

SECTION C30

INTERIOR FINISHES

4/08

C30 GENERAL

C30 1.1 DESIGN GUIDANCE

Provide the design and installation in accordance with the following references. This Performance Technical Specification (PTS) adds clarification to the fundamental requirements contained in the following Government Standards. The general requirements of this PTS section are located in PTS Section Z10, *General Performance Technical Specification*.

Industry standards, codes, and Government standards referenced in the section text that are **not** found in the Unified Master Reference List (UMRL) in the [Construction Criteria Base \(CCB\)](#) at the [Whole Building Design Guide Website](#), are listed below for basic designation identification. Comply with the required and advisory portions of the current edition of the referenced standard at the time of contract award.

C30 1.1.1 Industry Standards And Codes

FLOOR COVERING INSTALLATION CONTRACTOR'S ASSOCIATION (FCICA)

FLOOR COVERING INSTALLATION BOARD (FCIB)

C30 1.1.2 Government Standards-

UNIFIED FACILITIES CRITERIA (UFC)

UFC 1-200-01, *General Building Requirements*

UFC 3-100-10, *Architecture*

UFC 3-120-10, *Interior Design*

UNIFIED FACILITIES GUIDE SPECIFICATIONS (UFGS)

UFGS 09 62 50.10, *Thin Film Flooring System for Aircraft Maintenance Facilities*

C30 1.2 QUALITY ASSURANCE

C30 1.2.1 Paint Applicator's Qualifications

C30 1.2.1.1 SSPC QP 1 Certification

For the application of industrial coatings identified in the Project Program, all contractors and subcontractors that perform surface preparation or coating application shall be certified by the Society for Protective Coatings (formerly Steel Structures Painting Council) (SSPC) to the requirements of SSPC QP 1 prior to contract award, and shall remain certified while accomplishing any surface preparation

or coating application. The painting contractors and painting subcontractors must remain so certified for the duration of the project. If a contractor's or subcontractor's certification expires, the firm will not be allowed to perform any work until the certification is reissued. Requests for extension of time for any delay to the completion of the project due to an inactive certification will not be considered and liquidated damages will apply. Notify the Contracting Officer of any change in contractor certification status.

C30 1.3 PERFORMANCE VERIFICATION AND ACCEPTANCE TESTING

Verification of satisfactory interior finish assemblies' performance shall be via Performance Verification Testing, as detailed in this section of the RFP.

C30 1.3.3 Provide sample of terrazzo floor application for DOR approval before resuming work. Sample shall be used as a reference for remaining application.

C30 1.4 DESIGN SUBMITTALS

Design Submittals shall be in accordance with Z10, *General Performance Technical Specifications*, UFGS section 01 33 10.05 20, *Design Submittal Procedures*, UFC 1-300-09N, *Design Procedures* and UFC 3-100-10N, *Architecture*.

In addition, UFGS sections listed below or in the body of the PTS text are to be used by the Designer of Record (DOR) as a part of the design submittal. If the UFGS products or systems are applicable to the project, the DOR shall edit these referenced UFGS sections and submit them as a part of the design submittal specification. Edit the specification sections in accordance with the limitations stated in PTS section Z10, *General Performance Technical Specifications*.

C30 1.5 CONSTRUCTION SUBMITTALS

Submit construction submittals in accordance with PTS section Z10, *General Performance technical Specifications*. In addition to the Z10 requirements, the Designer of Record (DOR) shall approve the following construction submittals as a minimum:

Paint, Finish materials, Finish colors

Installation drawings for floors with carpet, tile, stone or terrazzo to include locations and details of seams, color and material transitions, details of divider strips, control joints, and crack control solutions.

Changes shall not be made to the finishes that are submitted and approved by the Government during the design phase. In the event that revisions may be required because of unforeseen conditions such as discontinued product, the revisions must be approved by the DOR and then submitted to

the Government Interior Designer for approval before substitutions can be made.

C3010 WALL FINISHES

Interior wall finishes shall be moisture and mildew resistant, easily maintained, and suitable in accordance with industry standards for the architectural surface being finished. For painted wall finishes, refer to C3040 "INTERIOR PAINTING AND SPECIAL COATINGS".

C301003 GYPSUM WALLBOARD FINISHES

Conform to specifications, standards and requirements in accordance with Gypsum Association GA 214, GA 216 and GA 224. Provide asbestos free materials only. Provide Type X gypsum board in fire rated assemblies. Provide a foil back gypsum board when a vapor retarder is required.

C301003 1.1 REGULAR GYPSUM BOARD

ASTM C36/C36M and ASTM C1396/C1396M 1/2 or 5/8 inch (12.7 mm or 15.9 mm) thick in residential construction, and 5/8 inch (15.9 mm) thick in non-residential construction, tapered edges.

C301003 1.2 MOISTURE RESISTANT GYPSUM BOARD

ASTM C630/C630M, 1/2 or 5/8 inch (12.7 mm or 15.9 mm) thick in residential construction, and 5/8 inch (15.9 mm) thick in non-residential construction. Use in humid areas or spaces but not as a substrate in tiled areas where wall tile is exposed to direct moisture contact or condensation accumulation.

C301003 1.3 CEMENTITIOUS BACKING UNITS

ANSI A108.11 and ANSI A118.9, 5/8 inch (15.9 mm) thick; use as a substrate for ceramic tile in wet areas that are exposed to direct moisture contact or condensation accumulation for areas including, but not limited to, tubs, shower enclosures, saunas, steam rooms, gang shower rooms, and shower drying rooms. Provide screws specifically designed for use with cement panels.

C301003 1.4 IMPACT RESISTANT GYPSUM BOARD

Reinforced gypsum panel with imbedded fiber mesh or lexan backing, 5/8 inch (15.9 mm) thick, tapered edges, in accordance with Structural Failure Test; ASTM E695 or ASTM D2394 and Indentation Test; ASTM D5420 or ASTM D1037. Provide metal framing of 20-gauge minimum. Provide fasteners that meet manufacturer requirements and specifications. Impact resistant gypsum board shall have a flame spread rating of 25 or less and a smoke developed rating of 50 or less, ASTM E84. Finish with a high strength plaster veneer. Refer to PTS C10 for further requirements on impact resistant wall construction.

C301003 1.5 JOINT TREATMENT

ASTM C475, Joint compound shall be specifically formulated and manufactured for use with and compatible with tape, substrate and fasteners as recommended by the manufacturer. Tape and finish gypsum board in accordance with ASTM C840, GA 214 and GA 216. Provide premanufactured joints at all structural expansion joints, crack control joints, and change of materials as recommended by the manufacturer and in accordance with GA 216.

C301003 1.6 FASTENERS

ASTM C514. Fasteners shall be compatible with each type of gypsum board material as recommended by the gypsum board manufacturer and in accordance with GA 216 and GA 224.

C301003 1.7 ACCESSORIES

ASTM C1047. Fabricate from corrosion protected steel or plastic designed for intended use. Accessories manufactured with paper flanges are not acceptable. Flanges shall be free of dirt, grease, and other materials that may adversely affect bond of joint treatment. Provide prefinished or job decorated materials. For predecorated gypsum board provide prefinished metal or plastic trim to match predecorated gypsum board. Install as recommended by GA 214, GA 216 and GA 224.

C301003 1.8 LEVEL OF FINISH

C301003 1.8.1 Tape and finish gypsum board in accordance with ASTM C840, GA 214 and GA 216. Plenum areas above ceilings shall be finished to GA 214, Level 1. Water resistant gypsum backing board, ASTM C630/C630M, to receive ceramic tile shall be finished to GA 214, Level 2. Walls to receive a heavy-grade wall covering or have textured finish before painting shall be finished to GA 214 Level 3. Walls without wall wash lighting to receive paint (MPI Gloss Level 2), light textures, or wall coverings shall be finished to GA 214 Level 4. Unless otherwise specified, all gypsum board walls, partitions shall be finished to GA 214 Level 5. Provide joint, fastener depression, and corner treatment. Do not use fiberglass mesh tape with conventional drying type joint compounds; use setting or hardening type compounds only. Provide treatment for water-resistant gypsum board as recommended by the gypsum board manufacturer.

