

DIVISION 10 SPECIALTIES

Section 10 00 00 Specialties - General

- 1 Information relates to Department technical requirements regarding visual display boards, compartments and cubicles, louvers and vents, grilles and screens, service walls, wall and corner guards, access flooring, pest control, manufactured exterior specialties, flagpoles, identification devices, pedestrian control devices, lockers, fire protection specialties, protective covers, postal specialties, Partitions, storage shelving, exterior protection, telephone specialties, toilet/bath/and laundry accessories, scales, wardrobe and closet specialties , and the like.

Section 10 11 00 Visual Display Surfaces

- 1 Warranty
 - 1.1 Ensure that the project manual specifies requirement of a manufacturer's warranty for all white boards for a period of 24 years beyond the date of expiration of the performance assurance.
 - 1.2 Ensure that the project manual specifies requirement of a manufacturer's warranty for all cork boards for a period nine (9) years beyond the date of expiration of the performance assurance.
- 2 Materials
 - 2.1. For White boards specify facings of steel sheet with porcelain enamel finish for dry, water dampened, erasable markers and chalk.
 - 2.2. Ensure white boards are suitable for use as projection screen and are unaffected by solvents and reagents.
 - 2.3. Include with Communication boards, accessories as required. (Refer to DC350, Part 2, Section 2, Division 10).
- 3 Execution
 - 3.1. Samples of communication boards to be submitted for approval.
 - 3.2. For mounting height, extent and location in schools, refer to DC350, Part 2, Section 2, Division 10.
 - 3.3. Where design incorporates mounting boards on slope to reduce glare, refer to requirements of Electrical Lighting.

3.4. Install to manufacturer's instruction, level and in true planes.

Section 10 11 23 Tack Boards and Bulletin Boards

1 Material

- 1.1 1/8" thick natural cork, laminated to 3/8" fibreboard backing.
- 1.2 Include with boards, accessories as required. Refer to DC350, Part 2, Section 2, Division 10.

2 Execution

- 2.1 For Mounting at height, extent and location, refer to DC350, Part 2, Section 2, Division 10.
- 2.2 Install to manufacturer's instruction, level and in true planes.

Section 10 14 00 Signage

1 Exterior

- 1.1 Where Exterior Signage is incorporated into design, ensure that it is graphically designed and conforms with applicable local by-laws and regulations as well as the requirements of Emergency Measures Organization Standards.
- 1.2 Use channel letter type unless specified otherwise.
- 1.3 (Roadway Signs)
 - 1.3.1 Provide for signage to requirements of the Department of Transportation and Infrastructure Renewal and the local municipal authority. Identify and control traffic movement on site; including, but not limited to, sidewalks, bus entrances, car parking and service entrances.

2 Interior Signage

- 2.1 Include Interior Signage in design and specify, unless indicated otherwise, such that:
 - 2.1.1 Faces of colour acrylic sheet.

- 2.1.2 Surface engraved.
- 2.1.3 Contemporary letter style.
- 2.1.4 Fixed mounting, with stainless steel screws.
- 2.1.5 Number plates
 - 2.1.5.1 3" high x length permitting 3 - 2" high numbers
- 2.1.6 Name plates
 - 2.1.6.1 3"high x 20" long
- 2.1.7 Identify circulation systems such as:
 - 2.1.7.1 Vertical
 - 2.1.7.2 Horizontal
 - 2.1.7.3 Emergency
- 2.1.8 Identification Devices
 - 2.1.8.1 Provide international symbol of access to CSA B651-18 indicating barrier - free accessibility for each, such designated, washroom in project.
 - 2.1.8.2 Provide male and female pictograms for all washrooms and showers in the project.
 - 2.1.8.3 Select Size, colour and style.
- 2.2 Execution
 - 2.2.1 Name plates for each specialty room and area.
 - 2.2.2 Each room to have a number plate.
 - 2.2.3 All signage to be barrier free. Specify tactile identification is provided on all assembly, speciality rooms and support areas designated for public access. Ensure such signage is mounted at heights in accordance with barrier-free standards.
 - 2.2.4 Signage to be located beside doorway as operation will support, non-obscured by door operation.

2.2.5 Room numbering system to facilitate consecutive numbering of rooms to assist in way finding.

2.2.6 Numbering system to match the numbering system used on the Consultant's drawings.

Section 10 21 13 Plastic Laminate Toilet Compartments

1 General

1.1 Toilet partitions

1.1.1 For Student Washrooms (Building Support Services)

1.1.1.1 Floor mounted water-resistant compartments and screens - plastic laminate with solid phenolic core.

1.1.1.2 All fastenings shall have factory installed threaded inserts or through bolt connections including door hardware.

