We think giving you the very best for your carpet dollar is a three-step process: making it, installing it, and maintaining it. And while the making it is often the primary focus of manufacturers, the installation and maintenance procedures can make or break the beauty of your installation as well.

That's why Patcraft provides a detailed and comprehensive guide to carpet installation. It covers the basics-like the importance of checking out the products before any cuts are made – to more esoteric tips like the need to always align the center of diamond designs when matching for pattern.

With our guidance and careful attention to detail, a qualified installer will provide you with the kind of installation you need to enjoy years and years of service from your carpet from Patcraft.

Installation Guidelines

The following instructions should be reviewed prior to installation. Shaw Industries will not be responsible for improper installation.

Site Testing and Conditioning

Maintain the temperature of the installation site, carpet, and adhesive between a minimum temperature of 65° F and a maximum temperature of 95° F for 24 hours before installation. Do not begin the installation if the room or subfloor temperature is below 65° F. The adhesive will not function properly when applied over an extremely cold surface. Relative humidity should not exceed 65%. Maintain these conditions for 24 hours prior to, during and 24 hours after installation. Test the concrete for alkalinity prior to beginning the installation. Check the concrete for surface pH at several locations. A reading below 5.0 or above 9.0 requires corrective measures. Specific information on the correct method of neutralizing low or high pH is available through Shaw Technical Services Department. Check the concrete for moisture at several locations using anhydrous calcium chloride test kits. The moisture transmission rate must not exceed 5.0 lbs. per 1000 sq. ft. per 24 hours. Do not begin the installation if an unacceptable moisture level is detected. Do not use other methods of moisture testing as they are not reliable. If excessive moisture is present, the general contractor or building owner must be advised and a decision made if the installation is to begin. Shaw Industries will not be responsible for any moisture related installation failures if these guidelines are not strictly followed.

Floor Preparation

The floor must be dry, free of dust, dirt, oil, grease, paint, wax, or any debris that could affect adhesion of the carpet modules to the floor.

CAUTION: Ecoworx ES is a peel and stick system. It is extremely important that the subfloor be **completely** free of dust or debris that could contaminate the applied adhesive. Shaw Industries recommends the complete coverage of a latex primer such as Shaw's 9050 to encapsulate any remaining dust prior to installing product. Failure to use a latex primer may result in installation failure. Do not use sweeping compounds as they may leave oily deposits. The floor must be level and smooth. Depressions and cracks must be filled with a liquid latex additive patching compound and all protrusions leveled.

NOTE: Do not sand or scrape Vinyl Asbestos Tile (VAT) without proper attention to abatement procedures and precautions in accordance with all state and local codes.

Page 2 of 6

SHAW INDUSTRIES, INC. MAKES NO CLAIMS AS TO THE ACCEPTABILITY OF THIS PROCEDURE AS A MITIGATION METHOD IN LIEU OF ASBESTOS REMOVAL; AND ACCEPTS NO RESPONSIBILITY IF ANY LOOSE ASBESTOS CONTAINING FLOORINGS ARE AFFECTED UPON REMOVAL OF A MODULAR CARPET INSTALLATION.

Concrete floors must be sealed with liquid latex such as Shaw 9050 if dusting or powdering exists.

As always, manufacturers are subject to change their formulations. Please refer to all manufacturers' suggested use and precautions.

CAUTION: **Cutback asphaltic adhesive or any other non-approved adhesives must never be allowed to come into contact with new adhesives. Installation failure could result. If this situation arises, contact Shaw Industries Technical Services Department at 1-800-471-7429.**

Raised Access Floor Panels

All panels must be smooth, level, secure and free of any material that will affect the adhesive bond. Carpet modules must be installed offset from access panel seams. Gaps between panels must not exceed 1/16" (1.6mm).

Trench Headers

A 12" to 18" band of adhesive must be applied on either side of all trench headers.
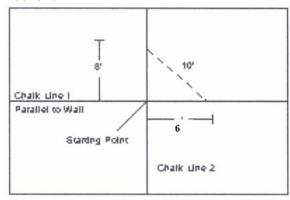
Flatwire Cable Systems

Flatwire cable systems must be centered under Networx modular tiles for better seam quality. Adhesive must not be applied over flatwire cable systems due to possible damage to the cable during tile removal.

