

## **PART 1      GENERAL**

### **1.1      RELATED SECTIONS**

- .1      Division 1
- .2      06 10 00 – Rough Carpentry
- .3      07 21 16 – Blanket Insulation
- .4      07 84 00 – Firestopping
- .5      07 92 00 – Joint Sealants
- .6      08 11 13 – Steel Doors and Frames
- .7      09 51 99 – Acoustical Panel Ceilings

### **1.2      REFERENCES**

- .1      American Society for Testing and Materials International (ASTM).
  - .1      ASTM C36/C36M 01, Specification for Gypsum Wallboard.
  - .2      ASTM C475 01, Specification for Joint Compound and Joint Tape for Finishing Gypsum Board.
  - .3      ASTM C645 00, Specification for Non-structural Steel Framing Members.
  - .4      ASTM C754 00, Specification for Installation of Steel Framing Members to Receive Screw Attached Gypsum Panel Products.
  - .5      ASTM C840 01, Specification for Application and Finishing of Gypsum Board.
  - .6      ASTM C1002 01, Specification for Steel Self Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs.
- .2      Underwriters' Laboratories of Canada (ULC).
  - .1      CAN/ULC S102 1988(R2000), Surface Burning Characteristics of Building Materials and Assemblies.

### **1.3      SUBMITTALS**

- .1      Submit samples in accordance with Division 1.
- .2      Product data: submit Product Data Sheets for each type of gypsum board used and indicate location the product it will be used.
- .3      ULC tested wall assemblies: Submit tested wall assemblies information.

### **1.4      QUALITY ASSURANCE**

- .1      Work under this section to be performed by qualified tradespeople who are trained and experienced with work under this section.

### **1.5      DELIVERY, STORAGE, AND HANDLING**

- .1      Store materials inside, level, under cover. Protect from weather, damage from construction operations and other causes, in accordance with manufacturer's printed instructions.
- .2      Handle materials to prevent damage to edges or surfaces. Protect metal accessories and trim from being bent or damaged.

## **1.6 ENVIRONMENTAL AND SAFETY REQUIREMENTS**

- .1 Minimize construction waste and recycle packaging and materials.
- .2 Products shall be high recycle content and low/no VOC.
- .3 Enclose and ventilate areas of work when dust generating activity is performed. Ensure appropriate PPE equipment is used for the applications.

## **PART 2 PRODUCTS**

### **2.1 NON-STRUCTURAL METAL FRAMING**

- .1 Resilient furring channels, 12mm deep x 55mm wide.

### **2.2 GYPSUM BOARD**

- .1 Standard board: to ASTM C1396 and CAN/ULC S102, mould and moisture resistant gypsum board, 1200mm wide x maximum practical length, ends square cut, and edges tapered. 15.9mm Type X, and 12.7mm Type C fire rated.

### **2.3 ACCESS DOORS**

- .1 Sizes: Except as indicated otherwise on drawings, to be minimum sizes as follows:
  - .1 For hand entry: 300 x 300 mm.
- .2 Construction: Rounded safety corners, concealed hinges, insulated, key lock, anchor straps, able to open 180 degrees. Minimum ¾ hour Fire rated. Factory painted white. All keyed alike.

### **2.4 ACCESSORIES**

- .1 Steel drill screws: to ASTM C1002.
- .2 Casing beads, corner beads, control joints and edge trim: to ASTM C1047, metal, 0.5mm base thickness, perforated flanges, one piece length per location.
  - .1 Plastic trims will be rejected.
- .3 Joint compound: to ASTM C475, asbestos-free.
- .4 Insulating strip: rubberized, moisture resistant, 3mm thick closed cell neoprene strip, 12mm wide, with self-sticking permanent adhesive on one face, lengths as required.

## **PART 3 EXECUTION**

### **3.1 PREPARATION**

- .1 Verify products to be used are compatible with ULC tested assemblies listed on the drawings.
- .2 Submit product data and ULC test assembly data as one submittal demonstrating compliance. Products not covered by ULC testing will be rejected.
- .3 Do not proceed with ordering material until after shop drawings and submittals have been reviewed.
- .4 Coordinate work with other trades including work required for rough-ins, blocking, fireproofing and firestopping.