2 Material

2.1 Stiles, Doors and Wall Posts: 3/4" thick, solidly fused plastic laminate with matte finish melamine surface coloured face sheets and black phenolic resin core integrally bonded. Self closing doors for barrier-free stalls.

2.2 Panels: 1/2" thick, solidly fused plastic laminate with matte finish melamine surface coloured face sheets and black phenolic resin core integrally bonded.

2.3 Laminated Plastic Sheets. to CAN3 A172-M79 (R1996), with solid colour pattern, satin finish.

2.4 Core Material

2.4.1 Black phenolic resin core, integrally bonded.

2.5 Laminated Plastic Adhesive: adhesive to CSA O112 SERIES-M1977 (R2006) Series.

2.6 Stainless Steel Sheet Metal: to ASTM A167-99(2009), Type 304 with satin finish.

2.7 Fasteners: stainless steel tamper proof type screws and bolts.

2.8 Sealer: Water resistant sealer or glue as recommended by laminate manufacturer.

2.9 Headrails: clear anodized, extruded aluminum, sloped top, anti-grip design, satin finish.

2.10 Pilaster shoe - one piece stainless steel 4" high, satin finish.

2.11 Hardware:

2.11.1 Hinges:

2.11.1.1 Heavy duty, self-lubricating, nylon bushings.

2.11.1.2 Material/Finish: stainless steel.

2.11.1.3 Swing: inward and outward.

2.11.1.4 Return Movement: gravity.

2.11.1.5 Adjustable to hold door open at any angle up to 90 deg.

2.11.1.6 Emergency access

2.11.2 Latch Set:

2.11.2.1 Surface mounted combination latch, door-stop, chrome plated non-ferrous, stainless steel, emergency access feature.

2.11.3 Wall and Connecting Brackets: stainless steel extrusion or casting.

2.11.4 Coat Hook: combination hook and rubber door bumper, stainless steel.

2.11.5 Door Pull: Barrier-free type suited for out swinging doors, stainless steel.

3 Fabrication

3.1 Include reinforcing, anchorage and mounting devices required for the installation of each product.

3.2 Fit joints and junctions between components tightly and in true planes, conceal and weld joints where possible.

3.3 Fabricate products with materials and component sizes, metal gauges, hardware, reinforcing, anchors, and fastenings of adequate strength to ensure that Work will remain free of warping, buckling, opening of joints and seams, and distortion within limits of intended use.

4 Installation

4.1 Provide manufacturer's handling instructions, anchorage information, roughing-in dimensions, and templates for installation of Work of this Section.

- 4.2 Install Work only as specified by manufacturer.
- 4.3 Verify location and mounting heights of products with the Consultant before roughing-in or installation.
- 4.4 Install Work plumb, level, straight, tight and secure to mounting surfaces, and centered between joints on masonry and tile walls.
- 4.5 Attach accessories to walls with only:
 - 4.5.1 ½" long expansion shields in solid masonry or in concrete
 - 4.5.2 Toggle bolts in cells of hollow masonry units
 - 4.5.3 Sheet metal screws into metal framing at metal stud partitions
 - 4.5.4 Wood screws into wood framing
- 4.6 Use only fasteners that match material and finish of fastened Work where exposed to view.

Section 10 21 16 Shower and Dressing Compartments

- 1 Where Shower and Dressing Compartments are incorporated into design, specify such that they complement Plastic Laminate Toilet Compartments.

Section 10 22 26 Operable Partitions

- 1 Quality Control
 - 1.1 Ensure installation of the operable partition is by factory-trained and manufacturer approved installer.
- 2 Reference Standards:
 - 2.1 ASTM E90-09(2016), Standard Method of Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
 - 2.2 ASTM E413-16, the standard by which the Sound Transmission Class is determined.
 - 2.3 ISO 140-3/Amd1:2004 Laboratory Measurement of Airborne Sound Insulation of Building Elements.
 - 2.4 ISO 717-1:2013, Rating of Sound Insulation in Buildings and of Building Elements:

Airborne Sound Insulation in Buildings and of Interior Building Elements.

- 2.5 ULC 102.2:2018 Surface Burning Characteristics of Building Materials and Assemblies.

