

DIVISION 09 – FINISHES

09 06 00 – Schedules for Finishes

Install the following finishes unless noted otherwise.

Space Type	Finish		
	Flooring	Wall	Ceiling
President	Determined on a case by case basis		
Vice President	Determined on a case by case basis		
Dean	Determined on a case by case basis		
Faculty / Staff Office	Carpet	Paint	2x4 ACT
Open Office	Carpet	Paint	2x4 ACT
Office Suite Reception	Carpet; Resilient Tile	Paint; Wall Covering	2x4 ACT
Classroom	Carpet	Paint	2x4 ACT
Classroom Lab	Resilient Tile	Paint	2x4 ACT
Research Lab	Resilient Tile; Resinous	Paint	2x4 ACT
Student Lounge	Carpet	Paint	2x4 ACT
Toilet Room	Resinous; Ceramic Tile	Ceramic Tile (wet wall); Paint	2x4 ACT; Gypsum Board
Food Preparation and Service	Epoxy	Determined on a case by case basis	
Corridor	Textile Composite	Paint	2x4 ACT
Vestibule / Entry	Resinous	Paint	Gypsum Board
Mechanical Room	Paint	N/A	N/A

09 30 00 – Tiling

1. General
 - a. This Section Includes:
 - i. Quartz tile
 - ii. Ceramic tile
 - iii. Porcelain tiles
 - b. Locations: Toilet room floors, 'wet walls' and within 48" of plumbing fixtures, building entries, and vestibules
2. Products
 - a. Manufacturers: Dal-tile; Crossville
 - b. Epoxy grout; verify final selections with RIT prior to ordering / installing
3. Execution
 - a. Maintain minimal grout lines by using larger floor tile.

09 51 00 – Acoustical Ceilings

1. General
 - a. Design to minimize hard ceilings and provide maximum access to utilities above ceiling.
 - b. Replacement Work: match existing tile, when possible, provide standard tile and grid
 - c. All ceiling systems (grid and tile) to white, unless otherwise approved by RIT FMS Planning & Design.
2. Ceiling Height
 - a. Classrooms, Labs, Conference Rooms, and Seminar Rooms shall be 10 feet - 0 inch, not to exceed 11 feet - 0 inch, with the following exceptions:
 - i. Classrooms, Conference Rooms, and Seminar Rooms under 30 seats can be reduced to 9 feet 6 inch.

- ii. Classrooms and Auditoriums of over 65 seats should be considered an exception and the height should be raised as sight line and considerations dictate.
 - b. Offices and corridors should have a minimum ceiling height of 9 feet - 0 inch except for large office spaces and special corridors, which may be taller.
- 3. Material – Standard Specification (academic areas, classrooms, labs, and offices)
 - a. Tile: mineral board non-directional fissured, 2 feet x 4 feet x 5/8 inch, white, lay-in or tegular, sag-resistant, Class A, minimum 30 year limited warranty
 - b. Grid System: 15/16 inch exposed tee system, heavy-duty service, white
 - c. Basis for design:
 - i. Armstrong; Fine Fissured 1714 and Prelude XL or ML
 - ii. USG; Radar ClimaPlus High-durability (Educational)
- 4. Material – Special Area Specification (public areas and circulation spaces)
 - a. Review with the Director of Planning and Design Services.
 - b. Tile: Non-directional fissured, 2 feet x 4 feet x 3/4 inch, white, tegular, sag-resistant, Class A minimum 30 year limited warranty
 - c. Grid system: 15/16 inch exposed tee system, heavy-duty service, white
 - d. Basis for Design:
 - i. Armstrong Cirrus Open Plan (15/16 inch square lay-in or angled tegular)
 - ii. Armstrong Cirrus Second Look I and II (beveled tegular)
 - iii. USG Frost square lay in or fineline bevel
- 5. Material – Support Area Specification (kitchens, bathrooms, locker rooms and some labs)
 - a. Tile: 2 feet x 4 feet x 5/8 inch, white, tegular, sag-resistant, min. xx year warranty
 - b. Grid system: 15/16 inch exposed tee system, heavy-duty service, white
 - c. Basis for Design:
 - i. Kitchens: Armstrong Ceramaguard
 - ii. Toilet Rooms: Armstrong Armatuff