### **3.2 ERECTION OF FRAMING**

- .1 Install steel framing members to receive screw-attached gypsum board in accordance with ASTM C754 except where specified otherwise.
- .2 Erect metal studding to tolerance of 1:1000.

### **3.3 INSTALLATION**

- .1 Erect accessories straight plumb or level, rigid and at proper plane. Use full length pieces where practical. Make joints tight, accurately aligned and rigidly secured. Mitre and fit corners accurately, free from rough edges. Secure at 150mm on centre.
- .2 In fire separations, provide fire rated gypsum board behind, and all sides of, all recessed fire extinguishers and electrical panels.
- .3 Install casing beads around perimeter of suspended ceilings.
- .4 Install casing beads where gypsum board butts against surfaces having no trim concealing junction. Seal joints with sealant.
- .5 Install insulating strips continuously at edges of gypsum board and casing beads abutting concrete surfaces, to provide thermal break.
- .6 Provide control joints where required by manufacturer. Provide control joints every thirty feet (9100mm) from floor to ceiling in partitions and bulkheads of greater than thirty feet in length. Control joints are to be evenly placed and coordinated with all construction joints (expansion, seismic, or building control element.)
- .7 Install access doors to electrical and mechanical fixtures specified in respective sections.
  - .1 Rigidly secure frames to furring or framing systems.
- .8 Finish face panel joints and internal angles with joint system consisting of joint compound, joint tape and taping compound installed according to manufacturer's directions and feathered out onto panel faces.
- .9 Finish corner beads, control joints and trim as required with two coats of joint compound and one coat of taping compound, feathered out onto panel faces.
- .10 Fill screw head depressions with joint and taping compounds to bring flush with adjacent surface of gypsum board so as to be invisible after surface finish is completed.
- .11 Completed installation to be smooth, level or plumb, free from waves and other defects and ready for surface finish. Minimum acceptable finish shall be ASTM C840 Level 4 finish.

END OF SECTION

## **PART 1      GENERAL**

### **1.1          RELATED SECTIONS**

- .1      Division 1.
- .2      Section 07 92 00 – Joint Sealants
- .3      Section 10 22 26 – Operable Partitions

### **1.2          REFERENCES**

- .1      American National Standards Institute (ANSI)
  - .1      ANSI A108/A118/A136.1-1999, American National Standard for Installation of Ceramic Tile.
- .2      American Society for Testing and Materials (ASTM)
  - .1      ASTM B221M-00, Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes Metric.
  - .2      ASTM C109/C109M-02 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or 50-mm Cube Specimens).
  - .3      ASTM D2369-04, Standard Test Method for Volatile Content of Coatings.
- .3      Terrazzo, Tile and Marble Association of Canada (TTMAC) – 2002 Specification Guide 09300 Tile Installation Manual.
- .4      DIN 51130 Testing of Floor Coverings; Determination of the Anti-slip Properties; Workroom and Fields of Activities with Raised Slip Danger; Walking Method; Ramp Test and DIN 51097 – Testing of Floor Coverings; Determination of the Anti-slip Properties; Wet-loaded Barefoot Areas; Walking Method – Ramp Test.

### **1.3          SUBMITTALS**

- .1      Submit in accordance with Division 1.
- .2      Submit full size tile samples of each colour, texture, size, and pattern of tile.
- .3      Submit manufacturer's product data for transition strip, mortars, grouts, adhesives, patching and levelling compounds.

### **1.4          CLOSEOUT SUBMITTALS**

- .1      Submit product data in accordance with Division 1.
- .2      Submit full size tile samples of each colour, texture, size, and pattern of tile.
- .3      Submit manufacturer's product data for transition strip, mortars, grouts, adhesives, patching and levelling compounds.

### **1.5          QUALITY ASSURANCE**

- .1      Schedule review of floor slopes and floor drains with Engineer-Architect prior to application of ceramic tile. Allow 5 days notice.
- .2      Schedule selection of floor tiles and grout with Engineer-Architect and location of tile patterns to ensure no delay in work.
- .3      Construct mock-up of an area of wall and floor for review and acceptance by Owner prior to proceeding with the remainder of the work. Mock up shall include corner trims and transitions. If accepted as is the mock up may remain as part of the work.

