DIVISION 09 00 00  FINISHES

092100  GYPSUM BOARD ASSEMBLIES

A. Fire Resistance Rated Assemblies: Indicate on drawings the design designations from UL, Indiana Building Code, or Gypsum Association for each fire-rated wall or ceiling assembly. Reference assemblies to floor plan.

092216  NON-STRUCTURAL METAL FRAMING

A. Minimum 20-gauge steel studs for framing.

B. Space studs 16-inches on center.

C. Provide double studs at doors and openings.

D. Provide 4” high 20-gauge metal plate at base of wall in corridors and hallways.

092900  GYPSUM BOARD

A. Provide minimum 5/8-inch thick gypsum board at all locations.

B. Use moisture and mold resistant gypsum wallboard at restrooms and all areas located below grade level.
   1. Comply with ASTM D3273 with a score of 10 mold resistance.
   2. Comply with ASTM G21 with a score of 0 for mold resistance.
   3. Less than 5% water absorption per ASTM C 473

C. Where gypsum wallboard joins dissimilar materials, specify and detail on the drawings the type of trim to be used.

D. All gypsum wallboard exposed to view, including mechanical rooms, shall be finished to a minimum Level 4 finish.

E. Gypsum wallboard in unexposed areas (above suspended ceilings) shall be finished to a minimum Level 2 finish unless a Level 1 finish is permitted by the testing agency.

093000  TILING

A. Select tile systems and substrates as recommended by the Tile Council of North America.

B. Pre-approve Contractors for tile work and list their companies in the specifications.

C. Investigate Contractor’s qualifications for the size and scope of work. Require proof of tile installer training from one or more of the following:
   1. Ceramic Tile Education Foundation
   2. International Masonry Institute Contractor College Program

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3. Journeyman Tile Layer Apprenticeship Programs recognized by the U.S. Department of Labor
4. National Tile Contractors Association Five Start Contractor Program
5. Tile Contractors’ Association of America Trowel of Excellence Program

095100 ACOUSTICAL CEILINGS
A. Acceptable mineral fiber ceiling tile manufacturers include:
   1. Armstrong World Industries, Inc.
   2. CertainTeed Ceilings
   3. Conwed Designscape
   4. United States Gypsum (USG)

B. Specify acoustical ceilings in 24 inch x 24 inch grid.
   1. Tegular edge panels are acceptable.
   2. Provide 15/16” white ceiling grid and white panels.
   3. If the acoustical ceiling is to be part of a fire-rated assembly, then the fire-rated design criteria must be indicated on the drawings. Include an illustration of protection for light fixtures and reference the U.L. design number.
   4. Provide for identifying ceiling panels where access to mechanical equipment and valves is required. This identification may take the form of a small tag mounted to the face of the tile.
   5. Use purpose-designed moldings where acoustical ceilings adjoin dissimilar materials or where they change directions. Careful planning is necessary to provide a smooth transition and homogenous appearance.
   6. Coordinate acoustical ceiling details with the planned window treatment (blinds, draperies, etc.) so that the mounting hardware can be properly installed at the job site. Consider that window treatment may interfere with opening and closing of windows.
   7. Coordinate ceiling grid layout with lighting layout. Design layout of grid symmetrical within a space and to avoid narrow strips of ceiling tile.
   8. Avoid using 9/16-inch (narrow-line) suspension grid or using 12 x 12-inch acoustical tile with a concealed spline ceiling systems.

B. Excess whole panels shall be left at the project site for Owner's use in replacing damaged panels. On capital projects, verify with the University Architect Office the amount of replacement panels required for each type of ceiling panel selected.

C. Support ceiling suspension systems and light fixtures directly from the building structure.

D. Provide for above-ceiling inspections before installation of ceiling tiles.
E. In remodeling, it is frequently necessary to drop the ceilings below the level of existing windows in order to provide adequate mechanical space. Show details for window pockets, changes in elevations, soffits, headers, etc. on the drawings.

096600 TERRAZZO FLOORING
A. Follow the recommendations of the National Terrazzo and Mosaic Association (NTMA) [www.ntam.com](http://www.ntam.com) for design and specifications.

B. Pre-approve Contractors for terrazzo work and list their companies in the specifications.

C. Investigate Contractor’s qualifications for the size and scope of work.

D. Require proof of terrazzo installer training in accordance with the NTMA Accredited Education Programs or Journeyman programs recognized by the U. S. Department of Labor.

096513 RESILIENT BASE AND ACCESSORIES
A. Specify 4-inch high base, rubber or rubber-vinyl blend, with coved toe and rounded top.

B. Provide rolled goods to minimize seams.

C. Specify job-site formed corners with joints located a minimum of 18 inches from the corner.

D. Install rubber or metal edging strips where carpet terminates at other floor coverings.

096800 CARPETING
A. Schedule meeting with University Interior Designer to develop preliminary selection of flooring materials for project as part of design development phase.

B. Provide large size samples of carpet selections for review by University Interior Designer along with base and wall treatment.

C. Upon approval by University Interior Designer, make up presentation boards for review by User Representatives.

D. Refer to Interiors Standards for additional information.

E. Cover carpet immediately after installation with a self-adhering protective film like Carpet Shield as manufactured by Surface Shields, Inc. ([www.surfaceshields.com](http://www.surfaceshields.com))
F. Renovation/Remodeling
1. If flooring is scheduled to remain, specify installation of protective film before work starts.
2. Additional protection (plywood, OSB, tempered hardboard, etc.) may be required.
3. Coordinate with IU Building Services for inspection and cleaning of flooring after work is complete.

