

INVITATION TO BIDS

Flooring Installation Services (Federal) Solicitation No. 6067

ADDENDUM NO. 3
Issue Date: November 5, 2025

This Addendum containing the following revisions, additions, deletions and/or clarifications, is hereby made a part of this solicitation and Contract Documents for the above-named project. Bidders/Proposers shall take this Addendum into consideration when preparing and submitting their response to this solicitation.

This Addendum adds technical specifications (see Item 1 below), lists questions received and SHA's responses (see Item 2 below), and replaces bidding schedule (see Item 3 below).

Item 1. ADD the below technical specifications. If there are any conflicts between existing specifications and new specifications, the new specifications prevail.

- SECTION 09 65 00 RESILIENT FLOORING
- SECTION 09 68 13 TILE CARPETING
- SECTION 09 68 16 SHEET CARPETING
- Forbo Marmoleum Sheet Technical Data

Item 2. The following is a list of questions received and SHA's responses to those questions.

Question 1. Will we have to do asbestos testing, or will SHA take care of it?

Response: *The selected contractor will be given an asbestos disclosure regarding each property as part of the Work Order initiation process.*

Most of this work will be at newer properties, built after the year 2000, and do not contain any asbestos. If asbestos testing is required, discuss with SHA representative how it should be handled. For many properties, SHA does its own asbestos testing. In some instances, contractor may be responsible for asbestos testing, which can be handled by the prime contractor or a sub-contractor/subconsultant, licensed to do the work.

Question 2. In the bidding schedule the unit of measurement for carpet, VCT, vinyl plank, carpet padding, and underlayment is listed as "SQ". Does "SQ" stand for square yard, square foot, or something else?

Response: *Square foot. The updated bidding schedule issued with this addendum makes this clearer.*

Question 3. The specification for rubber tread is not specific to one exact style and profile of tread. It covers multiple different options that cost different amounts. Can you provide a more specific detail about which one you would want? If not, do you expect bidders to base the pricing on the least expensive of those options or the most expensive of those options?

Response: *Once we select what rubber tread we prefer, we would use this for most if not all jobs. We would like to select this from options provided by the installer.*

Question 4. Some of the other product specifications are either discontinued or cover a wide variety of product options. Does Seattle Housing prefer for bidders to offer substitutions? Or does Seattle Housing have other, more specific and/or current product specifications?

Response: *See additional products added under Item 1. If there are remaining products not updated, we would like to select from options provided by the installer.*

Question 5. When there is work to be done, who scopes the unit, the SHA or a the contractor to determine what type and what amount of work has to be done?

Response: *The scope for each job would be conducted by the contractor working with the property Maintenance Supervisor or designee.*

Question 6. If the contractor is to visit the unit and prepare the scope of work, will the contractor be paid for this service?

Response: *No, this service is part of doing business and providing a quote. It's up to the bidder to figure out how to cover any costs associated with this.*

Question 7. Will the contractor be allowed to use SHA dumpsters at the sites?

Response: *No, contractor is responsible for removing all debris.*

Question 8. Is there specific Contractor parking at the sites for our crews to use near the work locations?

Response: *Contractor parking has never been an issue. Typically there is parking available, but we cannot guarantee parking.*

Question 9. Is there any SHA provided local jobsite or any centralized storage available for the contractor to use?

Response: *No, this is not available.*

Question 10. We see a 10K minimum purchase on the contract. If we buy and store materials needed to perform this project based on the larger projections but the SHA does not end up ordering all the materials we have on site, will you buy all excess SHA material from us at the end of the contract period?

Response: *No. Materials quantities are determined based on the needs of each Work Order. It is up to the awarded contractor to decide if they want to buy materials in quantities over what is requested for each Work Order, at their own risk. Owner is not responsible for any excess materials.*

Question 11. We see no line item for a furniture moving price. Is that to mean all of these units will be unoccupied and no furniture moving will be required under this contract?

Response: *Most units will be unoccupied. You may occasionally be asked to install flooring in an occupied unit. We do our best to coordinate with the tenants in these units to have the furniture moved by them but if they are unable, the contractor would be responsible for moving any furniture.*

Question 12. If Furniture is to be moved, who is responsible and can we offer a unit price for it?

Response: *See answer to question #15. You could include price to move furniture when developing the scope. If needed, bill according to the most appropriate labor type on the wage determination. If unsure of which labor type to use, awarded contractor may consult with SHA's labor compliance team.*

Question 13. Have any other products besides those listed in the contract been submitted for approval?

Response: *Not at this time.*

Item 3. REMOVE any previous versions of the Bidding Schedule and **REPLACE** with the Bidding Schedule issued with this addendum.

END OF ADDENDUM NO. 3

RESILIENT FLOORING

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes vinyl composition tiles; resilient flooring sheet products; resilient base; and accessories.

1.2 REFERENCES

- A. ASTM International:
 - 1. ASTM E662 - Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
 - 2. ASTM F1066 - Standard Specification for Vinyl Composition Floor Tile.
 - 3. ASTM F1303 - Standard Specification for Sheet Vinyl Floor Covering with Backing.
 - 4. ASTM F1344 - Standard Specification for Rubber Floor Tile.
 - 5. ASTM F1861 - Standard Specification for Resilient Wall Base.
- B. Federal Specification Unit:
 - 1. FS L-F-475 - Floor Covering Vinyl, Surface (Tile and Roll), with Backing.
 - 2. FS RR-T-650 - Treads, Metallic and Nonmetallic, Skid Resistant.
- C. National Fire Protection Association: NFPA 253 - Standard Method of Test for Critical Radiant Flux for Floor Covering Systems Using a Radiant Heat Energy Source.

