesive and application. Verification of trowel settings, set-up time and additional questions should be referred to your adhesive manufacturer.

Note: Certain Carpet Backings, Wiltons, Unitary backs and some Axministers may influence suitability for double-stick – Please consult the Carpet Manufacturer for instructions and approval.

It is imperative that a premium multi-purpose adhesive specifically for double glue installations and the proper trowel notch be used. (See CRI 104, 1996 Ed. P. 22). Failure to do so could result in adhesive breakdown, crystallization or premature failure of adhesive between carpet and cushion.



Keys To Success



Use an approved cushion.

Use a high density, dimensionally stable cushion with a proper surface that will allow easy application of adhesive and little adhesive 'soak in'.



Use an approved carpet.

Action back carpets with high pic count backings are dimensionally stable.



Use an approved adhesive.

Use an adhesive that is a soft set with a very high polymer solid product.



Use the proper-notched trowel.

Use a heavy 'U' notched trowel, approximately 6-8 sq/yds. per gallon.



Allow proper adhesive open time.

Allow the adhesive to develop "legs" or become tacky.



Roll with a lightweight roller.

Roll the entire job with a lightweight (35 lb) roller.



Restrict traffic.

Restrict traffic for 24 to 48 hours to allow the adhesive to set up.



Proper cleaning procedures.

Do not over wet or use solvent cleaner. Do not steam clean for 30 days.