



PAD-LOC

MARITIME CARPET SUPPORT® - 180

Architectural Presentation

Why Specify a Commercial Cushion Under Carpet?

- Appearance Retention – Prolongs the life of a carpet by as much as 60%.
- Noise Reduction – Rebond cushion is excellent for reducing airborne and impact noise transmission.
- Energy Savings – Cushion is a great insulator.
- Reduces Fatigue – Excellent support for heavy foot traffic.

Why Specify PAD-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 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.

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.

- 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 heavy foot traffic.
- ISO 9000 Compliant: LP9000 Certified

SPECIFICATIONS

	Standard	Metric
Composition	Rebond Foam	Rebond Foam
Density	11.5 lbs/ft. ³	184 kg/m ³
Weight	26 oz/yd ²	881.5 g/m ²
Thickness	0.180" (+/- 0.020")	4.6 mm (+/- 0.508 mm)
Dimensions	6' x 60'	1.83 m x 18.3 m
Roll Size	360 ft ²	33.4 m ²
Compression Force Deflection @ 25% / 65% deflection	3.2 psi/18.6 psi	22 kPa/128.2 kPa
Compression Set (Max)	14%	14%
Tensile Strength	28 psi	193 kPa
Impact Sound Transmission (ASTM E492-77)	IIC 71	IIC 71
Commercial Traffic Class	Heavy	Heavy
IMO FTPC Part 5, IMO Res. A.653 (16)	Passes	Passes
IMO FTPC Part 2, ISO 5659-2:2006	Passes	Passes
Wheel Mark Certificate	LRD No. 0525	LRD No. 0525
Lloyd's Register Certificate of Fire Approval	SAS F090321	SAS F090321
Antimicrobial Treated	Fresh Dimension®	Fresh Dimension®
CRI Indoor Air Quality Testing	Green Label Plus	Green Label Plus
Assigned U.S. Coast Guard Module B No.	164.117/EC0038	164.117/EC0038

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For quality commercial double-glue-down or stretch-in installations. PAD-LOC's unique 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 PAD-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 PAD-LOC's superior cushion-height retention in the same Phillips Roll Chair Test described above. PAD-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.
- Rebond cushion helps absorb airborne and impact noise vibration for a quieter room.

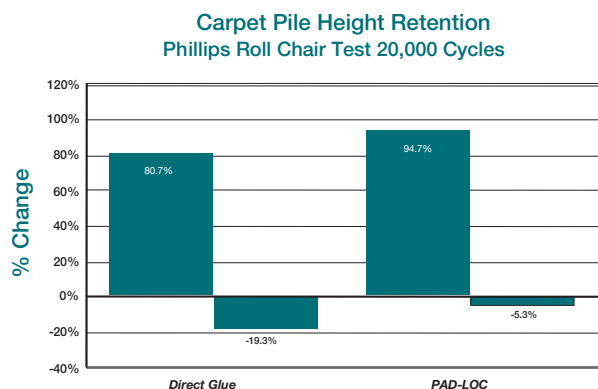


Chart A

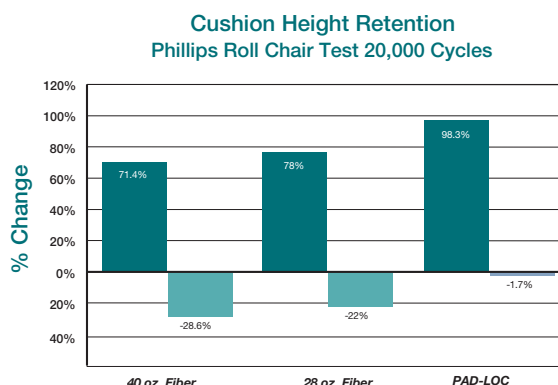


Chart B

Environmentally Friendly

- Manufactured of recycled products and is recyclable at the end of its useful life.

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.

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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.

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-pick-count backings are dimensionally stable.
- **Use an approved adhesive.**
Use a soft-set adhesive with very high polymer solid content.
- **Use the properly 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 lbs.) 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.

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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 PAD-LOC MARITIME CARPET SUPPORT

1.02 QUALITY ASSURANCE

- A. Manufacturer:
 - Leggett & Platt, Inc. Flooring Products Division
 - 720 Whitley Rd., Keller, TX 76248
 - ISO 9000 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 particles blended and bonded together under pressure using liquid polyurethane. A premium heavy flame retardant treated polyethylene film is applied to the top and bottom sides for added dimensional stability. The cushion core may be recycled.

Individual Specifications:

	Standard	Metric
Density, lbs/ft ³ (+/- 5%)	11.5	184 kg/m ³
Thickness, inches (+/- 0.020")	0.180"	4.6 mm
CFD @ 65%	18.6 psi	128.2 kPa
CFD @ 25%	3.2 psi	22 kPa

- 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. APPLY PRODUCT TO NON-COMBUSTIBLE SUBSTRATES ONLY.

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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 a 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 rollers 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. APPLY PRODUCT TO NON-COMBUSTIBLE SUBSTRATES ONLY.

Leggett & Platt
FLOORING PRODUCTS

LPFlooringProducts.com