C301003 1.8.2 Wherever gypsum board is to receive eggshell (MPI Gloss Level 3), semigloss (MPI Gloss Level 5), or gloss (MPI Gloss Level 6) paint finish, finish gypsum wall surface to GA 214 Level 5.

C301003 1.8.3 Where wall wash lighting will accent the flatness of the wall and surface irregularities in gypsum board joints, provide feature edge gypsum board and two coat joint compound fillers. Provide this special joint treatment at up lighting, down lighting and horizontal lighting at the end of a passageway wall.

C301004 TILE WALL FINISHES

C301004 1.1 CERAMIC TILE WALL SYSTEM FINISHES

Provide ceramic tile wall systems as defined in the Tile Council of America (TCA) handbook for ceramic tile installations suitable for the service requirements listed. Install systems in accordance with ANSI A108/A118 series standards. Colored grout with sealer shall be provided. Coordinate with ceramic bath accessories for modularity. Include all trim pieces, caps, stops, and returns to complete installation.

C301004 1.1.1 Ceramic Mosaic Wall Tile shall be a minimum of 1/4 inch (6 mm) thick and installed from floor to ceiling, unless otherwise noted.

C301004 1.1.2 Wall tile shall be glazed, matte glazed or unglazed finish. Refer to project program for tile type, pattern, and surface texture.

C301004 1.1.3 Porcelain wall tile shall be through color, polished or unpolished. Refer to project program for tile type, pattern, and surface texture.

C301004 1.1.4 Provide wall tile color and style selections a minimum of one grade above base grade.

C301004 1.1.5 Provide Designer accent tile, accent strips and accessory ceramic tile shapes as an integral part of the ceramic wall tile system.

C301005 WALL COVERINGS

Wall coverings shall be material designed specifically for the specified use. The wallcovering shall contain a non-mercury based anti-microbial. The wallcovering shall be the type made without the use of cadmium-based stabilizers. Wallcovering shall have a Class A flame spread rating of 0-25 and smoke development rating of 0-50 when tested in accordance with ASTM E84. The wall preparation, trimming, adhesive and application shall be according to the manufacturer's printed directions. The manufacturer shall approve the installers in writing. The material must be easily cleaned by traditional methods such as washing, wiping, or vacuuming. Primer and adhesive shall be of a type recommended by the wallcovering manufacturer and shall contain a non-mercury based anti-microbial. Adhesive shall be strippable type. Do not apply wall coverings to the interior surface of exterior walls.

C301005 1.1 VINYL WALL COVERING

C301005 1.1.1 - Vinyl wallcovering shall be a vinyl coated woven or nonwoven fabric with germicidal additives and shall conform to ASTM F793, Category V Type II, 13.1 to 22 ounces (371 g to 624 g) total weight per square yard and width of 54 inches (1370 mm). Provide ASTM F793, Category VI, Type III, 22 ounces (624 g) and above to cover rough textured walls such as masonry.

C301005 1.1.2 Provide a polyvinyl fluoride film, 0.0005 inch (0.012 mm) thick or thicker shall be factory applied to the wall covering where additional resistance to staining and soiling from exposure to staining reagents or chemicals and resistance from abuse is required. The film shall be transparent (clear), medium gloss.

C301005 1.2 FABRIC WALL COVERING

C301005 1.2.1 Fabric wallcovering shall be woven material of Polyester or Polyolefin, or a combination of the two fibers with an acrylic backing. The face shall be treated with a soil repellent finish. The material must be a minimum of 48 inches (1219 mm) wide. "Tackable" wall covering shall be "self-healing" from tack penetration through the covering into the substrate. The material must be a minimum of 12 ounces (340 g) per square yard exclusive of backing. A tackable wall covering will not be required for smoother, less textured surface appearance.

C301005 1.4 SURFACE PREPARATION FOR UNEVEN WALLS

C301005 1.4.1 Wall liner shall be a non-woven polyester cellulose blend having a minimum weight of 3.7 ounces (105 g) per square yard and a total minimum thickness of 0.013 inches (0.33 mm). Wall liner shall have a Class A flame spread rating of 0-25 and smoke development rating of 0-50 when tested in accordance with ASTM E84. Use for masonry walls or walls with uneven surfaces.

C301005 1.4.2 For masonry or rough textured walls, use a veneer plaster finish to smooth the walls prior to wallcovering installation.

C301005 1.5 CORNER GUARDS

C301005 1.5.1 Corner guards shall be 3/32 inch (2.4 mm) thick and shall cover 1 inch (25 mm) each side of corner at right angles. Corner guards shall be clear polycarbonate. Use in executive areas, office areas, and wall-covered areas subject to cart traffic as a minimum.

C301005 1.5.2 Corner guards shall be 3/32 inch thick and shall cover 2-1/2 inches (64 mm) each side of corner at right angles. Corner guards shall be through color polycarbonate or rubber. Use in corridors or other high traffic areas.

If protective wall components from paragraphs C301090 - 1.5 and 1.6 are provided, corner guards shall be from the same lot and color as protective wall components.

C301005 1.6 WAINSCOT CAP

C301005 1.6.1 Wainscot cap shall be satin-finished extruded aluminum approximately 3/4 inch (19 mm) high, feathered at bottom edge, with an approximate 3/16 inch (5 mm) exposed face on top edge, and grooved to receive the covering. Adhesive to install wainscot cap shall be of a type recommended by the manufacturer of the cap.

C301005 1.6.2 Wood wainscot cap shall be 3-1/2 by 3/4 inch (89 mm by 19 mm) solid hardwood, AWI Custom grade, with painted or stained finish. Profile shall be a molded shape.

C301006 1.1.2 Stretched fabric wall panel system shall consist of continuous perimeter and butt seam mounting extrusions, site-fabricated

and applied directly to the substrate. Facing fabric shall be stretched over core materials and attached without adhesives, nails, tacks, screws or tapes so that fabric may be removed and replaced with framework in place.

C301006 1.1.3 Fabric shall be seamless, 100% polyester or olefin or a blend of the two. Light fastness (fadeometer) shall be approximately 40 hours in accordance with AATCC 16.

C301006 1.1.3.1 Non-woven, embossed texture, or needle punched 100 percent polyester, minimum 12 ounces (340 g) per linear yard. Tear strength shall be minimum 25 pounds (11.25 kg) machine direction and minimum 40 pounds (18 kg) cross-machine direction in accordance with ASTM D1117. Tensile strength shall be minimum 50 pounds (22.5 kg) machine direction and minimum 75 pounds (34 kg) cross-machine direction in accordance with ASTM D5034.

C301006 1.1.3.2 Woven, minimum 2-ply 100 percent polyester or olefin, minimum 12 ounces (340 g) per linear yard. Tear strength shall be minimum 29 pounds (13 kg). Tensile strength shall be 150 pounds (68 kg) minimum in accordance with ASTM D5034.

C301006 1.1.3.3 Perforated vinyl covering with fabric backing, minimum 20 ounces (567 g) per linear yard total weight.

C301006 1.2 ACOUSTICAL WALL PANELS

Aspen wood fibers bonded together with an inorganic hydraulic cement binder, formed in a continuous process under heat and pressure. Nominal overall panel thickness shall be 1 inch (25 mm). Noise Reduction Coefficient shall be not less than NRC 0.85 for Type C-40 and C-80 mounting.

