

1 ARCHITECTURAL SPECIFICATION

1.1 MASONRY

1.1.1 MORTAR: CSA A179; TYPE N BASED ON PROPORTION SPECIFICATIONS.

2 ACCESSORIES:

1 WEEP HOLES: CELLULAR PLASTIC, HONEYCOMB DESIGN, MODULAR SIZING; COLOUR AS SELECTED BY DEPARTMENTAL REPRESENTATIVE.

2 THRU-WALL FLASHING: SELF-ADHESIVE SBS MODIFIED BITUMINOUS MEMBRANE REINFORCED WITH RUBBERIZED ASPHALT WITH CROSS LAMINATED POLYETHYLENE. PURPOSE MADE AS THRU-WALL FLASHING.

3 MORTAR MESH: PROPRIETARY CONTROL DEVICES WHICH COLLECTS AND HOLDS MORTAR DROPPINGS ABOVE THE WEEP HOLES; FABRICATED FROM FIBROUS PLASTIC MESH HAVING TRAPEZOIDAL DESIGN TO PREVENT MORTAR DAMMING.

4 BRICK TIES: CAN/CSA A370, ADJUSTABLE, TWO-PIECE SYSTEM (BASE PLATE AND WIRE TIE); GALVANIZED FINISH.

3 FACE BRICK: TO CAN/CSA-A82.1, GRADE SW, TYPE FBS, SIZE, COLOUR AND TEXTURE TO MATCH EXISTING.

1.2 CASEWORK

1 PRODUCTS:

1 HARDWOOD LUMBER: TO NATIONAL HARDWOOD LUMBER ASSOCIATION (NHLA) REQUIREMENTS, TO ANMAC CUSTOM GRADE, BIRCH

2 HARDWOOD PLYWOOD: TO ANSI/HPVA HP-1, BIRCH VENEER, USE TYPE II BOND.

3 PLASTIC LAMINATE: TO NEMA LD 3, GRADES AS SPECIFIED. ONLY USE LAMINATE FROM ONE MANUFACTURER UNLESS APPROVED BY DEPARTMENTAL REPRESENTATIVE.

1 GENERAL PURPOSE, STANDARD GRADE (HGS), 1.2 MM THICK, BASED ON PRINTED PATTERN COLOUR RANGE WITH SATIN FINISH.

2 BACKING GRADE: OF SAME THICKNESS AND COLOUR AS FACE LAMINATE. SANDED ONE SIDE.

3 LINER SHEET: 0.75 MM THICK, WHITE COLOUR.

2 HARDWARE:

1 DRAWER SLIDES:

1 SIDE MOUNTED: HEAVY DUTY SIDE MOUNTED, BALL-BEARING ACTION, FULL EXTENSION, 45 KG CAPACITY, ZINC FINISH.

2 HINGE: TO ANSI/BHMA A156.9

1 CONCEALED TYPE: TYPE B01601, 120° OPENING, SELF-CLOSING, REMOVABLE ARM, MOUNTING PLATE TO SUIT CONDITIONS, NICKEL FINISH.

3 LOCK: UTILITY TYPE, DIE CAST CYLINDER, WITH KEY REMOVABLE IN LOCKED OR UNLOCKED POSITION, CAM OF STYLE TO SUIT, SATIN NICKEL/CHROME FINISH.

4 BLOW CATCH: TO ANSI/BHMA A156.9, TYPE B0323, CAST BRASS OR BRONZE, NICKEL FINISH.

5 PULL:

1 BACK-MOUNTED, CONTEMPORARY DOUBLE "T", 272 MM OVERALL LENGTH, 192 MM CENTRES, BRUSHED NICKEL FINISH.

6 SHELF HARDWARE:

1 SHELF STANDARDS AND RESTS: TO ANSI/BHMA A156.9, STEEL, NICKEL FINISH

1 STANDARD: TYPE B04071, MORTISE APPLICATION, ADJUSTABLE ON 13 MM CENTRES.

2 SHELF REST: TYPE B04091.

7 GROMMET: 75mm HOLE DIAMETER, PLASTIC, COLOUR AS SELECTED BY DEPARTMENTAL REPRESENTATIVE.

3 CONSTRUCTION:

1 ANMAC QUALITY GRADE, CUSTOM.

2 CASEWORK SHALL CONFORM TO ANMAC DESIGN DETAILS FOR FLUSH OVERLAY CONSTRUCTION.

1.3 FIRESTOPPING

1 FIRE STOPPING AND SMOKE SEAL SYSTEMS: IN ACCORDANCE WITH CAN/ULC-S115.

2 FIRESTOPPING SYSTEM RATING: NOT LESS THAN THE FIRE-RESISTANCE RATING OF SURROUNDING FLOOR, WALL AND CEILING ASSEMBLY.

3 SUBMIT ULC DESIGN SYSTEM, OR ENGINEERED JUDGEMENT, FOR EACH TYPE OF JOINT AND SERVICE PENETRATION.

1 SHOW PROPOSED MATERIAL, FIRE RATING, REINFORCEMENT, ANCHORAGE, FASTENINGS AND METHOD OF INSTALLATION. CONSTRUCTION DETAILS SHOULD ACCURATELY REFLECT ACTUAL JOB CONDITIONS.

2 WHERE MORTAR OR OTHER PRODUCT IS ACCEPTABLE FOR A COMPONENT, CLEARLY INDICATE THE PRODUCT BEING SUPPLIED ON THIS PROJECT.

1.4 SEALANT

1 ACRYLIC LATEX: TO ASTM C834.

2 SILICONE - MILDEW RESISTANT: ASTM C920, TYPE S, GRADE NS, CLASS 25, USES NT, A AND O: SINGLE COMPONENT WITH FUNGICIDE; COLOUR TO MATCH ADJACENT SURFACES.

