

DIVISION 09 - FINISHES

09 2116 - GYPSUM BOARD ASSEMBLIES

- A. Special consideration shall be given to the noise reduction characteristics and installation of partitions between sleeping rooms, offices, classrooms, laboratories, residential and common spaces. This shall be discussed during the design and adequately indicated on the Drawings. Acoustic rating information shall be clearly shown on the Drawings.
- B. Special consideration shall be given to wall durability for all corridors and other areas subject to abuse: plywood underlayment, abuse-resistant gypsum board products, or cementitious wallboard system are preferred. Georgia-Pacific Dens® products or approved equal are preferred.
- C. Wallboard shall not be glued directly to masonry or concrete walls below grade: provide furring.
- D. Exterior gypsum soffit boards may be used on ceilings in moist interior areas. Exterior gypsum board soffit systems shall be used in exterior construction. Georgia-Pacific Dens® or approved equal are preferred.
- E. Fire-rated assemblies shall be clearly identified in the Drawings.
- F. 5/8" thick gypsum wall products shall be used except where specific conditions dictate otherwise and as approved by UND Facilities Management.
- G. All gypsum board shall be installed horizontally.
- H. Smooth finish is preferred, specify a "Level 4" finish as described in standard for board finishing GA-214-96: unless otherwise approved by UND Facilities Management.
- I. "Level 5" finish may be preferred in specific situations such as recognitions walls, etc... Consult with UND Facilities Management.
- J. "Hot Mud" or chemical reaction cured joint compound can be used, however final coats shall be traditional joint compounds. Consult with UND Facilities Management.
- K. Unless budget restrictions dictate and must be approved by UND Facilities Management, shaft walls shall be concrete masonry units (CMU) not gypsum board shaft-wall assemblies.

09 2216 – NON-STRUCTURAL METAL FRAMING

- A. Adequate framing details, sizing, spacing and technical information shall be indicated on the documents.
- B. Fire-rated assemblies and acoustic rating information shall be clearly shown on the Drawings.
- C. Doorjambes shall be constructed with double studs.

09 3000 - TILING

- A. Use of quarry tile is undesirable at stairways.
- B. Ceramic tile may be used for Toilet Room walls and base. Provide protection for outside corners in high traffic areas. Verify with UND Facilities Management.
- C. Ceramic tile may be used for Shower Room walls and ceilings. Provide protection for outside corners in high traffic areas. Verify with UND Facilities Management.

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- D. Glass reinforced gypsum backer board (such as Georgia-Pacific DensShield® Tile Backer, etc.) shall be used for underlayment on all wall and ceiling tile applications.
- E. Tile selection and installation shall utilize the full complement of manufacturer's trim.
- F. Ceramic tile may be used for floors, unglazed, thin set. Floor tile shall be slip resistant and exceed 0.60 on the ASTM C-1028 test both wet and dry.
- G. Power Grout by TEC or similar product shall be used for all tile.

09 5100 – ACOUSTICAL CEILINGS

- A. Provide suspended lay-in acoustical ceiling system for most areas.
- B. Except for very high finish areas, provide standard 24" x 24" in an exposed thick flange grid. The use of special architectural grid and tile systems shall be reviewed with UND Facilities Management.
- C. Basis of Design: Armstrong Cirrus 24" x 24" x 7/8" product 572 white angled tegular ACT tile or similar tile and finish from USG. All other manufacturers must be approved by UND Facilities Management.
 - 1. Grid – 15/16" standard white is preferred; additional sizes or colors must be approved by UND Facilities Management.
- D. Specify a percentage of excess of tile to be ordered and stored within building or be delivered to UND Facilities Management for replacement.
- E. Traditional wood panel ceilings are not preferred. If wood paneling ceiling fit within the design, they should be an artificial wood product that reduces expansion or contraction with temperature and humidity changes such as a faux wood acoustic product or similar. When wood panel ceilings are used, architect shall provide adequate design and construction information for accurate bidding. Shop Drawings are required and must be approved by UND Facilities Management.

09 6100 – FLOOR TREATMENTS

- A. Special synthetic floor coverings are needed in some areas such as laboratories, food service, athletics, etc. Check with UND Facilities Management and Users before specifying.
- B. In areas where chemical spills are anticipated, investigate the catalog of potential chemicals that may be used and select a compatible flooring system. Cementitious coatings or fluid applied flooring shall be considered for particular areas where a standard finish may be questionable, wet areas, etc.
- C. In special laboratories where explosive gases may be used, electrically conductive & non-sparking materials shall be specified. Laboratories where radioisotopes are used must have seamless rubber or vinyl composition tile floor for ease of clean up in case of spill radioactive materials. All other laboratories shall have sealed concrete floors or concrete floors with high performance coating.
- D. Floors of laboratories and chemical storage rooms shall not have drains, unless raised 4" above the level of the floor, and not placed to present a trip hazard to occupants.
- E. Specify low VOC products when available and applicable.