C301090 OTHER WALL FINISHES

C301090 1.1 POLISHED PORCELAIN TILE WAINSCOT

The tile wainscot shall be a polished 12"x12" porcelain tile installed in accordance with the Tile Council of North America standards. Colored grout to be a maximum of 3/16" wide. Install systems in accordance with ANSI A108/A118 series standards. Colored grout with sealer shall be provided. Top edge to be capped with metal trim piece.

C301090 1.2 GLASS MOSAIC TILE TRIM BAND

Mosaic glass tile trim band to be 1"x1" mosaics to be meshed back and installed according to the guidelines of the Tile Council of North America standards. Install systems in accordance with ANSI A108/A118 series standards. Colored grout with sealer shall be provided.

C301090 1.6 CORNER AND WALL GUARDS

Corner and wall guards shall be high-impact formed polyvinyl chloride a minimum of 0.078 inch (2 mm) with concealed mounting hardware and end closure. If used with an impact resistant panels system, the guards shall be from the same manufacturer as the impact resistant wall panel system, chair or hand rail system and shall include all accessories necessary for a complete installation. A full range of styles, colors and textures shall be included.

C3020 FLOOR FINISHES

Refer to C3040 "INTERIOR PAINTING AND SPECIAL FINISHES" for painted floor coatings.

C302001 TILE FLOOR FINISHES

Provide ceramic tile floor systems as defined in the Tile Council of America (TCA) handbook for ceramic tile installation and materials for the service requirements listed. Provide installation and materials in accordance with ANSI A108/A118 series standards, except do not use organic adhesives. Provide manufacturer's full range of colors and styles. Tile shall be a minimum of one grade above base grade.

Mortar shall be Portland cement, ANSI A108.1A/1B/1C/ A118.1, Latex-portland cement, ANSI A108.5/A118.4 or Epoxy ANSI A108.6/A118.3.

Grout shall be factory sanded Portland cement, ANSI A108.10/A118.6, Latex-portland cement, ANSI A108.10/A118.7 or Epoxy ANSI A108.6/A118.3. Provide tile joint grout sealer on white, light colored areas that are routinely exposed to water and liquid cleaning materials, entrance areas, and areas that require a high degree of stain resistance, and as required by the manufacturer. Provide chemical resistant epoxy resin for kitchens and other areas where high resistance to staining and absorption are required, ANSI A118.3.

Slip resistant tile shall have a minimum Coefficient of Friction (wet and dry) of 0.6, ASTM C1028. Tile shall have smooth, non-slip or textured surface and a glazed or unglazed finish. Non-slip or textured surface required for tile in areas where there is excessive water or grease and oils such as kitchens, dining facilities, toilets, and in industrial and maintenance facilities.

C302001 1.2 CERAMIC MOSAIC UNGLAZED FLOOR TILES

Ceramic Mosaic unglazed floor tiles shall be a minimum of 1/4 inch (6 mm) thick with a maximum of 1/16 inch (1.6 mm) grout width with cushioned edge. Tile shall have less than a 0.5 percent water absorption rate, ASTM C373. Use in toilets, showers and shower drying rooms and locker rooms.

C302001 1.3 PORCELAIN FLOOR TILE

Porcelain floor tiles shall be a minimum of 5/16 inch (8 mm) thick with a maximum of 1/4 inch (6 mm) grout width with cushioned edge. Tile shall have a minimum breaking strength of 300 pounds (202 kg), ASTM C648 and a maximum absorption rate of 0.5%, ASTM C373. Use in lobbies, corridors, toilets, kitchens, dining facilities, and other areas with minimal

maintenance requirements, high resistance to staining, absorption and high durability requirements. Tile shall be color through, impervious, unglazed or glazed finish with an unpolished, semi-polished, polished, or textured surface.

C302002 TERRAZZO FLOOR FINISHES

C302002 1.1 BONDED PORTLAND CEMENT TERRAZZO

Provide terrazzo, bonded to concrete, consisting of a terrazzo topping over an underbed. Use in all general areas requiring terrazzo. Where structural movement is anticipated which may injure the terrazzo, use the sand cushion (floating) method. Provide cementitious terrazzo in accordance with the NTMA bonded terrazzo specification. Provide minimum 3 different general colors (with separate combinations of chip inserts as well as binder colors). Provide inserted custom logo in lobby area. Provide 6" cove base with metal trim cap.

C302003 WOOD FLOORING

C302003 1.1 WOOD FLOORING SYSTEM

Wood strip flooring shall be 3/4 inch (19 mm) thick by 2-1/4 inches (57 mm) face width, kiln dried, continuous tongue and groove and of standard lengths. Hard maple shall be second and better in accordance with MFMA-01. Strip flooring shall be marked with the trademark of the grading agency. The strip flooring shall be NOFMA certified and installed in accordance with NOFMA publication *Installing Hardwood Flooring*. Nails shall be as recommended by strip flooring manufacturer's recommendations. Resilient pads shall be pneumatic rubber, PVC, or polyurethane resilient mounts to fit the floor system. Moisture barrier shall be 6 mil minimum thickness polyethylene.

C302003 1.1.2 Rooms where wood flooring is to be installed shall have permanent heating and air conditioning installed and working or adequate arrangements for ventilation and temperature controls starting not less than 3 days prior to beginning the installation of flooring and continuing throughout the remainder of the contract period.

C302003 1.1.3 Concrete slab shall be level, steel troweled to a tolerance of 1/8 inch (3 mm) plus or minus in a 10 foot (3048mm) radius. Slab surface shall be clean, dry, and approved by wood floor manufacturer prior to start of installation.

C302003 1.1.4 Unless otherwise approved, flooring shall be laid parallel to the length of the area to be floored. Strips shall be laid with close joints, snugly driven up but providing for expansion in accordance with humidity conditions expected during the life of the flooring. End joints shall be so alternated that there will be at least two boards between end joints in the same plane and at least 6 inches between end joints in adjacent boards. Space for expansion shall be left along perimeter walls and around fixed projections through the floor surface.

C302003 1.1.5 Flooring shall be sanded to a smooth, even, uniform finish without burns in accordance with the flooring manufacturer's

recommendations. The flooring shall be left clean and ready to receive the finishing materials. Refer to C3040 "INTERIOR PAINTING AND SPECIAL FINISHES" for floor finishes.

C302003 1.2 WOOD ATHLETIC FLOORING SYSTEM

Provide a resilient wood flooring system for sports use. Maple flooring system shall contain vapor barrier, resilient pads, sleepers (flexible and stabilizing), subfloor plywood sheeting, northern hard maple flooring (2nd grade or better), fasteners and anchors, polyurethane seal and finish, wall base (3"x4"), vented to under-floor venting system. Subfloor shall be recessed to receive wood "sports" flooring.

Provide protective floor cover, heavy-duty, rolled, PVC backing with a polyester top. Protective floor cover shall be provided with a rolling rack for storage. ASTM E648 Fire Class 1.

Wood "athletic" flooring shall receive regulation court and game lines, as required by Room Requirements, compatible w/ flooring material and finish. Submit wood athletic flooring system certification in accordance with C30 1.5 CONSTRUCTION SUBMITTALS.

C302004 RESILIENT FLOOR FINISHES

All resilient flooring shall contain a minimum of 25% recycled content. All resilient flooring shall meet or exceed applicable ADA horizontal requirements. Each type of flooring shall be installed with recommended adhesive in accordance with the manufacturers' written instructions. Installers shall be approved by the manufacturer in writing and shall have a minimum of 3 yrs experience for each type of flooring to be installed. A minimum of 2% total quantity for each type flooring, color and pattern shall be provided and stored within each building for future replacement and patching. Provide manufacturers full line of color and pattern selections, including multi-color patterns. Use the resilient floor finishes as identified in the Project Program or as directed below.

