

**MEMORANDUM**

TO: All Bidders

FROM: Donna Gallant, Senior Purchasing Agent *DG*

DATE: November 2, 2021

RE: Carpet Replacement in Residential Areas at L.B. Johnson Apts.

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**ADDENDUM #3**

Attached please find Addendum #3 to the bid documents for the above-referenced project. The items set forth herein, whether omission, addition, substitution, or clarifications are to be included in and form part of the submitted quote. This Addendum consists 2 pages and two attachments (4 pgs + 9 pgs).

The number of Addendum #1, 2, 3 must be entered in the appropriate space provided on the Form for General Bid.

**Electronic Bids are now due:  
Friday, November 12, 2021 by 2:00 PM**

**Front End**

1. **Delete** all references to November 4, 2021 and **insert** Friday, November 12, 2021 by 2:00 PM.

**Technical Specification**

2. I. SUBMITTALS, pg. 22, Item 1. **Delete** "...ShawContract Rewoven Collection, Style 5A186 or approved equal which should match existing." **Insert** "...Shaw Contract Diffuse and Disperse Collection. Carpet tile will be 24x24. Color and layout have not been determined."
3. K. TEMPORARY FACILITIES AND CONTROLS, pg. 68. **Delete** "Sanitary facilities will not be available at the job site. The contractor shall be responsible for the provision and maintenance of portable toilets or their equal." **Insert** the following: "Sanitary facilities will be allowed on the first floor of the L.B. Johnson Apts. Site Manager will provide a fob for the facilities."

4. M. QUALITY ASSURANCE, pg. 69, Item 1. Manufacturer: All the carpeting materials must be provided from ShawContract Rewoven Collection, Style 5A186 or approved equal." **Delete** "Shaw Rewoven Collection, Style 5A186" and **insert** "Shaw Diffuse and Diverse Collection. Carpet tile will be 24x24. Color and layout have not been determined."
5. Attached please find the Shaws Carpet Tile Installation Guidelines (9 pgs) and Shaws 5100 Carpet Tile Adhesive (4 pgs).

## Shaw 5100 Carpet Tile Adhesive

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### DESCRIPTION

Shaw 5100 is a premium, acrylic based pressure sensitive adhesive for the installation of Shaw Carpet tile or non-vinyl backed carpet tile.

### APPROVED SUBSTRATES

- For interior use only.
- Wood Association approved wood underlayment and subflooring. See [Wood Substrate Information](#).
- Sound and properly prepared concrete (on, above or below grade), metal, wood, fiberglass and terrazzo.
- Existing resilient products should be over 1 year old, secure and fully adhered with a full spread of adhesive.  
Remove all waxes and polishes from the existing floor before installation.

### SUBSTRATE TESTING

- RH-95% (ASTM F-2170), provided the site is absent of hydrostatic pressure.
- CaCl / MVER 10 lbs. (ASTM F-1869)
- pH-5-11 (ASTM F-710)

Shaw recognizes the RH test as the qualifying standard.

For older slabs or slabs with a prior history of moisture related issues, Shaw Technical Support recommends moisture mitigation in the form of a 2-part epoxy system, such as MoistureTEK.

For newer slabs with an intact moisture retarder, initial moisture levels should recede over time. For recorded levels above 95%, higher moisture resistant adhesives are recommended.

### SUBSTRATE PREPARATION

- Substrate must be structurally sound, clean, level and dry.
- Substrate must be free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, adhesives, loosely bonded toppings, loose particles and any other substance or condition that may prevent or reduce adhesion.
- Do not use over substrates containing asbestos or active cutback.
- Fill depressions or cracks with a cementitious patching / leveling compound that meet or exceed Shaw Industries maximum moisture level and pH requirements. Use of gypsum-based patching and/or leveling compounds which contain Portland or high alumina cement and meet or exceed the compressive strength of 3,000 psi are acceptable.
- Installation site must be acclimated with HVAC in operation or the temperature must be controlled between 65-95°F (18-35°C) and the ambient relative humidity controlled between 30-65% before, during and permanently after the installation.
- Do not use over chemically abated substrates.

