

1. Submittals and Shop Drawings Required:
  - 1.1. Product Technical Data Sheets for all materials, components and accessories.
  - 1.2. Clearly identify option(s) including sizes and colours.
  - 1.3. Plans, elevations, hardware and accessories.
  - 1.4. Installation and fastening detail drawings.
  - 1.5. Indicate fabrication details, plans, elevations, hardware, and installation details.
  - 1.6. Sample minimum 150 x150mm.
  - 1.7. Sample or cut sheet of each hardware item, including brackets, fastenings and trim.
  
2. Testing and Standards:
  - 2.1. Use product appropriate to application.
  - 2.2. Heavy commercial use.
  - 2.3. Fire Resistance: ASTM E84: Class A FR
  - 2.4. Indoor Air Quality, Low emitting materials.:
    - 2.4.1. GREENGUARD certified
  - 2.5. Minimum 15-year commercial warranty
  
3. Compartments and screens:
  - 3.1. Toilet compartments:
    - 2.5.1. Floor to Ceiling or overhead rail to floor supported system.
    - 2.5.2. Gap-free design.
    - 2.5.3. Door In-swing must clear standing forward of plumbing fixture.
    - 2.5.4. Width of compartments must allow accessories to clear plumbing fixture.
    - 2.5.5. Barrier free compartments must comply with current OBC, AODA and QFADS.
  - 3.2. Privacy screens (Urinal and shower):
    - 2.5.6. Post floor to ceiling supported system.
    - 2.5.7. Stainless Steel post and fasteners.
    - 2.5.8. Gap-free design where enclosed.
    - 2.5.9. Barrier free compartments must comply with current OBC, AODA and QFADS.
  
4. Materials and components, select powder coated or stainless steel option:
  - 4.1. Powder coated steel option: Doors, Panels and Stiles shall be constructed of two sheets of Galvaneal ASTM A653 GR33, laminated under pressure to a moisture resistant honeycomb core for sound deadening and rigidity. Formed edges to be welded together and inter-locked under tension with a roll-formed oval crown locking bar, mitred, welded and ground smooth at the corners. Colour as selected by Consultant from manufacturer's full colour range including anti-graffiti finishes.

- 4.2. Stainless Steel option: Doors, Panels and Stiles shall be constructed of shall be constructed of two sheets of Stainless Steel ASTM A240 or A666 300 series, laminated under pressure to a moisture resistant honeycomb core for sound deadening and rigidity. Formed edges to be welded together and inter-locked under tension with a roll-formed oval crown locking bar, mitred, welded and ground smooth at the corners. Colour as selected by Consultant from manufacturer's full colour and texture range.
  - 4.3. Door and Panel Construction: 25 mm thick. Provide each door with internal welded reinforcements at top and bottom hinge locations, with factory installed concealed cam hinges.
  - 4.4. Panel Construction: 25 mm thick. Grab-Bar /Accessories Reinforcement: Provide concealed internal reinforcement for grab bars mounted on units.
  - 4.5. Stile Construction: 32 mm thick. Provide Stile with internally welded bracket suitable to accept minimum stainless steel hex bolt for leveling.
  - 4.6. Headrail: Extruded anodized aluminum headrail with anti-grip profile. Provide fasteners for attachment to Stile and stainless steel brackets to secure to wall.
  - 4.7. Urinal-Screen Construction: Matching toilet compartment panel construction
  - 4.8. Urinal-Screen Post: Manufacturer's standard post design of material matching the thickness and construction of Stiles with shoe matching that on the Stile.
  - 4.9. Stile Shoes: One-piece, Type 304 stainless steel, 102 mm height; tops with 90 degree return to stile.
5. Fastener / Accessories / Associated Components:
    - 5.1. Emergency Access.
    - 5.2. Metals: Type 304, 16-22 gauge stainless steel with satin finish.
    - 5.3. Anchors: Expansion shields and threaded rods at floor connections as applicable. Threaded rods secured to supports above ceiling as applicable.
    - 5.4. Wall Posts: Pre-drilled for door hardware Type 304 stainless steel with satin finish.
    - 5.5. Leveling Devices: 5 mm thick, corrosion-resistant, chromate-treated, double zinc-plated steel angle leveling bar bolted to stile; furnished with 10 mm diameter threaded rods, hex nuts, lock washers, flat washers, spacer sleeves, expansion anchors, and shoe retainers.
    - 5.6. Doorstops: Prevents in-swinging doors from swinging out beyond stile; on out-swing doors, doorstop prevents door from swinging in beyond stile.
    - 5.7. Fastening: Hardware secured to door and stile by through-bolted, theft-resistant, pin-in-head Torx stainless steel machine screws into factory-installed, threaded brass inserts. Fasteners secured directly into core not acceptable.
    - 5.8. Threaded Brass Inserts: Factory-installed; withstand direct pull force exceeding 1500 lb (680 kg) per insert.

- 5.9. Must include Clothes Hooks: Projecting no more than 29 mm from face of door. Clothes hooks are to be installed beside door in barrier-free compartments, on door in standard compartments. 1500mm AFF.
  - 5.10. Latching: Track of door latch prevents in-swing doors from swinging out beyond stile; on out-swing doors, door keeper prevents door from swinging in beyond stile; Rubber bumper on latch serves as door bumper for in-swing door.
  - 5.11. Hinges: 1.6 mm stainless steel with satin finish, self-closing, 3 section hinges or continuous, balanced, with field adjustable cam to permit door to be fully closed or partially open when compartment is unoccupied.
  - 5.12. Locking. Must meet AODA and QFADS requirements. Closed fist operable.
  - 5.13. U-Channels: Secure panels to stiles.
  - 5.14. Angle Brackets: Secure stiles-to-walls and panels-to-walls.
  - 5.15. Door pulls:
    - 5.15.1. Barrier Free Compartment: Latch side, 150 mm long mounted vertically below the door latch. One located on the interior side of the compartment and one located on the exterior of the compartment.
    - 5.15.2. Interior compartment hinge side, 150 mm long mounted vertically in standard compartment and horizontally in barrier free compartment, with the center line of the pull located 200 to 300 mm from the hinge side edge of the door and 900 mm above the finished floor.
  - 5.16. All hardware is to be vandal-resistant.
6. Fabrication:
- 6.1. Fabricate washroom compartments and privacy screens to configurations shown. Site verify all dimensions prior to fabrication.
  - 6.2. Become familiar with the building and any special or unusual conditions.
  - 6.3. Identify demolition materials, substrate type and any designated substances within; Prepare and dispose of any designated substances with licensed environmental contractor prior to commencing work.
  - 6.4. Work to be performed to manufacturers written instructions.
  - 6.5. Use manufacturers recommended fasteners, accessories and associated components
  - 6.6. Adhere to manufacturers product limitations.
  - 6.7. Proceeding with work over unsatisfactory substrate indicates acceptance by trade and will be considered when remediation or warranty work arises.

END OF SECTION.