3 URETHANE: TO ASTM C920, TYPE M, GRADE NS, CLASS 25, USES T, NT, M, A AND O.

4 SCHEDULE: CAULK THE FOLLOWING USING ACRYLIC LATEX SEALANT:

1 INTERIOR PERIMETER OF STEEL FRAMES, JOINTS BETWEEN DIFFERENT MATERIALS: ACRYLIC LATEX.

2 PERIMETER OF CASEWORK: SILICONE

3 EXTERIOR PERIMETER OF STEEL FRAMES, JOINTS BETWEEN DIFFERENT MATERIALS: URETHANE.

5 BACKER ROD: CLOSED CELL POLYETHYLENE, OVERSIZE 30 TO 50%.

1.5 ANTIVAUULT COUNTER BARRIER

1 ALUMINUM FRAMES: 45 MM X 114 MM X 3 MM WALL THICKNESS, NON-THERMALLY BROKEN, FLUSH GLAZED, TO ACCOMMODATE SINGLE GLASS AT CENTRE OF FRAME, COMPLETE WITH SNAP-IN FILLERS

2 DOORS: CONSTRUCTED OF PORTHOLE EXTRUSIONS WITH MINIMUM WALL THICKNESS OF 3 MM WITH REINFORCED MECHANICALLY JOINED CORNERS.

1 EXTRUSION SIZES

1 THICKNESS: 45 MM.

2 STILES: 57 MM.

3 TOP RAIL: 57 MM.

4 BOTTOM RAIL: 149 MM.

3 GLASS: 6 MM LAMINATED TEMPERED GLASS WITH 0.030 PVB INTERLAYER.

4 ALUMINUM PANEL: FACTORY FABRICATED, 11 MM PLYWOOD, FACED BOTH SIDES WITH 0.5 MM SMOOTH ALUMINUM SHEET.

5 HARDWARE:

1 TOP GUIDE: EXTRUDED ALUMINUM, 38 MM HIGH X 60 MM DEEP; COMPLETE WITH REPLACEABLE WEATHERSTRIPPING.

2 BOTTOM TRACK: EXTRUDED ALUMINUM, RECESSED APPLICATION.

3 DOOR CARRIERS: HEAVY DUTY, TAPERED NYLON WHEELS WITH BALL-BEARING ROLLERS.

4 DEADLOCK: TO ANSI/BHMA A156.5, TYPE E0231, GRADE 1, THUMBTURN ON INTERIOR SIDE ONLY; BACKSET TO SUIT, LATCH BOLT SIZE 16 MM X 25 MM WITH 16 MM THROW.

5 PULL: MANUFACTURER'S STANDARD RECESSED PULL ON INTERIOR SIDE ONLY.

6 SLAM LOCK: SELF-LATCHING HOPPER WINDOW TYPE LOCK; BRUSHED CHROMENICKEL FINISH.

6 SPEAKER PORT: 152 MM DIAMETER STAINLESS STEEL SPEAKER DISK IN 120 MM DIAMETER OPENING

1 ACCEPTABLE MATERIALS: MODEL SST5 BY CR LAURENCE.

7 ALUMINUM FINISH: CLEAR ANODIC FINISH, ARCHITECTURAL CLASS 1 COATING, DESIGNATION AA M122C2441.

8 FASTENERS: ALUMINUM OR STAINLESS STEEL.

9 FABRICATION

1 GENERAL:

1 MITRE, REINFORCE AND WELD CORNERS. CONCEAL WELDS AND FASTENERS. CONNECTIONS TO HAVE FLUSH, HAIRLINE JOINTS.

2 PROVIDE INTERNAL STRUCTURAL STEEL REINFORCEMENT AS REQUIRED.

2 PASS THRU DOOR:

1 ALUMINUM PANEL, COMPLETE WITH FOUR (4) EDGES CAPPED WITH ALUMINUM U-TRIM. PROVIDE TWO HEAVY DUTY HINGES AND ONE SLAM LATCH PER DOOR.

1.6 DOORS AND FRAMES

1 STEEL DOORS AND FRAMES: COMMERCIAL QUALITY.

1 STANDARD AND FIRE-RATED: PRODUCTS BY CURRENT CSDMA MEMBER.

2 SOUND RATED ASSEMBLIES:

1 ACOUSTIC PERFORMANCE: SOUND TRANSMISSION CLASS (STC) 50, WHEN TESTED IN ACCORDANCE WITH ASTM E90.

2 APPLY LABEL INDICATING SOUND TRANSMISSION CLASS TO DOOR AND DOOR FRAME.

3 SUBMIT TEST DATA INDICATING COMPLIANCE WITH THE SOUND TRANSMISSION CLASS (STC) REQUIREMENTS. INCLUDE LABORATORY NAME, TEST REPORT NUMBER, AND DATE OF TEST.

2 DOORS: SWING TYPE, FLUSH, WITH PROVISION FOR GLASS AND/OR DOOR GRILLE OPENINGS AS INDICATED.

1 CONSTRUCTION:

1 STC RATED DOORS: OF DESIGN AND CORE SUITABLE TO ACHIEVE SPECIFIED STC PERFORMANCE.

2 REMAINDER OF DOORS: LAMINATED CORE CONSTRUCTION, REINFORCED WITH VERTICAL STIFFENERS. FILL VOIDS BETWEEN STIFFENERS OF EXTERIOR DOORS WITH POLYURETHANE INSULATION. MINERAL FIBRE INSULATION CORE FOR INTERIOR DOORS.

1 SECURE DOORS: 1.6 MM THICK FACE SHEETS.

2 REMAINDER OF DOORS 1.2 MM THICK FACE SHEETS.

3 FRAMES: FABRICATE TO PROFILES AND MAXIMUM FACE SIZES AS INDICATED.

1 FABRICATE INTERIOR FRAMES, BOTH REGULAR AND SECURE FROM 1.6 MM THICK SHEET STEEL; EXTERIOR FRAMES FROM 1.6 MM SHEET STEEL, THERMALLY BROKEN. REINFORCE INSIDE FACE OF SECURE DOOR FRAMES, AT STRIKE LOCATION, WITH 6.4 MM STEEL PLATE. INSTALL LOW-EXPANSION FOAM-IN-PLACE POLYURETHANE INSULATION IN PERIMETER OF EXTERIOR FRAMES.