1.3 SUBMITTALS

- A. Furnish drawings, diagrams, schedules, certificates, lists, product data, samples, and similar information on materials, equipment, finishes, or other components for the review and approval of the Architect prior to their inclusion in the Work. for submittal procedures.
- B. Shop Drawings: Indicate seaming plan, custom patterns and inlay designs indicated on the Drawings.
- C. Product Data: Submit data describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions. Include standard line of product for Owner's selection/confirmation of colors.
- D. Samples: Submit two sets of manufacturer's complete set of color samples for Owner selection/confirmation of colors.
- E. Submit certification from manufacturer stating the percentage of recycled content material, identifying post-consumer and post-industrial contents.
- F. Provide Scientific Certification Systems FloorScore certification compliance documentation.

1.4 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: Submit maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.

1.5 QUALITY ASSURANCE

- A. Surface Burning Characteristics:
 - 1. Floor Finishes and Stair Coverings: Class I, minimum 0.45 watts/sq cm, or Class II, minimum 0.22 watts/sq cm when tested in accordance with NFPA 253.
 - 2. Base Material: Class I, minimum 0.45 watts/sq cm when tested in accordance with NFPA 253.

1.6 QUALIFICATIONS

- A. Manufacturer. Preferred Experience: Company specializing in manufacturing products specified in this section with minimum three years experience.
- B. Installer. Preferred Experience: Company specializing in performing Work of this section, and certified Forbo Installer, with minimum five years experience.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. ~~Section 01 60 00—Product Requirements: Product storage and handling requirements.~~
- B. Protect roll materials from damage by storing in a method consistent with manufacturer's instructions.

1.8 ENVIRONMENTAL REQUIREMENTS

- B. Maintain temperature in storage area between 55 degrees F and 90 degrees F, or as otherwise required by the manufacturer.
- C. Store materials for not less than 48 hours prior to installation in area of installation at temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.

PART 2 PRODUCTS

2.1 SHEET VINYL FLOORING WITH INTERGRAL COVED BASE (SV)

- A. Basis-of-Design: Subject to compliance with requirements provide products by the following:
Listed Manufacturer and Product: Armstrong DecorArt Adobe or approved equal.
 - 1. Vinyl Sheet with Backing: ASTM F1303, Class B, Type 1, Grade 1, color and pattern through surface wear thickness.

- 2. Meet flexibility and indentation resistance requirements of ASTM F1303.
- 3. Meet slip resistance of OSHA and ADA requirements when tested according to ASTM D2047.
- 4. Vinyl Wear Thickness: 20 mil.
- 5. Total Thickness: 0.087-inch (2.2 mm) minimum.
- 6. Heat welded seams.
- 7. FloorScore Certified for low VOC.
- 8. Adhesive: Meet VOC requirements in Section 01 81 13 & Section 01 81 19.
- 9. SCS FloorScore certification
- 10. Warranty: 10-year product warranty.
- 11. Colors: Up to one (1) additional color for each product: as selected by Owner from the manufacturer's standard line

2.2 LUXURY VINYL TILE / VINYL PLANK (LVT)

- A. Basis-of-Design: Subject to compliance with requirements provide products by the following:
Listed Manufacturer and Product: Shaw Quiet Cover 0186V or approved equal.
 - 1. General: Commercial luxury vinyl tile with backing system, ASTM F1700 Class III, Type B
 - 2. Colors: Five (5) colors and patterns as selected by the Owner from manufacturer's entire color range for common areas. One (1) color and pattern as selected by the Owner from manufacturer's entire color range for units
 - 3. Size: 7=x48= and not less than 5mm
 - 4. thick.
 - 5. Wear Layer Thickness: 20 mil
 - 6. Static Load Limit: Meet ASTM F970
 - 7. Installation: Floating, staggered pattern
 - SCS FloorScore certification

2.3 RESILIENT BASE (RB)

- A. Basis-of-Design: Subject to compliance with requirements provide products by the following:
Manufacturers:
 - 1. Johnsonite
 - 2. Tarkett
 - 3. Armstrong World Industries, Inc.
 - 4. Azrock Commercial Flooring.
 - 5. Marley Floors-Flexco.
 - 6. Roppe Corp.
 - 7. Burke Industries Inc.
 - 8. Substitutions: Owner may, at their option, consider certain substitutions submitted.

- B. Base: ASTM F1861 Rubber; top set coved, solid color throughout.
 - 1. Height: 4- or 6-inch height as shown on the drawings/schedules.
 - 2. Finish: Satin.
 - 3. Length: Roll.
 - 4. Accessories: Premolded external corners (miter internal corners).
 - 5. Rubber reducer strips at all edges of resilient flooring.
 - 6. Three (3) Colors: Selected by the Owner from the full line.

2.4 VINYL COMPOSITE TILE (VCT)

- A. Basis-of-Design: Subject to compliance with requirements provide products by the following:

Listed Manufacturer and Product: Armstrong Standard Excelon Imperial Texture or approved equal.