C302004 1.1 RESILIENT SHEET FLOORING SYSTEM

Resilient heterogeneous vinyl sheet flooring shall be commercial quality, 0.080 inch (2.0 mm) overall nominal gauge with a minimum wear layer thickness of 0.066 inch (1.6 mm) and a minimum of 6 feet (1.83 m) or 12 feet (3.6 m) wide. It shall include a protective urethane finish for ease of maintenance and conform to ASTM F1303, Type I Grade 1 Class A. Seams shall be recess scribed and heat welded with patterned or solid color weld rods depending on the contractor's design intent to camouflage, blend or accent the seam lines. Resilient heterogeneous vinyl sheet flooring shall require no wax maintenance.

C302004 1.2 RESILIENT TILE FLOORING SYSTEM

Resilient vinyl composition tile (VCT) shall be commercial grade, asbestos free, with a nominal overall gauge of 1/8 inch (3 mm) and a wear layer thickness of 1/8 inch (3 mm) nominal. The tile shall be manufactured in accordance with Federal Specification SS-T-312B (1), Type IV, Comp. 1,

P-1378 WARRIOR HOPE AND CARE CENTER-E, MCB, CLNC
P-1330 WOUNDED WARRIOR BATTALION HQ, MCB, CLNC

Class 2, through pattern. Tile shall be finished in accordance with manufacturer's written instructions.

C302005 CARPETING

C302005 1.1 GENERAL

Installer(s) shall be approved by the manufacturer in writing. Carpet manufacturer shall be established and in good standing with the industry. A minimum of 5% total quantity for each color and pattern shall be provided and stored within the building for future replacement patching.

Carpet to meet the requirements of the Green Label Plus program.

C302005 1.2 CARPET CONSTRUCTION

Provide carpet types based on Table I, "Carpet Construction Type by Facility."

TABLE I - CARPET CONSTRUCTION TYPE BY FACILITY							
Facility Type	Tufted Cut Pile	Tufted Loop Pile	Tufted Cut and Loop	Tufted Tip Shear	Tufted Frieze	Woven Loop or Cut & Loop	Carpet tile
Administrative	-	X	X	X	X	X	X
Open Plan Offices	-	X	X	X	-	X	X
Private Offices	X	X	X	X	X	X	X
Corridors	-	X	X	X	-	X	X
Conference Rooms	X	X	X	X	X	X	X
Training/Educational	-	X	X	-	-	X	X
Borders and insets	X	X	X	X	X	X	X

C302005 1.3 CARPET SEVERE WEAR SPECIFICATIONS

Provide carpet that complies with Table II, "Carpet Specifications for Severe Wear Classification."

TABLE II - CARPET SPECIFICATIONS FOR SEVERE WEAR CLASSIFICATION					
Carpet Construction	Pile Fiber	Weight oz/SY (kg/m2) min. x.037	Pile Height in. (mm) min.	Gauge min.	Pile Density oz/cuyd (kg/m3) min.
Tufted Cut Pile	CF NYLON	32(1.18)	.175(4.45)	1/10	6600 (270)

Tufted Loop Pile	CF NYLON	26(0.82)	.120(3.05)	1/10	6600 (270)
Tufted Cut and Loop	CF NYLON	28(1.04)	.135(3.43)	1/10	7400 (303)
Tufted Tip Shear	CF NYLON	28(1.04)	.135(3.43)	1/10	7400 (303)
Tufted Frieze	CF NYLON	32(1.18)	.175(4.45)	1/10	6600 (270)
Woven Loop	CF NYLON	26(1.04)	.135(3.43)	1/8	7400 (303)
Woven Cut & Loop	CF NYLON	28(1.04)	.135(3.43)	1/8	7400 (303)

C302005 1.4 CARPET PILE FIBER

Provide one of the following:

- a. 100% premium branded, yarn-dyed, Type 6.6 continuous hollow filament nylon
- b. 100% premium branded, solution-dyed, Type 6.6 continuous hollow filament nylon
- c. 100% premium branded, combination yarn dyed and solution-dyed, Type 6.6 continuous hollow filament nylon

C302005 1.5 CARPET BACKING REQUIREMENTS

- a. Provide manufacturer's standard high performance carpet backing.
- b. Moisture resistant carpet backing shall pass the 24 hour British Spill Test.
- c. Moisture proof carpet backing shall pass the 10,000 Impacts Test.
- d. Provide moisture resistant carpet backing with an attached urethane cushion, minimum 18 lb. density.
- e. Provide moisture proof carpet backing with integral high density cushion of thermoplastic, urethane, or PVC.

C302005 1.6 CARPET PERFORMANCE CHARACTERISTICS

- a. Flammability: Carpet shall meet the Critical Radiant Flux Classification of not less than 0.45 W/sq. cm. when tested in accordance with ASTM E648. Carpet shall generate less than 450 rating when tested in accordance with ASTM E662
- b. Static Control: Carpet shall include a permanent static control system to control static build-up to less than 3.0 KV in accordance with AATCC-134.

- c. Dimensional Stability: Carpet shall be permanently dimensionally stable with no delamination of components or any edge raveling or zippering.
- d. Colorfastness to Crocking: Not less than 4, wet and dry, per AATCC-165.
- e. Colorfastness to Light: Not less than 4 after 40 AFU (AATCC fading units) per AATCC-16.
- f. Antimicrobial Activity: Not less than 0.08-inch (2-mm) halo of inhibition for gram-positive bacteria; not less than 0.04-inch (1-mm) halo of inhibition for gram-negative bacteria; no fungal growth, per AATCC-174.
- g. Provide carpets with recycled fiber content, and renewable material content in the attached cushion or backing materials certified by an independent testing agency.
- h. Written Warranty: Lifetime commercial warranty for texture retention and edge raveling, zippering, delamination is required. Seam preparation and adhesives shall be recommended by the carpet manufacturer in accordance with the warranty.
- i. Appearance Retention: Provide carpet with a multi-color pattern for excellent appearance retention and soil hiding characteristics.
- j. Indoor Air Quality: Provide carpets that meet the criteria of the CRI "Green Label Plus" Indoor Air Quality Testing Program.

C302005 1.7 CARPET INSTALLATION

Install carpet by one of the following methods in accordance the manufacturer's recommendations and in accordance with the Carpet and Rug Institute, CRI-104, *Standard for Installation Specification of Commercial Carpet*, compatible with the construction, backing, and pattern characteristics of each carpet provided.

- a. Direct Glue Down Carpet Installation
- b. Double Glue Down Carpet and Pad Installation
- c. Carpet with Attached-Cushion Installation
- d. Preapplied releasable "dry" adhesive system installation.

C302006 CONCRETE FLOOR FINISHES

C302006 1.1 Concrete floors not scheduled otherwise shall receive a smooth trowelled finish with chemical sealer - hardener.

C302006 1.2 Concrete floors at pool decks shall receive a light broom finish or non-slip aggregate finish providing a coefficient of friction greater than .065.

C302007 WALL BASE FINISHES

Provide a wall base for transition between floor and wall finish. If no other type of base is required, provide rubber or vinyl straight base at carpet installations, rubber or vinyl cove base at exposed concrete or resilient tile floors, and a base to match the floor material at hard surface tile floors, or as required in the project program.

C302007 1.1 RESILIENT WALL BASE FINISHES

C302007 1.1.1 All rubber wall base shall be 4 inch (100 mm) high and 1/8 inch (3.2 mm) thick as required unless indicated otherwise. The wall base shall include inside and outside corners and shall conform to ASTM F1861-98, Type TS. Provide wall base in rolls and not 4 foot lengths.

C302007 1.1.2 Flash-coved integral resilient sheet wall bases shall be installed in accordance with the manufacturers' printed instructions to include a cove stick having a minimum radius of 3/4 inch (19 mm) and finished with an approved cap strip. Cove athletic floor material up wall 18" above floor, where indicated.