2 SOUND RATED FRAMES: SHEET STEEL FACES OF THICKNESS TO ACHIEVE SPECIFIED STC PERFORMANCE.

4 STC RATED DOOR HARDWARE:

1 THRESHOLD: SMOOTH AND FLUSH, TO PROVIDE A SEAL FOR DOOR IN CLOSED POSITION.

2 PERIMETER AND BOTTOM ACOUSTIC SEALS: TO PROVIDE A SEAL FOR DOOR IN CLOSED POSITION.

1.7 DOOR HARDWARE

1 HINGES: TO ANSI/BHMA A156.1, FULL MORTISE, BALL BEARING.

2 LOCK (MORTISED): TO ANSI/BHMA A156.13, SERIES 1000, OPERATIONAL GRADE 1, SECURITY GRADE 1; LEVER TRIM AND ROUND ROSE TO MATCH EXISTING, HAVING LATCH BOLT THROW OF 19 MM AND DEAD BOLT THROW OF 25 MM.

1 STANDARD BOARD: REGULAR, TYPE X AND TYPE C PAPER FACED.

1 ONLY THE FOLLOWING PRODUCTS SERIES WILL BE CONSIDERED (NO SUBSTITUTIONS): 8200 SERIES BY SARGENT, L9000 SERIES BY SCHLAGE, M12200 SERIES BY CORBIN/ROSSWINN.

2 CYLINDERS: TO ANSI/BHMA A156.5, CONSTRUCTION KEY SYSTEM ONLY. PERMANENT CYLINDERS WILL BE PROVIDED BY OTHERS.

3 DOOR CLOSERS: TO ANSI/BHMA A156.4, MODERN TYPE, SURFACE APPLICATION. CLOSER TO HAVE ALUMINUM OR CAST-IRON CASE, FULL PLASTIC COVERS, ADJUSTABLE CLOSING POWER, AND BACK CHECKING ACTION. SILVER LACQUER FINISH. MOUNTING, ARMS AND BRACKETS AS LISTED IN SCHEDULE.

4 PUSH PLATES: TO ANSI/BHMA A156.6, 89 MM X 381 MM X 1.27 MM THICK, UNBEVELLED EDGES

5 DOOR PULLS: TO ANSI/BHMA A156.6, 225 MM X 25 MM DIAMETER PULL AND 89 MM X 381 MM X 1.27 MM PLATE.

6 OVERHEAD STOP: TO ANSI/BHMA A156.8, SURFACE MOUNTED, SLIDE ACTION.

7 FLOOR STOPS: TO ANSI/BHMA A156.16, FLOOR MOUNTED, DOME STYLE, L02141 OR L02161 TO SUIT CONDITIONS.

8 KICK PLATES: TO ANSI/BHMA A156.6, DOOR WIDTH LESS 41 MM ON PUSH SIDE OF DOOR AND 25 MM ON PULL SIDE OF DOOR X 250 MM HIGH X 3 MM THICK.

9 THRESHOLDS: EXTRUDED ALUMINUM, THERMALLY BROKEN, MILL FINISH, SERRATED SURFACE, 125 MM TO 133 MM X FULL WIDTH OF DOOR OPENING.

10 WEATHERSTRIPPING: CLEAR ANODIZED EXTRUDED ALUMINUM RETAINER, U-SHAPED TO ALLOW FOR MOUNTING OF CLOSERS AND OVERHEAD HOLDERS/STOPS, 45 MM WIDE X 7.9 MM THICK WITH BULB SEAL; LENGTH EQUAL TO JAMBS AND HEAD.

11 SMOKE SEALS: SILICONE BULB WITH SELF-ADHESIVE BACKING, BLACK/BRONZE COLOUR.

12 DOOR SWEEP: EXTRUDED ALUMINUM RETAINER, 32 MM WIDE WITH 3 MM THICK BLACK SOLID NEOPRENE; FULL WIDTH. CLEAR ANODIZED FINISH, UNLESS NOTED OTHERWISE IN SCHEDULE.

13 VIEWER: TO ANSI/BHMA A156.16, CLASSIFICATION L03222, ONE-WAY, 180° TO 200° VIEWING ANGLE, SOLID BRASS CONSTRUCTION, LISTED OR LABELED FOR FIRE RATED APPLICATIONS, POLISHED OPTICAL GLASS LENSES.

1 APPROVED PRODUCT (NO SUBSTITUTIONS): LOXEM 190 BY VSI HARDWARE INDUSTRIES, 20 R35 BY MADISON PRODUCTS COMPANY, U698B3 BY IVES, DS238 BY ASD METALLIC INDUSTRIES.

14 POCKET DOOR SYSTEM: COMPLETE SYSTEM INCLUDING QUICK RELEASE HANGERS, EXTRUDED ALUMINUM TRACK, FLOOR GUIDE, AND DOOR STOPS

1 ACCEPTABLE MATERIALS: TYPE C SERIES BY K.N. CROWDER.

2 PRIVACY SET: K.N. CROWDER C-90, SERIES.

1.8 WINDOWS

1 CONSTRUCTION: EXTRUDED PVC, MULTI-CHAMBER DESIGN, MINIMUM 2.2 mm WALL THICKNESS; COMPLETE WITH TRIM AS REQUIRED; WHITE COLOUR. GLAZE WITH CLEAR INSULATING GLASS UNIT HAVING ARGON FILL.

2 INSTALL SECURITY FILM ON INTERIOR SIDE.

3 PERFORMANCE: WINDOWS TO COMPLY WITH REQUIREMENTS OF AAMA/WDMA/CSA 1011.5.2/IA440. CLASSIFICATION AS FOLLOWS: R-PG30, TYPE WF, CAI-FIXED.