- .4 Observe manufacturer recommended curing time for new concrete and masonry.

## **1.6 DELIVERY, STORAGE, AND HANDLING**

- .1 Deliver, store, and handle materials in accordance with manufacturer's instructions.

## **1.7 ENVIRONMENTAL REQUIREMENTS**

- .1 Temperature: Maintain ambient temperature of not less than 12°C for 72 hours before installation until fully cured.

# **PART 2 PRODUCTS**

## **2.1 CERAMIC TILE**

- .1 Solid unglazed thru-body porcelain, 12" x 24" (305mm x 610mm) size; matt finish tiles, frost resistant, R9 minimum slip resistance, rated for high commercial traffic. Provide with cut 305mm x 610mm base.
- .2 Colour selected by Architect from full colour range.
- .3 Installation Pattern: brick.

## **2.2 MORTAR AND ADHESIVE MATERIALS**

- .1 Water: potable and free of minerals which are detrimental to mortar and grout mixes.
- .2 Thin set bond coat: To ANSI A118.4, polymer modified Portland cement mortar.
- .3 Organic adhesive: ANSI A136.1, Type 1, high strength latex-based, non-flammable adhesive.

## **2.3 GROUT**

- .1 Polymer modified portland cement grout: to ANSI A118.6, sanded, colour as selected by Consultant;

## **2.4 ACCESSORIES**

- .1 Bonding Agent: recommended by manufacturer.
- .2 Sub-floor filler: to ASTM C109M, rapid curing, self-finishing, cementitious underlayment for thickness range of 6mm to 100mm, with primer recommended by manufacturer.
  - .1 Compressive strength: minimum 27.5 MPa at 28 days.
- .3 Sub-floor skim coating compound: to ASTM C109M, rapid curing, polymer modified cementitious patching compound.
  - .1 Compressive strength: minimum 27.5 MPa at 28 days.
- .4 Tile flooring transition strips: Adjustable height transition strip with integral perforated anchoring leg for setting the strip into the setting material:
  - .1 Height: As required to suit application.
  - .2 Material and finish: Stainless steel.
  - .3 Location: Hard tile to dissimilar floor coverings and existing door thresholds.
- .5 Tile transition at Operable Partition and at transition to existing ceramic tile: purpose made T shaped transition trim, of stainless steel construction, for transitioning from new to existing ceramic tile.

- .6 Outside corners of wall base, and top of wall base: Preformed metal edge with perforated anchoring leg. Stainless steel construction.
- .7 Tile Setting Spacers: Purpose made, thermoplastic construction, for producing even tile joints and reducing tile lippage.
- .8 Joint Sealant: Clear paintable silicone per Section 07 92 00 – Joint Sealants

## **PART 3 EXECUTION**

### **3.1 PREPARATION**

- .1 Concrete floor and concrete block wall surfaces must be clean and sound.
- .2 Coordinate with trades for installation of tile work. Coordinate locations and finished height to suit tile work.
- .3 Coordinate floor flatness criteria with requirements of Section 10 22 26 – Operable Partitions.
- .4 Remove sub-floor surface ridges and bumps. Build slopes to drains, fill low spots, cracks, joints, holes and other defects with sub floor filler.
  - .1 Floor flatness Tolerance: 6mm in 3m.

### **3.2 WORKMANSHIP**

- .1 Do tile work in accordance with 2002 Tile Installation Manual produced by Terrazzo Tile and Marble Association of Canada (TTMAC), except where specified otherwise.
- .2 Apply tile to clean and sound surfaces. Use tile setting spacers to provide even joint lines and to eliminate tile lippage.
- .3 Fit tile around corners, fitments, fixtures, drains and other built-in objects. Maintain uniform joint appearance. Cut edges smooth and even. Install coved floor base, inside corners, outside corners, and tile end units.
- .4 Maximum surface tolerance 1:800.
- .5 Make joints between tile 2 mm wide and 4 mm wide for floors. Joints to be uniform, plumb, straight, true, even and flush with adjacent tile with no lippage.
- .6 Lay out tiles to pattern approved by Consultant.
- .7 Sound tiles after setting and replace hollow-sounding units to obtain full bond.
- .8 Allow minimum 24 h after installation of tiles, before grouting.
- .9 Grout tiles in accordance with grout manufacturer's instructions.
- .10 Perform site test to ensure grout does not stain tile. Notify Consultant of any staining before proceeding with Work.
- .11 Clean installed tile surfaces after installation and grouting cured.

