

## SECTION 10000 - MISCELLANEOUS ACCESSORIES

### PART 1 - GENERAL

#### RELATED DOCUMENTS:

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

#### DESCRIPTION OF WORK:

Provide and install the specified products as indicated on the plans and described in the specifications.

**NOTE:** ALL ITEMS LISTED ARE SPECIFIC MODEL NUMBERS BY SPECIFIC MANUFACTURERS; HOWEVER, EQUAL PRODUCTS BY OTHER MANUFACTURER'S OF SIMILAR PRODUCTS WILL BE ACCEPTED UPON APPROVAL (either before or after bidding) BY ARCHITECT. FINAL DECISION OF EQUALITY WILL BE BASED ON ALL QUALITIES AND QUANTITIES OF THE NAMED PRODUCT.

#### SUBMITTALS:

Product Data: Submit manufacturer's specifications and installation instructions for each of the listed products. Include any operation and maintenance instructions as applicable.

#### DELIVERY, STORAGE AND HANDLING:

Deliver materials and products in original packages either assembled or "knocked-down" for field assembly.

Store materials inside, under cover and in a manner acceptable to the manufacturer of each product.

### PART 2 - PRODUCTS

#### INTERIOR SIGNAGE:

Furnish and install the following plastic or acrylic signs with 1/32" raised lettering and braille copy meeting ADA and ANSI A117.1 requirements.

Type MP Plastic: Best Signs HC-300 Series, Mohawk 200 series, Baynuk Graphic Systems, Blasted Melamine Product Line or approved equal.

Sign Sizes: 8" x 8" x 1/8" with 1/2" radiused corners and thin line border around perimeter.

Corners: Radius, 1/2".

Color: To be selected by Architect.

Installation of Door Signage per manufacturer's standard adhesive method. Locate signs as directed by Architect.

Provide the following types and quantities of signage:

**1 toilet sign** ( Men, Women symbol, or both for Unisex)  
8" wide x 8" tall, for interior door application

1" high "Men" and "Women" "Unisex"

Braille copy

Raised International Men or Women's and HC symbol

**6 signs** for individual doors. 8" wide x 8" tall, for interior door application.  
1" high room **NAME** text up to 20 characters.  
braille copy.

**FIRE EXTINGUISHER CABINETS:**

Typical FEC: **Models 1027-P50** as manufactured by J. L. Industries or approved equal. Plans indicate required locations (denoted by "FEC"). Extinguisher by owner.

Finish and type: Natural color anodized aluminum, semi-recessed.

Provide the following quantities: **2 typical FECs total** or as indicated on drawings (whichever number is greater).

**TEMPLATE FOR IDENTIFYING RATED WALLS:**

Contractor shall provide labeling of all rated walls in new or renovated construction in concealed spaces in accordance with N.C. Building Code requirements for protection of fire rated openings. Labeling must be permanent but can be sprayed using a template stenciling format or adhered sign. Minimum letter height 4".

**PART 3: EXECUTION:**

**INSTALLATION:**

Install units in accordance with manufacturer's instructions. Securely anchor to adjacent walls and/or floors with concealed devices as applicable for product specified.

Coordinate with other trades as necessary for proper and timely installation.

**ADJUST AND CLEAN:**

Ensure that operating parts work freely and fit neatly. Adjust hardware and moving parts as necessary.

Repair or replace damaged parts, dents, buckles, abrasions, or other defect affecting appearance or serviceability.

Clean all products prior to time of final inspection.

**END OF SECTION 10000**

## SECTION 10200 – LOUVERS AND VENTS

### PART 1 - GENERAL

#### RELATED DOCUMENTS:

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

Section 07411 Preformed Metal roof Systems.

#### DESCRIPTION OF WORK:

Extent of louvers and vents is indicated on drawings, including indications of sizes and locations.

Types of louvers and vents include the following:

Extruded aluminum louvers:  
Passive Attic Ventilation Louvers in exterior walls (see elevations and/or notes).

Sealants including installation are specified in Division 7.

#### QUALITY ASSURANCE:

Performance Requirements: Where louvers are indicated to comply with specific performance requirements, provide units whose performance ratings have been determined in compliance with Air Movement and Control Associates (AMCA) Standard 500.

Comply with SMACNA: “Architectural Sheet Metal Manual” recommendations for fabrication, construction details and installation procedures, except as otherwise indicated.

Field Measurements: Verify size, location and placement of louver units prior to fabrication, wherever possible.