09 61 00 – Common Work Results for Flooring

- 1. Surface Prep
 - a. The floor shall be a smooth dense surface, free of holes, cracks, protrusions and irregularities. Repairs shall be made as necessary to provide a smooth surface for carpet and cushion installation.
 - b. The floor shall be dry; new slabs shall be cured and dried; Floors should be vacuumed, mopped if necessary, and otherwise thoroughly cleaned prior to carpet installation. Excessive use of water for cleaning is not recommended, though mopping with a slightly damp mop is useful to remove dust from the floor surface.
 - c. Surface shall be free of dust and chemicals. All contaminants that may prevent good adhesion need to be removed.
 - d. When curing compounds, hardeners, sealers, or parting compounds have been used, they must be completely removed by sanding, sandblasting or grinding prior to the installation of materials as this will impair the bond of the adhesive. A MOISTURE TEST SHALL ALWAYS BE CARRIED OUT PRIOR TO INSTALLATION.
 - e. Floor preparation products may include but are not limited to:
 - i. Concrete slab primer
 - ii. Patching compounds
 - iii. Trowel-able underlayment

09 62 00 – Textile Composite Flooring

- 1. Refer to 09 68 00 – Carpeting.
- 2. Basis of Design: J+J Flooring Kinetex and Flotex flocked Flooring by Forbo

09 64 00 – Wood Flooring

- 1. The use of hardwood floors shall be avoided and requires the authorization by Campus Architect and Directors of Planning & Design and Building Services.

09 65 13 – Resilient Base and Accessories

- 1. Wall Base
 - a. Provide 4" cove base for all flooring types unless directed or noted otherwise.
 - b. Material: Roppe 1/8" 700 Series Vinyl Cove Base or Johnsonite 1/8" Traditional Cove Wall Base.

- c. Color selections: 123 Charcoal or 193 Black Brown
 - d. Exception: when less than 50% of the entire room is affected, provide base to match.
2. Stair treads and Risers
- a. Interior exit stair treads shall be rubber tread and riser
 - i. Extreme Heavy-duty rating
 - ii. Raised texture
 - iii. Neutral gray/brown color with contrasting color flecks
 - iv. Contrasting nosing insert for traction and visual feedback
 - v. Basis of design: 'Roppe #93 textured design profile in renew color "R123 charcoal", "R194 burnt umber", or "R193 black brown".'
 - b. Stair stringers shall not have exposed metal nosing that is part of the horizontal section of step.
 - c. All stair nosings in assembly areas (occupancy type) and egress stairs shall be finished so that adequate visual feedback is provided, via color.
 - d. Final selection approved by the RIT P&D department.

09 65 16 – Resilient Sheet Flooring

1. General
- a. RIT does not typically use sheet heterogeneous/homogenous vinyl or rubber due to difficulty in replacing and repairing damaged areas.
 - b. Heterogeneous/homogenous vinyl or rubber can be used in laboratory spaces and other locations as authorized by Campus Architect and Directors of Planning & Design and Building Services.

09 65 19 – Resilient Tile Flooring

1. General
- a. Section includes
 - i. Solid rubber tile (SRT)
 - ii. Solid vinyl tile (SVT)
 - iii. Luxury Vinyl Tile (LVT)
 - iv. Vinyl composition tile (VCT)
 - v. Flexible Terrazzo Tiles (FTT)
 - b. New and existing concrete subfloors should meet the requirements of the latest edition of ASTM F710, "Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring."
 - c. Locations: Solid vinyl tile, rubber tile, and resilient flexible terrazzo tiles are acceptable flooring product for use in public spaces, such as primary circulation areas.
 - i. **Vinyl composition tile should not be installed as a new flooring product. VCT can be used to patch and repair existing VCT installations and as authorized by Campus Architect and Directors of Planning & Design and Building Services.**
2. Product
- a. Minimum product specifications:
 - a. Rubber tile shall be class 1-A or 1-B per ASTM F 1344, homogeneous rubber. Rubber tile size shall be 12" x 12" or 24" x 24" and 1/8" minimum thickness.
 - b. Solid vinyl shall be monolithic tile compliant with ASTM F 1700, Class 1, rating. Tile size shall be 12"x 12" and 1/8" minimum thickness.
 - c. Resilient flexible terrazzo shall be composed of marble or granite chips with resin matrix. Tile size shall be 12" x 12" and 1/8" minimum thickness and should have a Class 1 Fire Ratings per ASTM tests E648, E662, E84.
 - d. Vinyl Composition Tile shall be Class 1 or Class 2 per ASTM F 1066. Tile should have color all the way through the cross section, not just on the surface. Select tiles with high static-load resistance to protect from indentation. Select appropriate tiles for resistance to chemicals found in the particular application. VCT tile size shall be 12" x 12" and 1/8" minimum thickness.
 - e. Resilient tile shall have a static coefficient of friction value of not less than 0.6 for level surfaces and 0.8 for ramped surfaces.
 - f. LVT/EVT shall have a minimum wear layer of 28 mils (.7mm) and a minimum 12 year limited warranty
 - a. Basis for design:
 - i. Tandus Centiva Commercial LVT – Event, Contour, and Victory
 - ii. Bentley LVT
 - iii. Mannington Commercial LVT 'Amtico'