Section 10 28 00 Toilet, Bath and Laundry Accessories

1 Materials

- 1.1 Where Toilet and Bath Accessories are incorporated into design, specify such that material and products specified meet or exceed "Bobrick" standards. Refer to DC350, Part 2, Section 2, Division 10.
- 1.2 Wherever sinks, showers, or similar fixtures are provided in a room, at least one of each shall be barrier-free.
- 1.3 Unspecified materials which form a part of complete assemblies shall be of manufacturer's standard.
- 1.4 Paper Towel Dispenser
- 1.4.1 Product: Paper towel holder to hold 8" wide x 6" paper towel roll.
- 1.4.2 Location: one in each washroom
- 1.5 Feminine Napkin Dispenser:
- 1.5.1 Stainless steel semi-recessed unit including roughing in frame, minimum capacity 15 napkins and 20 tampons, 10 cents operation, key locked, continuous hinge front panel.
- 1.5.2 Location: one in each womens' washroom.
- 1.6 Feminine Napkin Disposal Bin
- 1.6.1 Stainless steel, semi-recessed unit including rough-in frame, continuous hinged door, self closing, embossed with "napkin disposal", removable stainless steel receptacles fitted with spring clip for deodorizer block.
- 1.6.2 1 in each female toilet compartment
- 1.7 Toilet Tissue Dispensers:
- 1.7.1 Construction: 304 Stainless Steel

- 1.7.2 Finish: Satin
- 1.7.3 Mounting: Surface
- 1.7.4 Location: one at each toilet
- 1.8 Grab Bars:
 - 1.8.1 Material: Tube, 1-1/4" dia., 304 stainless steel
 - 1.8.2 Flanges: 3" dia. concealed
 - 1.8.3 Finish: Peened grip, polished ends
 - 1.8.4 Amount: 2 at each accessible urinal, water closet and shower, mounted in locations and to heights as per the requirements of the Nova Scotia Building Code and the CSA B651-18 standard for Accessible design for the Built Environment.
- 1.9 Shower Curtain Rods:
 - 1.9.1 Rod: 1 1/4 diameter, 18 gauge, type 304 stainless steel complete with 2 1/2" square end flanges.
 - 1.9.2 Location: Two each in shower stall
- 1.10 Shower Curtains:
 - 1.10.1 Material: Opaque, matte white vinyl, 2 mm thick complete with nickel plated brass grommets along top every 6" and stainless steel curtain hooks.
 - 1.10.2 Location: two each in each shower stall.
- 1.11 Shower Seats:
 - 1.11.1 Material: 4 wood grain phenolic slats 5/16" x 3"
 - 1.11.2 Type: 304 stainless steel construction
 - 1.11.3 Mounting: Surface mounted, 18" from top of seat to floor
 - 1.11.4 Location: Two each in each barrier-free shower stall in rooms. One each in all other showers.
- 1.12 Tilt Mirrors:
 - 1.12.1 Frame: Type 304 stainless steel, satin finish.

- 1.12.2 Glass: 1/4" No. 1 Quality float/plate glass mirror.
- 1.12.3 Mounting: Surface mounted 44" from bottom of mirror to floor, concealed fasteners.
- 1.12.4 Location: One each over each barrier-free Lavatory.
- 1.13 Frame Mirrors at sinks:
 - 1.13.1 Frame: One piece roll formed, type 304 stainless steel channel with satin finish
 - 1.13.2 Glass: 1/4" No. 1 quality float/plate glass mirror
 - 1.13.3 Mounting: Surface mounted on concealed wall hanger and secured with theft-resistant locking screws. Bottom of mirror to floor - 38"
 - 1.13.4 Size: 18" x 24" security mirror.
 - 1.13.5 Location: for every sink except barrier-free sinks
- 1.14 Full Length Frame Mirror:
 - 1.14.1 Frame: One piece roll formed, type 304 stainless steel channel with satin finish
 - 1.14.2 Glass: 1/4" No. 1 Quality float/plate glass mirror.
 - 1.14.3 Mounting: Surface mounted on concealed wall hanger and secured with theft-resistant locking screws. Bottom of mirror to floor - 12"
 - 1.14.4 Size: 24" x 72", B290 2472
 - 1.14.5 Location: one in each dressing room
- 1.15 Soap Dish:
 - 1.15.1 Mounting: Recessed with anchor lugs
 - 1.15.2 Construction: Heavy duty stainless steel, satin finish
 - 1.15.3 Location: One in each shower stall
- 1.16 Towel Bars:
 - 1.16.1 Bar: 18 gauge, type 304, stainless steel satin finish, 1" diameter x 18" long
 - 1.16.2 Mounting: Concealed mounting plate
 - 1.16.3 Location: One in each dressing compartment of shower stalls. One outside each

gym instructor's shower

1.17 Robe Hooks:

1.17.1 Location: One in each dressing compartment of shower stalls. One on inside of each gym instructors washroom door

1.17.2 Construction: One piece brass casting with satin nickel plated finish

1.17.3 Mounting: Locks to wall plate for theft proof mounting

1.18 Custodial Accessories:

1.18.1 Construction: 18 ga. type 304, stainless steel, satin finish

1.18.2 Shelf with mop holders and rag hooks; 4 holders, 3 hooks 36" length

1.18.3 Location: one each in janitor room

1.19 Waste Receptacle

1.19.1 Product: Swing top receptacle suitable for institutional use

1.19.2 Location: one in each washroom

2 Fabrication

2.1 Include reinforcing, anchorage and mounting devices required for the installation of each product.

2.2 Fit joints and junctions between components tightly and in true planes, conceal and weld joints where possible.

2.3 Fabricate products with materials and component sizes, metal gauges, hardware, reinforcing, anchors, and fastenings of adequate strength to ensure that Work will remain free of warping, buckling, opening of joints and seams, and distortion within limits of intended use.