- B. Rubber tile flooring: Standard Rubber Tile per ASTM F-1344
 - 1. Size: 12 x 12 inch.
 - 2. Thickness: 0.125 inch.
 - 3. Pattern, Color(s): Five (5) colors and patterns as selected by the Owner from manufacturer9s entire color range for common areas.
 - 4. Installation Adhesive: Per VCT manufacturer. Comply with VOC limits of Section 01 81 13 & Section 01 81 19.
 - 5. Location: See drawings.
 - 6. SCS FloorScore certification

2.5 RUBBER STAIR TREADS (RT)

- A. Listed Manufacturer and Product: Roppe raised profile rubber stair treads with safety strip or approved equal.

- B. Rubber Treads: Standard Rubber Risers ASTM F-1344
 - 1. Profile: Round profile, square nose, visually impaired.
 - 2. Thickness: 0.125 inch.
 - 3. Pattern, Color(s): Five (5) colors and patterns as selected by the Architect from manufacturer9s entire color range for common areas.
 - 4. Installation Adhesive: Per rubber tile manufacturer. Comply with VOC limits of Section 01 81 13 & Section 01 81 19.
 - 5. Location: Stair treads and risers at Stair 1 and community room stair.
 - 6. SCS FloorScore certification

- C. Rubber Risers: Connect Step round profile.

- D. Rubber Stair Skirt

2.6 ACCESSORIES

- A. Subfloor Filler: Cementitious or premix latex, type recommended by adhesive material manufacturer and flooring manufacturer, Low-VOC.
- B. Primers and Adhesives: Waterproof, Low-VOC, types recommended by flooring manufacturer.
- C. Moldings and Edge Strips: Same material as flooring, unless otherwise indicated.
- D. Sheet Flooring Vinyl Welding Rod: Solid vinyl bead produced by manufacturer of vinyl flooring for heat welding seams, in color matching field color.
- E. Filler for Coved Base: manufacturer's standard.
- F. Transition strips between vinyl plank/tile, resilient sheet flooring, and/or carpet: Roppe, or other listed manufactures. Color selected by Owner.
- G. Sealer and Wax: Types recommended by flooring manufacturers rated for high- traffic areas. (2) coats minimum installed.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify concrete floors are dry to maximum moisture content as recommended by flooring manufacturers, and exhibit negative alkalinity, carbonization, and dusting.
- B. An adhesive bond test shall be performed and passed prior to beginning installations.

3.2 PREPARATION

- A. Remove sub-floor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface. Note that some manufacturers require only Portland cement based patching and leveling materials be used for their products.
- B. Prohibit traffic until filler is cured.
- C. Clean substrate.
- D. Apply primer as required to prevent "bleed-thru" or interference with adhesion by substances that cannot be removed. Apply primer to surfaces required by the manufacturer.

3.3 INSTALLATION - SHEET FLOORING

- A. Lay flooring with joints and seams parallel to longer room dimensions, to produce minimum number of seams. Lay out seams to avoid widths less than 1/3 of roll width; match patterns carefully at seams.
- B. Double cut sheet; provide heat-welded seams.
- C. Where floor finishes are different on opposite sides of door, terminate flooring under centerline of door.
- D. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated. Secure resilient strips by adhesive.
- E. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.
- F. Install flooring into the flange of floor drains. If flange-type drain is not installed, butt flooring to edge of drain and seal interface with same sealant used at other joints.
- G. Install flooring in recessed floor access covers. Maintain floor pattern.
- H. At movable partitions, install flooring under partitions without interrupting floor pattern.
- I. Install feature strips and floor markings where indicated. Fit joints tightly.

3.4 INSTALLATION 3 LUXURY VINYL TILE:

- A. Adhere directly to substrate in accordance with manufacturer's standard specifications and referenced trade standard.
- B. Prepare seams per manufacturer's instructions.
- C. Apply to flooring tile per manufacturer's direction

3.5 INSTALLATION - BASE

- A. Fit joints tightly and make vertical. Install roll stock, and maintain minimum dimension of 18 inches between joints.
- B. Miter internal corners. At external corners, use premolded units. At exposed ends, use premolded units.
- C. Install base on solid backing. Bond tightly to wall and floor surfaces.
- D. Scribe and fit to door frames and other interruptions.

3.6 CLEANING

- A. Remove excess adhesive from floor, base, and wall surfaces without damage.
- B. Clean, seal, and maintain resilient flooring products.

3.7 WASTE MANAGEMENT

- A. Contractor is to dispose of all waste material off site in accordance with local laws and regulations.

- 3.8 PROTECTION OF INSTALLED CONSTRUCTION
 - A. Prohibit traffic on resilient flooring for 48 hours after installation.

END OF SECTION

TILE CARPETING

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes:
 - 1. Modular carpet tile and adhesive.
- B. Performance Requirements:
 - 1. The Owner has established environmental goals for this project, and this Section contains specific information and requirements for compliance. Refer to Section 01 81 13 for general requirements.
- C. Project Specific Requirements:
 - 1. Carpet and pad must be Carpet and Rug Institute's Green Label Plus certified per the requirements of ESDS Criterion 6.01a.
 - 2. Adhesives and sealants to have VOC content less than or equal to thresholds provided by SCAQMD Rule 1168 per the requirements of ESDS Criterion 6.01a.
- D. Related Sections:
 - 1. Section 09 65 16 - Resilient Sheet Flooring.
 - 2. Section 09 65 19 - Resilient Tile Flooring.