### **3.3 TRANSITION STRIPS, CONTROL JOINTS AND TRIM**

- .1 Provide transition strips at door openings, tile terminations, corners, and as indicated and where dissimilar materials are encountered.
- .2 Install in continuous lengths, to level straight lines by pressing the perforated leg solidly into the tile setting adhesive. Butt ends of units tightly together with hairline joint. Trowel an additional layer of tile setting material over the leg prior to placement of tiles.

- .3 Cut trim around corners and existing door frames. Butt up to existing aluminum door thresholds.
- .4 Ensure profiles are solidly embedded in setting material and that all cavities are filled to prevent the collection of alkaline water.
- .5 Ensure profiles are solidly embedded in setting material and that all cavities are filled to prevent the collection of alkaline water.
- .6 Apply clear paintable sealant to fill between trim and adjacent materials.

### **3.4 PROTECTION OF FINISHED WORK**

- .1 Prohibit traffic on floor for 48 hours after installation.

END OF SECTION

## **PART 1 – GENERAL**

### **1.1 REFERENCES**

- .1 American Society for Testing and Materials International (ASTM)
  - .1 ASTM C635 00, Specifications for the Manufacture, Performance and Testing of Metal Suspension Systems for Acoustical Tile and Lay In Panel Ceilings.
  - .2 ASTM C636 96, Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay In Panels.
  - .3 ASTM E1477 98a(2003), Standard Test Method for Luminous Reflectance Factor of Acoustical Materials by Use of Integrating Sphere Reflectometers.
- .2 Canadian General Standards Board (CGSB)
  - .1 CAN/CGSB 92.1 M8, Sound Absorptive Prefabricated Acoustical Units.
- .3 Underwriter's Laboratories of Canada (ULC)
  - .1 CAN/ULC S102 2003, Surface Burning Characteristics of Building Materials and Assemblies.

### **1.2 SUBMITTALS**

- .1 Product Data: Submit product data sheets for ceiling tile and grid.
- .2 ULC Test Assembly: Submit ULC tested assembly demonstrating at least ¾ hour fire resistance rating with wood joist roof assembly. Existing roof assembly is composed of board roof decking on 38 x 235 wood joists at 400mm centers.

### **1.3 DESIGN REQUIREMENTS**

- .1 Maximum deflection: 1/360th of span to ASTM C635 deflection test.

### **1.4 STORAGE AND HANDLING**

- .1 Store materials inside, level, under cover. Protect from weather, damage from construction operations and other causes, in accordance with manufacturer's printed instructions.
- .2 Handle materials to prevent damage to edges or surfaces. Protect metal accessories and trim from being bent or damaged.



## **PART 2 - PRODUCTS**

### **2.1 ACOUSTICAL CEILING PANELS**

- .1 Fire rated, acoustical lay-in tiles purpose made for suspended ceiling system. Medium texture mineral fiber composition with factory applied latex paint finish. 30 year warranty.
  - .1 Fire performance: Class A.
  - .2 Light Reflectance: 80% minimum
  - .3 NRC: 0.55 minimum
  - .4 CAC: 30 minimum
  - .5 Articulation Class: 170
  - .6 Edge type: square
  - .7 Sizes: 610 x 1220mm,
  - .8 Thickness: 19mm
  - .9 Color: white
  - .10 ASTM Classification: Type III, Form 2, pattern: CD
  - .11 Sag Resistance: standard
  - .12 Recycled content: 30% minimum

