C. Restrooms: Install, grout and clean ceramic tile in accordance with referenced TCA installation details and ANSI standard specifications for setting methods scheduled.

- 1. Lay tile in horizontal stack bond, starting pattern with a full tile at the top of the base. 2. Arrange pattern so that a full tile or joint is centered on each wall horizontally and that no tile less than 1/2 width is used at the ends of the wall. Exception: when one end of wall is an outside corner. Do not interrupt tile pattern through openings.
- 3. Use corner bead of 100% silicone sealant, color to match grout, at inside corners where tile meets tile. 4. Use corner bead of 100% silicone sealant, white, at inside corners where tile meets paint gyp. board,
- tile meets FRP or tile meets aluminum. 5. Cut and fit tile to penetrations through tile, leaving sealant joint space. Place tile joints uniform in
- width, subject to variance in tolerance allowed in tile size. Make joints watertight, without voids, cracks, excess mortar, or excess grout.
- 6. Sound tile after setting. Replace hollow sounding units.
- Keep expansion joints free of adhesive or grout. Allow tile to set for a minimum of 48 hours prior to grouting. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes. 8. Clean tile and grout surfaces.

### SECTION 09510 - SUSPENDED CEILING SYSTEMS

1.1 General: Provide acoustical ceiling systems as shown and specified.

- A. Standards: Materials and installation shall conform to the following:
- 1. CISCA "Acoustical Ceilings Use and Practice." 2. ASTM C635.
- 3. ASTM C636.
- B. Related Sections:
- 1. 09515 Cementitious Wood Fiber Acoustical Panels: Suspension system.

## 2.1 Materials:

- A. Manufacturer: USG Interiors, Inc., (800) 950-3839, internet www.usg.com
- B. Ceiling Panels: USG "Sheetrock Lay-In ClimaPlus No. 3270" ceiling panels with white, stipple texture, vinyl facing, 24" x 48" x 1/2".
- C. Suspension System: Provide intermediate duty, structural class, direct hung systems adequate to support light fixtures, ceiling diffusers and other normal accessories. 1. Exposed "Tee" Grid System for use with Lay-In Ceiling panels: USG "Donn DX System" non-fire rated with 15/16" exposed face, cold-rolled galvanized steel with aluminum face cap, white paint finish on exposed surfaces. Provide hemmed edge aluminum wall angles, 15/16" exposed leg, white paint finish matching
- exposed grid 2. Concealed "Tee" Grid System for use with Painted Gypsum Board Ceilings & Soffits or with Cementitious Wood Fiber Acoustical Panels (Tectum): USG "DGLW" Heavy Duty Drywall Suspension System with 1 5/8" deep by 1 1/2" wide main tees and 1 1/2" deep by 1 1/2" wide cross tees. 3. Hanger Wire: No. 12 SWG galvanized steel wire.
- 3.1 Installation
- A. Install acoustical ceiling materials and suspension systems in strict accordance with manufacturer's recommendations, complying with governing regulations and industry standards applicable to the work.
- B. Suspension system installation shall be laser leveled with a maximum surface leveling tolerance of 1/8" in 12'-0".
- C. Install exposed Tee suspension systems with main tees nominally 12 feet long spaced 48 inches O.C. and cross tees nominally 4 feet long spaced 24 inches O.C.
- D. Install concealed Tee suspension systems with main tees nominally 12 feet long spaced 24 inches O.C. and cross tees nominally 2 feet long spaced 48 inches O.C.
- E. Hanger wire shall be spaced 48" O.C. along main tees, at all four corners of light fixtures (where applicable), at midpoint of cross tees adjacent to light fixtures and duct outlets, and adjacent to main tee splices.
- F. Secure wire hangers by looping and wire-tying either directly to building structure or to hangers that are secure and appropriate for substrate.
- G. Provide edge trim molding at perimeter of acoustical ceiling installation and intermediate vertical surfaces. Use maximum lengths. Miter trim corners to Provide tight, accurate joints. Connect moldings securely to substrate surfaces.