1.2 REFERENCES

- A. Carpet and Rug Institute:
 - 1. CRI 3 Commercial Carpet Installation Standard.
- B. Certified Floor Covering Installers (CFI)
 - 1. CFI 3 Carpet Training and Certification.
- C. Consumer Products Safety Commission:
 - 1. CPSC 16 CFR 1630 - Standard for the Surface Flammability of Carpets and Rugs.
- D. National Fire Protection Association:
 - 1. NFPA 253 - Standard Method of Test for Critical Radiant Flux for Floor Covering Systems Using a Radiant Heat Energy Source.
- E. NSF International (NSF)
 - 1. ANSI/NSF 140 3 Sustainable Carpet Assessment Standard.
- F. Underwriters Laboratory (UL):
 - 1. UL 701 3 Standard Methods of Fire Tests for Flame Propagation of Textiles and Films.

2. UL 723 3 Test for Surface Burning Characteristics of Building Materials.

1.3 SUBMITTALS

- A. Product Data: For each type of product.
 1. Include manufacturer's written data on physical characteristics, durability, and fade resistance.
 2. Include manufacturer's written installation recommendations for each type of substrate.
- B. Samples: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.
 1. Carpet Tile: Full-size Sample.
 2. Exposed Edge, Transition, and Other Accessory Striping: 12-inch- long Samples.
- C. Maintenance and care instructions.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Installer who has been trained in the installation of carpet tile.
- B. Manufacturer Qualifications:
 1. ISO 14001
 2. ISO 9001
 3. Reclamation Program: Recycle carpet tile free of charge for quantities of 500 SY or more within continental United States.

1.5 WARRANTY

- A. Ten-year standard commercial warranty on product.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Comply with CRI's "CRI Carpet Installation Standard."

1.7 ENVIRONMENTAL REQUIREMENTS

- A. Comply with CRI's "CRI Commercial Carpet Installation Standard" for temperature, humidity, and ventilation limitations.
- B. Environmental Limitations: Do not deliver or install carpet tiles until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at levels planned for building occupants during the remainder of the construction period.
- C. Do not install carpet tiles over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive and concrete slabs have pH range recommended by carpet tile manufacturer.

- D. For 24 hour prior, and ongoing during and after installation, temperature at the carpet and adhesive installation site must be between 50°F and 95°F, and ambient relative humidity must not be below 40%.
- E. Conduct relative humidity or Anhydrous Calcium Chloride testing. Results must be within the proper range for Shaw 5000 adhesive:
 - 1. Calcium Chloride ASTM F-1869 5.0 lbs per 1000 SF /24 hours
 - 2. Relative Humidity ASTM F-2170 85%
 - 3. EcoLogix ES does not require moisture or pH testing.
- F. Conduct pH testing on the floor in several locations. A reading below 5.0 or above 9.0 requires corrective measures.
- G. Where demountable partitions or other items are indicated for installation on top of carpet tiles, install carpet tiles before installing these items.

PART 2 PRODUCTS

2.1 CARPET TILE

- A. Basis-of-Design: Subject to compliance with requirements provide products by the following:
 - 1. Patcraft, patcraft.com, (800) 241-4014
- B. Color: As selected by Owner from manufacturer's full range.
- C. Pattern: Outlook I0610 Moment 00495.
 - 1. Manufacturer: Patcraft, or approved equal.
 - 2. Color: As selected by Owner from manufacturer's full range.
 - 3. Pile Characteristics: Multi-level Pattern Loop
 - 4. Fiber type: Solution Q Nylon
 - 5. Dye Method: 100% Solution Dye
 - 6. Gauge: 1/10 inch
 - 7. Stitches: 10 per inch
 - 8. Finished Pile Thickness: 0.088 inches
 - 9. Primary Backing: Nonwoven synthetic.
 - 10. Secondary Backing: High performance precoat laminated to a thermoplastic polyolefin compound with a fiberglass reinforced layer.
 - a. Backing System: StrataWorx.
 - 11. Average Density: 6136 oz/yd³
 - 12. Total thickness: 0.212 inches
 - 13. Size: 24 by 24 inches
 - 14. Recycled Content: Preference given to manufacturer's recycling 100 percent of reclaimed carpet tile back into carpet tile with recycled content.
 - 15. CRI Green Label Plus Certified
- D. Location: As scheduled in Drawings.

2.2 Applied Treatments:

- A. Soil-Resistance Treatment: Manufacturer's standard treatment.

2.3 INSTALLATION ACCESSORIES

- a. Trowelable Leveling and Patching Compounds: cementitious patching/leveling compound that meets or exceeds the required 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, or recommended by carpet tile manufacturer.
- A. Adhesives: Water-resistant, mildew-resistant, non-staining, pressure-sensitive type to suit products and subfloor conditions indicated, that comply with flammability requirements for installed carpet tile, and are recommended by carpet tile manufacturer for releasable installation.
 - 1. Adhesives shall have a VOC content per Sustainability Design Requirements.
- B. Metal Edge/Transition Strips: Extruded aluminum with mil finish of profile and width shown, of height required to protect exposed edge of carpet, and of maximum lengths to minimize running joints.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet tile performance.
- B. Examine carpet tile for type, color, pattern, and potential defects.
- C. Concrete Slabs: Verify that finishes comply with requirements specified by manufacture and that surfaces are free of cracks, ridges, depressions, scale, and foreign deposits.
 - 1. Moisture Testing: Perform tests per manufacturer's written installation instructions.

3.2 PREPARATION

- A. General: Comply with CRI's "Carpet Installation Standards" and with carpet tile manufacturer's written installation instructions for preparing substrates indicated to receive carpet tile.
- B. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes and depressions 1/8 inch wide or wider, and protrusions more than 1/32 inch unless more stringent requirements are required by manufacturer's written instructions.