### **2.2 ACOUSTICAL SUSPENSION**

- .1 Intermediate duty system to ASTM C635, fire rated.
- .2 Basic materials for suspension system: commercial quality cold rolled steel, zinc coated.
- .3 Suspension system: fire rated, two directional exposed tee bar grid, 610 x 1220mm size.
- .4 Exposed tee bar grid components: shop painted satin sheen. Components die cut. Main tee with double web, rectangular bulb and 25 mm rolled cap on exposed face. Cross tee with rectangular bulb; web extended to form positive interlock with main tee webs; lower flange extended and offset to provide flush intersection.
- .5 Hanger wire: purpose made galvanized soft annealed steel wire, diameter as recommended by manufacturer based on length for access tile ceilings. Baling wire is not acceptable substitute.
- .6 Hanger inserts: purpose made.
- .7 Carrying channels: fire rated, 38mm channel, of 0.51mm thick galvanized steel.
- .8 Accessories: splices, hold down clips, wire ties, retainers and wall moulding, flush type, to complement suspension system components, as recommended by system manufacturer.
- .9 Colour: white

## **PART 3 EXECUTION**

### **3.1 INSTALLATION OF SUSPENSION SYSTEM**

- .1 Installation: in accordance with ASTM C636 except where specified otherwise.
- .2 Do not erect ceiling suspension system until work above ceiling has been inspected by Consultant.

- .3 Secure hangers to overhead structure using attachment methods recommended by manufacturer for substrate encountered.
- .4 Install hangers spaced at maximum 1200mm centres and within 150mm from ends of main tees.
- .5 Lay out centreline of ceiling both ways, to provide balanced borders at room perimeter.
- .6 Install wall moulding to provide correct ceiling height.
- .7 When cutting and patching ceilings, replace damaged grid system components and provide new grid system where fixtures are added or moved.
- .8 Completed suspension system to support super imposed loads, such as lighting fixtures diffusers, grilles, speakers and other systems.
- .9 Support at light fixtures and diffusers with additional ceiling suspension hangers within 150mm of each corner and at maximum 600mm around perimeter of fixture.
- .10 Interlock cross member to main runner to provide rigid assembly.
- .11 Finished ceiling system to be square with adjoining walls and level within 1:1000.
- .12 Install ceiling edge trim complete with all accessories required for a complete system.

### **3.2 INSTALLATION OF ACOUSTIC PANELS**

- .1 Install acoustical panels and tiles in ceiling suspension system. Neatly cut and fit to suit.
- .2 Coordinate ceiling work to accommodate components of other sections, such as light fixtures, diffusers, speakers, sprinkler heads, to be built into acoustical ceiling components.
- .3 When cutting and patching ceilings, replace broken tiles with new, and provide new tiles where fixtures are moved or added.
4. Install hold down clips when required for fire rating of the system.

**END OF SECTION**

## **PART 1        GENERAL**

### **1.1            REFERENCES**

- .1 Master Painters Institute (MPI)
  - .1 MPI Architectural Painting Specifications Manual, 2004.
  - .2 MPI Architectural Maintenance Repainting Manual.
- .2 Test Method for Measuring Total Volatile Organic Compound Content of Consumer Products, Method 24 (for Surface Coatings) of the Environmental Protection Agency (EPS).
- .3 American Society for Testing and Materials (ASTM)
  - .1 ASTM D2369-04, Standard Test Method for Volatile Content of Coatings.

### **1.2            QUALITY ASSURANCE**

- .1 Qualifications: Contractor with minimum of five years proven satisfactory experience. When requested, provide list of last three comparable jobs including, job name and location, specifying authority, and project manager.

### **1.3            SUBMITTALS**

- .1 Submittals in accordance with Division 1.
- .2 Submit product data and instructions for each paint and coating product to be used.
- .3 Submit paint colour schedule listing paint colours and locations.

### **1.4            DELIVERY, STORAGE AND HANDLING**

- .1 Packing, Shipping, Handling and Unloading: in accordance with manufacturer's written instructions.

