

PART 1 - GENERAL

- 1.1 RELATED SECTIONS .1 Section 09 21 16 - Gypsum Board Assemblies.
- 1.2 REFERENCES .1 Aluminum Association (AA)  
.1 AA DAF 45-03(R2009), Designation System for Aluminum Finishes.  
.2 South Coast Air Quality Management District (SCAQMD), California State, Regulation XI. Source Specific Standards  
.1 SCAQMD Rule 1168-A2005, Adhesives and Sealants Applications.
- 1.3 ACTION AND INFORMATIONAL SUBMITTALS .1 Submit in accordance with Section 01 33 00 Submittal Procedures.  
.2 Product Data:  
.1 Submit manufacturer's instructions, printed product literature and data sheets for corner guards and include product characteristics, performance criteria, physical size, finish and limitations.  
.2 Submit 2 copies of WHMIS MSDS in accordance with Section 01 35 29 - Health and Safety Requirements. Indicate VOC's for material as follows:  
.1 Caulking materials during application and curing.  
.2 Adhesives.  
.3 Installation Drawings:  
.1 Indicate on drawings large scale details, materials, finishes, dimensions, anchorage and assembly.  
.4 Samples:  
.1 Submit duplicate 300 mm long samples of profiles and colours for corner guards.

- 1.4 QUALITY ASSURANCE
- .1 Test Reports:
    - .1 Submit certified test reports showing compliance with specified performance characteristics and physical properties.
  - .2 Certificates:
    - .1 Submit product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
- 1.5 DELIVERY, STORAGE AND HANDLING
- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
  - .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
  - .3 Storage and Handling Requirements:
    - .1 Store materials off ground in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
    - .2 Store and protect corner guards from nicks, scratches, and blemishes.
    - .3 Replace defective or damaged materials with new.
  - .4 Develop Construction Waste Management Plan related to Work of this Section.
  - .5 Packaging Waste Management: remove for reuse packaging materials as specified in Construction Waste Management Plan in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

PART 2 - PRODUCTS

- 2.1 MATERIALS
- .1 Metal corner guards: 1.6 mm thick, 89 x 89 mm x 1200mm high, size with 6 mm corner radius type

304 satin finished stainless steel, with removable protective paper cover, to profiles indicated, mechanically mounted.

- 2.2 ACCESSORIES .1 Fasteners: self-tapping stainless steel, flush mounting.

PART 3 - EXECUTION

- 3.1 EXAMINATION .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for wall and corner guards installation in accordance with manufacturer's written instructions.  
.1 Visually inspect substrate in presence of Departmenta Representative.  
.2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.  
.3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

- 3.2 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.

- 3.3 INSTALLATION .1 Install units on solid backing and erect with materials and components straight, tight and in alignment.  
.2 Mechanically fasten corner guards.

3.4 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
  - .1 Leave Work area clean at end of each day.
- .2 Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .3 Clean surfaces after installation using manufacturer's written recommended cleaning procedures.
- .4 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.
- .5 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
- .6 Waste Management: separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
  - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

3.5 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by wall and corner guards installation.

END OF SECTION

PART 1 -

- 1.1 RELATED REQUIREMENTS
- .1 09 91 23 Interior Painting
  - .2 09 26 13 Gypsum Board Assemblies.
- 1.2 REFERENCES
- .1 ASTM International
    - .1 ASTM A167 99(2009), Standard Specification for Stainless and Heat Resisting Chromium Nickel Steel Plate, Sheet, and Strip.
    - .2 ASTM B456 11e1, Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.
    - .3 ASTM A653/A653M 15e1, Standard Specification for Steel Sheet, Zinc Coated (Galvanized) or Zinc Iron Alloy Coated (Galvannealed) by the Hot Dip Process.
    - .4 ASTM A924/A924M 16ae1, Standard Specification for General Requirements for Steel Sheet, Metallic Coated by the Hot Dip Process.
  - .2 Canadian General Standards Board (CGSB)
    - .1 CGSB 31 GP 107MA 90, Non inhibited Phosphoric Acid Base Metal Conditioner and Rust Remover.
  - .3 CSA International
    - .1 CAN/CSA B651 12, Accessible Design for the Built Environment.
- 1.3 ACTION AND INFORMATIONAL SUBMITTALS
- .1 Provide submittals in accordance with Section 01 33 00.
  - .2 Product Data:
    - .1 Provide manufacturer's printed product literature and data sheets and include product characteristics, performance criteria, physical size, finish and limitations.
  - .3 Shop Drawings:
    - .1 Indicate size and description of components, base material, surface finish inside and out, hardware and locks, attachment devices, description of rough in frame, building in details of anchors for grab bars.