- C. Concrete Substrates: Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents. Use mechanical methods recommended in writing by adhesive and carpet tile manufacturers.
- D. Metal Substrates: Clean grease, oil, soil and rust, and prime if recommended in writing by adhesive manufacturer. Rough sand painted metal surfaces and remove loose paint. Sand aluminum surfaces, to remove metal oxides, immediately before applying adhesive.
- E. Broom and vacuum clean substrates to be covered immediately before installing carpet tile.

3.3 INSTALLATION

- A. General: Comply with CRI's "CRI Commercial Carpet Installation Standard," Section 10, "Carpet Tile" and with carpet tile manufacturer's written installation instructions.
- B. Installation Method: As recommended in writing by carpet tile manufacturer.
- C. Maintain dye-lot integrity. Do not mix dye lots in same area.
- D. Maintain pile-direction patterns recommended in writing by carpet tile manufacturer.
- E. Cut and fit carpet tile to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet tile manufacturer.
- F. Extend carpet tile into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
- G. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on carpet tile as marked on subfloor. Use nonpermanent, non-staining marking device on the back side of the carpet tile.
- H. Roll the entire installation with a 75 lb. or greater roller to assure the proper adhesion to the substrate

3.4 CLEANING AND PROTECTION

- A. Perform the following operations immediately after installing carpet tile:
 - 1. Remove excess adhesive and other surface blemishes using cleaner recommended by carpet tile manufacturer.
 - 2. Remove yarns that protrude from carpet tile surface.
 - 3. Vacuum carpet tile using commercial machine with face-beater element.
- B. Protect installed carpet tile to comply with CRI's "Commercial Carpet Installation Standard," Section 11, "Post Installation."
- C. Protect carpet tile against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by carpet tile manufacturer.

END OF SECTION

SHEET CARPETING

PART 1 GENERAL (see highlighted sections for general specifications)

1.01 SECTION INCLUDES

- A. Carpet, stretched-in with cushion underlay.
- B. Accessories.

1.02 REFERENCE STANDARDS

- A. ASTM D2859 - Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials; 2016.
- B. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source; 2019a, with Editorial Revision (2020).
- C. CRI 104 - Standard for Installation of Commercial Carpet; 2015.
- D. CRI (GL) - Green Label Testing Program - Certified Products; Current Edition.
- E. CRI 104 - Standard for Installation of Commercial Textile Floorcovering Materials; Carpet and Rug Institute; 2002.
- F. CRI (GLP) - Green Label Plus Testing Program - Certified Products; Current Edition.
- G. NFPA 253 - Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source; 2019.

1.03 SUBMITTALS

- A. Furnish drawings, diagrams, schedules, certificates, lists, product data, samples, and similar information on materials, equipment, finishes, or other components for the review and approval of the Architect prior to their inclusion in the Work. for submittal procedures.
- B. Shop Drawings: Indicate seaming plan, method of joining seams, direction of carpet pile and pattern, location of edge moldings and edge binding.
- C. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns, colors available, and method of installation.
- D. Samples: Submit two samples 16 by 16 inch in size illustrating color and pattern for each carpet and cushion material specified.
- E. Manufacturer's Installation Instructions: Indicate special procedures.
- F. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing specified carpet with minimum three years documented experience.
- B. Installer Qualifications: Company specializing in installing carpet with minimum three years documented experience.

1.05 PRE-INSTALLATION MEETING

- A. Administrative Requirements, for pre-installation meeting procedures.
- B. Convene meeting at least two weeks prior to starting work; require attendance of affected installers; invite Architect and Owner.
- C. Objectives to include:
 - 1. Examination of substrates for levelness, subcontractor shall verify prior to meeting that substrates are acceptable for installation of materials.
 - 2. Review material transitions prior to meeting.
 - 3. Verify location of materials with different thickness.
 - 4. Review procedures to make top of carpet transitions flush.

1.06 FIELD CONDITIONS

- A. Store materials in area of installation for minimum period of 24 hours prior to installation.
- B. Maintain minimum 70 degrees F ambient temperature 24 hours prior to, during and 24 hours after installation.
- C. Ventilate installation area during installation and for 72 hours after installation.

PART 2 PRODUCTS

2.01 MANUFACTURERS

Basis-of-Design: Subject to compliance with requirements provide products by the following:

- A. Carpet:
 - 1. Mohawk Group: www.mohawkgroup.com/#sle.

CARPET

2.02 Carpet at Residential Units:

- A.
 - 1. Product: See Basis-of-Design.
 - 2. Critical Radiant Flux: Minimum of 0.22 watts/sq cm, when tested in accordance with ASTM E648 or NFPA 253.
 - 3. Surface Flammability Ignition: Pass ASTM D2859 (the "pill test").
 - 4. VOC Content: Provide CRI (GLP) certified product; in lieu of labeling, independent test report showing compliance is acceptable.
 - 5. Substitutions: See Section 01 60 00 - Product Requirements.

2.03 CUSHION

- A. Cushion: Cellular rubber.
 - 1. VOC Content: Provide CRI (GL) certified product; in lieu of labeling, independent test report showing compliance is acceptable.
 - 2. Nominal Thickness: 0.45 inch.

2.04 ACCESSORIES

- A. Subfloor Filler: Type recommended by carpet manufacturer.