### SECTION 09515 - CEMENTITIOUS WOOD FIBER ACOUSTICAL PANELS

- 1.1 General: Provide Cementitious Wood Fiber Acoustical Panels as shown and specified.
- A. Related Sections: 09510 Suspended Lay-In Ceiling Systems: Tee grid suspension system.
- 2. 09900 Paints and Coatings: Acoustical Panel Paint Finish
- 2.1 Materials:
- A. Acoustical Panels: Equal to Tectum, Cementitious wood fiber acoustical panels. Tectum Inc. (888) 977-9691. internet: www.tectum.com
- B. Panel Size: Nominally 1 inch thick, see plan for panel sizes.
- C. Factory Finishes:

(un-finished) acoustical panels.

- 1. Natural (no finish). Factory Painted Natural (where panels are indicated to be field painted). 3. Factory Painted White.
- D. Insulation: Fiberglas Sound Batts, 3 1/2 inches thick per plan.
- E. Screws: Use pre-finished, natural-colored drywall screws or field paint screw heads when installing natural
- F. Accessories: Natural touch-up paint by panel manufacturer.
- G. Suspension System: Provide where indicated. Provide Armstrong 'Axiom' 6" classic trim (AX6STR) white,
- suspend with 12 ga. wire hangers hung at 48" O.C. max.
- 3.1 Installation
- A. Attach acoustical panels to substrates as follows:
- 1. Wood Joists or Trusses: Attach acoustical panels directly to wood framing members, where indicated, with 2 1/4 inches minimum length drywall screws spaced at 12 inches O.C. maximum across width of panels in rows no more than 24" O.C. Install additional wood framing and/or blocking as necessary to ensure that framing members for panel attachment are spaced no more than 24 inches apart. Do not attach acoustical panels directly to wood roof sheathing to avoid roofing membrane puncture.
- 2. Steel Roof Deck: Attach acoustical panels directly to steel roof deck bottom flute, where indicated, with 1 3/4 inch minimum length self-tapping drywall screws spaced at 12 inches O.C. maximum across width of panels in rows no more than 24" O.C. Install sheet metal straps directly to bottom of steel deck where necessary to form an attachment surface along panel edges.
- 3. Ceiling Suspension System: Attach acoustical panels to lay-in ceiling suspension systems, where indicated, with 1 3/4 inch minimum length self-tapping drywall screws spaced at 12 inches O.C. maximum across width of panels in rows no more than 24" O.C.
- B. Install panels as indicated per plan.

## 

- A. Standards: Materials and installation shall conform to the following: 1. NOFMA "Hardwood Flooring Installation Manual." 2. NOFMA "Hardwood Flooring Finishing/Refinishing Manual."
- of moisture content. Maintain temperature range of 60° F to 70° F before, during and after installation of flooring.

### 2.1 Materials:

- groove edges.
- the flooring manufacturer.
- C. Underlayment: APA-CC-EXT plywood underlayment, minimum 3/4" thick.

### 3.1 Installation:

- A. Preparation: Before installing flooring, clean and inspect substrate surfaces. 1. Clear away debris, scrape up cementitious deposits; remove sealers, dust, dirt, oil, grease and other substances detrimental to proper performance of wood flooring. cured and are ready to receive flooring. lapped 4". All joints sealed with tape. 3. Install single layer of plywood underlayment. Space joints 1/4" on all sides.
- Vacuum underlayment surface clean immediately before flooring installation.
- applications indicated.
- two fasteners per strip. Countersink all nail heads.
- 2. Provide expansion space at all wall lines.
- that entire surface of floor is level and smooth without ridges or cups.

### SECTION 09653 - RUBBER WALL BASE

## 1.1 General: Provide resilient rubber wall base as shown and specified.

A. Standards: Materials and installation shall conform to the following: 1. ASTM D 2240 Rubber - 85 Shore A

### 2.1 Materials:

### A. Manufacturer: 1. Johnsonite, Inc., (800) 899-8916, internet: www.johnsonite.com

- B. Resilient Rubber: .125" (3.17 mm) Thickness "Black" color
  - Straight (toeless)
- C. Setting Adhesive: Johnsonite 960 Acrylic Cove Base Adhesive

### 3.1 Installation:

- A. Preparation: Clean substrate surfaces scheduled to receive resilient rubber and vinyl wall base thoroughly and remove
- will be exposed to drastic temperature changes or moisture.
- accordance with manufacturer's instructions.

