

► Made of **COMMERCIAL-
GRADE FOAM**

Leggett & Platt® Flooring Products

UNI-LOC™

Architectural Presentation

Why Specify a Commercial Cushion Under Carpet?

- Appearance Retention – Prolongs the life of a carpet by as much as 60%.
- Noise Reduction – Acoustical properties of cushion reduce sound transmission.
- Energy Savings – Cushion is a great insulator.
- Reduces Fatigue – 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 lifecycle analysis shows double-glue as the better value:

End-User Comparison (per ft ²)		Direct-Glue	Double-Glue
Carpet Cost		\$2.50	\$2.50
Cushion Cost		\$0.00	\$0.70
Installation/Adhesive Cost		\$1.70	\$1.90
	Total	\$4.20	\$5.10
Average Life (Years)		5	8
Average Annual Cost		\$0.84	\$0.64

Why Specify UNI-LOC?

- Unique Construction – Manufactured of recycled materials and is recyclable at the end of its useful life. It's environmentally safe, recyclable, and passes the CRI Green Label Plus indoor air quality carpet cushion testing program.
- Contributes to LEED® Project Certification (Leadership in Energy and Environmental Design).
- Fresh Dimension® antimicrobial – Inhibits the growth of mold, mildew, and odor-causing bacteria.
- Performance – Resists bottoming out more effectively than competitive products.
- Precision Gauge – Sized to within 0.020" (20/1000 inch).
- Budget-Friendly – Competitively priced.
- Wearability – Approved for Class III extra-heavy traffic.

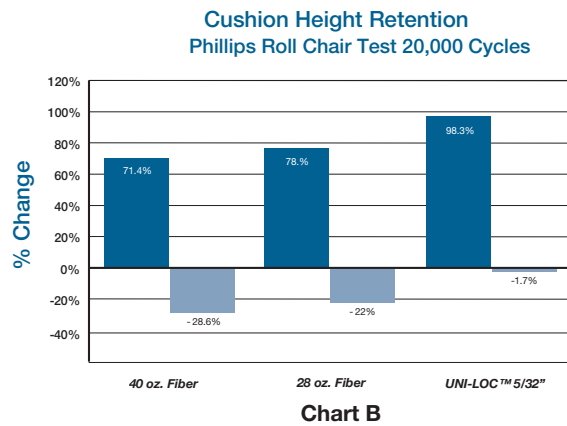
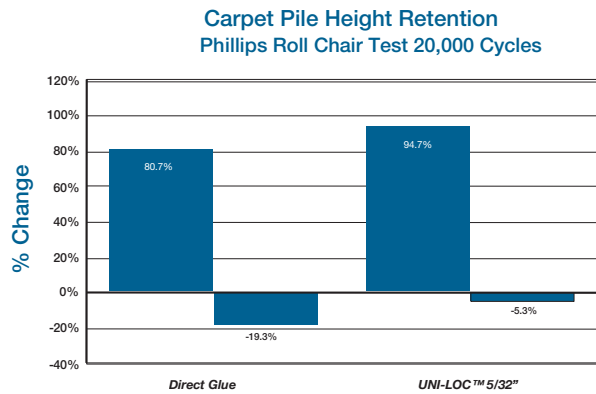
Product	Traffic Classification/Application
UNI-LOC 5/32"	Class III extra heavy – all areas (great for wheel traffic)
UNI-LOC 1/4"	Class III extra heavy – all areas (great for wheel traffic)

UNI-LOC™

For quality commercial double-glue-down or stretch-in installations. UNI-LOC's™ exclusive multi-ply poly laminate construction offers several advantages, including excellent carpet support and improved appearance retention.

Proven Performance

- Improves the life of carpet. Chart A illustrates that the use of UNI-LOC decreases 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 and 20,000 cycles over a 28 oz. level loop nylon carpet).
- Measured resilience provides walking comfort without fatigue. Chart B graphically depicts UNI-LOC's superior cushion-height retention in the same Phillips Roll Chair Test described above. UNI-LOC retained more than 98% of its original height while competitive products lost 22-29% of their original height.
- Eliminates re-stretch problems and reduces seam peaking.
- Acoustical properties reduce noise.



Environmentally Friendly

- Manufactured of recycled products and is recyclable.

Installation

- Precise gauges are cut to within twenty thousandths of an inch (+/- 0.020"). This provides a uniform installation.
- Ease of installation and handling, along with its wide width (6'), save time and money on labor.
- Offers strength and support with a releasable option.

