
York University Building Standards

Note to the Designer/Architect/Engineer: These standards are basic minimum criteria to be met in preparing the final project specifications for this section, which is the responsibility of the Designer

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1.0 GENERAL

1.1 Conditions

- .1 This section defines relevant York University standards related to washroom partitions including: toilet enclosures, entrance screens, and urinal screens

1.2 Sustainable Design Requirements

- .1 In the selection of washroom compartments or partitions consideration should be given to full life cycle analysis for materials selection

1.3 Scope of Work

- .1 Toilet enclosures, urinal screens and entrance screens for single and gang style washrooms (Men and Women). Depending on specific circumstances, this standard may also apply to Universal Washrooms, Gender Neutral Washrooms and Accessible Washrooms

1.4 Guideline Principles

- .1 Product Life cycle analysis in the selection of partition materials shall be a consideration i.e. Phenolic core partitions are more expensive initially but last longer and are easier and cost less to maintain than wood particle board or even metal. So the full lifetime cost of the product is significantly lower
- .2 Defining minimum dimensions for gang style washroom stalls is dependent on whether the project is dealing with construction of a new building or the renovation of existing space. Ideally, minimum cubicle width shall be 840mm with a minimum door width of 720mm. This is assuming that there is a minimum of 1100mm clearance outside from the door to the opposite wall, particularly if there is to be access to a barrier-free cubicle. In all cases, dimensions must comply with OBC. Also these dimension refer to gang style washrooms that are not designated as barrier-free accessible stalls. The latter 's dimensions must conform to

latest iteration of the AODA and OBC. However, when dealing with renovations these minimum dimensions are dependent on the constraints of the space to be renovated. The “Comfortable” size for a cubicle would be 900mm wide by 1500mm deep.

1.5 Related York University Standards

- .1 Interior Signage Standard Manual, York University, Construction and Renovation Standards
- .2 Washroom Accessories Section 10 80 00, York University, Construction and Renovation Standards
- .4 Plumbing Fixtures Section 15 44 00 York University Construction and Renovation Standards
- .5 Accessible Washrooms Section 10 81 00 York University Construction and Renovation Standards
- .6 Metal Supports for Gypsum and Cement Board Section 09 21 00

1.6 Performance Standards References

- .1 Comply with all applicable municipal, provincial, federal and trade standards in this specification, unless more stringent requirements are given herein.
- .2 Ontario Building Code, most recent iteration and any related amendments
- .3 Draft Initial Proposed Accessible Built Environment Standard (January 2009) AODA
- .4 CSA and ULC
- .5 CAN/CSA-B651-04 (R2010) - Accessible Design for the Built Environment

1.7 Submittals

- .1 Technical data (T.D.) sheets:
- .2 Submit to the York University project representative complete technical data sheet for each type of hardware, with installation Instructions.
- .3 Submit the Hardware Schedule to the York University project representative at the earliest possible time, where acceptance of the hardware schedule must precede fabrication of other work which is critical in the project’s schedule.
- .4 Include with the hardware schedule the project data, samples, shop drawings of other work affected by finish hardware and other information essential to the coordinated review of hardware schedule. Submit initial draft of schedule after samples, product data, coordination with shop drawings of other work, delivery, schedules, and similar information has been completed and accepted.
- .5 Product samples (P.S.):

- .1 Include samples of products, hardware and accessories including material and colour selections

1.8 Standard Warranties and Extended Warranties

- .1 Provide a ten-year warranty on product, and a one-year warranty on installation from the date of system acceptance in writing from York University.

2.0 Materials

2.1 Toilet enclosures – hollow metal construction

- .1 Enclosures shall be anchored at the floor with overhead bracing
- .2 Where door, panel and pilaster material use is metal, then door, panel and pilaster construction shall be seamless, metal facing sheets pressure laminated to core material, having a continuous, interlocking molding strip or lapped and formed edge.
- .3 Closures shall be secured by welding or clips and exposed welds shall be ground smooth.
- .4 Exposed surfaces shall be free of pitting, seam marks, stains, and discolorations, telegraphing of core material or other imperfections.
- .5 Panel core construction: Manufacturer's standard sound-deadening honeycomb of resin-impregnated kraft paper in thickness required to provide finished thickness of 25 mm for doors and 32 mm for pilasters.
- .6 Grab bar reinforcement: provide concealed reinforcement for grab bars mounted units.
- .7 tapping reinforcement: provide concealed reinforcement for tapping (threading) at locations where machine screws are used for attaching items to units (i.e., coat hooks, latches or shelving)
- .8 Metal-panel finish shall be one colour and pattern in each washroom
- .9 Pilaster finish shall be galvanized and bonded onto steel to provide protection and enhance adhesion. The paint finish shall be powder coated applied electrostatically, baked until fully cured.
- .10 Doors and panels shall be a minimum of 1400 mm high, and shall be mounted at a minimum of 355 mm above the finished floor
- .11 Pilaster edges shall be beveled and or rounded smooth