## SECTION 09705 - RESINOUS FLOORING (KITCHEN AND RESTROOMS)

A. Related Section:

## 1. Concrete Division 3.

- B. Accepted manufacturer installers:

C. Delivery, Storage and Handling: Deliver material to job in clean, clearly labeled containers and inspect prior to start of job.

### regulations

- D. Environmental Requirements:
- of no less than 80 ft. candles measured at floor surface.
- 4. Free area of other trades during and for a period of 24 hours after floor installation.
- 5. Protect finished floor from damage by subsequent trades.
- Warranty:

### 2.1 Products

A. Product Description manufactured as supplied by Dur-A-Flex, Inc 800-253-3539.

### 2. Cove Base:

- to clean cove face).

- - surface preparation and finish texture.

1.1 General: Provide wood flooring as shown and specified.

### B. Delivery, Storage and Handling: Place wood flooring materials in rooms or spaces to receive flooring a minimum of 48 hours before the start of installation. Open packages of sealed flooring to permit natural adjustment

A. Wood flooring: 3/4" x 2-1/4" kiln-dried, #2 Select Red Oak hardwood strip flooring, plain sawn, tongue and

1. Standard random lengths complying with NOFMA grading rules.

B. Fasteners: Screw type flooring nails, fully barbed flooring brads or machine driven fasteners as recommended by

2. Perform bond and moisture tests on concrete slabs to determine that concrete surfaces are sufficiently a. When moisture is present, install a single layer of polyethylene vapor barrier over concrete, all edges

B. Install wood strip flooring in accordance with NOFMA standards, instructions and recommendations for the

1. Blind nail wood strip flooring into plywood underlayment. Space fasteners at 8" intervals, with minimum

C. Sanding: Allow installed wood strip flooring to acclimate to building conditions before sanding. 1. Machine sand in accordance with manufacturer's recommendations. Clean with power vacuum. Verify

D. Finish: Finish installed wood flooring with two coats of clear urethane floor finish. Provide surface preparation, finish materials and application conforming to Section 09900 -Paints and Coatings requirements.

4. Inside and outside corners with 4" returns.

all coatings that may impair bond. A uniform temperature of at least 65 degrees Fahrenheit shall be maintained for 24 hours before, during and after the installation is completed. The wall base and adhesives shall be conditioned in the same manner. Coiled wall base shall be uncoiled and lay flat for at least 24 hours at 65 degrees Fahrenheit prior to installation. Floor and walls shall be clean, dry, and free of dust, all paints, wallpaper, and all other foreign material, which may affect proper adhesive bonding. Wall base may be installed on interior plaster, gypsum wall board, concrete, masonry, mineral-reinforced cement board or similar porous surfaces. Wall base shall not be installed on surfaces that

B. Application: Use a 1/8" square notch trowel to apply adhesive. Allow adhesive to set up and then apply wall base in

1.1 General: Provide labor and material for a 1/4 inch thick seamless cementitious urethane flooring system, including cove base,

### 1. Contact John Conway, Dur-A-Flex Inc. Director of Business Development, 860-528-9838 johnc@dur-a-flex.com for list of approved installation contractors for either new or renovation Chipotle projects. 2. The installer shall have been approved by the flooring system manufacturer in all phases of surface preparation and application of the product specified. The specific contractor will be formally accredited as a "Tier One Strategic

Account - Restaurant Installer". A letter stating these credentials shall be provided by the installation contractor.