3 SECURITY FILL: TO ANSI Z97.1, 0.18mm THICK.

1 PROPERTIES:

1 TENSILE STRENGTH: 28,000 psi.

2 PEEL STRENGTH: 8 lbs./inch².

3 VISIBLE LIGHT TRANSMITTANCE: 92%.

4 UV REJECTION: 92%.

5 SOLAR ENERGY

1 TRANSMITTED: 82%.

2 REFLECTED: 10%.

3 ABSORBED: 8%.

6 SHADING COEFFICIENT: 94%.

7 SOLAR ENERGY REJECTED: 17%.

2 STANDARD OF ACCEPTANCE: 100 SERIES, SFT CLEAR BY ACE SECURITY LAMINATES

1.9 HARDWARE SETS

1 HARDWARE SET NO. 1 (EXTERIOR, DORMITORY)

3 HINGES A2111 114 X 101 X NRP X 26D

1 LOCK SET F13 X 26D

1 CLOSER C02041

1 OVERHEAD STOP C02541 X 26D

1 SET WEATHERSTRIPPING HEAD AND JAMBS

1 DOOR SWEEP

1 THRESHOLD - THERMALLY BROKEN

1 DOOR VIEWER

2 HARDWARE SET NO. 2 (FIRE-RATED MORTISE LOCK - STOREROOM, PA CLOSER, SMOKE SEALS)

3 HINGES A8112 114 X 101 X NRP X 26D

1 LOCK SET F07 X 26D

1 CLOSER C02021

1 OVERHEAD STOP C02541 X 26D (DOOR 100A ONLY)

1 FLOOR STOP L02141 X 26D

1 SET SMOKE SEALS AT FIRE-RATED AND ZERO-HOUR RATED DOORS.

3 HARDWARE SET NO. 3 (MORTISE LOCK - STOREROOM, SOUND SEALS)

3 HINGES A2111 114 X 101 X 26D

1 LOCK SET F07 X 26D

1 FLOOR STOP L02141 X 26D

SOUND-RATED SEALS, DOOR BOTTOM AND THRESHOLD BY SOUND-RATED DOOR MANUFACTURER.

4 HARDWARE SET NO. 4 (MORTISE LOCK - HOTEL GUEST, SOUND SEALS)

3 HINGES A2111 114 X 101 X 26D

1 LOCK SET F15 X 26D

1 FLOOR STOP L02141 X 26D

SOUND-RATED SEALS, DOOR BOTTOM AND THRESHOLD BY SOUND-RATED DOOR MANUFACTURER.

5 HARDWARE SET NO. 5 (MORTISE LOCK - STOREROOM, FLOOR STOP, SMOKE SEALS)

3 HINGES A8112 114 X 101 X 26D

1 LOCK SET F07 X 26D

1 OVERHEAD STOP C02541 X 26D

1 SET SMOKE SEALS.

6 HARDWARE SET NO. 6 (MORTISE LOCK - HOTEL GUEST, CLOSER, FLOOR STOP, PA CLOSER)

3 HINGES A8112 114 X 101 X NRP X 26D

1 LOCK SET F15 X 26D

1 CLOSER C02021 (WITH COMPRESSION STOP ARM FOR DOOR 116)

1 FLOOR STOP L02141 X 26D (DOOR 106 ONLY)

1 SET SMOKE SEALS.

7 HARDWARE SET NO. 7 (MORTISE LOCK - OFFICE)

3 HINGES A8112 114 X 101 X 26D

1 LOCK SET F04 X 26D

1 FLOOR STOP L02141 X 26D.

8 HARDWARE SET NO. 8 (MORTISE LOCK - PASSAGE, CLOSER, FLOOR STOP)

3 HINGES A8112 114 X 101 X 26D

1 PASSAGE SET F01 X 26D

1 CLOSER C02011

1 FLOOR STOP L02141 X 26D.

9 HARDWARE SET NO. 9 (PUSH/PULL)

3 HINGES A8112 114 X 101 X 26D

1 PUSH PLATE J301 X 32D

1 DOOR PULL WITH PLATE - J405 X 32D

1 CLOSER C02011

1 FLOOR STOP L02141 X 26D

1 KICK PLATE J102 X 32D.

10 HARDWARE SET NO. 10 (POCKET DOORS - LOCKABLE)

2 DOOR PULLS NO PLATE - J401 X 32D

1 POCKET DOOR SYSTEM WITH PRIVACY SET X 26D

1.10 METAL STUDS, GYPSUM BOARD AND ACCESSORIES

1 STEEL STUDS:

1 STUDS: NON-LOAD BEARING CHANNEL STUD FRAMING TO ASTM C645, ROLL FORMED FROM 0.48 AND 0.80 MM BAKE THICKNESS SHEET STEEL. FOR SCREW ATTACHMENT OF GYPSUM BOARD.

2 FLOOR AND CEILING TRACKS: TO ASTM C645, 18" WIDTHS TO SUIT STUD SIZES, MINIMUM 32 MM FLANGE HEIGHT, STEEL THICKNESS NOT LESS THAN THICKNESS OF CORRESPONDING STUD.

3 FURRING CHANNEL: HAT SHAPED, 0.48 MM ELECTROZINC SHEET STEEL, KNURLED FACE, 22 MM DEEP.

2 GYPSUM BOARD: TO ASTM C1396/C1396M, 1220 MM WIDE X MAXIMUM PRACTICAL LENGTHS, TAPERED EDGES.

1 STANDARD BOARD: REGULAR, TYPE X AND TYPE C PAPER FACED.

2 MOULD-RESISTANT BOARD: REGULAR AND TYPE X; WATER AND MOULD RESISTANT CORE, GLASS-MAT OR MOULD-RESISTANT PAPER FACES, HAVING MOULD RESISTANCE SCORE OF 10.

3 ACCESSORIES

1 SCREWS: SELF-DRILLING, SELF-THREADING, CASE-HARDENED, UNLESS SPECIFIED OTHERWISE. LENGTH TO GIVE MINIMUM PENETRATION OF 16 MM INTO WOOD, 10 MM INTO STEEL.

2 CORNER AND CASING BEAD: 0.48 MM COMMERCIAL GRADE SHEET STEEL WITH 2275 ZINC FINISH, PERFORATED FLANGES, ONE-PIECE LENGTH PER LOCATION.