- B. Transition Strips: Rubber, color as selected.
- C. Adhesives:
 - 1. Compatible with materials being adhered; maximum VOC content of 50 g/L; CRI (GL) certified; in lieu of labeled product, independent test report showing compliance is acceptable.
- D. Seam Adhesive: Recommended by carpet manufacturer.
- E. Carpet Adhesive: Recommended by carpet manufacturer; releasable type.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that subfloor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive carpet.
- B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive carpet.
- C. Verify that subfloor surfaces are dust-free and free of substances that could impair bonding of adhesives to subfloor surfaces.
- D. Cementitious Subfloor Surfaces: Verify that substrates are ready for flooring installation by testing for moisture and alkalinity (pH).
 - 1. Moisture emission rate: Not greater than 3 lb per 1000 sq ft per 24 hours when tested using calcium chloride moisture test kit for 72 hours.
 - 2. Alkalinity: pH range of 5-9.
 - 3. In-Situ Relative Humidity: 75%
 - 4. Obtain instructions if test results are not within limits recommended by flooring material manufacturer and adhesive materials manufacturer.
- E. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

- A. Remove subfloor ridges and bumps. Fill minor or local low spots, cracks, joints, holes, and other defects with subfloor filler.
- B. Apply, trowel, and float filler to achieve smooth, flat, hard surface. Prohibit traffic until filler is cured.
- C. Apply floor filler between different carpets thickness to achieve flush surface between different pile heights. Transitional slope to be 1/8 inch per foot.
- D. Clean substrate.

3.03 INSTALLATION - GENERAL

- A. Starting installation constitutes acceptance of subfloor conditions.
- B. Install carpet and cushion in accordance with manufacturer's instructions and CRI 104 (Commercial).

- C. Install carpet and cushion in accordance with manufacturer's instructions and CRI 104.
- D. Verify carpet match before cutting to ensure minimal variation between dye lots.
- E. Lay out carpet and locate seams in accordance with shop drawings.
 - 1. Locate seams in area of least traffic, out of areas of pivoting traffic, and parallel to main traffic.
 - 2. Do not locate seams perpendicular through door openings.
 - 3. Align run of pile in same direction as anticipated traffic and in same direction on adjacent pieces.
 - 4. Locate seams the length of the area. Laddering or staggered seams not permitted.
 - 5. Locate change of color or pattern between rooms under door centerline.
 - 6. Provide monolithic color, pattern, and texture match within any one area.
- F. Install carpet tight and flat on subfloor, well fastened at edges, with a uniform appearance.

3.04 DIRECT-GLUED CARPET

- A. Double cut carpet seams, with accurate pattern match. Make cuts straight, true, and unfrayed. Apply seam adhesive to cut edges of woven carpet immediately.
- B. Apply contact adhesive to floor uniformly at rate recommended by manufacturer. After sufficient open time, press carpet into adhesive.
- C. Apply seam adhesive to the base of the edge glued down. Lay adjoining piece with seam straight, not overlapped or peaked, and free of gaps.
- D. Roll with appropriate roller for complete contact of adhesive to carpet backing.
- E. Trim carpet neatly at walls and around interruptions.

3.05 CLEANING

- A. Remove excess adhesive from floor and wall surfaces without damage.
- B. Clean and vacuum carpet surfaces.
- C. Remove and recycle debris from project site per 3.06.

3.06 Waste Management

- A. Contractor is to dispose of all waste material off site in accordance with local laws and regulations..

END OF SECTION

FORBO MARMOLEUM SHEET TECHNICAL DATA

(CONCRETE, FRESCO, PIANO, REAL, SPLASH, STRIATO, TERRA, VIVACE)

1. PRODUCT NAME & MANUFACTURER

1.1 Product:

Forbo Marmoleum linoleum sheet resilient floor covering

1.2 Manufacturer:

Forbo Flooring Systems US
8 Maplewood Drive
Hazleton, PA 18202
1-800-842-7839

Forbo Flooring Systems Canada
3983 Nashua Drive, Unit 1
Mississauga, ON L4V 1P3
1-800-268-8108 (English)
1-800-567-9268 (French)

www.forboflooringNA.com

1.3 Product Description:

Construction: Forbo Marmoleum is a homogeneous floor covering made from natural ingredients including flax seed oil, rosin binders, wood flour, limestone and dry pigments which are mixed and then calendared onto a natural jute backing.

Topshield is a high-performance finish. Its double UV cured double layer technology delivers extraordinary performance and clear and vibrant colors that remain over time. Topshield creates a 'ready to use' Marmoleum that requires no initial maintenance or polymer application. The surface can be repaired or refreshed in cases of accidents or after years of intensive use.

topshield

1.4 Physical Characteristics:

(dimensions are approximate)

Gauge ----- 1/10" (2.5 mm)
Backing ----- Jute
Width ----- 79" (2 meters)
Length ----- 105' (32 meters)
Roll Size ----- 77 yards² (64 meters²)

2. PRODUCT PERFORMANCE & TECHNICAL DATA

2.1 Reference Specification:

Meets or exceeds all technical requirements as set forth in ASTM F 2034 Standard Specification for Linoleum Sheet Flooring, Type I

2.2 Environmental:

100% USDA Certified BioBased Product.
Compliant with CDPH 01350 requirements for VOC emissions and indoor air quality.
Forbo Marmoleum contributes to LEED v4.1 credits. For additional information, contact Forbo Flooring Systems.

2.3 Flexibility:

Forbo Marmoleum will not crack or break when bent around a 25mm diameter cylinder, in accordance with ASTM F 137, standard test method for Flexibility of Resilient Flooring Materials.