- iv. Interface LVT
 - v. Fritztile Terrazzo Tile
3. Execution
- a. All adhesives shall be low odor and low VOC.
 - b. Elevator cab flooring shall be nora by Interface norament Arago “Unity” or approved equal; 40” x 20” tile. Alternates not accepted unless noted by RIT Planning & Design.

09 67 00 – Seamless Flooring

1. General
- a. Section includes
 - i. Methyl Methacrylate (MMA)
 - ii. Epoxy
 - iii. Polyurethane
 - b. Minimum 1 year warranty from installation date(s)
 - c. Minimum 1/8” thick
2. Products
- a. SW Decorative Mosaic Water-Based Coating System
 - i. Prime coat
 - ii. 1st Body coat
 - iii. Blended Flake Broadcast: full broadcast to refusal
 - iv. 1st Grout coat / 2nd Body coat
 - v. 2nd Blended Flake Broadcast: full broadcast to refusal
 - vi. Final Grout coat
 - vii. Urethane coat: matte finish
 - b. C.A. Reed Associates
3. Execution
- a. Seamless flooring systems should have integral wall bases (flash coving) to form a ‘bathtub’.
 - b. Installers shall provide all material spec sheets and MSDS information on product to FMS Project Manager prior to any installation
 - c. Finish level as specified by design professionals

09 68 00 – Carpeting

1. General
- a. Minimum product warranties required:
 - i. Lifetime non-prorated warranty covering delamination
 - ii. Lifetime non-prorated warranty covering edge ravel (seam zippering)
 - iii. Lifetime non-prorated warranty covering dimensional stability
 - iv. Lifetime non-prorated warranty covering resiliency
 - v. Twenty (20) year warranty against excessive surface wear or more than 15% loss of pile fiber weight measured before and after use.
 - vi. Twenty (20) year warranty for stain resistance
 - b. Approved Locations:
 - i. Offices and office suites
 - ii. Classrooms
 - c. Do not use carpet or carpet tile in the following areas:
 - i. Where food is prepared, served, or eaten
 - ii. Where dampness or water may be present, such as basements or below grade levels
 - iii. At main entrances, lobbies, main floor corridors
 - iv. Utility spaces such as mechanical and electrical rooms
 - v. In areas with wheeled traffic
 - vi. Laboratories
2. Product
- a. All products supplied to be as recommended/approved by carpet tile manufacturer
 - b. Supply calculated zero VOC, releasable, non-flammable, low odor, anti-microbial, non-toxic adhesive. Glue is to be used when requested at seams and peripheral edges only to significantly reduce removal cost and ability to install over VAT.
 - c. Characteristics, Performance and Test Procedure References

- d. Cut, loop, cut and loop and tip shear surface textures are allowed as long as they meet the 'Typical End-Use Description', as defined by CRI.
- e. Dimensional Stability: +/- 0.15% maximum per ISO 2551
- f. Delamination resistance of secondary backing: 2.5 lbs/inch minimum (if applicable) per ASTM D3936
- g. Colorfastness: as recommended by CRI per AATC16 and 16; Solution dyed nylon and dyed yarn are acceptable as long as warranty meets standard for colorfastness.
- h. Type 6-6 Nylon or alternates, as approved by Planning and Design, to be used throughout campus.
- i. Recycled content must be a minimum of 30% with minimum post-consumer recycled content of 5%
- j. Product shall contain no added anti-microbials
- k. Pre-attached, high performance backing, non-urethane preferred, with a minimum rating of NSF-140 Gold.
- l. Must meet the following certifications and bidders must provide proof of certification:
 - i. NSF/ANSI 140, platinum rating
 - ii. Carpet and Rug Institute's Green Label Plus program.
 - iii. 3rd party certified EPD (Environmental Product Declaration)
 - iv. Produced in ISO-14001 certified manufacturing facility
 - v. Cradle to Cradle Silver v3.0 certified
 - vi. TARR rating minimum of 3.0 (Heavy foot Traffic) to 3.5 (Severe +)
- m. All carpet shall be 100% recyclable and manufacturer of product shall offer 3rd party certified closed-loop recycling program.
- n. Manufacturers:
 - i. Bentley Mills
 - ii. Interface
 - iii. J & J Flooring Group
 - iv. Mannington Commercial
 - v. Masland Contract
 - vi. Milliken Floor Covering
 - vii. Mohawk Flooring
 - viii. Tandus Centiva Commercial