3 JOINTING MATERIAL: JOINT COMPOUND, PAPER REINFORCING TAPE, AND TAPPING COMPOUND; TO ASTM C475/C475M, ASBESTOS-FREE.

4 ACOUSTIC INSULATION: MINERAL FIBRE TYPE.

5 ACOUSTICAL SEALANT: TO ASTM C919.

1.11 CERAMIC TILING

1 PORCELAIN FLOOR TILE (PT-1): UNGLAZED, THRU-BODY PORCELAIN MOSAIC. WATER ABSORPTION: <0.5%.

1 SIZE: 300 MM X 300 MM SHEET CONSISTING OF INDIVIDUAL 25 MM X 25 MM X 5 MM TILES; ALIGNED IN STRAIGHT GRID.

2 COLOUR: AS SELECTED BY DEPARTMENTAL REPRESENTATIVE; ONLY ONE (1) COLOUR WILL BE USED.

2 PORCELAIN WALL TILE (PT-2): BRIGHT GLAZED; HAVING A MINIMUM OF FOUR (4) COLOURS IN THE SIZE SPECIFIED.

1 SIZE: 150 MM X 75 MM X 6 MM.

2 COLOUR: AS SELECTED BY DEPARTMENTAL REPRESENTATIVE; ONLY ONE (1) COLOUR WILL BE USED.

3 PORCELAIN FLOOR TILE (PT-3): UNGLAZED, THRU-BODY PORCELAIN. WATER ABSORPTION: <0.5%; SLIP-RESISTANT SURFACE MEETING ANSI A137-1 HAVING DCOF LESS THAN; OR EQUAL TO 0.42; SANDSTONE PATTERN, MATTE FINISH.

1 SIZE: 300 MM X 300 MM X 9.5 MM.

2 COLOUR: AS SELECTED BY DEPARTMENTAL REPRESENTATIVE; ONLY ONE (1) COLOUR WILL BE USED.

3 MORTAR (BOND COAT): POLYMER MODIFIED, TO ANSI A118.11 AND ISO 13007 SERIES, CLASSIFICATION C27E; S1 DEFORMABILITY.

4 GROUT: TO ISO 13007 SERIES, CLASSIFICATION C62 WA.

1 COLOUR: AS SELECTED BY DEPARTMENTAL REPRESENTATIVE TO A MAXIMUM OF TWO (2).

5 TRIM: EXTRUDED ALUMINUM, SATIN ANODIZED FINISH.

1 FLOOR TILE: WEDGE SHAPED, THICKNESS TO SUIT TILE AND ADJACENT FLOORING.

2 WALL TILE: ROUND EDGING.

3 COUNTER TOP / BACKSPLASH AND FLOOR / WALL TRANSITIONS: COVE SHAPE

6 WATERPROOFING: TROWEL APPLIED, TO ANSI 118.10, OR, PROPRIETARY WATERPROOFING MEMBRANE SYSTEM DESIGNED FOR WATERPROOFING BEHIND CERAMIC TILE.

7 SELF-LEVELLING COMPOUND: PORTLAND CEMENT BASE, MANUFACTURED SPECIFICALLY FOR RESURFACING AND LEVELLING CONCRETE FLOORS. PRODUCTS CONTAINING GYPSUM ARE NOT ACCEPTABLE.

1.12 RESILIENT FLOORING AND BASE

1 VINYL COMPOSITE TILE (VCT): TO ASTM F1066, NON-ASBESTOS CLASS 2 - THROUGH PATTERN, MOTTLED DESIGN, STATIC LOAD LIMIT (TO ASTM F970) OF 8.8 KG/CM².

1 SIZE: 305 MM X 305 MM X 3 MM SIZE.

2 COLOURS: AS SELECTED BY DEPARTMENTAL REPRESENTATIVE, TO A MAXIMUM OF TWO (2).

2 RESILIENT BASE (RB): TO ASTM F1861, RUBBER, MINIMUM 1200 MM LENGTH AND 100 MM HIGH, INCLUDING PREMOULDED CORNERS AND END STOPS.

1 PROFILES:

1 CARPET: WEDGE SLOPED PROFILE WITH 6 MM NOTCH TO RECEIVE CARPET.

1 ACCEPTABLE MATERIALS: TIGHTLOCK CARPET BY JOHNSONITE.

2 HARD FLOORING: STANDARD COVE PROFILE, 3 MM THICK.

3 COLOURS: AS SELECTED BY DEPARTMENTAL REPRESENTATIVE; TO A MAXIMUM OF TWO (2).

3 RUBBER FLOORING (RF):

1 CONSTRUCTION: CALENDARED AND VULCANIZED NATURAL AND SYNTHETIC RUBBER. EMBOSSED, NONPOROUS, ANTI-GLARE SURFACE LAYER VULCANIZED TO LOAD BEARING BACKING.

2 THICKNESS: 10 MM OVERALL.

3 ACCEPTABLE MATERIALS: SPORT IMPACT 10 MM BY MONDO.

4 COLOUR: AS SELECTED BY DEPARTMENTAL REPRESENTATIVE; ONLY ONE (1) COLOUR WILL BE USED.

4 PRIMERS AND ADHESIVES: UNLESS SPECIFIED OTHERWISE, USE WATERPROOF, LOW-VOC TYPE, AS RECOMMENDED BY FLOORING MANUFACTURER FOR SPECIFIC MATERIAL ON APPLICABLE SUBSTRATE, ABOVE, AT OR BELOW GRADE.

5 SUB FLOOR FILLER AND LEVELER: WHITE PREMIX LATEX REQUIRING WATER ONLY TO PRODUCE CEMENTITIOUS PASTE AS RECOMMENDED BY FLOORING MANUFACTURER FOR USE WITH THEIR PRODUCT.