Store material in a dry enclosed area, out of direct sunlight protected by the elements. Keep temperature of storage area between 60 F and 85 F, in accordance with the Manufacturer's recommendations and relevant health and safety

Refer to Technical Department for application of Poly-Crete MDB before 14 days of new concrete installation. Verify that substrate is properly equipped with vapor barrier and perimeter drains. Verify supply of adequate utilities including electric, water, heat, air conditioning (between 50 F and 85 F) and lighting

1. Submit a one year warranty against defects in material and workmanship upon substantial completion of installation.

# Poly-Crete MDB multiple component, seamless trowel applied system with Poly-Crete CF dark grey topcoat as

a. For applications below 85 degrees slab temperature: Use Poly-Crete WR to form and design cove bases. Poly-Crete WR will set up quickly if working temperature reaches top end of application limits. b. For applications above 85 degrees slab temperature: Switch from Poly-Crete WR to an epoxy cove system using Flintshot aggregate and Glaze 4 Cove-Res with Water-Clear Hardener. Surface of cove base to receive two topcoats of Poly-Crete CF dark grey as manufactured and supplied by Dur-A-Flex, Inc. 800-253-3539 (First Coat is considered as a grout coat, second coat will be applied in such a way to provide a smooth, easy

### PHYSICAL PROPERTY TEXT METHOD RESULT 2.1 Manufacturers: Percent Reactive 100% VOC Content 0 g/l A. Manufacturer: Richlite Company, Contact: Sergei Hasegawa; New York Office, 66 North 11th Street; Brooklyn, NY 11249; Tel: 718-715-0843; Mobile: 718-986-9265; Fax: 718-210-3595; Email:(sergei@richlite.com); Web: www.richlite.com Bond Strength to Concrete ASTM-D-4541 400 psi, substrate fails ASTM C-579 7,400 psi Compressive Strength 2.2 Application: ASTM D-638 1,800 psi ensile Strength >160 inch lbs with no visible Impact Resistance @ 125 mils MIL D-3134 damage or deterioation architectural wall panels applied over a sheathed stud wall or other solid blocking per Drawings. 2.3 Phenolic Wall Panels: C. Product Mixing: A. Phenolic Composite Wall Panels: Richlite wall panel material: 1. Mix on site with manufacturer supplied pre measure kits and approved mixing equipment to ensure a timely, 1. Solid wall panel material manufactured of thermosetting resins, homogeneously reinforced with wood-based accurate mix ratio and minimize waste. fibers that are heated and compressed to become a solid sheet material. Color: Black Diamond 3.1 Execution 3. Finish on Exposed Surfaces: Matte, with shop-applied surface sealer. Thickness: A. Preparation: a. 1/4" minimum 1. Perform anhydrous calcium chloride test ASTM F 1869-98. Application will proceed only when the vapor/ b. 5/16" moisture emission rates from the slab is less than and not higher than 12 lbs/ 1,000 sf/ 24 hrs. Or perform 5. Physical Properties: relative humidity test using is situ probes, ASTM F 2170. Proceed with installation only after substrates have a. ASTM E 831-06 Coefficient of linear thermal expansion: a maximum 92% relative humidity level measurement. 1) X Direction edge 11.7 µm/(m degreesF) 2. Create a surface profile having a minimum profile of CSP 4-6 as described by the international Concrete 2) Y Direction edge 6.46 µm/(m degreesF) Repair Institute with a steel shot blast machine, scarifier or dust-free diamond grinders 3) Z Direction face 39.3 &mirco;m/(m degreesF)

3. Verify that the surface is dry and perfectly clean, free of all dust, preparation debris, oil, grease, detergent film, sealer and/ or curing compounds.

B. Installation:

- 1. Application may proceed only while air, material and substrate temperatures are between 50 F and 85 F providing the substrate temperature is above the dew point.
- 2. Wherever a free edge will occur, including doorways, wall perimeters, expansion joints, columns, drains and equipment pads, a 1/4 inch deep by 1/4 inch wide keyway shall be cut in. 3. Cracks and joints (non-moving) greater than 1/4 inch wide are to be chiseled or chipped out and repaired
- per manufacturer's recommendations.
- 4. Shallow Fill and Patching: Use Dur-A-Flex, Inc. Poly-Crete MD (up to 1/4 inch). 5. Deep Fill and Sloping material (over 1/4 inch): Use Dur-A-Flex, Inc. Poly-Crete WR.
- 6. Prime lower wall area to accept cove base with Dur-A-Flex Glaze 4 Cove-Res mixed with Glaze 4 Water-Clear hardener. Extend Primer material to floor at least 2 inches out from the base of wall.