### **1.5            SITE CONDITIONS**

- .1 Heating, Ventilation and Lighting:
  - .1 Provide heating facilities to maintain ambient air and substrate temperatures above 10°C for 24 hours before, during and after paint application until paint has cured sufficiently.
  - .2 Provide continuous ventilation for seven days after completion of application of paint.
  - .3 Provide temporary ventilating and heating equipment where permanent facilities are not available or supplemental ventilating and heating equipment if ventilation and heating from existing system is inadequate to meet minimum requirements.
- .2 Surface and Environmental Conditions:
  - .1 Apply paint finish in areas where dust is no longer being generated by related construction operations or when wind or ventilation conditions are such that airborne particles will not affect quality of finished surface.
  - .2 Apply paint to adequately prepared surfaces and to surfaces within moisture limits.
  - .3 Apply paint when previous coat of paint is dry or adequately cured.

## **PART 2 PRODUCTS**

### **2.1 GENERAL**

- .1 All paint materials shall be selected from the MPI Approved Products List and must meet the MPI Green Performance Standard (GPS) where available, unless otherwise directed by the Departmental Representative. Conform to latest MPI requirements for painting work including preparation and priming.
- .2 Provide paint materials for paint systems from single manufacturer.
- .3 Paint materials listed in the latest edition of the MPI Approved Products List are acceptable for use on the Project. Paint materials for each coating formula to be products of a single manufacturer.
- .4 Low odour products: whenever possible, select products exhibiting low odour characteristics. If two products are otherwise equivalent, select the product with the lowest odour. Only qualified products with E2 or E3 "Environmentally Friendly" rating are acceptable for use on the Project.
- .5 Paints, coatings, adhesives, solvents, cleaners, lubricants, and other fluids, shall: be water-based, water soluble, water clean-up, non-flammable, manufactured without compounds which contribute to ozone depletion in the upper atmosphere, be manufactured without compounds which contribute to smog in the lower atmosphere, and do not contain methylene chloride, chlorinated hydrocarbons, toxic metal pigments.
- .6 Perform colour tinting operations prior to delivery of paint to site. Paste, powder or catalyzed paint mixes shall be mixed in strict accordance with manufacturer's written instructions. Where thinner is used, addition shall not exceed paint manufacturer's recommendations. Do not use kerosene or any such organic solvents to thin water-based paints. Thin paint for spraying according in strict accordance with paint manufacturer's instructions.

### **2.2 COLOURS**

- .1 Confirm selection with Departmental Representative prior to ordering material. Make adjustments to selection as requested at no additional cost. Allow up to 10 colors in the project.
- .2 Second coat in three coat system to be tinted slightly lighter colour than top coat to show visible difference between coats.

### **2.3 MIXING AND TINTING**

- .1 Perform colour tinting operations prior to delivery of paint to site.
- .2 Use and add thinner in accordance with paint manufacturer's recommendations. Do not use kerosene or similar organic solvents to thin water-based paints.

### **2.4 GLOSS/SHEEN RATINGS**

- .1 Paint gloss: defined as sheen rating of applied paint, in accordance with the values as follows:

Gloss Level Category	Units @ 60 Degrees	Units @ 85 Degrees
G1 - matte finish	0 to 5	Max. 10
G2 - velvet finish	0 to 10	10 to 35
G3 - eggshell finish	10 to 25	10 to 35
G4 - satin finish	20 to 35	min. 35
G5 - semi-gloss finish	35 to 70	
G6 - gloss finish	70 to 85	
G7 - high gloss	Greater than	

finish	85	
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## **2.5 EXTERIOR PAINTING SYSTEMS**

- .1 Structural Steel and Metal Fabrications: EXT 5.1J – Pigmented polyurethane finish (over high build epoxy).
- .2 Galvanized Metal, not chromate passivated: EXT 5.3D – Pigmented polyurethane finish for use in high contact/high traffic areas.
- .3 Exterior siding panels and trim: EXT 6.3M High Performance Architectural Latex or latex primer.