1.13 TILE CARPETING

1 CARPET TILE (CPT): BASED UPON ACCENT FLANNEL BY INTERFACE FLOR.

1 PRODUCT SPECIFICATIONS:

1 CONSTRUCTION: TUFTED CUT PILE.

2 TUFTED YARN WEIGHT: 814 G/M².

3 MACHINE GAUGE: 39.4 ENDS/10 CM.

4 PILE HEIGHT: 4.7 MM.

5 PILE THICKNESS: 3.9 MM.

6 STITCHES: 40.7 ENDS/10CM.

7 PILE DENSITY: 208.7 G/M³.

8 DIMENSIONS: 500 MM X 500 MM.

9 COLOUR: AS SELECTED BY DEPARTMENTAL REPRESENTATIVE; ONLY ONE (1) COLOUR WILL BE USED.

2 ADHESIVE: PRESSURE SENSITIVE TYPE RECOMMENDED BY CARPET TILE MANUFACTURER FOR DIRECT GLUE DOWN INSTALLATION OF CARPET.

3 CARPET TRANSITIONS: VINYL, WEDGE SHAPED, DESIGNED FOR OVERLAP ONTO CARPET.

1.14 PAINTING

1 MATERIALS (PRIMERS, PAINTS, COATINGS, VARNISHES, STAINS, LACQUERS) SHALL BE LISTED IN THE MPI APPROVED PRODUCTS LIST (APL). ONLY QUALIFIED PRODUCTS WITH E2 OR E3 "ENVIRONMENTALLY FRIENDLY" RATING ARE ACCEPTABLE FOR USE ON THIS PROJECT.

2 PAINT SYSTEMS:

1 GALVANIZED STEEL:

1 INT 5.3J LATEX (OVER W.B. GALVANIZED PRIMER) - G5 - SEMI-GLOSS FINISH. USE 100% ACRYLIC PAINT.

1 LOCATION/ITEMS: INTERIOR STEEL DOOR AND FRAMES (PRIMER AND TOP COATS); HEATERS (TOP COATS ONLY).

2 EXT 5.3H - LATEX (OVER W.B. GALVANIZED PRIMER) - G5 - SEMI-GLOSS FINISH.

1 LOCATION/ITEMS: EXTERIOR STEEL DOOR AND FRAMES.

2 DRESSED LUMBER:

1 INT 6.3A - HIGH PERFORMANCE ARCHITECTURAL LATEX (OVER LATEX PRIMER) - G5 SEMI-GLOSS FINISH

1 LOCATION/ITEMS: WOOD SHELVES, CASINGS AND MOULDINGS.

3 GYPSUM BOARD:

1 INT 9.2A LATEX G1 - FLAT FINISH (OVER LATEX SEALER) - ZERO VOC

1 ONLY ZERO VOC PRODUCTS ARE ACCEPTABLE.

2 LOCATION/ITEMS: CEILINGS.

2 INT 9.2A LATEX G3 - EGGSHELL-LIKE FINISH (OVER LATEX SEALER) - ZERO VOC.

1 ONLY ZERO VOC PRODUCTS ARE ACCEPTABLE.

2 WALLS AND BULKHEADS.

3 STANDARD OF ACCEPTANCE:

1 WALLS: NO DEFECTS VISIBLE FROM A DISTANCE OF NOT LESS THAN 1000 MM AT NORMAL VIEWING ANGLES.

2 CEILINGS: NO DEFECTS VISIBLE FROM FLOOR AT NORMAL VIEWING ANGLES USING FINAL LIGHTING SOURCE.

3 FINAL COAT TO EXHIBIT UNIFORMITY OF COLOUR AND SHEEN ACROSS FULL SURFACE AREA, AND BE FREE FROM BRUSH / ROLLER MARKS, STREAKS, LAPS, RUNS, SAGS, DRIPS, HEAVY STIPPLING, HIDING OR SHADOWING BY INEFFICIENT APPLICATION METHODS, SKIPPED OR MISSED AREAS, AND FOREIGN MATERIALS IN PAINT COATINGS

4 SUBMITTALS:

1 PRODUCT DATA: SUBMIT PRODUCT DATA FOR EACH PAINT AND COATING PRODUCT TO BE USED.

1 MARK EACH PRODUCT DATA SHEET WITH THE FOLLOWING:

2 MPI SYSTEM NUMBER

3 INDICATE WHETHER PRODUCT IS PRIMER OR TOP COAT.

1.15 TOILET COMPARTMENTS

1 TYPE: SOLID PHENOLIC CORE PANEL, CLASS 'A' FIRE RATING, FLOOR SUPPORTED, OVERHEAD BRACED.

1 ACCEPTABLE MATERIALS: DURALINE 1180 SERIES BY BOBRICK, PHENOLIC - BLACK CORE CLASS 'A' BY GLOBAL PARTITIONS.

2 MATERIALS AND HARDWARE

1 SOLID CORE LAMINATE FOR COMPARTMENTS: RIGID SELF-SUPPORTING MOISTURE RESISTANT PHENOLIC CORE, CONSISTING OF A MULTILAYER RESIN IMPREGNATED CORE BUILT UP TO REQUIRED THICKNESS UNDER INTENSE HEAT AND PRESSURE TO FUSE LAYERS INTO A SOLID PANEL.

1.16 WASHROOM ACCESSORIES

1 MODEL NUMBERS LISTED HEREIN MAY NOT CONTAIN ALL PREFIX, SUFFIX OR OTHER VARIATIONS/DESIGNATIONS THAT MAY BE REQUIRED TO CONFORM TO PRODUCT DESCRIPTION. INDICATE FULL MODEL NUMBER ON SHOP DRAWINGS INCLUDING REQUIRED PREFIXES, SUFFIXES AND MODEL NUMBER VARIATIONS/DESIGNATIONS TO ACCOMMODATE DESCRIPTION OF PRODUCT.

2 GRAB BAR (GB1, GB2):

1 WALL MOUNTED: 40 MM O.D. X 1.2 MM WALL THICKNESS OF STAINLESS STEEL. LENGTH INDICATED, 75 MM DIAMETER WALL FLANGES WELDED TO TUBULAR BAR; CONCEALED SCREW ATTACHMENT USING SNAP FLANGE COVER, PROVIDED WITH STEEL BACK PLATES AND ALL ACCESSORIES. PEENED FINISH. GRAB BAR AND ANCHORAGE TO WITHSTAND A FORCE OF 1.3 KN APPLIED IN ANY DIRECTION.