Commercial Cushion Traffic Classifications

To help you compare "apples to apples" with different types of cushion, the Carpet Cushion Council established recommended minimum criteria for each type of carpet cushion:

Construction	Characteristics	Class III Extra-Heavy Traffic	Class II Heavy Traffic
Bonded Urethane	Density, lbs/ft ³	8.0	6.5
	Thickness (in.)	0.25	0.25
	Compression Force Deflection @ 65%	8.0 psi	6.0 psi
Flat Rubber	Density, lbs/ft ³	26.0	21.0
	Weight, oz/yd ²	62.0	62.0
	Thickness (in.)	0.150	0.150
	Compression Resistance @ 25%	4.0 psi	3.0 psi

UNI-LOC™

PRODUCT INFORMATION	UNI-LOC™ 5/32"	UNI-LOC™ 1/4"	TEST STANDARD
SPECIFICATIONS			
Application	Commercial use	Commercial use	
Material Type	Rebond	Rebond	
Product Codes	BZ0075	BZ0076	
Thickness, inches	0.156" (+/- 0.020")	0.25" (+/- 0.020")	ASTM D3574
Density, lbs/ft ³	10 (+/- 5%)	10 (+/- 5%)	ASTM D3574
Commercial Traffic Class	Class III (extra heavy)	Class III (extra heavy)	
Roll Size, yd ²	40	40	
Dimensions	6' x 60'	6' x 60'	
PERFORMANCE			
Compression Force Deflection, Min. psi			
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, Min. psi	>42.8	>35.0	ASTM D3574
ACOUSTICAL PROPERTIES			
Sound Absorption NRC	0.40	0.40	ASTM C423-84a
Impact Insulation Class (IIC)	71	71	ASTM E492-77
FLAMMABILITY			
Pill Test	Passes	Passes	DOC-FF-1-70
Smoke Density Test (NIST)	Passes	Passes	ASTM E662-97
Radiant Panel Test	N/A - Cushion must be tested in combination with carpet		ASTM E648
PROTECTION			
Antimicrobial Treated	Yes	Yes	EPA-Registered
Indoor Air Quality	Certified	Certified	CRI Green Label Plus Program
Hypoallergenic	Yes	Yes	
Recycled/Recyclable Content	100%	100%	

UNI-LOC™

Adhesive Information

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

IMPORTANT: USE ONLY NON-FLAMMABLE, NON-COMBUSTIBLE ADHESIVES.

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

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

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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 Flooring Products
 - 720 Whitley Rd., Keller, TX 76248
 - ISO9000 Compliant: LP9000 Certified
- B. Flammability:
 - Installations may require that the carpet cushion pass the Federal Flammability Standard DOC-FF-1-70 and ASTM E662-97. 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. – Flooring Products Division.

PART 2: PRODUCTS

2.01 MATERIALS

- A. Carpet Cushion: Urethane foam blended and then bonded together under pressure using liquid urethane. A four-ply application of polyethylene and non-woven nylon shall be applied to top side and film and polypropylene netting to the bottom. Core to be recycled material.

Individual Specifications:

	UNI-LOC 5/32"	UNI-LOC 1/4"
Density, lbs/ft ³ (+/- 5%)	10.0	10.0
Thickness, inches (+/- 0.020")	5/32" (0.156")	1/4" (0.25")
CFD @ 65%	25.8 psi	18.9 psi
CFD @ 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: USE ONLY NON-FLAMMABLE, NON-COMBUSTIBLE ADHESIVES.

UNI-LOC™

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

Action-back carpets with high pick count backings are dimensionally stable.

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

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

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

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

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

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

Technical Bulletin

This product is a high-density, low-profile carpet cushion developed for commercial/contract installations. This product may be used in conventional (e.g., stretch-in over strip) applications 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 the elimination of re-stretch problems, reduction 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-degree minimum) before installation.

The floors must be dry and free of any substance that would interfere with good adhesion; holes, loose tiles, 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 Multipurpose

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 manufacturer's recommendations (see CRI Carpet Installation Standard 104). 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 Multipurpose Adhesive

Trowel the premium multipurpose 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 setup time and promote tackiness. Roll in both directions, carefully checking to avoid any bubbles prior to full adhesive setup 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 multipurpose adhesives. Refer to your adhesive manufacturer for their recommendation as to the correct adhesive and application. Verification of trowel settings, setup time, and additional questions should be referred to your adhesive manufacturer.

Note: Certain carpet backings, such as Wilton, Unitary, and some from Axminster, may influence suitability for double-stick. Please consult the carpet manufacturer for instructions and approval.

It is imperative that a premium multipurpose adhesive specifically for double-glue installations and the proper trowel notch be used. Failure to do so could result in adhesive breakdown, crystallization, or premature failure of adhesive between carpet and cushion.

IMPORTANT: USE ONLY NON-FLAMMABLE, NON-COMBUSTIBLE ADHESIVES.