## **2.6 INTERIOR PAINTING SYSTEMS**

- .1 Structural Steel and Metal Fabrications: columns, beams, joists, etc.
  - .1 NEW Material: INT 5.1S Institutional Low Odor/Low VOC over water based rust inhibitive primer.
  - .2 REPAINTING: RIN 5.1S Institutional Low Odor/Low VOC over water based rust inhibitive primer
  - .3 G5 finish typical, G4 for overhead.
- .2 Galvanized Metal: doors, frames, railings, misc. steel, pipes, overhead decking, ducts, etc.
  - .1 NEW Material: INT 5.3M High Performance Architectural Latex over water based galvanized primer.
  - .2 REPAINTING: RIN 5.3J High Performance Architectural Latex over water based galvanized primer.
  - .3 Door frames, railings, misc. steel: G5 finish
  - .4 Overhead ducts and structure: G4 finish
  - .5 Duct interior visible through diffusers: G1 finish.
- .3 Dressed Lumber: including doors, door and window frames casings, mouldings, etc.
  - .1 NEW Material: INT 6.3A High Performance Architectural Latex over latex primer.
  - .2 REPAINTING: RIN 6.3T High Performance Architectural Latex over latex primer.
  - .3 G5 finish.
- .4 Plaster and Gypsum Board:
  - .1 NEW Material: INT 9.2B High Performance Architectural Latex over latex sealer/primer.
  - .2 REPAINTING: RIN9.2B High Performance Architectural Latex over latex sealer/primer
  - .3 Walls: G4 finish. Washrooms and Custodial: G5.
  - .4 Ceilings: G2 finish

## **PART 3 EXECUTION**

### **3.1 GENERAL**

- .1 Perform preparation and operations for interior painting in accordance with MPI Architectural Painting Specifications Manual except where specified otherwise.
- .2 Apply paint materials in accordance with paint manufacturer's written application instructions.

### **3.2 PREPARATION**

- .1 Protection:

- .1 Protect existing building surfaces and adjacent structures from paint spatters, markings and other damage by suitable non-staining covers or masking. If damaged, clean and restore surfaces as directed by Consultant.
  - .2 Protect items that are permanently attached such as Fire Labels on doors and frames.
  - .3 Protect factory finished products and equipment.
  - .4 Protect passing pedestrians, building occupants and general public in and about the building.
- .2 CLEAN AND PREPARE SURFACES IN ACCORDANCE WITH MPI ARCHITECTURAL PAINTING SPECIFICATION MANUAL REQUIREMENTS.
- .3 Sand and dust between coats as required to provide adequate adhesion for next coat and to remove defects visible from a distance up to 1000 mm.
- .4 On surfaces to be painted, remove all cover plates on mechanical/electrical devices before painting.

### **3.3 APPLICATION**

- .1 Conform to manufacturer's application instructions unless specified otherwise.
- .2 Apply coats of paint continuous film of uniform thickness. Repaint thin spots or bare areas before next coat of paint is applied.
- .3 Allow surfaces to dry and properly cure after cleaning and between subsequent coats for minimum time period as recommended by manufacturer.
- .4 Sand and dust between each coat to remove visible defects.
- .5 Finish surface both above and below sight lines as specified for surrounding surfaces, including such surfaces as tops of interior cupboards and cabinets and projecting ledges.
- .6 Finish top, bottom, edges and cut-outs of doors after fitting as specified for door surfaces.
- .7 Paint interior surfaces of ductwork that are visible through diffusers flat black.

### **3.4 SITE TOLERANCES**

- .1 WALLS: NO DEFECTS VISIBLE FROM A DISTANCE OF 1000 MM AT 90 DEGREES TO SURFACE.
- .2 Ceilings: no defects visible from floor at 45 degrees to surface when viewed using final lighting source.
- .3 Final coat to exhibit uniformity of colour and uniformity of sheen across full surface area.

### **3.5 RESTORATION**

- .1 Clean and re-install all hardware items removed before undertaken painting operations.
- .2 Remove protective coverings and warning signs as soon as practical after operations cease.
- .3 Remove paint splashings on exposed surfaces that were not painted. Remove smears and splatter immediately as operations progress, using compatible solvent.
- .4 PROTECT FRESHLY COMPLETED SURFACES FROM PAINT DROPPINGS AND DUST. AVOID SCUFFING NEWLY APPLIED PAINT.

END OF SECTION