2.4 Static Load Limit:

Residual compression of 0.002" with 250 pounds per square inch when tested in accordance with ASTM F 970-17, Standard Test Method for Measuring Recovery Properties of Floor Coverings after Static Loading.

2.5 Slip Resistance:

Meets or exceeds the industry recommendation of >0.5 for flat surfaces when tested in accordance with ASTM D 2047, Standard Test Method for Static Coefficient of Friction.

2.6 Castor Resistance:

Suitable for office chairs with castors when tested in accordance with ISO 4918, Castor Chair Test.

2.7 Acoustic Testing:

6dB when tested in accordance with ISO 717-2, Impact Sound Insulation Test.

2.8 Resistance to Bacteria:

Provides a self-sanitizing quality in the form of a bactericidal effect. Independent testing has shown that a sterile zone around the material inhibits the growth of organisms such as staphylococcus aureus and Clostridium difficile.

2.9 Anti-Static Properties:

Naturally anti-static. This property makes cleaning easier because dirt and dust does not cling to the surface as it may with other materials.

2.10 Fire Testing:

Class 1 when tested in accordance with ASTM E 648/ NFPA 253, Standard Test Method for Critical Radiant Flux. Meets 450 or less when tested in accordance with ASTM E 662/ NFPA 258, Standard Test Method for Smoke Density.

FSR – 150; SDC – 145 when tested in accordance to CAN/ULC S102.2, Standard Test Method for Flame Spread Rating and Smoke Development of Flooring Materials. Class C when tested in accordance to ASTM E 84/ NFPA 255, Standard Test Method for Surface Burning Characteristics.

FSR – 165, SDC – 145 when tested in accordance to CAN/ULC S102, Standard Test Method for Flame Spread Rating and Smoke Development of Wall Materials.

2.11 Cigarette Resistance:

Resists cigarette burns. Burning cigarettes will leave only a brown mark, which can be rubbed out using steel wool or a scouring pad.

2.12 Chemical Resistance:

(Exposure Time – 1h)*

Acetic Acid (5%)-----	No Effect
Acetone-----	No Effect
Ammonia (5%)-----	No Effect
Betadine-----	No Effect
Bleach-----	No Effect
Brown or Black Hair Dye-----	No Effect
Brown or Black Shoe Polish-----	No Effect
Gasoline-----	No Effect
Gel Hand Sanitizer-----	No Effect
Hot Chili Paste-----	No Effect
Hydrochloric Acid (5%)-----	No Effect
Iodine-----	Slight Color Change
Isopropyl Alcohol (70%)-----	No Effect
Kerosene-----	No Effect
Methylene Blue-----	No Effect
Mineral Oil-----	No Effect
Olive Oil-----	No Effect
Phenol (5%)-----	No Effect
Sodium Hydroxide (5%)-----	No Effect
Sodium Hypochlorite (5%)-----	No Effect
Sulfuric Acid (5%)-----	No Effect

Tested in accordance with ASTM F 925, Standard Test Method for Resistance to Chemicals of Resilient Flooring.

*Forbo Marmoleum is NOT resistant to prolonged exposure to high alkalis.

3. INSTALLATION

3.1 Adhesive:

Use Forbo Sustain 1195, Forbo Sustain 100, Forbo L 885, or Forbo 660 adhesive.

3.2 Seaming:

Heat welding is not necessary for all installations; however, it is optional. For seamless, hygienic watertight installation requirements, use Forbo Marmoweld welding rod.

Welding rod dimensions: 4 mm; 165 linear feet per spool.

3.3 Conventional Fit Seams:

All Marmoleum sheet products should be installed utilizing conventional fit seams.

3.4 Heat Welding Is Not Required:

Forbo's preferred seaming method for Marmoleum is using Forbo Marmoweld ETU. Marmoweld ETU is a color-matched paste weld used to complete the installation of Forbo Marmoleum in place of heat welding. To use, sparingly apply Forbo Marmoweld ETU to all seams on the floor with a 1" (2.54cm) putty knife or plastic applicator. Ensure there are no sharp or damaged edges on the applicator that might scratch or damage the Forbo Marmoleum. Wipe all excess Forbo Marmoweld ETU off the surface of the Forbo Marmoleum with a clean, damp white cloth.

3.5 Flash Coving (OPTIONAL):

Forbo recommends using ArmorCove, Forbo's fully integrated coving system that is comprised of a 1-piece aluminum cove-former, full vertical backing and cap, with Marmoleum as the finished surface. It is puncture-proof and water resistant.

For traditional flash coving: Flash cove up walls to the desired height. Use Forbo Sustain 1195, Forbo Sustain 100, or Forbo L 885 adhesive.

3.6 Installation Guidelines:

Forbo does NOT recommend the application of adhesive tape on Marmoleum. Adhesive tape may cause damage to the factory coating of resilient flooring products. When using floor protection materials, tape the seams of the floor protection together and secure the floor protection by weighing down in corners and against walls. DO NOT secure floor protection materials by taping them directly to the surface of resilient floor coverings.

Refer to Forbo's Installation Guidelines for complete installation recommendations.

4. WARRANTY

Limited 30-year warranty. For complete details, contact Forbo Flooring.

5. CARE & CLEANING

Refer to Forbo's Floor Care Guidelines for complete care recommendations.

ITB #6067 Flooring Installation Services (Federal)

Section 00300 Bid Form BIDDING SCHEDULE REV ADDENDUM #3 REVISION

Bid From (Firm Name):

DIRECTIONS: Fill out all fields highlighted in green.