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# Specification

## APPLICATION INSTRUCTIONS

Read and follow the product specific installation guidelines for layout, design and any special instructions for installation.

- Spread adhesive using the recommended trowel or roller.
- Spread adhesive evenly over substrate, keeping the trowel at a 45° angle to the substrate.

	Porous	Non-Porous	
Flash Time	15 minutes	30 minutes	The waiting time required before installing floor covering.
Working Time	8-hours	8-hours	The window of time for the adhesive to accept floor covering.

**Note:** Coverage rate, flash time and working time may vary based on temperature, humidity, substrate porosity, jobsite conditions and application practices.

**Areas with lower than normal relative humidity will result in a reduced working time.**

After installation, roll floor covering with a 75 – 100 lb. roller.

**Areas with lower than normal relative humidity will result in a reduced working time.**

For releasable installations, allow the adhesive to become clear and tacky with no transfer.

For permanent bond installations, install carpet tile into semi-wet adhesive.

## RECOMMENDED TOOLS AND SPREAD RATES

1/16" x 1/32" x 5/64" U-notch trowel (1.6 x 0.8 x 2 mm)	28 – 33 yd <sup>2</sup> /gallon 250 – 300 ft <sup>2</sup> /gallon
3/8" foam or medium nap roller	35 – 40 yd <sup>2</sup> /gallon 300 – 350 ft <sup>2</sup> /gallon
spray - applied	Ensure that spray patterns overlap by 1/3 (400 ft <sup>2</sup> /gallon)

**Note:** Coverages are estimates only. Actual jobsite coverages may vary according to substrate conditions, type of trowel used and setting practices. Trowel dimensions are depth/width/space.

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**PRODUCT CHARACTERISTICS**

Weight	39 lbs. / 4 gallon
Pallet Quantity	48
Pallet Weight	2083 lbs.
Polymer Type	Acrylic
Percent Solids	40 - 60%
VOC's (Rule #1168 of California SCAQMD)	19 g/L
Color	Off-White
Tracer	None
Shelf Life	1 year from manufacturing date, in an unopened container.
Storage Conditions	65° F to 95° F (18° C to 35° C) Protect from freezing.
Flash point (ASTM D56)	>212° F / 100° C
Cleaning Instructions	Use warm soapy water while adhesive is still wet. For dried adhesive removal contact Shaw Technical Support 1.800.471.7429.
Traffic	Light Traffic – 24 hours Heavy / Rolling Load Traffic – 72 hours

**ENVIRONMENTAL**

- California South Coast Air Quality Management District Rule 1168
- California Department of Public Health Section 01350
- CRI Green Label Plus Certified #15400
- C2C Silver Certified

**LEED IEQ CREDIT INFORMATION (2009 AND V4)**

Credit Requirement	Status	Comment
Meets General Emissions Evaluation Criteria	Complies	CRI Green Label Plus (GLP) #15400
VOC's (Rule #1168 of California SCAQMD amended October 6, 2017)	Complies	VOC Content < 50 g/L

**WARRANTY**

This product is covered by a 10 year limited warranty. For more detailed

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information on this limited warranty, please see contact information at the bottom of this page.

## CARPET TILE

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For best results review the product and product specific guidelines prior to indoor installation. Shaw will not be responsible for improper installation and installation of visual manufacturing defected tiles. Failure to follow guidelines may result in limiting warranty coverage. Contact Shaw Technical Support at 800.471.7429 for additional information.

### CONDITION YOUR SITE AND TEST

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- HVAC System: Must be operational, maintaining the following conditions 24 hours prior to, during and after installation.
- Temperature: The installation site, carpet and adhesive must be between 50 ° F and 95 ° F. Adhesives will not function properly when exposed to temperatures outside this range. **Do not begin the installation if the subfloor temperature is below 50 ° F.**
- Humidity: The installation site’s ambient relative humidity must not fall below 40%.
- Moisture Testing: Conduct subfloor moisture testing in accordance to the ASTM F-2170 (in-situ Relative Humidity) and/or ASTM F-1869 (Anhydrous Calcium Chloride).
- pH / Alkalinity: Conduct ASTM F-710 pH/Alkalinity testing.