C302007 1.5 TILE BASE FINISHES

Coordinate tile base with ceramic wall and floor tile for color, material match and modularity. Include all pre-manufactured trim pieces, special shapes, caps, stops, and returns to provide a complete installation. Provide coordinating wall, base and floor tile for curb construction at showers.

C302011 1.4 THRESHOLD(S)

Provide interior thresholds of nonferrous materials where flooring materials or floor levels change.

C302011 1.5 RAMPS

Provide ramps of required slip resistance and slope conforming to ATBCB ADA Title III.

C302090 OTHER FLOORING FINISHES

C302090 1.1 RESILIENT ATHLETIC FLOORING SYSTEMS

C302090 1.1.1 Resilient sheet sports flooring system (Multipurpose Resilient Athletic Flooring).

- a. Composition: Resilient sheet floor finish shall be a cushioned sheet vinyl sports flooring system that provides a shock-absorbing floor system for indoor physical play (basketball, volleyball, racquetball, martial arts, etc.) with a minimum total thickness of 6.7 mm and a minimum width of 1.5 m. Top wear layer shall be a minimum of 2.10 mm. added strength, easy cleaning, and stain

resistance. Second layer shall be homogenous 100% pure vinyl wear layer. Third layer shall be reinforced fiberglass mesh interlayer for dimensional stability and indentation resistance. Backing layer shall be a resilient, closed-cell, high density vinyl foam. A fungistatic and bacteriostatic treatment shall be incorporated throughout the thickness of photoreticulated, UV cured polyurethane, anti-dirt treatment, applied at the factory.

- b. Requirements/Classifications: The sports flooring system shall exceed a Class 1 rating for ASTM E-662 Smoke Density Test. Type I on ASTM F-1303-99 and have an excellent rating on ASTM D-543 Chemical Resistance. ASTM D-2047 Slip Resistance/Coefficient Friction of > or equal to 0.46 is required. Shock Absorption DIN 18032-2 shall be 33% min. Ball rebound, DIN V 18032-2 shall be >, or equal to 97%. Dynamic Load Limit DIN V 18032-2 shall be 1000 lbs/sq. in., or greater. Static Load Limit DIN V 18032-2 shall be 200 lbs/sq. in., greater. Light reflection, ISO 2813, shall be <, or equal to, 30%.
- c. Installation: Calcium Chloride, Bond, and Alkali Tests are required for installations over concrete. Calcium Chloride Tests shall be conducted in accordance with the latest edition of ASTM F 1869, "Standard Test Method for Measuring Vapor Emission Rate of Concrete Sub floor Using Anhydrous Calcium Chloride". A minimum of three calcium chloride tests shall be used for the first 1000 sq. ft. and one additional test for each additional 1000 sq. ft. Each one of three (calcium chloride, bond, alkali) tests shall be conducted in accordance with the test manufacturer's comprehensive written instructions. Any/all hydrostatic pressure, bonding, and/or alkali issues shall be addressed and resolved prior to the installation of the sports barrier, as required. Resilient athletic flooring shall have a 15 year warranty for sport flooring and accessories. Acceptable flooring shall be Taraflex Sport M by Gerflor, or equal.

Apply leveling compound, approved by the manufacturer, to correct minor sub floor deviations. Adhesive(s) shall be recommended by the sports floor manufacturer and in accordance with the warranty. All seams shall be heat welded. Provide manufacturers' full range of colors for Customer's selection. Multiple colors may be used.

- d. Accessories: Provide regulation court and game lines, as required by Room Requirements, using the recommended game line paint and primers as approved by the floor manufacturer. Multiple colors may be used.

C302090 1.1.2 SHOCK ABSORPTIVE FLOORING

A multi-layer, impact distribution flooring system designed to be aesthetic, easy to maintain and highly durable. The depth of the material should be specified to attenuate a 10 ft. (3.05 m) fall. Flooring must meet "DIN" standards for rock climbing per American College of Sports Medicine (ACSM) and Head Injury Criterion tests for applicable fall heights. Use in Rock Climbing wall area.

- a. Shock Absorptive Resilient Flooring shall be a multi-layered, seamless, poured-in-place rubber and foam landing surface. The

upper surface is poured in place recycled or EDPM rubber with underlayments of two layers of open and closed cell foam. The upper foam layer is load distributing while the bottom layer provides impact absorption. Total thickness is approximately 5 to 6 inches.

- b. Shock Absorptive Non-Resilient Flooring shall be a multi-layered seamed (flush joint) commercial-grade carpet surface heat-bonded to two layers of open and closed cell foam underlayment. The upper foam layer is load distributing while the bottom layer provides impact absorption. Total thickness is approximately 5 to 6 inches.

C302090 1.1.4 INDOOR TRACK FLOORING

Provide a prefabricated sheet rubber athletic flooring system for purpose of an indoor running track. Flooring shall be a dual layer of vulcanized rubber. Wear surface shall be chemical resistant and UV resistant.

- a. Game lines/lane markings are to be of compatible paint recommended by the flooring manufacturer. Coordinate game lines/lane markings with the Room Requirements and Activity user.
- b. Subflooring shall be prepared as recommended by indoor track flooring manufacturer. Coordinate provision of waterproofing membrane under subfloor and any subfloor depression that may be required for flooring transitions. Moisture vapor emission and pH of concrete shall be tested prior to installation.
- c. Moisture vapor emissions must not exceed the capacity of the specified adhesive as verified using calcium chloride test per ASTM F 1869-04. pH level should be in the range acceptable to the manufacturer for the flooring system

C302090 1.1.4.1 INDOOR TRACK (LIQUID)FLOORING

Provide for purpose of an indoor running track a seamless polyurethane resin structural surface layer roller-applied wear surface that is strong, durable and free of mercury, lead and other heavy metals. Wear surface is adhered to a sealed "shock pad" of granulated rubber/polyurethane.

- a) Adhere pad flooring base mat to subflooring. Wear surface shall be chemical resistant and UV resistant. Provide flooring surface coatings as recommended by flooring manufacturer.
- b) Game lines/lane markings are to be of compatible paint recommended by the flooring manufacturer. Coordinate game lines/lane markings with the Room Requirements and Activity user.
- c) Subflooring shall be prepared as recommended by indoor track flooring manufacturer. Coordinate provision of waterproofing membrane under subfloor and any subfloor depression that may be required for flooring transitions.
- d) Moisture vapor emission and pH of concrete shall be tested prior to installation. Moisture vapor emissions must not exceed the

capacity of the specified adhesive as verified using calcium chloride test per ASTM F 1869-04. pH level should be in the range acceptable to the manufacturer for the flooring system.

C3030 CEILING FINISHES

Refer to C3040 "INTERIOR PAINTING AND SPECIAL COATINGS" for painted ceiling finishes.

C303001 ACOUSTICAL CEILING TILES AND PANELS

C303001 1.1 ACOUSTICAL CEILING PANELS

All acoustical ceiling panels shall be 24 inch by 24 inch (610 mm by 610 mm), with a minimum light reflectance of .75 (except as noted), Class A, flame spread 25 or less and smoke development of 50 or less, ASTM E84. All acoustical ceiling panels shall have minimum 60% recycled content except as noted. Acoustical ceiling panels shall conform to ASTM E1264. Provide square edge except as noted.

C303001 1.1.1 For typical open office areas, conference rooms, executive offices, provide non-asbestos mineral composition acoustical ceiling panels of Type III with factory-applied standard washable painted finish or Type IV with factory-applied plastic membrane-faced vinyl, Form: 1, 2, or 3. Provide reveal edge in lobbies, conference rooms and command suites; otherwise, provide square edge in all other locations to receive acoustical panels.

