

Part 1 General

1.1 REFERENCES

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM A167 - Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
 - .2 ASTM A 240 - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
 - .3 ASTM A 666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
 - .4 ASTM A 743/A 743M - Standard Specification for Castings, Iron-Chromium, Iron-Chromium-Nickel, Corrosion Resistant, for General Application.
 - .5 ASTM B 86 - Standard Specification for Zinc and Zinc-Aluminum (ZA) Alloy Foundry and Die Castings.
 - .6 ASTM B 221 - Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
 - .7 ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- .2 GREENGUARD Environmental Institute (GREENGUARD)
 - .1 GREENGUARD certified low emitting products.
- .3 National Fire Protection Association (NFPA)
 - .1 National Fire Protection Association 101 Life Safety Code, Latest Edition, Chapter10
- .4 Canada Green Building Council (CaGBC)
 - .1 LEED Canada Reference Guide for Green Building Design and Construction 2009

1.2 DESIGN CRITERIA

- .1 Furnish, deliver and install all solid plastic toilet partitions as indicated on the drawings and as required by actual conditions at the building. Toilet partitions shall include the furnishing of all necessary screws, special screws, bolts, special bolts, expansion shields and all other devices necessary for the proper installation and application.

1.3 SUBMITTALS

- .1 Product Data: Manufacturer's data sheets for each type of product indicated. Include fabrication details, description of materials and finishes.
 - .1 Product Test Reports: When requested by Contract Administrator, submit documentation by qualified independent testing agency indicating compliance of products with requirements.
- .2 Shop Drawings:
 - .1 Include overall product dimensions, floor plan, elevations, sections, details, and attachments to other work.
 - .2 Include choice of options with details.

- .3 Show fabrication and erection of compartment assemblies, to extent not fully described by manufacturer's data sheets.
- .4 Show anchorage, accessory items and finishes.
- .5 Provide location drawings for bolt-hole locations in supporting members for attachment of compartments.
- .3 Samples for Selection:
 - .1 Furnish samples of manufacturer's full range of colors for initial selection.
 - .2 Furnish scale model of compartments, including stile, shoe, door, door hardware, divider panel, and mounting brackets.
 - .3 Furnish sections showing stile anchoring and leveling devices, concealed threaded inserts, panel and stile construction and edge construction.
- 1.4 CLOSEOUT SUBMITTALS**
 - .1 Maintenance and cleaning instructions.
- 1.5 QUALITY ASSURANCE**
 - .1 Manufacturer Qualifications: Approved manufacturer listed in this section, with minimum five [5] years' experience in the manufacture of toilet compartments.
 - .2 Installers Qualifications: Experienced Installer regularly engaged in installation of toilet compartments for minimum 3 years.
 - .3 Source Limitations: Obtain toilet compartment components and accessories from single manufacturer.
 - .4 Accessibility Requirements: Comply with requirements of ICC/ANSI 117.1, and with requirements of authorities having jurisdiction.
 - .5 Surface-Burning Characteristics: As determined by testing identical products according to ASTM E 84 by qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - .1 Flame-Spread Index: 30.
 - .2 Smoke-Developed Index: 110.
 - .6 Indoor Environmental Quality Certification: Provide certificate indicated that products have been certified under the following programs, or a comparable certification acceptable to The City:
 - .1 GREENGUARD Indoor Air Quality Certified.
 - .2 GREENGUARD Certified for Children and Schools.
- 1.6 DELIVERY, STORAGE, AND HANDLING**
 - .1 Do not deliver toilet compartments to site until building is enclosed and HVAC systems are in operation.
 - .1 Deliver toilet compartments in manufacturer's original packaging.
 - .2 Store in an upright condition.

1.7 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 19 – Waste Management and Disposal.
- .2 Place materials defined as hazardous or toxic waste in designated containers.
- .3 Ensure emptied containers are sealed and stored safely for disposal away for public.
- .4 Use chemical hardeners that are non-toxic, biodegradable and have zero or low VOC's.
- .5 Dispose of surplus chemical and finishing materials in accordance with Federal, Provincial and Municipal regulations.

1.8 WARRANTY

- .1 Manufacturer's Warranty: Provide manufacturer's standard form in which manufacturer agrees to repair or replace products that fail in materials or workmanship during the following periods:
 - .1 All hardware and mounting brackets are guaranteed to be free from defects in material and workmanship for a period of one year from date of purchase.
- .2 Provide manufacturer's 25 year warranty against breakage, corrosion, and delamination under normal conditions.