Bid Items	LABOR COSTS BY WORK TYPE (Refer to Sections 011000, 09 65 00, 09 68 13, 09 68 16, and technical standards for detailed description of Bid Items)	Unit Type	Unit Price Fully Burdened Labor Rate	Quantity*	Lump Sum / Extended Amount
LABOR - Subject to Prevailing Wage					
1a	Replace or Install Soft Floors, incl but not limited to: Carpet, Sheet Vinyl, Vinyl Composite Tile, Vinyl Plank	HR	\$	2000	\$
1b	Additional Cost to Replace or Install Soft Floors on Stairs	HR	\$	750	\$
1c	Soft Floor Repair	HR	\$	750	\$
1d	Additional Cost for Soft Floor Repair on Stairs	HR	\$	300	\$
1e	Demolition	HR	\$	750	\$
1f	Floor Preparation	HR	\$	500	\$
1g	General Labor	HR	\$	750	\$
1h	Hazardous Materials Abatement	HR	\$	300	\$
1i	Replace or Install Quarter Round or Rubber Base	HR	\$	200	\$
1j	Replace or Install Rubber Tread	HR	\$	200	\$
LABOR TOTALS					
2	Sum of Extended Amounts for Labor (Sum of Bid Items 1a through 1j)				\$

Bid Items	EQUIPMENT	Unit	Quantity*	Unit Price/ Markup %	Lump Sum / Extended Amount
3	Equipment Estimated Quantity		\$ 75,000.00		\$ 75,000.00
4	Equipment Mark-up Percentage			%	
5	Equipment Mark-up Amount (Bid Item 3 x Bid Item 4) (Do not include Bid Item 3 in this amount.)				\$

ITB #6067 Flooring Installation Services (Federal)

**Section 00300 Bid Form
BIDDING SCHEDULE REV
ADDENDUM #3 REVISION**

Bid From (Firm Name):

***DIRECTIONS:** Fill out all fields **highlighted in green**.*

Bid Items	MATERIAL COSTS (Refer to Sections 011000, 09 65 00, 09 68 13, 09 68 16, and technical standards for detailed description of Bid Items)	Unit	Quantity*	Unit Price/ Markup %	Lump Sum / Extended Amount
6	Carpet Square or Tiles	SQ FT	3000	\$	\$
7	High Pile Carpet	SQ FT	3000	\$	\$
8	Low Pile Carpet	SQ FT	15000	\$	\$
9	Quarter Round	LF	2000	\$	\$
10	Rubber Base	SQ FT	8500	\$	\$
11	Rubber Tread	EACH	1000	\$	\$
12	Sheet Vinyl	SQ FT	15000	\$	\$
13	Vinyl Composite Tile (VCT)	SQ FT	3000	\$	\$
14	Vinyl Plank	SQ FT	15000	\$	\$
15	Carpet Padding	SQ FT	21000	\$	\$
16	Underlayment	SQ FT	54000	\$	\$
17	Floor Adhesive	GAL	50	\$	\$
18	Transition Strips	EACH	500	\$	\$
19	Tack Strips	EACH	500	\$	\$
20	Material Mark-up Percentage			%	
21	Material Mark-up Amount ((Sum of Bid Items 6-19) x Bid Item 20) (Do not include Bid Items 6-19 in this amount.)				\$

Bid Items	SUBCONTRACTOR COSTS	Unit	Quantity*	Unit Price/ Markup %	Lump Sum / Extended Amount
22	Subcontractor Estimated Quantity		\$ 50,000.00		\$ 50,000.00
23	Subcontractor Mark-up Percentage			%	
24	Subcontractor Mark-up Amount (Bid Item 22 x Bid Item 23) (Do not include Bid Item 22 in this amount.)				\$

ITB #6067 Flooring Installation Services (Federal)
Section 00300 Bid Form
BIDDING SCHEDULE REV
ADDENDUM #3 REVISION

Bid From (Firm Name): _____

***DIRECTIONS:** Fill out all fields highlighted in green .*

Bid Items	PUBLIC WORKS REQUIRED COSTS	Unit	Quantity*	Unit Price/ Markup %	Lump Sum / Extended Amount
	Estimated Contract Value for Payment and Performance Bonds <i>P&P bonds required for Public Works projects</i>		\$ 600,000.00		
	Percentage of Contract Value Charged for Payment & Performance Bonds			10.00%	
25	Payment & Performance Bonds Cost Amount (Estimated Contract Value x Percentage)				\$ 60,000.00

TOTALS	
Basic Bid PRICE (Sum of extended amounts - Items 2 through 25) WITHOUT WA STATE SALES TAX:	\$
WA State Sales and Use Tax - ON MATERIALS ONLY: 10.35%	\$
Basic Bid TOTAL COST Including Sales and Use Tax (on materials only):	\$

*The quantities shown are an estimate only, being given only as the basis for the comparison of bids. SHA does not warrant, expressly or by implication that the actual amount of work will correspond therewith, the right to increase or decrease the amount of the work to eliminate one or more items prior to or following award is reserved by SHA.

Seattle Housing Authority is not responsible for any errors in formulas or bidder's calculations.

Bidding schedule in Excel format available upon request by emailing: purchasing@seattlehousing.org

BIDDER DETAILS
Contractor Company Name: _____
Name of Contractor Representative Signing: _____
Title of Contractor Representative Signing: _____
Contractor Signature: _____
Date: _____