C303001 1.1.2 For typical humid areas such as toilets, kitchens, fitness and locker rooms, provide non-asbestos mineral or glass composition acoustical ceiling panels bonded with ceramic, moisture resistant thermo-setting resin, or other moisture resistant material with factory-applied standard washable painted finish; and recycled content: minimum of 40%.

C303001 1.1.5 Provide NRC and CAC ratings as follows:

Type of space	Minimum NRC	Minimum CAC
Open Office Areas	.75	40-44
Conference Rooms, Classrooms	.60	35-39
Activity spaces, Lobbies, Corridors	.60	35-39
Executive offices	.60	35-39
Toilets	.50	35-39
Kitchens	.50	35-39
Fitness/Locker Rms	.50	35-39
All other spaces	.50	35-39

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Base the tested NRC value on Mounting Type E-400 of ASTM E795.

C303002 GYPSUM WALLBOARD CEILING FINISHES

Conform to specifications, standards and requirements in accordance with Gypsum Association GA 214, GA 216 and GA 224. Provide asbestos free materials only. Provide featured edge gypsum board on all gypsum surfaces that flatness of joints will be visible, such as uplighted ceilings, window lighted ceilings, and as recommended by the manufacturer. Provide Type X gypsum board in fire rated assemblies.

C303002 1.1 REGULAR GYPSUM BOARD

ASTM C36/C36M and ASTM C1396/C1396M, 5/8 inch(15.9 mm) thick, tapered edge.

C303002 1.2 MOISTURE RESISTANT GYPSUM BOARD

ASTM C630/C630M, 5/8 inch (15.9 mm) thick, tapered edges. Use for ceilings in humid areas. Do not use as a substrate in tiled areas where tile will be exposed to direct moisture contact or condensation accumulation. Support moisture resistant gypsum board at 12 inches (305 mm) on center.

C303002 1.3 CEMENTITIOUS BACKING UNITS

ANSI A108.11 and ANSI A118.9, 1/2 or 5/8 inch (12.7 mm or 15.9 mm) thick; use for adhesive applied ceramic tile in wet areas (tubs, shower enclosures, saunas, steam rooms, gang shower rooms, or for shower areas with a veneer plaster finish. Support cementitious backing units at 12 inches (305 mm) on center. Provide screws specifically designed for use with cement panels.

C303002 1.4 IMPACT RESISTANT GYPSUM BOARD

Reinforced gypsum panel with imbedded fiber mesh or lexan backing, 5/8 inch (15.9mm) thick, tapered edges, in accordance with Structural Failure Test; ASTM E695 or ASTM D2394 and Indentation Test; ASTM D5420 or ASTM D1037. For use whenever gypsum board partitions are allowed for barracks, training facilities, and industrial facilities. Provide metal framing of 20-gauge minimum. Provide fasteners that meet manufacturer requirements and specifications. Impact resistant gypsum board shall have a flame spread rating of 25 or less and a smoke developed rating of 50 or less, ASTM E84. Finish with a high strength veneer plaster.

C303002 1.6 JOINT TREATMENT

ASTM C475, Joint compound shall be specifically formulated and manufactured for use with and compatible with tape, substrate and fasteners as recommended by the manufacturer. Tape and finish gypsum board in accordance with ASTM C840, GA 214 and GA 216. Provide premanufactured joints at all structural expansion joints, crack control joints, and change of materials as recommended by the manufacturer and in accordance with GA 216.

C303002 1.7 FASTENERS

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ASTM C514, Fasteners shall be compatible with each type of gypsum board material as recommended by the gypsum board manufacturer and in accordance with GA 216 and GA 224.

C303002 1.8 ACCESSORIES

ASTM C1047, Fabricate from corrosion protected steel or plastic designed for intended use. Accessories manufactured with paper flanges are not acceptable. Flanges shall be free of dirt, grease, and other materials that may adversely affect bond of joint treatment. Provide prefinished or job decorated materials. Install as recommended by GA 214, GA 216 and GA 224.

C303002 1.9 LEVEL OF FINISH

C303002 1.9.1 Tape and finish gypsum board in accordance with ASTM C840, GA 214 and GA 216. Ceilings without critical lighting to receive flat paints shall be finished to GA 214, Level 4. Unless otherwise specified, all gypsum board walls, partitions and ceilings shall be finished to GA 214, Level 5. Provide joint, fastener depression, and corner treatment. Do not use fiberglass mesh tape with conventional drying type joint compounds; use setting or hardening type compounds only. Provide treatment for water-resistant gypsum board as recommended by the gypsum board manufacturer.

C303002 1.9.2 Wherever gypsum board is to receive eggshell, semigloss or gloss paint finish, or where severe, up or down lighting conditions occur, finish gypsum wall surface to GA 214 Level 5. In accordance with GA 214 Level 5, apply a thin skim coat of joint compound to the entire gypsum board surface, after the two-coat joint and fastener treatment is complete and dry.

C303005 SUSPENSION SYSTEMS

C303005 1.1 EXPOSED SUSPENDED ACOUSTICAL CEILING GRID

Provide 24 inch by 24 inch (610 mm by 610 mm) aluminum or steel non-corroding intermediate-duty standard grid system for lay-in acoustical panels (ASTM C635). Finish shall be factory applied white baked enamel. Provide manufacturer's hold down clips for fire rated assemblies and wall or edge molding. Hang grid system as recommended by manufacturer but with no less than 0.106 inch (2.7 mm) diameter wires (ASTM A641A, A641M, Class 1), or with one by 3/16 inch (4.76 mm) galvanized steel straps conforming to ASTM A653A, A653M (for light commercial zinc coating) or ASTM A366A, A366M (with an electrodeposited zinc coating, Type RS). Use ASTM A580/A580M, composition 302 or 304, condition annealed stainless steel, 0.106 inches (2.7 mm) in diameter over high humidity areas such as commercial kitchens and pools. Install suspended grid system with acoustical sealant (ASTM C843, nonstaining and ASTM C636). Recycled content shall be a minimum of 25%.

C303005 1.3 SUSPENDED AND FURRED CEILING SYSTEMS

ASTM C841 (for lath); ASTM C645 (for GWB).

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Provide steel materials for metal support systems with galvanized coating per ASTM A653/A653M, G60; aluminum coating ASTM A463/A463M, T1-25; or a 55% aluminum-zinc coating. Provide suspended ceiling framing in accordance with ASTM C754, except framing members shall be 16 inches (400mm) unless otherwise noted.

C3040 INTERIOR COATINGS AND SPECIAL FINISHES

The following coatings are applied directly to all surfaces of interior construction.

C304001 GENERAL REQUIREMENTS

All paint shall be suitable in accordance with the Master Painter Institute (MPI) standards for the interior architectural surface being finished. The current MPI, "Approved Product List" as of the date of contract award, will be used to determine compliance with the submittal requirements of this specification. The Contractor may choose to use a more current MPI "Approved Product List"; however, only one list may be used for the entire contract. All coats on a particular substrate, or a paint system, must be from a single manufacturer. No variation from the MPI Approved Products List is acceptable.