### SUBFLOOR TESTING GUIDELINES

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Shaw recommends moisture testing prior to starting the installation.

If excessive moisture is present, the general contractor or building owner must be advised of the readings, and a decision made regarding how to address the moisture or continue the installation.

The following chart breaks down the carpet backing system, grade of installation, the required subfloor testing requirements and the recommended adhesive for each:

Carpet Tile Backing	Installation Area	Testing Requirements	Adhesive Recommendations
EcoWorx ES	Below/On-grade/Above	Moisture and pH	ES (mill applied)
StrataWorx	Below/On-grade/Above	Moisture and pH	Shaw LokDots,LokWorx,4151,5000,5036,5100
EcoWorx	Below/On-grade	Moisture and pH	Shaw LokWorx,4151,5000,5036,5100

EcoWorx	Above Grade	No Testing Required	Shaw LokDots,4151,5000,5100
EcoLogix	Above Grade	No Testing Required	Shaw 4151,5000,5100,ES (mill applied)
EcoWorx	On or Below Grade *	No Testing Required	Shaw LokDots *
EcoLogix	On or Below Grade *	No Testing Required	Shaw 4151*, ES (mill applied)

\* Shaw LokDots and 4151 are moisture resistant products; however, they do not eliminate moisture.

## SURFACE PREPARATION

- Substrate must be structurally sound, clean, level and dry.
- Substrate must be free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, adhesives, loosely bonded toppings, loose particles and any other substance or condition that may prevent or reduce adhesion.
- Fill depressions or cracks with a cementitious patching / leveling compound that meet or exceed Shaw Industries maximum moisture level and pH requirements. Use of gypsum-based patching and/or leveling compounds which contain Portland or high alumina cement and meet or exceed the compressive strength of 3,000 psi are acceptable.
- For cracks or saw cuts deeper than 1", follow the preparation and application instructions for Shaw QuikFill. QuikFill is a 2-part urethane treatment that prevents future damage from moisture penetrating to the surface of the slab that may damage or breakdown adhesives or unapproved patching compounds.
- For chemically abated substrates, ensure the proper cleaning methods have been taken to remove any residual abatement chemicals.
- Green sweeping compounds can be used but must be swept and removed immediately.
- For dusting / powdering / porous concrete / lightweight concrete prime with a latex primer such as Shaw 9050.
- For patches / levelers prime with a latex primer such as Shaw 9050.
- If installed over existing resilient flooring (one layer only), all tiles must be secure to the subfloor. Strip any wax from the surface.
- Wood Subfloors must be Wood Association Approved and primed with a latex primer such as Shaw 9050.



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# Installation

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

**Note:** Do not sand or scrape Vinyl Asbestos tile (VAT) without proper attention to abatement procedures or precautions in accordance with all state and local codes. Shaw Industries 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 flooring are affected upon removal of a Shaw Industries commercial tile.

**Caution:** Do not allow cutback asphaltic adhesive or any other non-approved adhesive to come in contact with new adhesives. An installation failure could result. If this situation arises, contact Shaw Technical Support.

## PREPARE EXISTING ADHESIVE

- Remove existing adhesives to prevent adhesive incompatibility /reactions and bonding issues.
- Cutback Adhesive: Wet scrape the adhesive, reduce to a well bonded residue and encapsulate with a product such as Shaw MRP.
- Do not use adhesive removers, they will adversely affect the new adhesive and product installed.

## LAY OUT YOUR SITE

- Start the carpet tile installation as near to the center of the room as possible and position it to use the largest perimeter cut tile.
- 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 that the perimeter tile will be a least half the size.
- Snap a second chalk line from the starting point at a 90° to the first line. Use a 3-4-5 or 6-8-10 triangle or larger on the room size to verify squareness. Meters or feet may be used to lay out the triangle in these proportions.