1 ACCEPTABLE MATERIALS: B-6806.99 BY BOBRICK, 812 BY BRADLEY, 3800-P BY ASI/WATROUS.

2 GRAB BAR ANCHORING DEVICES:

1 USE STAINLESS STEEL FASTENERS FOR FASTENING GRAB BARS.

2 NON EXPOSED ANCHORING DEVICES TO SUIT.

3 FINAL GRAB BAR ANCHORING AS DETERMINED BY GRAB BAR ANCHORING SYSTEM ENGINEER AND CONTRACTOR, AND ACCEPTABLE TO DEPARTMENTAL REPRESENTATIVE.

3 HAND DRYER (HD): SHEAR AIR CURTAIN TYPE, CSA APPROVED, CUL LISTED.

1 APPLICATION: SQUARE MOUNTED, 234 MM W X 394 MM H X 100 MM D.

2 OPERATION: TOUCHLESS, PROXIMITY SENSOR; OPERATES WHILE HANDS ARE UNDER AIR OUTLET, WITH TIME DELAYED AUTOMATIC SHUT-OFF.

3 DRYING TIME: LESS THAN 15 SECONDS

4 COVER: POLYCARBONATE, WITH ANTI-BACTERIAL FINISH COAT OF COLOUR SELECTED BY DEPARTMENTAL REPRESENTATIVE.

5 AIR FLOW: 28 L/S AT 675 KPH AIRSPEED, DISTRIBUTED IN A LINEAR SHEET.

6 HEATING ELEMENT: NONE.

7 FILTER: HEPA.

8 EXPOSED SCREWS: PIN-TYPE SECURITY SCREWS.

9 ELECTRICAL REQUIREMENTS: 120V, 15A, 60HZ.

10 ACCEPTABLE MATERIALS: AIRBLADE V BY DYSON.

4 FRAMED MIRRORS (MR): FIXED CHANNEL FRAME.

1 FRAME: STAINLESS STEEL CHANNEL FRAME, 13 MM X 13 MM X 9.5 MM, BRIGHT POLISHED FINISH. ONE-PIECE FRAME WITH 90° DEGREE MITRED CORNERS.

2 MIRROR:

1 NO. 1 QUALITY, 6 MM THICK, GUARANTEED FOR 10 YEARS AGAINST SILVER SPOILAGE. PROVIDE SHOCK ABSORBING MATERIAL.

2 GALVANIZED STEEL BACK WITH INTEGRAL HANGING BRACKETS.

3 HANGING: CONCEALED WALL HANGER AND BRACKET ASSEMBLY OF EITHER:

1 SNAP LOCK DESIGN: DESIGNED TO AUTOMATICALLY LOCK MIRROR INTO HANGER WITHOUT USE OF SET SCREWS OR WRENCH.

2 TAMPER-RESISTANT SET SCREWS.

3 ACCESSORIES:

1 MIRROR REMOVAL TOOL: WHERE REQUIRED, MANUFACTURER'S SPECIAL TOOL FOR REMOVAL OF MIRRORS

4 ACCEPTABLE MATERIALS: B_165-SERIES BY BOBRICK, 781-SERIES BY BRADLEY, 0620 BY ASI/WATROUS.

5 PAPER TOWEL DISPENSER (PTD): SUPPLIED BY OWNER, INSTALLED BY CONTRACTOR.

6 ROBE HOOK (RB): SINGLE HOOK, MAXIMUM 40 MM PROJECTION, FABRICATED FROM 2.8 MM THICK STAINLESS STEEL.

1 ACCEPTABLE MATERIALS: B-233 BY BOBRICK, 917 BY BRADLEY, 8425 BY ASI/WATROUS.

7 RECESSED SOAP DISH (RSD): RECESSED MOUNTED, ONE-PIECE CONSTRUCTION, FABRICATED FROM 1.0 MM THICK STAINLESS STEEL, SATIN FINISH, 140 MM W X 90 MM D INSIDE OPENING.

1 ACCEPTABLE MATERIALS: B-438 BY BOBRICK.

8 SHOWER CURTAIN AND ROD (SC & SR):

1 CURTAIN: 0.2 MM THICK OPAQUE VINYL SHOWER CURTAIN, HEMMED EDGES, PLATED BRASS GROMMETS, COMPLETE WITH STAINLESS STEEL HOOKS.

1 ACCEPTABLE MATERIALS: 204-SERIES BY BOBRICK, 9537 BY BRADLEY, 1200-V BY ASI/WATROUS.

2 SHOWER RODS: 32 MM DIAMETER X 0.91 MM WALL THICKNESS SATIN STAINLESS STEEL TUBING OF REQUIRED LENGTH WITH SATIN STAINLESS STEEL FLANGES, EXPOSED FASTENERS. SHOWER ROD MATERIAL AND ANCHORAGE TO WITHSTAND DOWNWARD PULL OF 0.9 KN.

1 ACCEPTABLE MATERIALS: B-8107 BY BOBRICK, 9531 BY BRADLEY, 1214 BY ASI/WATROUS.

9 SOAP DISPENSER (SD): SUPPLIED BY OWNER; INSTALLED BY CONTRACTOR.

10 SANITARY NAPKIN DISPOSAL (SND): CONTAINER AND COVER FABRICATED FROM 0.8 MM STAINLESS STEEL; ENIGUE COVER WITH FULL-LENGTH STAINLESS STEEL PIANO HINGE; CONTAINER SHALL HAVE RADIUS CORNERS.