2.2 Toilet enclosures – Phenolic-core construction

- .1 Enclosures shall be anchored at the floor with overhead bracing
- .2 Door, panel and pilaster construction: shall be solid phenolic-core panel material with melamine facing on both sides fused to substrate during panel manufacture (shall not be separately laminated), and with eased and polished edges.
- .3 Panel thickness shall be a minimum of 19 mm thick for doors and pilasters and a minimum of 13 mm thick for panels
- .4 Phenolic-panel finish shall be one colour and pattern in each washroom
- .5 Doors and pilasters shall be a minimum of 1400 mm high and shall be mounted at a minimum of 355 mm above the finished floor
- .6 Phenolic- pilasters shall meet the maximum flame spread rating (wall and ceiling surfaces) in the washroom or similar shower room in the non-residential buildings are as below:
 - .1 Washrooms that are equipped with sprinkler system: 150
 - .2 Washrooms that are not equipped with sprinkler system enclosure: 75
 - .3 The maximum smoke developed classifications (wall and ceiling surfaces) are as below:
 - .1 Washrooms that are equipped with sprinkler system: 300
 - .2 Washrooms that are not equipped with a sprinkler system: 100
- .2 Urinal screens – metal construction
 - .1 Screens shall be anchored at the floor with overhead bracing
- .3 Urinal screens – phenolic construction
 - .1 Screens shall be anchored at the floor with overhead bracing
 - .2 Panels shall have a minimum of 25 mm thickness with uniformly machines edges
 - .3 Panels shall have extruded aluminium heat sink strip attached to the lower edge

2.3 Hinges

- .1 Hinges shall be self-closing
- .2 shall be adjustable to hold door open up to 90 degrees, set to hold the door open up to 15 degrees when the door is not closed
- .3 hinges shall be spring-loaded or gravity type pivots
- .4 hinges for phenolic pilaster shall be full height spring loaded piano hinges

2.4 Coat Hooks

- .1 shall be rubber tipped so that they can double as doorstops
- .2 shall be mounted at a maximum height of 1200 mm from the floor
- .3 shall project a maximum of 50 mm

2.5 Latches

- .1 Latches and keeper shall be surface mounted and shall not be
- .2 recessed or surface mounted on gang washrooms, and recessed with occupant indicator on individual accessible stalls that are part of a gang washroom and for all universal and accessible
- .3 Shall be operable with one hand
- .4 Shall be slide type

2.6 Shelves (for Women's washrooms only)

- .1 Shelves shall not be installed for women's gang washrooms
- .2 Shelves shall be installed only for individual, universal accessible washrooms

2.7 Pilaster shoes

- .1 Shall be fabricated from stainless steel sheet, not less than 0.79 mm thickness and 76 mm height
- .2 Shall be finished to match the finish of the pilaster
- .3 Shall be used for ceiling to floor support

2.8 Urinal-Screen post

- .1 Shall be manufactured of material matching the thickness and construction of the pilasters
- .2 Shoe shall match that on the pilaster
- .3 Urinal Screens shall offer knee to chest height privacy

2.9 Brackets (Fittings)

- .1 Shall be full-height continuous type
- .2 Shall be manufactured from stainless steel
- 2.10 Door bumper
 - .1 Shall be rubber tipped
 - .2 Can be incorporated within coat hook and affixed to door
- 2.11 Door pull
 - .1 Shall be installed on the outside of door near latch side
 - .2 Shall be installed only on the barrier free stall within a gang washroom, otherwise partition door shall swing open on its own
- 2.12 Hardware items (anchorage and fasteners)
 - .1 Use fasteners recommended by manufacturer
 - .2 Exposed fasteners to match colour of accessory.
 - .3 Fasteners shall be manufactured from stainless steel
 - .4 Fasteners shall be vandal (tamper) proof
- 2.13 Anchoring
 - .1 Provide all required steel anchor plates and, bolts, plugs and other fasteners for proper installation of accessories on the substrates.
- 2.14 Fabrication
 - .1 Overhead-braced units
 - .1 Provide manufacturer's standard corrosion-resistant supports
 - .2 overhead-braces shall include a leveling mechanism
 - .3 anchors at pilasters shall suit floor conditions
 - .4 Shoes to be provided at pilasters to conceal supports and leveling mechanism
 - .2 Urinal-screen posts
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 - .3 anchors at posts shall suit floor conditions
 - .4 Shoes to be provided at posts to conceal supports and leveling mechanism
 - .3 Partition door size and swings
 - .1 For accessible stalls that are part of a gang style washroom for both man's and women's washroom partition door size shall meet the requirements of AODA

and OBC

3.0 EXECUTION

3.1 Installation

- .1 Obtain University project representative's approval for the typical positioning of all accessory types before making the cutouts in the walls or attaching accessories
- .2 Install rigid, plumb and level, at standard heights, or as shown on drawings, according to the manufacturer's written instructions and best practice of the industry
- .3 Comply with OBC and CAN/CSA-B651 requirements for barrier-free access
- .4 Comply with manufacturer's documented installation instructions.
- .5 There shall be no evidence of cutting, drilling and/or patching on the finished work
- .6 Finished surfaces shall be cleaned after installation and be left free of all imperfections
- .7 Overhead braced pilasters shall be secure to the floor, level, plumb, and tight
- .8 Pilasters shall be anchored penetrating not less than 44 mm into structural floor unless otherwise indicated in the manufacturer's documented instructions.
- .9 Secure the continuous head rail to each pilaster with an appropriate number of fasteners (as per manufacturer's documented instructions).
- .10 Hang doors to align tops with tops of panels, and adjust so tops of doors are parallel with overhead brace when doors are in a closed position.
- .11 For urinal screens: attach screens with anchoring devices to suit supporting structure.
- .12 Urinal screens shall be set level, plumb and rigid such that the screens can support lateral impact.
- .13 Adjust and

3.2 Coordination

- .1 Coordinate with York University project representative, Custodial Services and maintenance Department

End of Section 10 22 00