- .4 Samples:
  - .1 Submit samples for each unit specified.
  - .2 Samples will be returned for inclusion into work.
  
- 1.4 CLOSEOUT SUBMITTALS.1 Provide maintenance data for toilet and bath accessories for incorporation into manual specified in Section 01 78 00.
  
- 1.5 MAINTENANCE MATERIAL SUBMITTALS.1 Tools:
  - .1 Provide special tools required for assembly, disassembly or removal for toilet and bath accessories in accordance with requirements specified in Section 01 78 00.
  - .2 Deliver special tools to Departmental Representative.
  
- 1.6 DELIVERY, STORAGE AND HANDLING.1 Deliver, store and handle materials in accordance with manufacturer's written instructions.
  - .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
  - .3 Storage and Handling Requirements:
    - .1 Store materials off ground indoors in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
    - .2 Store and protect toilet and bathroom accessories from nicks, scratches, and blemishes.
    - .3 Replace defective or damaged materials with new.
  - .4 Packaging Waste Management: remove for reuse and return by manufacturer of pallets, crates, padding, and packaging materials in accordance with Section 01 74 21 -Construction/Demolition

Waste Management and Disposal.

Part 2 - Products

2.1 MATERIALS

- .1 Sheet steel: to ASTM A653/A653M with ZF001 designation zinc coating.
- .2 Stainless steel sheet metal: to ASTM A167, Type 304, with satin finish.
- .3 Stainless steel tubing: Type 304, commercial grade, seamless welded, 1.2 mm wall thickness.
- .4 Fasteners: concealed screws and bolts hot dip galvanized, exposed fasteners to match face of unit. Expansion shields fibre, lead or rubber as recommended by accessory manufacturer for component and its intended use.

2.2 COMPONENTS

- .1 Bobrick and Bradley Models are specified equal products by American Specialties Inc., and Gamco are Approved provided they meet the intent of the specification. Use only one manufacturer for all items listed.
- .2 Toilet tissue holder: Surface-mounted multi-roll toilet tissue dispenser shall be type-304 stainless steel with all-welded construction, including dispensing mechanism, inner housing and cam; exposed surfaces shall have satin finish. Front of toilet tissue dispenser door shall be drawn, one-piece, seamless construction. Door shall be secured to cabinet with two rivets and equipped with a tumbler lock keyed like other Bobrick washroom accessories. Unit shall dispense two standard-core toilet tissue rolls up to 133mm diameter 1800 sheets. Extra roll shall automatically drop in place when bottom roll is depleted. Unit shall be equipped with two theft-resistant, heavy-duty, one-piece, molded ABS spindles; Model B-2888 as manufactured by Bobrick, Bradley 5402 or an approved equal.
  - .1 Location: one each washroom.
- .3 Robe hook: satin finish stainless steel 50 mm projection Bobrick Model B-6717, Bradley 9114

- .1 Location: one in each washroom.
- .4 Mirrors:
  - .1 Framed type: stainless steel channel frame construction, mitered corners, concealed fixings. No. 1 quality Tempered glass mirrors, 5 mm thick, guaranteed for 5 years against silver spoilage. Galvanized steel back on mirror. Frame size 610 mm wide x 915 mm high; revise Models accordingly for Tempered glass Model B-290 2436 as manufactured by Bobrick, Bradley 780 2436 or an approved equal.
  - .2 Location: each washroom sink.
- .5 Liquid soap dispenser: surface mounted 20 ga. Type 304 Stainless steel with brushed finish, horizontal concealed mount, lockable, all purpose valve. Classic Series Bobrick Model B-2112
  - .2 Location: one at each sink.
- .6 Paper towel dispenser: Surface-mounted paper towel dispenser shall be type-304 stainless steel with all-welded construction; exposed surfaces shall have satin finish. Door shall be secured to cabinet with a full-length stainless steel piano-hinge and equipped with a tumbler lock keyed like other Bobrick washroom accessories. Paper towel tray shall have hemmed opening to dispense paper towels without tearing. Unit shall be capable of dispensing 400 C-fold or 525 multifold paper towels measuring 79 to 97mm deep.