### 7. Install a 4 or 5 inch high integral cove base at perimeter wall prior to installing the flooring system. 8. Cove base to be created using Poly-Crete WR or Dur-A-Flex Cove Res mixed with Glaze 4 Water-Clear hardener and Dur-A-Flex flintshot aggregate (Epoxy cove bases should only be considered when slab temperature is above 85 degrees F).

- 9. When cove base has cured, apply an initial grout coat of Poly-Crete CF. Allow grout coat to dry. 10. Install flooring system with flintshot aggregate broadcast into the Poly-Crete MD at an approximate rate of 1/2 lb. per square foot. Aggregate should be broadcast to rejection.
- 11. Allow floor to cure for at least 8 hours. Sweep and vacuum all loose flintshot aggregate. 12. Using the edge of a steel trowel or a rub stone, remove any surface defects that may have been caused by broadcasting the flintshot aggregate in a lateral direction. Note: Flintshot should always be broadcast in an upwards motion to allow the sand to land softly on the surface of the wet Poly-CreteMD.
- 13. Clean and Vacuum floor a second time prior to the application of the Poly-Crete CF top-coat. 14. Seal the floor and coves with Poly-Crete CF at recommended spread rate. 15. Surface of cove base and floor to cove transition points must remain smooth and provide a resulting easy

### to clean surface. Maintain an average 3/4 inch radius cove base transition. Provide careful attention to details to prevent top-coat puddles or surface irregularities that could snag a cleaning mop or collect dirt/ debris.

SECTION 09770 - SPECIAL WALL SURFACING - PHENOLIC INTERIOR WALL PANELS

1.1 General: Provide paper/phenolic composite wall panels and accessories for interior walls and millwork as shown and specified.

- 1.2 Related Sections:
- A. Section 05400 Cold Formed Metal Framing
- B. Section 06210 Finish Carpentry and Millwork
- C. Section 07900 Joint Sealers
- D. Section 09260 Gypsum Board Systems
- 1.3 Standards: Materials and construction shall conform to the following:
- A. ASTM D 638 Standard Test Method for Tensile Properties of Plastics
- B. ASTM D 2240 Standard Test Method for Rubber Property Durometer Hardness
- C. ASTM D 6272 Standard Test Method for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials by Four-Point Bending
- D. ASTM E 84 Standard Method for Surface Burning Characteristics for Building Materials
- E. ASTM E 831 Standard Test Method for Linear Thermal Expansion of Solid Materials by Thermomechanical

### 1.4 Design/Performanance Requirements:

- A. Design and size of wall panel assemblies including wall panels, mounting system to support weight of panels.
- B. Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on expected movement of material as defined in fabrication guidelines.

### 1.5 Quality Assurance:

- A. Manufacturer Qualifications: A single manufacturer with a minimum of ten years experience.
- B. Installer Qualifications: Company specializing in installing work similar in material, design, and extent to that indicated for this Project, and with a minimum of three years documented experience.

### 1.6 Delivery, Storage and Handling:

- A. Refer to Section 01400 Quality Requirements.
- B. Deliver products packaged to minimize damage during shipping. Include items such as wooden side boards, wooden lids, and spacers or protective sheeting between panels to protect the panels from surface and/or edge damage.
- C. Store products in manufacturer's unopened packaging until ready for installation. Store products in an enclosed area protected from direct sunlight, moisture and heat. maintain a consistent temperature and humidity. Do not store sheets, or fabricated panels vertically.
- D. When moving sheets, lift evenly to avoid dragging panels across each other and scratching the surface. Remove all labels and stickers immediately after installation
- 1.7 Scheduling:
- A. Coordinate wall panel assemblies with flashing, trim, and other adjoining work to provide a complete installation.
- B. Ensure that products of this section are provided in time to prevent interruption of construction progress.

### 1.8 Project Conditions:

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
- B. Field Measurements: Verify locations of structural members and wall opening dimensions by field measurements before composite wall panel fabrication and indicate field measurements on Shop Drawings.
- 1.9 Warranty:
- A. 20 Year Limited Warranty for Commercial Use.