Shop Assembly: Coordinate field measurements and shop drawings with fabrication and shop assembly to minimize field adjustments, splicing, mechanical joints and field assembly of units. Preassemble units in shop to greatest extent possible and disassemble as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.

#### SUBMITTALS:

Product Data: Submit manufacturer's specifications; certified test data, where applicable; and installation instructions for required products, including finishes.

Shop Drawings: Submit shop drawings for fabrication and erection of louver units and accessories. Include plans, elevations, and details of sections and connections to adjoining work. Include materials, finishes, fasteners, joinery and other information to determine compliance with specified requirements.

Samples: Submit 6” square of each required aluminum finish. Prepare samples on metal of the same gage and alloy to be used in work. Where normal color and texture variations are to be expected, include 2 or more units in each sample showing the limits of such variations.

## PART 2 - PRODUCTS

### ACCEPTABLE MANUFACTURERS:

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products which may be incorporated in the work include, but are not limited to, the following:

Manufacturer: Subject to compliance with requirements, provide products of one of the following:

Airline Products Co.  
The Aiolite Co.  
Carnes  
American Warming and Ventilating Co.  
Construction Specialties, Inc.  
Industrial Louvers, Inc.  
Ruskin Mfg. Co.

### MATERIALS:

Aluminum Extrusions: ASTM B 221, Alloy 6063-T5.

Fastenings: Use same material as items fastened, unless otherwise indicate. Fasteners for exterior applications may be hot-dip galvanized, stainless steel or aluminum. Provide types, gages and lengths to suit unit installation conditions. Use Phillips flat-head machine screws for exposed fasteners, unless otherwise indicated.

Anchors and Inserts: Use non-ferrous metal or hot-dip galvanized anchors and inserts for exterior installations and elsewhere as required for corrosion resistance. Use steel or lead expansion bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work.

Finish: Assume **CUSTOM COLOR** to match KYNAR 500 finish applied to Metal Roof systems.

### FABRICATION, GENERAL:

Provide louvers and accessories of design, materials, sizes, depth, arrangement, and metal thicknesses indicated, or if not indicated, as required for optimum performance with respect to airflow; water penetration; air leakage, where applicable (for adjustable units, if any); strength; durability; and uniform appearance.

Fabricate frames including integral sills to suit adjacent construction with tolerances for installation, including application of sealants in joints between louvers and adjoining work.

Include supports, anchorages, and accessories required to achieve a complete assembly.

Provide vertical mullions of type and at spacings indicated but not further apart than recommended by manufacturer or 48" o.c., whichever is less. At horizontal joints between louver units provide horizontal mullions except where continuous vertical assemblies are indicated.

Provide sill extensions and loose sills made of same material as louvers, where indicated, or required for drainage to exterior and to prevent water penetrating to interior.

Join frame members to one another and to stationary louver blades by welding, except where indicated otherwise or where field bolted connections between frame members are made necessary by size of

louvers. Maintain equal blade spacing, including separation between blades and frames at head and sill, to produce uniform appearance.

#### STATIONARY EXTRUDED ALUMINUM WALL LOUVERS:

Horizontal Sight-Proof Louvers: Units designed to be site proof and vandal proof.

Provide sight proof louvers similar to **Louwer T5833 by Airolite Products Company** with 12 gauge (.081) blades and frame.

#### LOUVER SCREENS:

Provide removable screens for exterior louvers.

Fabricate screen frames of same metal and finish as louver units to which secured, unless otherwise indicated.

Provide rewireable frames consisting of formed or extruded metal with a driven spline or insert for securing screen mesh.

Use insect screens of the following:

18" x 16" mesh, 0.011" aluminum wire.

Locate screens on inside face of louvers, unless otherwise indicated. Secure screens to louver frames with machine screws, spaced at each corner and at 12" o.c. between.

#### METAL FINISHES:

General: Comply with NAAMM "Metal Finishes Manual" for finish designations and application recommendations, except as otherwise indicated. Apply finishes in factory after products are assembled. Protect finishes on exposed surfaces with protective covering, prior to shipment. Remove scratches and blemishes from exposed surfaces which will be visible after completing finishing process.

#### FINISH ON ALUMINUM

Application: on clean extrusions free from serious surface blemishes; on exposed surfaces visible when installed product's operating sash are closed.

Coating: PPG Duranar™ with resin containing 70% fluoropolymer; thermosetting; alternative finishes will not be acceptable.