1 ACCEPTABLE MATERIALS: B-270 BY BOBRICK, 4781-15 BY BRADLEY, 0852 BY ASI/WATROUS.

11 SEMI-RECESSED GARBAGE DISPOSAL (SRG):

1 CABINET: 0.8 MM STAINLESS STEEL CONSTRUCTION; 25 MM WIDE, ONE-PIECE SEAMLESS FLANGES.

2 WASTE RECEPTACLE: OPEN TOP, EXPOSED EDGES HEMMED; FABRICATED FROM 0.8 MM THICK STAINLESS STEEL; 45 LITRE CAPACITY. SECURE WASTE RECEPTACLE WITH LOCK.

3 ACCEPTABLE MATERIALS: B-3644 BY BOBRICK, 346-10 BY BRADLEY, 0458-9 BY ASI/WATROUS.

12 STAINLESS STEEL SHELF (SS): FABRICATED FROM 1.2 MM STAINLESS STEEL, 125 MM DEEP X 610 MM LONG, WITH HEMMED RETURN EDGES AND WELDED CORNERS; BRACKETS FABRICATED FROM 1.6 MM STAINLESS STEEL AND WELDED TO BACK OF SHELF AND SECURED TO INSIDE OF FRONT HEM OR 1.8 MM STAINLESS STEEL WELDED TO ENDS.

1 ACCEPTABLE MATERIALS: B-295 BY BOBRICK, 755-SERIES BY BRADLEY, 692-SERIES BY ASI/WATROUS.

13 TOILET TISSUE DISPENSER (TT): SINGLE ROLL TYPE, SURFACE MOUNTED, CHROME PLATED STEEL FRAME, CAPACITY OF 600 DOUBLE ROLL ROLL, UNDER SPRING TENSION FOR CONTROLLED DELIVERY.

1 ACCEPTABLE MATERIALS: B-264 BY BOBRICK, 5054 BY BRADLEY, 0710 BY ASI/WATROUS.

1.17 ACOUSTIC WALL PANELS

1 PANELS: PREFABRICATED FABRIC COVERED PANELS; OF SIZE INDICATED X 25 MM TOTAL THICKNESS.

1 ACCEPTABLE MATERIALS: TYPE A.P. BY DECOUSTICS, TYPE TS-100 BY TECHNI-SILENCE; AVANTI ACOUSTICAL WALL PANELS BY SOUND SOLUTIONS.

2 PERFORMANCE:

1 FLAME SPREAD RATING: CLASS A (25 OR LESS).

2 SOUND ABSORPTION: NRC 0.80 MINIMUM.

3 CONSTRUCTION:

1 CORE: SINGLE PIECE RIGID FIBREGLASS, 6 LB/FT³ DENSITY.

2 EDGE FINISH: CHEMICALLY HARDENED USING RESIN.

1 EDGE DESIGN: 45° RETURN AT JAMBS AND HEAD OF DOOR FRAMES; SQUARE PROFILE ELSEWHERE.

3 FABRIC: AS SELECTED BY DEPARTMENTAL REPRESENTATIVE FROM MANUFACTURER'S STANDARD RANGE; ONLY ONE (1) COLOUR WILL BE USED.

4 PROVIDE CUTOUPS AS REQUIRED FOR MECHANICAL AND ELECTRICAL SERVICES.

4 MOUNTING SYSTEM: MANUFACTURER'S STANDARD CONCEALED RAIL OR CLIP SYSTEM FOR WALL MOUNTING.

1.18 ACCESS HATCH

1 ACCESS HATCH: SURFACE MOUNTED FRAME, FIRE-RATED, INSULATED; 0.91 MM STEEL DOOR, WITH 50 MM MINERAL FIBRE INSULATION; 1.6 MM STEEL FRAME, PRIME PAINTED FINISH; CYLINDRICAL KEY LOCK.

2 POSTS: 25 MM X 38MM TUBING; 18-8, TYPE-304, 1.6 MM STAINLESS STEEL WITH SATIN-FINISH. POST HEIGHT TO EXTEND FROM FLOOR TO UNDERSIDE STRUCTURE.

3 HARDWARE:

1 GENERAL:

1 HINGES: HEAVY DUTY STAINLESS STEEL, SATIN FINISH; ADJUSTABLE DOOR-OPEN ANGLE.

2 DOOR BUMPER: RUBBER, STAINLESS STEEL CONSTRUCTION. ALLOWS FOR EMERGENCY ACCESS BY LIFTING DOOR.

3 COAT HOOK: COMBINATION COAT HOOK/DOOR BUMPER, CAST ALUMINUM.

1 ACCEPTABLE MATERIALS: MODEL B-212 BY BOBRICK.

4 MOUNTING HARDWARE: OF TYPE 304 STAINLESS STEEL, SATIN FINISH.

1 CONTINUOUS U CHANNELS FOR PANEL-TO-PLASTER CONNECTION.

2 CONTINUOUS ANGLE BOTH SIDES FOR PANEL-TO-WALL CONNECTIONS.

2 BARRIER-FREE HARDWARE:

1 DOOR PULLS: 19 MM DIAMETER X MINIMUM 150 MM PULL CENTRES; SATIN STAINLESS STEEL.

2 DOOR BUMPER: WALL STOP; CONVEX FACE, 50 MM DIAMETER, SATIN CHROME FINISH.

1 ACCEPTABLE MATERIALS: 240 SERIES BY GALLERY, 232V BY HAGER, S124 BY STANDARD METAL.

3 COAT HOOK: SINGLE HOOK, MAXIMUM 40 MM PROJECTION, STAINLESS STEEL.

1 ACCEPTABLE MATERIALS: 5_233 BY BOBRICK.

4 HEADRAIL: ANODIZED ALUMINUM WITH SATIN FINISH, ANTI-GRIP DESIGN.

5 LEVELLING DEVICE: CORROSION-RESISTANT, CHROMATE-TREATED, DOUBLE ZINC-COATED STEEL LEVELLING BAR BOLTED TO TOP OF PILLASTER.

6 SHOE: MINIMUM 75 MM HIGH POLISHED STAINLESS STEEL, ONE-PIECE CONSTRUCTION.

4 FASTENERS: TAMPER-RESISTANT; HEX-PIN, TORX-PIN OR SIMILAR AS APPROVED BY DEPARTMENTAL REPRESENTATIVE.

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