MPI PAINT SYSTEMS IDENTIFIED IN THE RFP TAKE PRECEDENCE OVER OTHER MPI SYSTEMS. IF THE RFP DOES NOT IDENTIFY A PAINT SYSTEM APPLICABLE TO ALL PAINTING OF THE FACILITY, UTILIZE THE MPI *ARCHITECTURAL PAINTING, INTERIOR SYSTEM* MANUAL TO IDENTIFY APPROPRIATE PAINT SYSTEMS. UTILIZE THE "PREMIUM GRADE" SYSTEMS AND COMPLY WITH ALL LIMITATIONS STATED IN THE MPI "APPROVED PRODUCTS LIST" FOR EACH SYSTEM. PRODUCTS HAVING AN MPI EPR 3 RATING SHALL BE GIVEN PREFERENTIAL CONSIDERATION OVER LOWER EPR RATINGS. THE HIGHER PERFORMING SYSTEMS SHALL BE USED UNLESS THE LOWER PERFORMING SYSTEMS CAN BE JUSTIFIED BASED ON LIFE CYCLE COSTS TO INCLUDE SURFACE PREPARATION, APPLICATION, DISPOSAL, ENVIRONMENTAL IMPACT, AND RECOATING CYCLES BASED ON EXPOSURE REQUIREMENTS. ONLY USE PAINT PRODUCTS THAT HAVE BEEN TESTED FOR THE MPI'S "DETAILED PERFORMANCE". DO NOT USE PRODUCTS THAT HAVE BEEN TESTED ONLY FOR "INTENDED USE". **C304001 1.1 MPI GLOSS LEVELS**

Gloss levels shall comply with the MPI system of determining gloss as defined in the Evaluation sections of the MPI Manuals. Utilize the performance characteristics of the paint gloss and sheen to categorize paint rather than manufactures' description of his product.

The MPI Gloss Levels are indicated by the notation G1, G2, G3, G4, G5, G6, or G7. Use G2 "Velvet-like" Flat for ceilings, residential walls away from human contact and low traffic areas. Use G3 "Eggshell-like" in high traffic areas for ceilings and walls, when human contact with the wall is limited, and for dark accent colors. Use G5 Semigloss for ceilings, walls, doors and trim for high durability and clean ability when a surface is expected to have human contact and is routinely touched.. Use G6 Gloss only in special situations such as for piping identification or special effects. The MPI Gloss and Sheen Standard values are measured per ASTM D523, method D and are as follows:

Gloss Level Number

Gloss@ 60 Degrees Sheen@85 Degrees

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Gloss Level 1(G1) - Matte or Flat	Max.5 units	Max.10 units
Gloss Level 2(G2) - "Velvet-like" Flat	Max. 10 units	10-35 units
Gloss Level 3(G3) - "Eggshell-like"	Max. 10-25 units	10-35 units
Gloss Level 4(G4) - "Satin-like"	Max. 20-35 units	Min. 35 units
Gloss Level 5(G5) - Semi-Gloss	35-70 units	
Gloss Level 6(G6) - Gloss	70-85 units	
Gloss Level 7(G7) - High Gloss	More than 85 units	

C304001 1.2 MPI SYSTEM DESIGNATIONS AND ABBREVIATIONS

The MPI coating system number in each Division is found in either the *MPI Architectural Painting Specification Manual* or the *Maintenance Repainting Manual* and defined as an interior system (INT/RIN).

- a. INT designates an interior coating system for new surfaces.
- b. RIN designates an interior coating system used in repainting projects or over existing coating systems.
- c. DSD - the MPI short-term designation for Degree of Surface Degradation as defined in the Assessment sections in the *MPI Maintenance Repainting Manual*. Degree of Surface Degradation designates the MPI Standard for description and appearance of existing condition of surfaces to be painted. This DSD classification is used to determine the proper surface preparation necessary for painting.
- d. DFT - The short-term designation for dry film thickness. DFT is the minimum acceptable depth or thickness of a coating or system in the dry state. The maximum acceptable DFT is not more than 50% greater than the minimum acceptable DFT (example... DFT = 2 mils, maximum DFT = 3 mils). The DFT indicated in the paint systems below relate to new coatings - MPI INT. MPI RIN will be less than the indicated DFT.
- e. Paint System Abbreviations: BF - Block Filler; C - Clear coat; P - Primer coat; I - Intermediate coat; T - Topcoat.

C304001 1.3 SURFACE PREPARATION

Comply with the "Interior Surface Preparation" section of the *MPI Architectural Painting Specification Manual* or the Interior Surface Preparation" section of the *MPI Maintenance Repainting Manual*. All suggestive language such as "may" or "should" are deleted from the standard and "must" or "shall" inserted in its place. Suggestive language such as "recommended" or "advisable" is deleted from the standard and "require" or "required" inserted in its place. The results of these wording substitutions change this document to required procedures. For surface preparation, determine a MPI DSD Assessment of each surface and comply with the MPI Surface Preparation Requirements relating to the assessments.

C304002 CONCRETE FINISHES

C304002 1.1 New and uncoated existing, and Existing, previously painted, Concrete surfaces:

- a. High Performance Architectural Latex, System DFT: 4 mils
 - 1) MPI INT 3.1C-G2/RIN 3.1J-G2 (Flat); P: MPI 3, I: MPI 138, T: MPI 138
 - 2) MPI INT 3.1C-G3/RIN 3.1J-G3 (Eggshell-like); P: MPI 3, I: MPI 139, T: MPI 139
 - 3) MPI INT 3.1C-G5/RIN 3.1J-G5 (Semigloss); P: MPI 3, I: MPI 141, T: MPI 141
- b. Institutional Low Odor / Low VOC Latex, System DFT: 4 mils
 - 1) MPI INT 3.1M-G3/RIN 3.1L-G3 (Eggshell-like); P: MPI 3, I: MPI 145, T: MPI 145
 - 2) MPI INT 3.1M-G5/RIN 3.1L-G5 (Semigloss); P: MPI 3, I: MPI 147, T: MPI 147

C304002 1.2 New and uncoated existing and Existing, previously painted Concrete surfaces in toilets, food-preparation, food-serving, restrooms, laundry areas, shower areas, areas requiring a high degree of sanitation, and other high humidity areas unless otherwise specified:

- a. Waterborne Light Industrial Coating, Not for human or abrasive contact areas, System DFT: 4.8 mils
 - 1) MPI INT 3.1L-G5/RIN 3.1C-G5 (Semigloss); P: MPI 153, I: MPI 153, T: MPI 153
- b. Alkyd, System DFT: 4.5 mils
 - 1) MPI INT/RIN 3.1D-G5 (Semigloss); P: MPI 3, I: MPI 47, T: MPI 47
- c. Epoxy, System DFT: 4 mils
 - 1) MPI INT 3.1F-G6/RIN 3.1E-G6 (Gloss); P: MPI 77, I: MPI 77, T: MPI 77

C304002 1.3 New and uncoated existing and Existing, previously painted concrete floors:

- a. Latex Floor Paint, MPI INT/RIN 3.2A-G2 (Flat); System DFT: 5 mils, P: MPI 60, I: MPI 60, T: MPI 60
- b. Epoxy, MPI INT/RIN 3.2M-G6 (Gloss), System DFT: 5 mils, P: MPI 77, I: MPI 77, T: MPI 77

C304003 CONCRETE MASONRY FINISHES

C304003 1.1 New and uncoated Existing Concrete masonry:

- a. High Performance Architectural Latex, System DFT: 11 mils
 - 1) MPI INT 4.2D-G2 (Flat); BF: MPI 4, P: N/A, I: MPI 138, T: MPI 138
 - 2) MPI INT 4.2D-G3 (Eggshell-like); BF: MPI 4, P: N/A, I: MPI 139, T: MPI 139
 - 3) MPI INT 4.2D-G5 (Semigloss); BF: MPI 4, P: N/A, I: MPI 141, T: MPI 141
- b. Institutional Low Odor / Low VOC Latex, System DFT: 4 mils
 - 1) MPI INT 4.2E-G3 (Eggshell-like); BF: MPI 4, P: N/A, I: MPI 145, T: MPI 145
 - 2) MPI INT 4.2E-G5 (Semigloss); BF: MPI 4, P: N/A, I: MPI 147, T: MPI 147
- c. Multi-color, MPI INT 4.2H, BF: MPI 4, P: MPI 125, I: MPI 112, T: MPI 112, C: MPI 121