Quality standard: conforming to ASCA 96 including 10 years Florida exposure and 4000 hours humidity tests, and AAMA 605.2-92.

Pretreatment: five-stage; zinc chromate conversion coating.

Application: electrostatic spray and oven bake by approved applicator.

Coating quantity: minimum one primer coat and one color coat.

Dry film thickness: minimum 1.2 mils on exposed surfaces, except inside corners and channels.

Assume **CUSTOM COLOR** to match KYNAR 500 finish applied to Metal Roof systems.

### PART 3 – EXECUTION

#### PREPARATION:

Coordinate setting drawings, diagrams, templates, instructions and directions for installation of anchorages which are to be embedded in concrete or masonry construction. Coordinate delivery of such items to the project site.

#### INSTALLATION:

Locate and place louver units plumb, level and in proper alignment with adjacent work.

Use concealed anchorages wherever possible. Provide brass or lead washers fitted to screws where required to protect metal surfaces and to make a weathertight connections.

Form tight joints with exposed connections accurately fitted together. Provide reveals and openings for sealants and joints fillers, as indicated.

Repair finishes damaged by cutting, welding, soldering and grinding operations required for fitting and jointing. Restore finishes so there is no evidence of corrective work. Return items which cannot be refinished in the field to shop, make required alterations, and refinish entire unit, or provide new units, at Contractor's option.

Protect galvanized and non-ferrous metal surfaces from corrosion or galvanic action by application of a heavy coating of bituminous paint on surfaces which will be in contact with concrete, masonry or dissimilar metals.

Provide concealed gaskets, flashings, joint fillers, and insulations, and install as work progresses to make the installations weathertight.

Refer to Division 7 sections for sealants in connection with installation of louvers.

END OF SECTION 10200

## SECTION 10650 – OPERABLE PARTITIONS

### PART 1 - GENERAL

#### RELATED DOCUMENTS:

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

#### DESCRIPTION OF WORK: \_\_\_\_\_

Paired panel partitions, 4 inch thick panels. **(SEE ALTERNATES)**

Related Sections include the following:

Division 3 Sections for concrete tolerances required.

Division 5 Sections for primary structural support, including pre-punching of support members by structural steel supplier per operable partition supplier's template.

Division 6 Sections for wood framing and supports, and all blocking at head and jambs as required.

Division 9 Sections for wall and ceiling framing at head and jambs.

#### QUALITY ASSURANCE:

Installer Qualifications: Experienced installer, certified by the operable partition manufacturer, as qualified to install the manufacturer's partition systems for work similar in material, design, and extent to that indicated for this Project.

Acoustical Performance: Test operable partitions in accordance with ASTM E 90 test procedure to attain no less than the STC rating specified. Provide a complete and unedited written test report by the testing laboratory upon request.

Preparation of Opening: Conform to ASTM E 557.

#### SUBMITTALS:

Product Data: Submit manufacturer's technical product data substantiating that products comply with requirements.

Shop Drawings: Show location and extent of operable partitions. Include plans, elevations, sections, details, attachments to other construction, and accessories. Indicate dimensions, weights, conditions at openings, and at storage areas, and required installation, storage, and operating clearances. Indicate location and installation requirements for hardware and track, including floor tolerances required and direction of travel. Indicate blocking to be provided by others.

Setting Drawings: Show imbedded items and cutouts required in other work, including support beam punching template.

Samples: Color samples demonstrating full range of finishes available. Verification samples shall be available in same thickness and material indicated for the work.

DELIVERY, STORAGE AND HANDLING:

Clearly mark packages and panels with numbering systems used on Shop Drawings. Do not use permanent markings on panels.

Protect panels during delivery, storage, and handling to comply with manufacturer's instructions and as required to prevent damage.

WARRANTY

Provide operable partition manufacturer's written warranty agreeing to repair or replace components with manufacturing defects for a period of:

Suspension System: 5 years

Panels: 3 years

PART 2 - PRODUCTS

ACCEPTABLE MANUFACTURERS:

Manufacturer: Subject to compliance with requirements, provide operable panels by-

Modernfold, Inc.,

Acousti-Seal Encore Paired Panel

Equals by -

Panelfold or Advanced Equipment Corporation.

Panel Construction and STC Rating: Nominal 4-1/4 inch (108 mm) thick panels in manufacturer's standard 51 inch (1295 mm) widths. All panel horizontal and vertical framing members fabricated from minimum 16 gage formed steel with overlapped and welded corners for rigidity. Top channel is reinforced to support suspension system components. Frame is designed so that full vertical edges of panels are of formed steel and provide concealed protection of the edges of the panel skin.