Acceptable Product: Bobrick B-2620 or an approved equal.

  - .1 Location: one each washroom, kitchen and wet area.
- .7 Grab bars: 32 mm diameter x 1.2 mm wall tubing of stainless steel, length as indicated, 76 mm diameter wall flanges, concealed screw attachment. Peen bar at area of hand grips. Provide anchoring and mounting accessories.
  - .1 Acceptable products: Bobrick B-5806, American Specialties 3700 or GAMCO 125S.
  - .2 Location as indicated on drawings.

- .8 Janitor shelf and mop hooks: shelf with 3 mop holders, and 4 hooks, 1.2mm type 304 stainless steel; 200mm deep, 350mm high.

Acceptable project B-239 by Bobrick, 9933 B4 Bradley

- .1 Location: Each janitor room.

- .9 Waster Receptacles: surface mounted waste receptacle, 0.5mm type 304 stainless steel, satin finish, welded construction, 24 litre capacity.

- .1 Location: each washroom

#### 2.4 FABRICATION

- .1 Weld and grind joints of fabricated components flush and smooth. Use mechanical fasteners only where approved.
- .2 Wherever possible form exposed surfaces from one sheet of stock, free of joints.
- .3 Brake form sheet metal work with 1.5 mm radius bends.
- .4 Form surfaces flat without distortion. Maintain flat surfaces without scratches or dents.
- .5 Back paint components where contact is made with building finishes to prevent electrolysis.
- .6 Hot dip galvanize concealed ferrous metal anchors and fastening devices to CAN/CSA-G164.
- .7 Shop assemble components and package complete with anchors and fittings.
- .8 Deliver inserts and rough in frames to job site at appropriate time for building in. Provide templates, details and instructions for building in anchors and inserts.
- .9 Provide steel anchor plates and components for installation on studding and building framing.

#### 2.5 FINISHES

- .1 Chrome and nickel plating: to ASTM B456, satin or polished finish.
- .2 Manufacturer's or brand names on face of units not acceptable.

### Part 3 - Execution

#### 3.1 EXAMINATION

- .1 Verification of Conditions: verify that conditions of substrates and surfaces to receive

toilet and bathroom accessories previously installed under other Sections or Contracts are acceptable for product installation in accordance with manufacturer's instructions prior to toilet and bathroom accessories installation.

- .2 Inform Consultant of unacceptable conditions immediately upon discovery.
- .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval from Consultant.

### 3.2 INSTALLATION

- .1 Install and secure accessories rigidly in place.
  - .1 Solid masonry, marble, stone or concrete: use bolt with lead expansion sleeve set into drilled hole.
  - .2 Stud walls: Install steel back-plate to stud prior to drywall finish. Provide plate with threaded studs or plugs.
- .2 Install grab bars on built in anchors provided by bar manufacturer.
- .3 Use tamper proof screws/bolts for fasteners.
- .4 Fill units with necessary supplies shortly before final acceptance of building.

### 3.3 ADJUSTING

- .1 Adjust toilet and bathroom accessories components and systems for correct function and operation in accordance with manufacturer's written instructions.
- .2 Lubricate moving parts to operate smoothly and fit accurately.

### 3.4 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11.
  - .1 Leave Work area clean at end of each day.
  - .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11.
  - .3 Waste Management: separate waste materials for reuse and recycling in accordance with Section 01 74 20 - Construction/Demolition Waste Management and Disposal.

- .2 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

3.5 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by toilet and bathroom accessories installation.

END OF SECTION