C304003 1.3 New and uncoated Existing Concrete masonry units in toilets, food-preparation, food-serving, restrooms, laundry areas, shower areas, areas requiring a high degree of sanitation, and other high humidity areas unless otherwise specified, (Patch imperfections and fill all masonry surface voids with block filler):

- a. Waterborne Light Industrial Coating, Not human or abrasive contact areas, System DFT: 11 mils
 - 1) MPI INT 4.2K-G5 (Semigloss); BF: MPI 4, P: N/A, I: MPI 153, T: MPI 153
- b. Alkyd, System DFT: 12 mils
 - 1) MPI INT 4.2N-G5 (Semigloss); BF: MPI 4, P: MPI 50, I: MPI 47, T: MPI 47
- c. Epoxy, System DFT: 10 mils
 - 1) MPI INT 4.2G-G6 (Gloss); BF: MPI 116, P: N/A, I: MPI 77, T: MPI 77

C304004 METAL FINISHES

C304004 1.1 New and Existing, previously painted steel/ferrous surfaces not otherwise specified:

- a. High Performance Architectural Latex, System DFT: 5 mils
 - 1) MPI INT 5.1R-G3 (Eggshell-like); P: MPI 79, I: MPI 139, T: MPI 139
 - 2) MPI INT 5.1R-G5 (Semigloss); P: MPI 79, I: MPI 141, T: MPI 141

b. Alkyd, System DFT: 5.25 mils

1) MPI INT 5.1E-G3 (Eggshell-like); P: MPI 79, I: MPI 51, T: MPI 51

2) MPI INT 5.1E-G5 (Semigloss); P: MPI 79, I: MPI 47, T: MPI 47

C304004 1.2 New and Existing, previously painted steel/ferrous surfaces in toilet, food preparation, food serving, restrooms, shower areas and areas requiring a high degree of sanitation and other high humidity areas not otherwise specified except floors, hot metal surfaces, and new prefinished equipment:

a. Alkyd, System DFT: 5.25 mils

1) MPI INT 5.1E-G5 (Semigloss); P: MPI 79, I: MPI 47, T: MPI 47

C304004 1.3 New and Existing, previously painted miscellaneous non-ferrous surfaces not otherwise specified:

a. High Performance Architectural Latex, System DFT: 5 mils. MPI INT 5.4F-G5 (Semigloss); P: MPI 95, I: MPI 141, T: MPI 141

b. Alkyd, System DFT: 5 mils. MPI INT 5.4J-G5 (Semigloss); P: MPI 95, I: MPI 47, T: MPI 47

C304004 1.4 New and Existing, previously painted miscellaneous galvanized doors not otherwise specified:

a. Epoxy, System, MPI INT 5.3D-G6 (Gloss); P: MPI 101, I: MPI 77, T: MPI 77

b. Alkyd, System DFT: 5 mils. MPI INT 5.3C-G5 (Semigloss); P: MPI 26, I: MPI 47, T: MPI 47

C304005 INTERIOR WOOD FINISHES

C304005 1.1 New and Existing, uncoated wood and plywood not otherwise specified:

a. High Performance Architectural Latex, System DFT: 4.5 mils

1) MPI INT 6.4S-G4 (Satin-like); P: MPI 39, I: MPI 140, T: MPI 140

2) MPI INT 6.4S-G5 (Semigloss); P: MPI 39, I: MPI 141, T: MPI 141

b. Alkyd, System DFT: 4.5 mils, MPI INT 6.4B-G5 (Semigloss); P: MPI 45, I: MPI 47, T: MPI 47

c. Institutional Low Odor / Low VOC Latex, System DFT: 4 mils

1) MPI INT 6.4T-G4 (Satin-like); P: MPI 39, I: MPI 146, T: MPI 146

2) MPI INT 6.4T-G5 (Semigloss); P: MPI 39, I: MPI 147, T: MPI 147

C304005 1.3 New and Existing, previously finished or stained wood and plywood, except floors; natural finish or stained:

- a. Natural finish, oil-modified urethane, System DFT: 4 mils, MPI INT 6.4J-G4/RIN 6.4L-G4 (Satin-like); P: MPI 57, I: MPI 57, T: MPI 57
- b. Stained, oil-modified urethane, System DFT: 4 mils, MPI INT 6.4E-G4/RIN 6.4G-G4 (Satin-like); P: MPI 90, I: MPI 57, T: MPI 57

C304005 1.4 New and Existing, previously finished or stained wood floors; natural finish or stained:

- a. Natural finish, oil-modified urethane, System DFT: 4 mils, MPI INT/RIN 6.5C-G6 (Gloss); P: MPI 56, I: MPI 56, T: MPI 56
- b. Stained, oil-modified urethane, System DFT: 4 mils, MPI INT/RIN 6.5B-G6 (Gloss); P: MPI 90, I: MPI 56, T: MPI 56

C304005 1.5 New and Existing, uncoated wood surfaces in toilets, food-preparation, food-serving, restrooms, laundry areas, shower areas, areas requiring a high degree of sanitation, and other high humidity areas not otherwise specified:

- a. Waterborne Light Industrial Coating, System DFT: 4.5 mils, MPI INT 6.3P-G5 (Semigloss); P: MPI 45, I: MPI 153, T: MPI 153
- b. Alkyd, System DFT: 4.5 mils, MPI INT 6.3B-G5 (Semigloss); P: MPI 45, I: MPI 47, T: MPI 47

C304006 GYPSUM WALL BOARD FINISHES

C304006 1.1 New and Existing, previously painted Gypsum Wallboard not otherwise specified (interior gypsum finish of exterior wall):

- a. High Performance Architectural Latex, System DFT: 4 mils
 - 1) MPI INT/RIN 9.2B-G2 (Flat); P: MPI 50, I: MPI 138, T: MPI 138
 - 2) MPI INT/RIN 9.2B-G3 (Eggshell-like); P: MPI 50, I: MPI 139, T: MPI 139
 - 3) MPI INT/RIN 9.2B-G5 (Semigloss); P: MPI 50, I: MPI 141, T: MPI 141
- b. Institutional Low Odor / Low VOC Latex, System DFT: 4 mils
 - 1) MPI INT/RIN 9.2M-G3 (Eggshell-like); P: MPI 50, I: MPI 145, T: MPI 145
 - 2) MPI INT/RIN 9.2M-G4 (Satin-like); P: MPI 50, I: MPI 146, T: MPI 146
 - 3) MPI INT/RIN 9.2M-G5 (Semigloss); P: MPI 50, I: MPI 147, T: MPI 147

P-1378 WARRIOR HOPE AND CARE CENTER-E, MCB, CLNC
P-1330 WOUNDED WARRIOR BATTALION HQ, MCB, CLNC

c. Multi-color, MPI INT9.2G; P: MPI 125, I: MPI 112, T: MPI 112, Clear Coat: MPI 121

C304006 1.2 New and Existing, previously painted Gypsum Wallboard in toilets, food-preparation, food-serving, restrooms, laundry areas, shower areas, areas requiring a high degree of sanitation, and other high humidity areas not otherwise specified:

a. Waterborne Light Industrial Coating, (Not for human or abrasive contact areas) System DFT: 4 mils, MPI INT/RIN 9.2L-G5 (Semigloss); P: MPI 50, I: MPI 153, T: MPI 153

b. Alkyd, Use for metal or trim for a durable, hard finish. System DFT: 4 mils, MPI INT/RIN 9.2C-G5 (Semigloss); P: MPI 50, I: MPI 47, T: MPI 47

c. Epoxy, Use for high humidity areas requiring easy to clean enamel finishes. System DFT: 4 mils, MPI INT 9.2E-G6 (Gloss) / MPI RIN 9.2D-G6 (Gloss)P: MPI 50, I: MPI 77, T: MPI 77

's certified representative shall provide an on-site training demonstration of the application and care of the finish for the end-user's facility manager or other representative.

-- End of Section --