3. Execution

- a. Recycling
 - i. Carpet recycling options consist of:
 - 1. Repurposing: re-using product in another application such as donation to charity or not-for-profit organizations
 - 2. Closed loop recycling: turning waste materials of same value
 - 3. Open-loop recycling: creating other product types from the reclaimed product
 - 4. Waste-to-Energy: using carpet for waste-to-energy. This options is last resort and requires justification
 - 5. Landfill or incineration: are not approved disposal methods.
 - ii. All possible recycling options shall be clearly presented and submitted in writing to owner and agreed upon prior to start of job.
 - iii. At the completion of the project, a certificate shall be furnished verifying the reclamation of the carpet and the pounds of material diverted from the landfill
- b. Submittals
 - i. Where carpet color, style and accessories are not specified OR when alternates are proposed, samples of proposed product(s) must be submitted to Planning and Design for review and approval, a minimum of two weeks prior to ordering.
 - ii. Submit shop drawing showing installation orientation.
 - iii. Product data documenting results following tests by an NVLAP approved laboratory
 - 1. Electrostatic propensity
 - 2. Flooring radiant panel test
 - 3. Smoke density
 - 4. Pill test

09 72 00 – Wall Finishes

1. Ceramic Tile

- a. See 09 30 00
- 2. Polyethylene Terephthalate Glycol (PETG)
 - a. Used in kitchens and serveries
 - b. Basis of Design: Inpro Architectural Products Palladium Rigid Sheets
 - c. Install 8'-0" sheet directly above wall base
- 3. Fiberglass Reinforced Paneling
 - a. For use in kitchens and serveries.

09 91 23 – Interior Painting

- 1. General
 - a. Use water-based, acrylic paint systems with no VOCs only.
 - b. Door and window frames in solid walls are to be painted to match adjoining wall color. Wood doors are not to be painted. Flush metal doors may either be an accent color or the adjoining wall color.
 - c. All surface prep, product selection, including primer, and installation shall be per manufacturer's instructions and recommendations and appropriate to the surface material.
 - d. No whiteboard paint shall be allowed.
 - e. Colors: FMS has developed standard paint colors that may be updated on a 10-year +/- cycle. The purpose of these standard paint colors is to provide options to the end users and variety in the appearance of spaces while limiting the amount of paint colors the construction and maintenance departments work with. Variations from this standard are only permitted with specific prior and written permission from RIT FMS Planning & Design.

Neutrals

minimum 75% wall surfaces (three of four walls in a typical room)

- i. SW6385 Dover White
- ii. SW6148 Wool Skein
- iii. SW6120 Believable Buff
- iv. SW6182 Ethereal White
- v. SW6197 Aloof Gray
- vi. SW7655 Stamped Concrete
- vii. SW7006 Extra White
- viii. SW 7662 Evening Shadow
- ix. SW 7664 Steely Gray

Accents

maximum 25% wall surfaces (one of four walls in a typical room)

- x. SW6885 Knockout Orange
- xi. SW6688 Solaria
- xii. SW6710 Melange Green
- xiii. SW6501 Manitou Blue
- xiv. SW9074 Gentle Grape
- xv. SW7075 Web Gray

- 2. Products
 - a. Basis of Design: Sherwin Williams
 - i. Any alternates shall meet the performance specifications of the products below.
 - b. Concrete
 - i. Epoxy (Water-base)
 - 1. Prime coat: matching topcoat
 - 2. Intermediate coat: matching topcoat
 - 3. Topcoat: maximum MPI gloss level 3
 - a. Armorseal 8100 Satin #B70 series
 - b. Slip-resistant additive: micronized polymer coating addition
 - 4. Provide at mechanical rooms and 5' x 5' exterior access to mechanical rooms
 - ii. Latex
 - 1. Prime coat: latex
 - a. Matching topcoat for new concrete
 - b. Extreme Bond #B51 series for painted surfaces
 - 2. Intermediate coat: latex, low odor/VOC, matching topcoat
 - 3. Topcoat: latex, semi-gloss, MPI gloss level 5, MPI #147

