
**Washroom Buildings Recapitalization
Buildings 32, 34 & 38
Newman Sound Campground
Terra Nova National Park, NL
Proj. No.: R.079272.001**

Issued April 4, 2016

Section 10 21 20 – Solid Plastic Toilet Partitions

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PART 1 - GENERAL

1.1 Related Sections

- .1 Section 10 28 00 Toilet and Bath Accessories.

1.2 References

- .1 ASTM A 167-99(2009) Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
- .2 ASTM D 1044-08 Standard Test Method for Resistance of Transparent Plastics to Surface Abrasion
- .3 CAN/CSA-B651-M95 Barrier-Free Design.
- .4 CSA O112 Series-M1977 CSA Standards for Wood Adhesives.
- .5 CSA O121-08) Douglas Fir Plywood.
- .6 CSA O151-04 Canadian Softwood Plywood.
- .7 CAN/CGSB-71.20-M88 Adhesive, Contact, Brushable.

1.3 Samples

- .1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit duplicate 300 x 300mm samples of panel showing finish on both sides, two finished edges and core construction.
- .3 Submit duplicate representative samples of each hardware item, including brackets, fastenings and trim.

1.4 Shop Drawings

- .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Indicate fabrication details, plans, elevations, hardware, and installation details.

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1.5 Closeout Submittals

- .1 Provide maintenance data for plastic laminate for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

1.6 Storage and Protection

- .1 Deliver, store, handle and protect materials in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Protect finished laminated plastic surfaces during shipment and installation. Do not remove until immediately prior to final inspection.

PART 2 - PRODUCTS

2.1 Materials

- .1 Stiles, Panels, Doors, and Screens:
 - .1 Solid phenolic material constructed of solidly fused plastic laminate with matte-finish melamine surfaces, colored face sheets, and black phenolic-resin core that are integrally bonded. Edges shall be black. Brown edges shall not be acceptable. Color and pattern as selected by Departmental Representative from manufactures standard colors.
 - .2 Solid phenolic material shall meet National Fire Protection Association and International Building Code Interior Wall and Ceiling Finish Class A, Uniform Building Code Class I, ASTM E-84 Fire Resistance Standards; flame spread 20, smoke density 95.
 - .3 Finish Thickness:
 - .1 Stiles and doors shall be 19mm.
 - .2 Panels shall be 13mm.
- .2 Hardware:
 - .1 All hardware to be 18-8, type-304 stainless steel with satin-finish.
 - .2 All hardware shall be concealed inside compartments with the exception of out swing doors.
 - .1 Latch
 - .1 Sliding door latch shall be 2mm and shall slide on nylon track.
 - .2 Sliding door latch shall require less than 5-lb force to operate. Twisting latch operation will not be acceptable.
 - .3 Latch track shall be attached to door by flathead machine screws into factory installed threaded brass inserts.
 - .4 Latch handle shall have rubber bumper to act as door stop.
 - .5 Latch shall allow door to be lifted over 4.4mm keeper for emergency access.

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- .6 Metal-to-metal connection shall withstand a direct pull of over 750kg per screw.
- .2 Hinges:
 - .1 Hinge shall be 1.6mm continuous piano-hinge.
 - .2 All doors shall be equipped with self-closing hinge.
 - .3 Continuous piano-hinge shall be attached to door and stile by theft-resistant , one-way, stainless steel machine screws into threaded brass inserts.
 - .4 Door shall be furnished with two 3mm vinyl-coated door stops to resist door from being kicked out of compartment.
 - .5 Door stops and keeper shall be secured with stainless steel, one-way, machine screws from inside of compartment to threaded brass inserts.
- .3 Mounting brackets shall be 1.2mm stainless steel and extend full height of panel. U-channels shall be furnished for panel to stile mounting. Angle brackets shall be furnished for stile-to-wall and stile-to-panel mounting. Angle brackets shall be furnished for panel-to-wall mounting.

PART 3 - EXECUTION

3.1 Installation

- .1 Ensure supplementary anchorage, if required, is in place.
- .2 Do work in accordance with CAN/CSA-B651.

3.2 Erection

- .1 Partition erection.
 - .1 Install partitions secure, plumb and square.
 - .2 Leave 12 mm space between wall and panel or end pilaster.
 - .3 Anchor mounting channels to masonry or concrete surfaces using screws and shields: to hollow walls using bolts and toggle type anchors, to steel supports with bolts in threaded holes.
 - .4 Attach panel and pilaster to channel with through type sleeve bolt and nut.
 - .5 Provide for adjustment of floor variations with screw jack through steel saddles made integral with pilaster. Conceal floor fixings with stainless steel shoes.
 - .6 Provide templates for locating threaded studs through finished ceilings.
 - .7 Equip each door with hinges, latch set, and each stall with coat hook mounted on door, mounting heights 1900 mm. Adjust and align hardware for proper function. Set door open position at 30° to inside and 30° to outside for Barrier Free.
 - .8 Equip outswinging Barrier Free doors with door pulls on inside of door in accordance with CAN/CSA-B651-M95.
 - .9 Install hardware.

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