SECTION 09 90 00 – PAINTING AND COATING
A. Indiana University has a purchasing agreement with Sherwin-Williams.
1. Specify Sherwin-Williams for all projects and at all campuses.
2. Sherwin-Williams manufacturer representatives will provide support for specifications and selection of coating systems for all substrates at no cost to the consultant.
3. Contractors bidding on work for Indiana University may contact their local Sherwin-Williams store to receive Indiana University negotiated pricing on paint and related products. Identify all projects by Project Name and Project Number when purchasing or receiving quotations for products.

B. Paint and Coating Systems
1. Clear Finish Wood - 2 coats stain, 1 coat sanding sealer, 2 coats semi-gloss polyurethane
2. Opaque Finish Wood - 1 coat primer, 2 coats eggshell alkyd enamel
3. Metal Doors and Frames - Shop coat primer, 2 coats eggshell alkyd enamel.
4. New Interior Concrete or Concrete Block - 1 coat self-sealing heavy filler-primer, 2 coats finish paint. Type of coating may vary due to project requirements.
5. New Gypsum Wallboard or Plaster - 1 coat primer, 2 coats finish paint. Typically, use low luster latex enamel however; type of coating may vary due to project requirements.
6. Existing or Previously Painted Surfaces - If color is to remain approximately the same, 2 coats finish paint. If color is to be changed, 1 coat primer and 2 coats finish paint is required.
7. Existing or Previously Varnished Wood – Pre-clean, lightly sand and apply 2 coats polyurethane semi-gloss.
8. Exposed Metal Conduits or Piping - Finish the same as adjoining wall or ceiling surface.
9. Gypsum Wallboard or Plaster where wall covering has been removed-1 coat Zinsser Guardz drywall sealer/primer (or equal product), 2 coats finish paint.
10. Existing Vinyl Wall Covering Surfaces – 1 coat primer, 2 coats finish paint.

C. Factory finished materials, anodized aluminum, and stainless steel items
usually do not need to be painted.

D. Specify water-based/water-borne coatings. Coatings with low VOC’s (160 grms/ltr or less) are acceptable.

E. If painting in occupied buildings is required, it may be necessary to specify that painting is to be done after normal business hours with additional ventilation. Review with Team Leader and User Representative.

F. Note on drawings or in specifications the following items:
   1. Where painting only occurs inside of a room and not in the corridor, painting is to stop at the outside corner of the door jamb. The reverse is true for painting of corridors only.
   2. If 5% or more of the scheduled finishes will be in accent colors, attention should be called to this fact. Estimated percentage of accent colors should be given as an aid to bidders in preparation of bids. A statement should be made to the effect that the information given in no way restricts the Architect in the final selection of colors.

G. Metal furniture, metal ceilings, and large metal surfaces can be electrostatic painted or airless spray.

H. Prime coat wallboard to receive wall covering before application of wall covering in accordance with wall covering manufacturer’s instructions. Do not paint over existing wall coverings without approval from Interior Designer.

I. All interior finish selections and paint colors shall be recorded in a “Control Book” for the project. See Interior Standards for additional information on Control Books.

J. Excess paint and left over containers shall be removed from project site at the completion of the work and disposed of. No Extra Materials are required.

SECTION 09 70 00 – WALL FINISHES

A. Vinyl Wall Covering – As Approved by IU Interiors
   1. Comply with the following:
      a. Total Weight: 21 oz.
      b. Roll width: 54"
      c. Vinyl Gauge: 9 Mils
      d. Federal Spec: Type II, Class A
      e. Flame Spread: 10
      f. Smoke Development: 5
      g. Applied Backing Material: Fabric backed
      h. Performance Coating: Stain resistance, water repellant, flame retardant
B. Adhesives:
1. Use low VOC vinyl adhesive as recommended by Manufacturer. Adhesives should not be thinned with chemical solvent. Adhesive should be mildew-resistant and non-staining.

C. Note In Specifications the Following:
1. Clean substrates of all substances that could impair wall covering’s bond, including mold, mildew, oil, grease, incompatible primers, and dirt.
2. Prepare substrates to achieve a smooth, dry, clean surface free of flaking, unsound coatings, cracks, and defects.
   a. Painted Surfaces: Treat areas susceptible to pigment bleeding.
   b. Metals: If not factory primed, clean and apply rust-inhibitive zinc primer.
   c. Moisture Content: Maximum of 5 percent on new plaster, concrete, and concrete masonry units when tested with an electronic moisture meter.
   d. Prime new gypsum board with primer recommended by wall covering manufacturer.
   e. Where previously installed vinyl wall covering has been removed, prime existing gypsum board with Zinsser Gardz drywall sealer/primer, or as recommended by wall covering manufacturer.
3. Check painted surfaces for pigment bleeding. Sand gloss, semi gloss, and eggshell finishes with fine sandpaper.
4. Acclimatize wallcovering materials by removing them from packaging in the installation areas not less than 24 hours before installation.

D. Submittals:
1. Product Data for each type of product specified. Include data on Physical characteristics, durability, fade resistance, and flame-resistance characteristics.
2. Samples for verification in sets for each color, texture, and pattern specified, showing the full range of variations expected in these characteristics.
   a. Provide full-width sample, not less than 36 inches (914 mm) long, from dye lot used for the Work.
   b. Submit sample with specified treatments applied.
   c. Product certificates from manufacturers of wall coverings certifying that their products comply with specified requirements.
   d. Maintenance data for wall covering to include in the operation and maintenance manual.

E. Extra Materials.
1. Provide full-size rolls equal to 5 percent of amount of each type of wall covering installed. Wrap and label for storage in building.