

1 General

.1 General Requirements

.a Acoustical Panel Ceilings

- i. Standards: Acoustical Ceiling Units: ASTM E 1264. Acoustical Suspension System: ASTM C 635 for materials.
- ii. Surface burning characteristics: 25 or less for flame spread and 50 or less for smoke developed, per ASTM E 84.

.b Carpet

- i. All carpet and components shall be recyclable.
- ii. Warranties: Flooring contractor shall provide a 5-year warranty for defects in materials and workmanship. Flooring manufacturer shall provide a 20-year non-prorated warranty to cover excessive surface wear, edge ravel, zippering, backing delamination (i.e. the separation of the secondary backing from the primary backing), watermarking on any product not 100% loop construction and excessive static electricity.
- iii. Carpet products shall not have proprietary cleaning process.

.c Painting

- i. Single source responsibility: Provide primers and undercoat paint produced by the same manufacturer as the finish coats.
- ii. Design consultant to provide color sample board for owner approval. This applies for all finished.

.d No lead containing paint is acceptable.

.e Asbestos Containing Materials (ACM)

- i. ACM are not acceptable for use in county facilities.

2 Products

.1 Steel Framing for Walls and Partitions

- .a Steel Studs and Runners: ASTM C754.
- .b Stud Thickness and Gauge: 20-gauge for 3-5/8-inch and 18-gauge for 6-inch studs.
- .c Steel Furring Channels: 20-gauge; 7/8-inch depth.

.2 Gypsum Board

- .a STANDARDS: Comply with ANSI/ASTM C840 for application and finishing of gypsum board, unless indicated otherwise.
- .b GYPSUM BOARD STANDARD: Comply with applicable requirements of ANSI/ASTM C 840 for application and finishing of gypsum board, unless otherwise indicated.
- .c Exterior Soffit Board: ASTM C 931; sag-resistant, gypsum core with glass mat facing on both sides.
- .d High-Impact / Abuse-Resistant drywall should be utilized in high traffic areas and other areas subject to abuse.
- .e Provide gypsum board of types indicated in maximum lengths available to minimize end joints.
- .f Gypsum board shall be held off finish floor by 1/4".
- .g Designer shall specify and detail appropriate drywall finish beads and trims.
- .h Backer Board: Cement board shall be utilized in areas to receive ceramic tiles.
- .i Purple board to be utilized on exterior walls.

.3 Joint Treatment Materials

- .a Joint Tape: Open weave glass fiber reinforcing tape.
- .b Setting Type Joint Compound: Factory-packaged, job-mixed, chemical hardening powder product.
- .c Drying Type Joint Compound: Factory-packaged, job-mixed, vinyl-based product.
- .d Quick-Drying Joint Compound: Use not acceptable in county facilities.

.4 Ceramic/Porcelain Tile

- .a Use: Public restrooms shower rooms, locker rooms.
- .b Standards: Comply with ANSI A13.1 Standard Specification for Ceramic Tile and ANSI 108 series of tile installation standards included under "American National Standard Specifications for the Installation of Ceramic Tile".
- .c Floor and Base Substrate Preparation: Continuous waterproof membrane shall be utilized under all tile in wet areas located above occupied spaces.
- .d Epoxy grout to be utilized throughout wet areas.
- .e General: Floor drains shall be properly aligned with tile layout. Thru-body porcelain tile shall be utilized in wet areas.
- .f Unglazed Mosaic Tile: Factory-mounted flat tile, with cushioned edges.
- .g Glazed Wall Tile: Plain face with cushioned edges; 5/16-inch thick.
- .h Cleavage Membrane: For expansion joints in thin-set applications.
- .i Sizes: Designer preference. Designer must consider floor slope and flooring conditions when selecting tile size.
- .j Stone Thresholds: Designer preference.

.5 Terrazzo

- .a Use: Public lobby areas, limited use in corridors, entrances, egress corridors and critical occupational areas as approved by owner.
- .b Type: Designer preference, owner approved.
- .c Color/Mix Design: Designer preference, owner approved.
- .d Divider Strips: Metal of designer preference, owner approved.
- .e Finishing: Polishing of terrazzo shall include final sheen selected by owner.
- .f Close-Out: Utilized recipes shall be provided to owner at closeout.

.6 Acoustical Panel Ceilings

- .a Panel Type: Designer preference. Specify humidity resistant panels for all locations.
- .b Use washable panels in kitchen and above serving lines as required by Wake County Health Department.
- .c Panel Size: County preference is: 24" x 24".
- .d Joint Design: As selected by the Architect, approved by owner.
- .e Colors and Patterns: As selected by the Architect, approved by owner.
- .f Metal Grid: Wide-faced capped double-web steel suspension system at typical locations; thinner profile decorative grid subject to Owner approval. Acceptable minimum grid size: 9/16".
- .g Provide hold down clips in areas directed by owner where damage might be expected, or where enhanced security is required.
- .h Acoustical tiles are not to be utilized in exterior applications.
- .i Specialty Ceiling Panels: Limited use as approved by owner.

.7 Resilient Tile

- .a Use: Break rooms, utility areas and high-use corridors. Other spaces as requested by owner.
- .b Vinyl Composition Tile: Class 1 (solid), with smooth wearing surface; 0.125-inch thick; size 12" by 12".

- .c Resilient Base: Owner preference is rubber base, with preformed corners.
- .d Reducer Strips: Vinyl or rubber.
- .e Colors, Patterns and Finishes: Designer preference, owner approved. Utilizing patterns in overall composition preferred.

.8 Carpet

- .a Use: Low traffic areas; offices and work areas.
- .b All products to meet ADA requirements.
- .c Colors and Patterns: Designer preference, owner approved.
- .d Installation Method. Direct glue-down.
- .e Rubber or vinyl reducing strips that are securely glued down are required at all tile/VCT transitions to carpet except where there is a marble threshold.