09 6229 - CORK FLOORING

- A. To be approved by UND Facilities Management.

09 6340 - STONE FLOORING

- A. To be approved by UND Facilities Management.

09 6429 – WOOD STRIP AND LVT PLANK FLOORING

- A. To be approved by UND Facilities Management.

09 6500 - RESILIENT FLOORING

- A. Specify low VOC and sustainable products when available and applicable.
- B. Vinyl Plank Flooring is commonly used in utilitarian and high traffic areas. This shall be a luxury vinyl tile (LVT), although rubber products may be considered depending on proposed use of space.
- C. Floors of chemical storage rooms shall have a fluid applied flooring system with a liquid-tight raised sill not less than 4" in height, including in front of or behind cabinets, excluding doorways.
- D. Resilient base shall be 4" cove style vinyl or rubber: straight based is discouraged. Black color is preferred any other color choice will need prior approval from UND Facilities Management.
- E. Contractor shall provide extra stock of each color, type and size of material and base used. Quantities will depend upon size of installation. Consult with UND Facilities Management.
- F. Use pre-formed resilient base corners where possible.

09 6566 - RESILIENT ATHLETIC FLOORING

- A. To be approved by UND Facilities Management.

09 6613 – PORTLAND CEMENT TERRAZZO FLOORING

- A. Use of terrazzo flooring is desirable for main circulation spaces in new construction. Terrazzo flooring is not acceptable at stairways.

09 6623 – RESINOUS MATRIX TERRAZZO FLOORING

- A. Use of epoxy-based terrazzo flooring is an alternative for traditional Portland cement-based terrazzo. Final approval required by UND Facilities Management.
- B. Use of terrazzo flooring is not acceptable at stairways.

09 6700 – FLUID-APPLIED FLOORING

- A. To be approved by UND Facilities Management.

09 6714 - RESILIENT URETHANE FLOORING

- A. To be approved by UND Facilities Management.

09 6800 – CARPETING

- A. UND uses a variety of Custom Carpet options that are used within campus from SHAW & Tandus Centiva. Contact UND Facilities Management for details. Samples will be provided at request.

- B. Broadloom carpeting shall not be used unless approved by UND Facilities Management.
- C. Where approved, carpet will have a minimum face weight between 17 oz. and 20 oz. per square yard.

09 6813 – TILE CARPET

- A. Contact UND Facilities Management for approved carpet options and manufacturers.
- B. Carpet tile size and layout shall be coordinated with UND Facilities Management.
- C. Only 100% Nylon yarn is approved for carpet tile.
- D. Minimum face weight of carpet should between 17 oz. and 20 oz. per square yard.
- E. Used in Classrooms, Offices, Auditoriums and Residential applications.
- F. A unit price will be established for the budget and UND Facilities Management will seek bids for the materials through the Educational and Institutional Cooperative. Installation may or may not be included in the contract. Verify the project specifics with UND Facilities Management.
- G. No broadloom carpet will be accepted for academic or auxiliary buildings.
- H. In all cases, the carpet construction, installation, style and color selections shall be reviewed by UND Facilities Management and the Building Committee. Final approval will come from UND Facilities Management.
- I. In areas with very heavy traffic, exterior entries, restrooms entries, etc... “Walk off” style carpet should be considered with a minimum face weight between 17 oz. and 20 oz. per square yard.
- J. The following shall be included in the carpet specification:
 - 1. Description of the product, name, and collection.
 - 2. Face weight in oz. per square yard.
 - 3. Carpet tile backing options.
 - 4. Specify smoke and flame spread coefficients.
 - 5. Sustainability details: recycled content, indoor air quality standard, health product declaration, etc.
 - 6. Manufacturer’s recommended installation method and materials.
 - 7. Manufacturer’s Warranty
 - 8. Recommended storage procedures
 - 9. Removal and disposal of existing flooring and new installation trash.
 - 10. Identify ordering and storage of carpet overage: for future repairs review requirements with UND Facilities Management.
 - 11. Provide installation methods i.e. monolithic, quarter turn, etc. for review and approval.
- K. All floors shall be primed using an appropriate product specified by the carpet manufacturer in preparation for the adhesive and carpet tile.
- L. All carpet tiles shall be installed with adhesive specified by carpet tile manufacturers.
- M. No double-faced tape systems shall be permitted for installation unless approved by UND Facilities Management.

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- N. Specify a percentage of excess carpet to be ordered and delivered to UND Facilities Management for replacement stock. Consult with UND Facilities Management for percentage. Replacement stock may be stored within the building, coordinate with UND Facilities Management.

09 6900 - ACCESS FLOORING

- A. Pedestal floors are frequently needed in spaces where computer or other concentrated areas of electrical or electronic equipment is used. Type and quality shall be discussed with UND Facilities Management.