## APPLY ADHESIVE

- Use a full spread adhesive application.
- A premium pressure sensitive adhesive is recommended or Shaw 4151.
- Use a 3/8" nap paint roller or a 1/16" x 1/32" x 5/64" U-notch trowel. When using a 1/16" x 1/32" x 5/64" U-notch trowel to install StrataWorx products, this application method will increase the overall bond strength and reduce the ease of removing and replacing tiles.
- Allow the adhesive to dry completed before installing the carpet tile. Installing into wet adhesive will result in a permanent bond and may cause the carpet tile to bubble.

Adhesive	CaCl Limit	RH Limits	pH Limits
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# Installation

Shaw 4151	10 lbs.	99%	11
Shaw 5000 / 5036	10 lbs.	95%	11
Shaw 5100	10 lbs.	95%	11
LokDots*	N/A	N/A	N/A
LokWorx*	5 lbs.	85%	12
EcoLogix ES (mill applied)	10 lbs.	99%	12
EcoWorx ES (mill applied)	5 lbs.	85%	9

\* LokDots is not a moisture remediation solution. If visible moisture is present or there are known moisture issues such as hydrostatic pressure, additional steps should be taken to address the moisture issues. For older slabs or slabs with a prior history of moisture related issues, Shaw Technical Support recommends moisture mitigation in the form of a 2-part epoxy system, such as MoistureTEK. For newer slabs with an intact moisture retarder, initial moisture levels should recede over time.

\* LokWorx conduct Relative Humidity and pH testing. In addition, concrete substrate moisture must be tested by the current version of ASTM F1869 anhydrous calcium chloride test. For concrete with a prior history of uncorrected moisture conditions or problems involving higher moisture levels, treat the concrete with a moisture mitigation product, prior to adhesive application.

## INSTALLATION

Install each full carton and complete an entire pallet before starting another pallet to minimize product variation. All Shaw carpet tiles have directional arrows on the back of the carpet tile to help facilitate the installation method for that product. The numbers within the arrows are for manufacturing purposes only and are not related to the installation.

- Begin the installation at the intersection of the two chalk lines. Continue until you complete one quadrant.
- Proceed to adjoining quadrants until all four quadrants have been completed. Large areas may require additional chalk lines bisecting the original four quadrants.
- Install the carpet tile using the pyramid technique. This will provide alignment checks during the installation. If the edges do not align and misalignment is noted, stop the installation and determine where the misalignment started and correct.
- Slide carpet tile into positions to prevent yarn from being trapped at the seams. Trapped yarn can adversely affect the appearance of the installation.

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# Installation

- EcoWorx ES and EcoLogix ES are manufactured with mill applied adhesive. For these products, remove the release liner to expose the adhesive and install the carpet tile.
- Tiles must fit snugly, but not be compressed. Press the entire surface of the tile to ensure adhesion.
- After installation, roll the entire installation with a 75 lb or greater roller to assure proper adhesion to the substrate.

**Flatwire cables** should be installed on top of the adhesive and centered underneath the carpet tile for better seam quality.

## Edge Trimming

- Measure and cut tile from the back using a straight edge. Ensure directional arrows are properly aligned with the installation.
- Or allow tile to cove up the wall and cut the carpet tile with a carpet knife, wall trimmer or similar too.
- Do not compress.

## **POST INSTALLATION CARE AND PROTECTION**

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- Place plywood over the carpet when heavy objects are moved.
- Use protective chair mats under chairs and castors. This will prevent excessive wear to the face of the carpet and possible transfer of the pressure sensitive adhesive to the back of the carpet.
- Non-staining building material paper can be placed of the carpet tile to protect it if additional building construction activity is taking place.
- Do not use plastic sheeting. This will trap moisture.