.9 Carpet Tile

- .a Use: Typical in libraries, offices and work areas.
- .b All products to meet ADA requirements.
- .c Carpet Tile: Factory-applied adhesive backing.
- .d Colors, Patterns and Sizes: Designer preference, owner approved.
- .e Installation Method: As identified by manufacturer.
- .f Rubber or vinyl reducing strips that are securely glued down are required at all tile/VCT transitions to carpet except where there is a marble threshold.

.10 Epoxy Resin Flooring Systems

- .a Use: Typically limited to specialty locations subject to moisture, chemicals and high cleaning activities. Possible locations include kitchens, mechanical rooms and utility closets.

.11 Wall Coverings

- .a Use: Vinyl and textile wall covering for limited use and where approved by owner.
- .b Provide low VOC adhesives and sealers recommended specifically by manufacturer of wall covering specified for use on scheduled substrates and certified to be mildew resistant and non-staining to wall covering
- .c Surface sealer for gypsum wallboard substrates, formulated to permit removal of wall covering without damage to wallboard, **shall** be used on all gypsum wallboard substrates scheduled to receive vinyl wall covering. Specify only those products that emit low VOC's.
- .d Colors and Patterns: Designer preference, subject to Owner approval.

.12 Painting

- .a Low or zero VOC's.
- .b High Moisture Areas: Epoxy paint.
- .c Interior Surfaces
 - i. Drywall Ceilings: Specify flat or eggshell finish.
 - ii. Walls: Specify eggshell or satin finish.
 - iii. Hollow Metal Doors: Specify semi-gloss finish.
 - iv. Exposed Ductwork and Conduit: Specify semi-gloss.
 - v. Ferrous Metals: See below.
- .d Exterior Surfaces
 - i. Ferrous Metals: See below.
 - ii. Soffits: If paint is utilized, eggshell finish to be specified.
 - iii. Hollow Metal Frames: Utilize a high performance coating as selected by design team and approved by owner.

- iv. Exposed sheet metal equipment: Factory finish.
- v. Oversized Coiling Doors: Factory finish.
- .e Steel, Interior and Exterior Exposed Ferrous Metals: Prime and paint with high performance coating system as selected by designer and approved by owner.
- .f If required, intumescent fire-resistant coatings to protect exposed structures requiring fire protection and painted finish appearance. Locations to be approved by owner.
- .g Galvanized materials shall not be painted.
- .h No attic stock shall be required for paints.

.13 Fiberglass Reinforced Panels (FRP)

- .a Use: Kitchens only. Janitorial closets and other utility spaces as approved by owners.

.14 Corner Guards

- .a Use: Typically in corridors of Libraries and high use areas.
- .b Finish: Molded vinyl or acrylic for lite applications.
- .c Type 304 SST corner guards are to be used in select locations, typically back corridors. Finish: #4 Satin Finish. Mechanically fasten with SST fasteners.

3 Execution

.1 Gypsum Board

- .a PRECAUTIONS: In cold weather and during gypsum wallboard joint finishing, maintain temperature within the range of 55 to 70 deg. F. Adequate ventilation shall be provided to carry off excess moisture.
- .b INSTALLATION: Install steel framing to comply with ASTM C 754 and ASTM C 840.
- .c GYPSUM BOARD INSTALLATION: Install and finish gypsum board to comply with ASTM C 840. Gypsum wallboard to be installed such that the bottom of the board is not directly resting on the finish concrete floor slab
- .d Drywall finishes (3 through 5) subject to owner approval.

.2 Ceramic/Porcelain Tile/VCT

- .a COLD WEATHER PROTECTION: Maintain a minimum temperature of 50 degrees F. in all spaces where tile will be installed for 7 days before beginning installation of setting bed or tile and until at least a week after setting tile.
- .b Locate expansion, control, contraction, and isolation joints to comply with recommendations of TCA "Handbook for Ceramic Tile Installation".
- .c PRECAUTIONS: Contractor to cover tile flooring until final inspection with heavy Kraft paper or other heavy protective covering to prevent surface damage. Contractor may provide a light coat of wax (on VCT) for protection in lieu of Kraft paper.
- .d Specifications shall require moisture test prior to installation of adhesives and reference manufacturer's recommendations regarding moisture content.

.3 Acoustical Panel Ceilings

- .a PRECAUTIONS: Do not install acoustical tile or panels until the building is enclosed, the permanent heating and cooling equipment is in operation and residual moisture from plaster, concrete, or terrazzo work has dissipated.

.4 Carpet

- .a Do not install carpet until the building is enclosed, permanent heating and cooling systems are in operation and residual moisture from plaster, concrete, or terrazzo work has dissipated. Provide protection over carpet immediately following installation to avoid damage to installed carpet.
- .b Specifications shall require moisture test prior to installation of adhesives and reference manufacturer's recommendations regarding moisture content.
- .c Ventilate thoroughly all areas during and after installation, prior to occupancy.
- .d Installation of carpet constitutes acceptance of the subfloor condition.

.5 Wall Coverings

- .a It shall be required that wall-covering materials be removed from packaging and placed in area of installation not less than 24 hours before commencing installation to climatize product to the environment in which it is to be installed.
- .b Nicks, scratches, and other surface irregularities shall be patched in gypsum wallboard substrates with latex filler before wall covering is installed.
- .c Application of wall covering is acceptance of substrate.
- .d Substrates shall be tested with electronic moisture meter to verify that moisture content does not exceed limits recommended by manufacturer of wall covering.
- .e Seams **shall not** occur within 4 in. of corners or major openings. Trim wall covering carefully at electrical boxes and other interruptions to avoid gaps and necessity for patches.