

INSTALLATION OF ECOWORX MODULAR CARPET

INSTALLATION GUIDELINES

THE FOLLOWING INSTRUCTIONS SHOULD BE REVIEWED PRIOR TO INSTALLATION AS WELL AS MEETING THE REQUIREMENTS OF AS2455.1:2007 & AS2455.2:2007 (WHERE RELEVANT TO CARPET TILES) THE INSTRUCTIONS BELOW MUST BE FOLLOWED.

MJS FLOORCOVERINGS WILL NOT BE RESPONSIBLE FOR IMPROPER INSTALLATION.

SITE TESTING AND CONDITIONING

Maintain the temperature of the installation site, carpet tiles, and adhesive between a minimum temperature of 10° C and a maximum temperature of 35° C for 24 hours before installation. Do not begin the installation if the ambient room temperature is below 10° C. The adhesive will not function properly when applied over an extremely cold surface. Relative humidity should not exceed 75% or fall below 30%. Maintain these conditions for 24 hours prior to, during and 24 hours after installation.

DETERMINING THE SUITABILITY, DRYNESS AND pH OF SUBFLOORS

It is the responsibility of the installation contractor to test the suitability of the subfloor to make certain it is properly prepared and ready for installation of all EcoWorx products.

Excessive floor moisture flow and/or high floor pH (alkalinity) on any floor can cause product failure and therefore all floors should be tested for moisture regardless of age or grade level. All concrete floors must also be tested for pH prior to the installation of any EcoWorx products.

Concrete - Moisture testing of concrete floors must be done in accordance with ASTM F2170-09.

pH testing shall be in accordance with ASTM F710-08 in conjunction with the pH test strip manufacturer's recommendations. If the surface of the concrete is burnished (highly finished) the burnished surface must be ground off prior to the pH testing being undertaken.

Dryness shall be considered satisfactory, when the relative humidity (RH) does not exceed 70% when tested in accordance with ASTM F2170-09. The acceptable pH range is from 7-9.

Please note: If the subfloor falls outside of these parameters please contact your local MJS representative for further instructions prior to commencing the installation. Shaw will not be responsible for any moisture related installation failures if these guidelines are not strictly followed.

Timber - The moisture content of timber, plywood or particleboard subfloors can be determined with an electrical resistance type moisture meter.

Variations of up to 5% in moisture values can occur depending upon the species type and temperature of the timber. Please refer to AS/NZS 1080.1:1997 for the temperature and moisture content correction for the different timber species.

The value of moisture content measured by electrical resistance is expressed as a percentage of the total saturation of the timber cells. Depending on timber species, total saturation can range from 32% to 36%.

While it is problematic to specify exact percentage thresholds, a percentage reading above 15% would indicate a higher than acceptable level of moisture. This said it is important to consider the moisture content of a timber substrate in comparison to other timber fittings in the building.

MJS will not be responsible for any moisture related installation failures if these guidelines are not strictly followed.

FLOOR PREPARATION

The requirements of AS2455.1:2007 & AS 2455.2:2007 must be met.

Prior to commencing the installation of the EcoWorx tile, please ensure the subfloors are structurally sound, free of dust, solvent, paint, wax, oil, grease, all existing adhesives, adhesive removers, non approved sealers, coatings, finishes, dirt, film forming curing compounds, hardening or parting compounds, alkaline salts, excessive carbonation or laitance, mould, mildew, or other foreign materials which may affect the rate at which the moisture dissipates from the concrete or cause poor adhesion of the EcoWorx tile to the subfloor. Any curing chemicals, sealers, burnished or highly polished surfaces, finishes or other chemical treatments used on floors must be mechanically removed prior to the application of the adhesive.

Concrete floors must be sealed if dusting or powdering exists. MJS FLOORCOVERINGS recommends a complete coverage of Shaw Contract 9050 Primer to encapsulate any remaining dust.

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 levelled.

NOTE: DO NOT SAND OR SCRAPE VINYL ASBESTOS TILE (VAT) WITHOUT PROPER ATTENTION TO ABATEMENT PROCEDURES AND PRECAUTIONS. WITH THE REMOVAL OF ANY ASBESTOS PRODUCTS THE FULL REQUIREMENTS OF THE RELEVANT FEDERAL AND STATE LEGISLATION MUST BE MET.