- c. CMU
 - a. Promar 200 Zero VOC Semi-Gloss #B66 series
 - i. Latex
 - a. Block filler: latex, MPI #4
 - b. Pro Industrial Heavy Duty Block Filler #B42 series
 - c. Extreme Bond #B51 series for painted surfaces
 - 2. Intermediate coat: latex, low odor/VOC, matching topcoat
 - 3. Topcoat: latex, semi-gloss, MPI gloss level 5, MPI #147
 - a. Promar 200 Zero VOC Semi-Gloss #B66 series
- d. Ferrous Metal
 - i. Latex
 - 1. Prime coat: primer, rust-inhibitive, water based MPI #107
 - a. Pro Industrial Pro-Cryl Universal Primer #B66 series
 - 2. Intermediate coat: latex, matching topcoat
 - 3. Topcoat: latex, gloss, MPI gloss level 6, MPI #148
 - a. Pro Industrial Acrylic Gloss Coating #B66 series
 - ii. Dry-Fall
 - 1. Prime coat: primer, alkyd, quick dry, for metal, MPI #76
 - a. Pro Industrial Pro-Cryl Universal Primer #B66 series
 - 2. Topcoat: latex, flat, MPI #118
 - a. Pro Industrial Waterborne Acrylic Dryfall Flat #B42 series
- e. Galvanized-Metal
 - i. Latex
 - 1. Prime coat: primer, galvanized, water based, MPI #134
 - a. Pro Industrial DTM Acrylic Primer/Finish #B66 series
 - 2. Intermediate coat: latex, matching topcoat
 - 3. Topcoat: latex, semi-gloss, MPI gloss level 5, MPI #147
 - a. Pro Industrial Multi-Surface Semi-Gloss #B66 series
 - ii. Dry-Fall
 - 1. Prime coat: primer, alkyd, quick dry, for metal, MPI #76
 - a. Pro Industrial Pro-Cryl Universal Primer #B66 series
 - 2. Topcoat: dry fall, water based, for galvanized steel, flat, MPI gloss level 1, MPI #133
 - a. Pro Industrial Waterborne Acrylic Dryfall Flat #B42 series
- f. Gypsum Board and Plaster
 - i. Latex
 - 1. Prime coat: primer sealer, MPI #149
 - a. Promar 200 Zero VOC #B28 series for new gypsum
 - b. Extreme Bond #B51 series for painted gypsum
 - 2. Intermediate coat: latex, matching topcoat
 - 3. Topcoat: latex, flat, MPI gloss level 1, MPI #143
 - a. Promar 200 Zero VOC Flat #B30 series
 - 4. Topcoat: latex, eg-shel, MPI gloss level 3, MPI #145
 - a. Promar 200 Zero VOC Eg-Shel #B20 series
 - 5. Topcoat: latex, semi-gloss, MPI gloss level 5, MPI #147
 - a. Promar 200 Zero VOC Semi-Gloss #B66 series
- g. Wood
 - i. Latex
 - 1. Prime coat: primer
 - a. Premium Wall & Wood Primer #B28W8111
 - b. Extreme Bond #B51 series for painted surfaces
 - 2. Intermediate coat: acrylic, matching topcoat
 - 3. Topcoat: acrylic
 - a. Promar 200 Zero VOC Flat #B30 series
 - b. ProClassic Waterborne Acrylic Satin #B20 series
 - c. ProClassic Waterborne Acrylic Semi-gloss #B31 series
 - d. ProClassic Waterborne Acrylic Gloss #B21 series
 - ii. Stain and Varnish
 - 1. Prime coat: Wood Classics 250 Stains

2. Intermediate coat: water-based polyurethane, matching topcoat
 - a. Topcoat: waterborne polyurethane
 - i. Wood Classics Waterborne Polyurethane Varnish Satin, A68 Series
 - ii. Wood Classics Waterborne Polyurethane Varnish Gloss, A68 Series
3. Execution
 - a. All surfaces require one primer coat and two finish coats.
 - b. Follow all manufacturer's instructions and recommendations for application. Any inconsistencies between the manufacturer's instructions and this document shall be addressed with RIT prior to specifying or performing work.
 - c. Provide the following finish levels:
 - i. Concrete Floor: satin
 - ii. Concrete Wall: semi-gloss
 - iii. CMU: semi-gloss
 - iv. Ferrous Metal: gloss
 - v. Galvanized Metal: semi-gloss
 - vi. Gypsum and Plaster: eg-shel
 - vii. Wood Paint: semi-gloss
 - viii. Wood Stain: satin

END OF DIVISION 09