3 Installation

3.1 Provide manufacturer's handling instructions, anchorage information, roughing-in dimensions, and templates for installation of Work of this Section.

3.2 Install Work only as specified by manufacturer.

- 3.3 Verify location and mounting heights of products with Consultant before roughing-in or installation.
- 3.4 Install Work plumb, level, straight, tight and secure to mounting surfaces, and centered between joints on masonry and tile walls.
- 3.5 Attach accessories to walls with only:
 - 3.5.1 ½" long expansion shields in solid masonry or in concrete
 - 3.5.2 Toggle bolts in cells of hollow masonry units
 - 3.5.3 Sheet metal screws into metal framing at metal stud partitions
 - 3.5.4 Wood screws into wood framing.
- 3.6 Use only fasteners that match material and finish of fastened Work where exposed to view.
- 3.7 Ensure that grab bars are installed to withstand a minimum downward force of 900 lbs. per grab bar.

Section 10 44 00 Fire Protection Specialties

1. General

- 1.1. Include Fire Extinguishers, Cabinets, and Accessories in design and specify such that they meet or exceed all applicable code requirements including but not limited to, Nova Scotia Building Code (N.S. Reg. 44/2019) requirements.

2. Products

2.1. Fire Extinguishers

- 2.1.1. Provide to NFPA requirements.

Section 10 51 00 Lockers

- 1 Where lockers are required in the design, ensure there are sufficient barrier-free types included.
- 2 Size and design to suit functionality of the project.

3 Unless specified otherwise:

- 3.1 Top: sloping, 20ga steel.
- 3.2 Accessories: Hat shelf, 2 Coat hooks.
- 3.3 Factory assembled.
- 3.4 Doors: double pan design, 16ga outer panel and 24ga inner panel, complete with reinforcing 2 bars per door.
- 3.5 Frame: 16ga steel.
- 3.6 Sides and back: 24ga steel.

Section 10 56 00 Storage Shelving

- 1 Where Metal Storage Shelving is incorporated into design, refer to DC350, Part 2, Section Division 05, 05 50 00 Metal Fabrications.

Section 10 57 00 Wardrobe and Closet Specialties

- 1. Wardrobe Mounting Heights
 - 1.1. Where Wardrobe and Closet Specialties are incorporated into design, refer to DC350, Part 2, Section 2, Division 10.
- 2. Where corridor storage requiring clothing hangers are incorporated into design, specify such that the closed loop hanger occur at a rate of four closed loop hanger per foot of corridor storage.

Section 10 73 00 Protective Covers

- 1 Provide canopy protection for all entrance areas.

Section 10 75 00 Flagpoles

- 1 Materials
 - 1.1 Where Flagpoles are incorporated into design, specify:
 - 1.1.1 Cone-tapered, seamless, extruded aluminum tubing to Aluminum Association

Alloy AA 6063-T5, Satin Finish.

1.1.2 Length: 30'-0" long, including base mount brackets, anchorage and fittings.

1.1.3 Uniform straight-line tapered section above the cylindrical butt section; tapered 1" in 5'6" of run.

1.1.4 Provide internal splicing, self-aligning sleeve of aluminum as flagpole, snug fitting, watertight joints.

1.1.5 Finial

1.1.5.1 6" diameter ball of 3/16" minimum thickness, aluminum anodized, colour gold.

1.1.6 Truck Assembly

1.1.6.1 Stainless steel ball bearing, non-fouling, revolving double truck assembly, finish matching flagpole.

1.1.7 Halyard

1.1.7.1 Internal type, braided nylon, with steel or bronze core; complete with stainless steel retaining loop and weights for internal halyard.

1.1.8 Swivel Snaps

1.1.8.1 Provide 2 per halyard

1.1.8.2 Aluminum with neoprene or vinyl covers.

1.1.9 Cleat Box

1.1.9.1 Lockable

1.1.9.2 One per cleat

1.1.9.3 Cast aluminum, finish matching flagpole, complete with hasp for padlock, hinged cover, and tamper-proof screws.

1.1.9.4 Clear anodized finish.

2 Flag provided by Minister.

END