**For best results, temperatures should remain above 50F and ambient humidity should not fall below 40%.**

## 9 X 36 & 12 X 48 TILE INSTALLATION METHODS

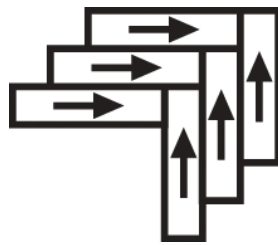
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ashlar



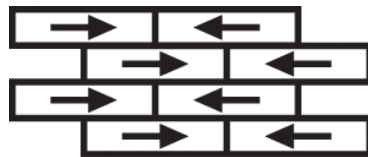
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herringbone

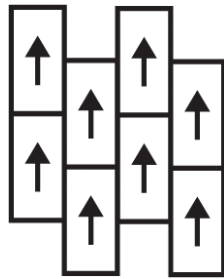


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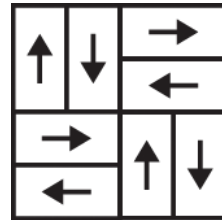


brick

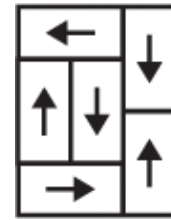
## 18 X 36 TILE INSTALLATION METHODS



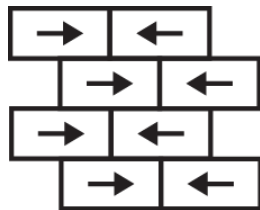
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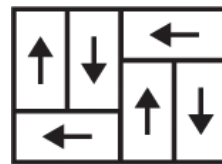
basketweave



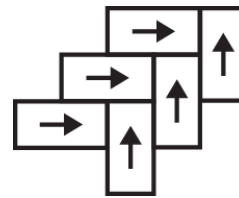
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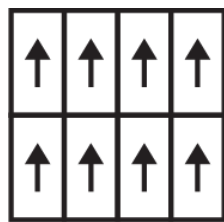
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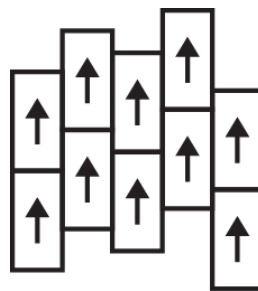
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herringbone



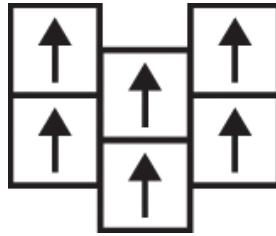
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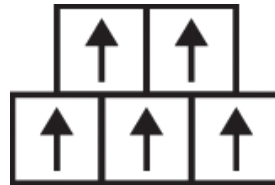
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## 24 X 24 TILE INSTALLATION METHODS

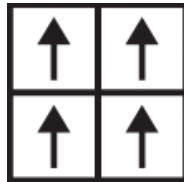
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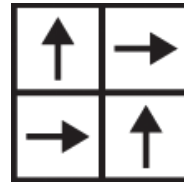
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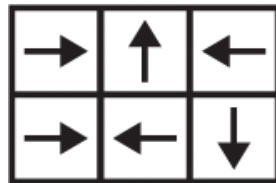
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quarter turn

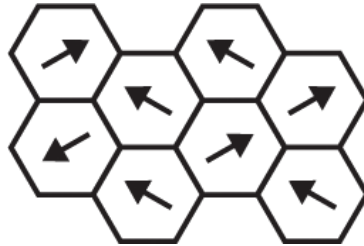


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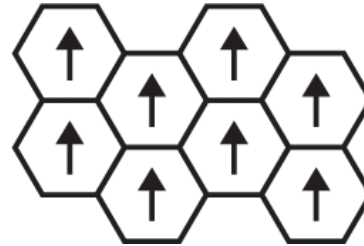
## HEXAGON INSTALLATION METHODS

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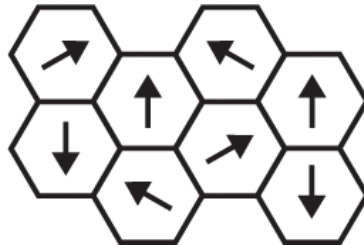
Begin the installation by following Shaw's [Hexagon Installation Guidelines](#)



diagonal



monolithic



random

## INSIDE SHAPES INSTALLATION

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Begin the installation by following [Shaw's Inside Shapes Guidelines](#)