Site Layout

1. The starting point in a modular installation must be as near to the center of the room as possible and must be positioned to utilize the largest perimeter cut module size.
2. Snap a chalk line parallel to one major wall bisecting the starting point. It may be necessary to offset the center chalk line to assure perimeter modules will be at least half size.
3. A second chalk line must be snapped from the starting point at 90° to the first line. This can be accomplished using a 3-4-5, 6-8-10, or larger triangle, depending on the room size. (See Illustration A) Meters or feet may be used to lay out the triangle in these proportions.

A Berkshire Hathaway Company

Illustration A:

Adhesive Requirements & Application

For Ecoworx and Ecologix products we recommend the use pf a premium pressure sensitive adhesive such as Shaw 5000 or 5100 Adhesive. A 3/8" foam paint roller, 1/16" v-notch trowel or flat trowel may be used to apply the adhesive. Shaw does not recommend the application of adhesive by means of a sprayer. Allow the adhesive sufficient open time so that it will not transfer to the back of the tile. Ecoworx ES/Ergoflex ES - No adhesive required

The adhesive must be allowed to dry completely before installing the carpet.
Installing into wet adhesive will result into a permanent bond and may cause carpet to bubble!

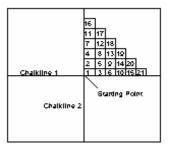**NOTE - A FULL SPREAD OF ADHESIVE IS REQUIRED.**

Installation

1. Begin the installation by installing according to the carton number. Each module has directional arrows on the backing. This allows for one-directional or multidirectional installation. Some styles may be large scale or linear in design and require quarter turning. If you are unsure about whether or not your product requires a quarter turned installation, please contact InfoNow at 1.866.367.7429 for assistance.
2. Installation must begin at the intersection of two chalk lines. Installation must continue until completed in one quadrant, then proceed to an adjoining quadrant until all four quadrants are completed. Larger areas may require chalk lines bisecting the original four quadrants.
3. Install modules using the pyramid technique (See Illustration B). This allows multiple alignment checks. If the edges do not align and the misalignment increases with progression of the installation, the source of the problem must be identified and corrected.

Shaw® A Berkshire Hathaway Company

4. Ecoworx ES backing is manufactured with the adhesive already applied. Once the module is ready to install, simply peel the liner from the back and position snugly to the adjacent tile edges. Press firmly to ensure transfer to the subfloor.

NOTE: USE OF A LATEX PRIMER SUCH AS SHAW'S 9050 IS RECOMMENDED – SEE PG. 1 FLOOR PREPARATION.

Illustration B:

5. Slide modules into position to prevent yarn from being trapped between the modules. Trapped yarn will adversely affect the appearance of the installation and will cause alignment problems.
6. Modules must fit snugly, but not be compressed. Press the entire surface of the tile to ensure adhesion. Check for fit by measuring the length of ten full modules after installation. The measurement must not be less than, or exceed by more than 1/4 inch, the length of the modules being multiplied by ten. For example: if 24" X 24" modules are being installed, the measurement should be between 240 and 240 1/4 inches.

Cutting Techniques

1. Modules may be cut by measuring and cutting from the back using a straight edge. Care must be taken to assure the arrows are pointing in the correct direction.
2. Modules may also be cut by letting them cove up the wall and cutting with a cushion back wall trimmer or similar tool. **DO NOT COMPRESS!**

Post Installation Care

1. Roll the entire installation with a 75 lb roller once it is completed.
2. Use plywood over the carpet when heavy objects are moved within 24 hours after installation.
3. Protective chair mats under chairs with casters are recommended. This will prevent excessive wear to the face and possible transfer of the pressure sensitive adhesive to the back of the carpet.

Shaw® A Berkshire Hathaway Company

4. A non-staining building material paper must be placed over the carpet to protect it when additional construction activity is to take place that would soil or stain it. **Do not use plastic sheeting as it will trap moisture**.

Shaw Technical Bulletins are updated as new information becomes available. To determine if this represents the most current information, call 1-800-471-7429 and ask for the current bulletin number and date. C200-02/22/07. These installation procedures are intended to assist in the installation and care of Shaw modular carpet under most job conditions. Specific questions regarding installation and maintenance not covered within must be referred to the **Shaw Technical Services Department at 1-800-471- 7429.** Any variance from these procedures will become the responsibility of the installer and not the manufacturer.