Part 2 Products

2.1 COMPONENTS/MATERIALS

- .1 Basis of design:
 - .1 Scranton Products HINY HIDERS toilet compartments
 - .1 1" solid plastic
 - .2 Floor mounted – overhead braced
 - .2 Toilet Compartments shall be floor-anchored
 - .3 National Fire Protection Association Interior Wall and Ceiling Finish Class B
- .2 Doors, Panels and Pilasters:
 - .1 High density polyethylene (HDPE), fabricated from polymer resins compounded under high pressure, forming single thickness panel.
 - .2 Waterproof and nonabsorbent, with self-lubricating surface, resistant to marks by pens, pencils, markers, and other writing instruments.
 - .3 1 inch thick with edges rounded to 1/4 inch radius.
 - .4 Recycled content: Minimum 25 percent.
 - .5 Color: To be selected from manufacturer's full color range.
- .3 Aluminum Extrusions: ASTM B221, 6463-T5 alloy and temper.
- .4 Stainless Steel: ASTM A167, Type 304.

2.2 **HARDWARE**

- .1 Hinges:
 - .1 8 inches long, fabricated from heavy-duty extruded aluminum with bright dip anodized finish, wrap-around flanges, adjustable on 30-degree increments, through bolted to doors and pilasters with stainless steel, Torx head sex bolts.
 - .2 Hinges operate on field-adjustable nylon cams, field adjustable in 30 degree increments.
- .2 Door Strike and Keeper:
 - .1 6 inches long, fabricate from heavy-duty extruded aluminum with bright dip anodized finish, with wrap-around flanges secured to pilasters with stainless steel tamper resistant Torx head sex bolts.
 - .2 Bumper: Extruded black vinyl.
- .3 Latch and Housing:
 - .1 Heavy-duty extruded aluminum.
 - .2 Latch housing: Bright dip anodized finish.
 - .3 Slide bolt and button: Black anodized finish.
- .4 Coat Hook/Bumper:
 - .1 Combination type, chrome plated Zamak.
 - .2 Equip outswing handicapped doors with second door pull and door stop.
- .5 Door Pulls: Chrome plated Zamak.

2.3 **COMPONENTS**

- .1 Doors and Dividing Panels: 55 inches high, mounted 14 inches above finished floor, with aluminum heat-sinc fastened to bottom edges.
- .2 Pilasters: 82 inches high, fastened to pilaster sleeves with stainless steel tamper resistant Torx head sex bolt.
- .3 Pilaster Sleeves: 3 inches high, 20 gauge stainless steel, secured to pilaster with stainless steel tamper resistant Torx head sex bolt.
- .4 Wall Brackets: 54 inches long, heavy-duty aluminum, bright dip anodized finish, fastened to pilasters and panels with stainless steel tamper resistant Torx head sex bolts.
- .5 Headrail: Heavy-duty extruded aluminum, anti-grip design, clear anodized finish, fastened to headrail bracket with stainless steel tamper resistant Torx head sex bolt and at top of pilaster with stainless steel tamper resistant Torx head screws.

Part 3 **Execution**

3.1 **MANUFACTURER'S INSTRUCTIONS**

- .1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

3.2 SITE PREPARATION

- .1 Ensure supplementary anchorage, if required, is in place.
- .2 Install necessary blocking as indicated on the manufacturers approved shop drawings.

3.3 FIELD MEASUREMENTS

- .1 Examine all site conditions for correct height and spacing of blocking, plumbing fixtures and cabinet work that may affect installation of the partitions or screens.
- .2 Take complete and accurate field dimensions of toilet partition locations.
- .3 Site Preparation: The Contractor must examine all site conditions that would prevent the proper application and installation of Toilet Partitions. Any deviation from the approved shop drawings must be immediately identified and corrected by the Contractor, prior to the installation of the Toilet Partitions.

3.4 INSTALLATION

- .1 Install compartments rigidly, straight, plumb, and level and in accordance with manufacturer's installation instructions.
- .2 Installation methods shall conform to manufacturer's recommendations for backing and proper support.
- .3 Conceal evidence of drilling, cutting, and fitting to room finish.
- .4 Maintain uniform clearance at vertical edge of doors.
- .5 Locate bottom edge of doors and panels 14 inches above finished floor.
- .6 Provide uniform, maximum 3/8 inch vertical clearance at doors.
- .7 Not Acceptable: Evidence of cutting, drilling, or patching.

3.5 ADJUSTING

- .1 Adjust hardware for proper operation after installation.
- .2 Set hinge cam on in-swinging doors to hold doors open when unlatched.
- .3 Set hinge cam on out-swinging doors to hold unlatched doors in closed position.
- .4 Clean exposed surfaces of compartments, hardware, and fittings.
- .5 Lubricate hardware and other moving parts.

3.6 CLEANING

- .1 Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .2 Clean surfaces after installation using manufacturer's recommended cleaning procedures.
- .3 Clean aluminum with damp rag and approved non-abrasive cleaner.

- .4 Clean and polish hardware and stainless components.
- .5 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

END OF SECTION