09 7200 - WALL COVERING

- A. Vinyl or fabric wall coverings are not recommended but may be used in special areas with prior approval from UND Facilities Management.
- B. Vinyl or fabric wall coverings are prohibited on exterior walls.

09 7733 – GLASS FIBER REINFORCED PLASTIC PANELS

- A. FRP panels shall be used in all wet areas or where walls may be exposed to moisture such as kitchens. FRP should always be used within custodial type rooms where mop sinks or additional plumbing are included.

09 8311 – ACOUSTICAL WALL SYSTEMS

- A. Identify the number of acoustic panels required to meet the acoustic criteria in all noise sensitive spaces. Clearly indicate placement on the Drawings.

09 8400 – ACOUSTICAL ROOM COMPONENTS

- A. Consider use in assembly areas.

09 8415 – ACOUSTICAL STRETCHED-FABRIC WALL AND CEILING SYSTEMS

- A. Not to be used without prior approval from UND Facilities Management.

09 8430 – SOUND ABSORPTION

- A. Vibration and Noise Requirements: The design shall prevent occupants adjacent to noisy, rotating or vibrating equipment from sensing noise or vibrations from equipment through the structure.

09 9000 – PAINTING AND COATINGS

- A. Aluminum shall be factory finished unless approved by UND Facilities Management.
- B. Alkyd gloss enamel shall be used to specify the painting of mechanical equipment, piping and electrical equipment and conduit where necessary for protection or appearance. Factory applied painted equipment shall not be field painted unless approved by UND Facilities Management.
- C. Paints shall be specified as a manufacturer's system, typically, a primer coat plus two finish coats.
- D. The color palette shall be provided by UND Facilities Management. Assemble all paint color selections and include associated interior finish selections for presentation and approval by UND Facilities Management.
- E. Brick and masonry shall not be painted without prior approval from UND Facilities Management.

- F. If masonry is to be painted, it shall be finished with a semi-gloss latex enamel system including an appropriate filler coat approved by UND Facilities Management.
- G. Specify low VOC products when available and applicable: review with UND Facilities Management.

09 9113 – EXTERIOR PAINTING

- A. Preferred paint manufacturers are Sherwin Williams; other manufacturers must be approved by UND Facilities Management.
 - 1. Some UND standard paint colors are mixed in a Sherwin Williams base while being color matched over to a Pratt & Lambert color specifically.
- B. Exterior wood trim shall be finished with exterior grade semi-gloss or gloss latex enamel system.
- C. Ferrous metals shall be galvanized.
- D. Aluminum shall be anodized with brushed, etched, or buffed finish.

09 9123 – INTERIOR PAINTING

- A. Preferred paint manufacturer is Sherwin Williams.
 - 1. Some UND standard paint colors are mixed in a Sherwin Williams base while being color matched over to a Pratt & Lambert color specifically.
- B. An approved primer must be applied to new gypsum board.
- C. Basis of Design Color Palette:
 - 1. White - Sherwin Williams Pure White SW 7005.
 - 2. Black – Sherwin Williams Tricorn Black SW6258.
 - 3. Warm Beige – Sherwin Williams base color matched over to Pratt & Lambert Feather Gray 32-27.
 - 4. Light Cool Gray - Sherwin Williams base color matched over to Pratt & Lambert Armory 29-26.
 - 5. Dark Gray - Sherwin Williams base color matched over to Pratt & Lambert Feather Steel Wool 33-14.
 - 6. Dark Warm Gray – Sherwin Williams Iron Ore SW 7069.
 - 7. UND Green - Sherwin Williams base color matched over to Pratt & Lambert Deep Mist 19-13.
- D. All finishes shall satisfy the flame-spread requirements of the Code.
- E. Corridors, classrooms, and offices shall be finished in eggshell sheen unless directed to be semi-gloss. Consult with UND Facilities Management.
- F. No texture shall be added to walls, unless it is repairing or matching existing walls with texture when directed by UND Facilities Management.
- G. Ferrous metals shall be finished with alkyd enamel system.
- H. Interior wood trim shall be finished with semi-gloss stain and clear coat system.

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- I. Specify minimum of stain plus two coats of high-performance transparent finish on woodwork not intended to be painted. Open grain wood may require paste wood filler if it is to be painted to provide a smooth finish.
- J. Restrooms and Kitchens shall be finished with semi-gloss or gloss interior latex paint. The use of two-part epoxy paint is discouraged but may be used in specific applications with prior approval from UND Facilities Management.

09 9600 – HIGH-PERFORMANCE COATINGS

- A. Sherwin Williams, “Uniflex” Elastomeric Industrial roof coating or approved equal. Consult with UND Facilities Management.

09 9723 – CONCRETE AND MASONRY COATINGS

- A. Equipment room flooring needs to be sealed well at all floor penetrations to prevent water leakage from broken pipes, plugged drains, etc.

END OF DIVISION 09