A. Apply Phenolic Composite Wall Panels at walls and other surfaces as indicated on the Drawings. Phenolic Composite all Panels are

- b. ASTM D 2240 Hardness / Shore D:
- 1) Face 92 average. 2) Edge 91 average.
- c. ASTM D 638-08, Tensile Strength and Tensile Modulus:
- 1) X Direction Tensile Strength face (psi) 14,600
- 2) Y Direction Tensile Strength face (psi) 18,100 3) X Direction Tensile Modulus face (Msi) 1.15
- 4) Y Direction Tensile Modulus face (Msi) 1.68
- d. ASTM D 6272-02, Flexural Strength and Flexural Modulus: 1) X Direction Flexural Strength face (Ksi) 18.8
- 2) Y Direction Flexural Strength face (Ksi) 23.6
- 3) X Direction Flexural Modulus face (Msi) 1.16 4) Y Direction Flexural Modulus face (Msi) 1.68
- 6. Fire Performance:
- a. Flame Spread: Class A, ASTM E 84. b. Smoke Development: Less than 450, ASTM E 84.

2.4 Accessories:

A. Panel Fasteners: #10 x 1-1/4" flat phillips head black oxide wood screws to be used with wood blocking and #10 x 1-1/4" flat phillips head black oxide sheet metal screws to be used with sheet metal blocking as recommended by the manufacturer.

B. Provide exposed fasteners with heads matching color of composite wall panels by means of factory-applied coating.

Wall Panel Accessories: Provide components required for a complete composite wall panel assembly including trim, flashings, sealants, gaskets, fillers, closure strips, and similar items. match material and finish of composite wall panels unless otherwise indicated.

### 2.5 Fabrication:

A. General: Fabricate and finish composite wall panels and accessories at the fabrication location to greatest extent possible, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements.

B. Fabricate panels to comply with indicated panel layout, profiles and configurations; and with dimensional and structural requirements.

. Edge Treatment: Fabricate panels with eased sanded edges

Form panel lines, breaks, and angles to be sharp and true, with surfaces free from warp and buckle.

- 3. Fabricate panels with sharply cut edges, with no displacement of face sheets or protrusion of core material. 4. Sand and prepare surfaces with 150 grit sandpaper and maroon scotchbrite per manufacturers fabrication
- 5. Drill through holes to have tolerance for expansion and contraction.
- 6. Dimensional Tolerances:
- a. Panel Bow: 0.8 percent maximum of panel length or width. b. Squareness: 0.25 inch maximum.

C. Finish:

1. Apply manufacturer recommended finish of "Richlite Enhancer" 2. Finish to be applied in the shop and not on site.

Touch up for site work use "Richlite Enhance

### 3.1 Examination:

panel systems.

A. Do no begin installation until substrates have been properly prepared.

B. Surfaces to receive panels shall be even, smooth, dry, and free from defects detrimental to installation of the

C. Examine wall framing to verify that panel support members and anchorage have been installed, with no deflection

greater than 1/4 inch in 20 feet (L/240).

D. Confirm interior sheathing is plumb and level, with no deflection greater than 1/4 inch in 20 feet (L/240).

### E. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 Preparation:

A. Clean Surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions

### 3.3 Installation:

A. Install in accordance with manufacturer's instructions.

B. Install solid phenolic wall panels plumb and level and accurately spaced.

C. Anchor panels and other components of the Work securely in place, with provisions for thermal and structural

D. Shim or otherwise plumb substrates receiving composite wall panels.

E. Do not use construction adhesives to apply wall panels directly to substrates or wall board. Use mechanical

## fasteners only.

movement.

3.4 Erection Tolerances:

A. Shim and align composite wall panel units within installed tolerance of 1/4 inch in 20 feet, non-accumulative, on level, plumb, and location lines as indicated and within 1/8 inch offset of adjoining faces and of alignment of matching profiles.



Consultant











Issue Record:	
09/15/15	PERMIT/LANDLORD REVIEW
Revisions:	
Drawn:	Checked:
TC, BP, DP	КН,ТС
10, 51, 51	Million (Million)
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Architectural **Specifications** 

A01

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