CAUTION: CUTBACK ASPHALTIC ADHESIVE OR ANY OTHER NON-APPROVED ADHESIVES MUST NEVER BE ALLOWED TO COME INTO CONTACT WITH MJS FLOORCOVERINGS CARPET MODULES OR ADHESIVES. INSTALLATION FAILURE COULD RESULT.

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. The access floor panels must meet the requirements of AS4154-1993 and be installed as instructed in this standard with the exception that gaps between panels must not exceed 1.6mm.

FLATWIRE CABLE SYSTEMS

Flatwire cable systems must be centred under Ecoworx 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.

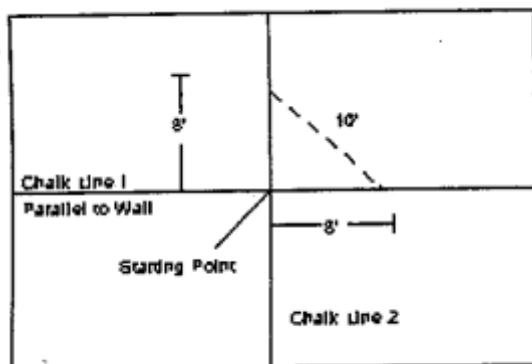
SITE LAYOUT

(1) The starting point in a modular installation must be as near to the centre 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 centre 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) Metres or feet may be used to layout the triangle in these proportions.

Illustration A:



ADHESIVE REQUIREMENTS & APPLICATION

OVERALL APPLICATION OF ADHESIVE IS REQUIRED; GRID APPLICATION OF ADHESIVE IS NOT ACCEPTABLE.

THE FOLLOWING ADHESIVE IS REQUIRED:

- **SureTac PSi**

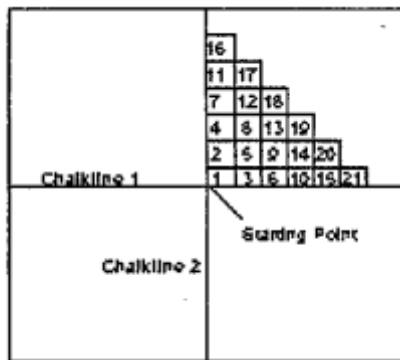
THE APPLICATION PROCEDURE RECOMMENDED BY THE ADHESIVE MANUFACTURER MUST BE STRICTLY ADHERED TO, OTHERWISE THE MANUFACTURERS WARRANTY WILL BE VOID.

THE ADHESIVE MUST BE ALLOWED TO DRY COMPLETELY BEFORE INSTALLING THE CARPET. INSTALLING INTO WET ADHESIVE WILL RESULT IN A PERMANENT BOND AND MAY CAUSE THE CARPET TILES TO BUBBLE!

INSTALLATION

- (1) Each module has directional arrows on the backing. This allows for one-directional or multi-directional installation. Some styles may be linear in design and require quarter turning. If you are unsure about whether or not your product requires a quarter turned installation, please contact MJS FLOORCOVERINGS via the contact points below for assistance.
- (2) Installation must begin at the intersection of two chalk lines. Installation must continue until completed in one quadrant, and 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.**

Illustration B:



- (4) 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.
- (5) Modules must fit snugly, but not be compressed. 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 6mm, the length of the modules being multiplied by ten. For example: if 609mm X 609mm modules are being installed, the measurement should be between 6090mm and 6096mm.

CUTTING TECHNIQUES

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.

POST INSTALLATION CARE

1. Roll the entire installation with a 75 lb/34kg 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 should be used 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.



4. Protection is to be a breathable plastic interwoven mesh which is to be pinned at the edges to ensure that no condensation occurs. **Do not use plastic sheeting as it will trap moisture.**

The installation and protection procedures are intended to assist in the installation and care of MJS FLOORCOVERINGS Carpet Modular Systems under most job conditions. Specific questions regarding installation and maintenance not covered within should be referred to Shaw via the contact points listed below.

Any variance from these procedures will become the responsibility of the installer and not the manufacturer.

CONTACT DETAILS:

MJS FLOORCOVERINGS

Phone: (07) 3347 7300

Website: www.mjsfloorcoverings.com.au

Shaw Contract Australia

Phone: 1800 556 302 Fax: +61 3 9939 8549

Email: info@shawcontractgroup.com.au

Website: www.shawcontractgroup.com.au