1. Panel Skin: Roll-formed steel wrapping around panel edge, with panel skins lock-formed and welded directly to the frame for unitized construction with minimum STC as follows:
  - a. STC: 56.
2. Panel Trim: No vertical trim required or allowed on vertical edges of panels; minimal groove appearance at panel joints.
3. Panel Weight: Steel skin.
  - a. 56 STC, 11.9 lbs./ sq. ft.

Sound Seals and Bottom Seals:

4. Vertical Interlocking Sound Seals between panels: Aluminum astragals, with tongue and groove configuration in each panel edge. Rigid plastic astragals are not acceptable.
5. Horizontal Top Seals shall be - automatic operable top seals, manually operated operable top seals not required or permitted.
6. Horizontal Bottom Seals shall be - bottom seal:
  - a. SM2 - Manually activated seals providing nominal 2 inch (51 mm) operating clearance with an operating range of plus 1/2 inch (13 mm) to 1-1/2 inch (38 mm). Seal shall be operable from panel edge or face. Extended seal exerts nominal 120 pounds (54 kg) downward force to the floor throughout operating range.



Suspension System:

7. Suspension System: - Suspension System:

- a. Track: Nominal 11 gage formed steel track, suitable for either direct mounting to wood header or supported by adjustable steel hanger brackets, supporting the load-bearing surface of the track, connected to structural support by pairs of 3/8 inch (9.52 mm) diameter threaded rods.
- b. Exposed Track Soffit: Steel, integral to the track and pre-painted off-white. Wood or aluminum soffits are not acceptable.
- c. Carriers: Two carriers of low-friction polymer reinforced with steel that permit panels to traverse L, T and X intersections without mechanical switching at all panels except hinged panels.

Panel Finish: Provide reinforced vinyl panel finish with woven backing weighing not less than 21 oz per lineal yard.

PART 3: EXECUTION

INSTALLATION

General: Comply with ASTM E557, operable partition manufacturer's written installation instructions, Drawings and approved Shop Drawings.

Install operable partitions and accessories after other finishing operations, including painting have been completed.

Match operable partitions by installing panels from marked packages in numbered sequence indicated on Shop Drawings.

Broken, cracked, chipped, deformed or unmatched panels are not acceptable.

CLEANING AND PROTECTION

Clean partition surfaces upon completing installation of operable partitions to remove dust, dirt, adhesives, and other foreign materials according to manufacturer's written instructions.

Provide final protection and maintain conditions in a manner acceptable to the manufacturer and installer that insure operable partitions are without damage or deterioration at time of Substantial Completion.

ADJUSTING

Adjust operable partitions to operate smoothly, easily, and quietly, free from binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Lubricate hardware and other moving parts.

EXAMINATION

Examine flooring, structural support, and opening, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of operable partitions. Proceed with installation only after unsatisfactory conditions have been corrected.

DEMONSTRATION

Demonstrate proper operation and maintenance procedures to Owner's representative.

Provide Operation and Maintenance Manual to Owner's representative.

End of SECTION 10650

SECTION 10800 - TOILET ACCESSORIES - (SEE ALTERNATES)

PART 1 - GENERAL

RELATED DOCUMENTS:

Drawings, General Conditions and Supplementary General Conditions and other Division-1 Specification Sections, apply to this Section.

SUMMARY

This section includes toilet and bath accessory items as scheduled. (SEE ALTERNATES)

SUBMITTALS:

Product data for each toilet accessory item specified, including construction details relative to materials, dimensions, gages, profiles, mounting method, specified options, and finishes.

QUALITY ASSURANCE:

Inserts and Anchorages: Furnish inserts and anchoring devices which must be set in concrete or built into masonry; coordinate delivery with other work to avoid delay.

Accessory Locations: Coordinate accessory locations with other work to avoid interference and to assure proper operation and servicing of accessory units.

PART 2 - PRODUCTS

ACCEPTABLE MANUFACTURERS:

Available Manufacturers: Subject to compliance with requirements, manufacturers offering toilet accessories which may be incorporated in the work include, but are not limited to, the following:

Accessory Specialties, Inc.  
American Dispenser Co.  
Bobrick Washroom Equip., Inc.  
Bradley Corp.

MATERIALS, GENERAL:

Stainless Steel: AISI Type 302/304, with polished No. 4 finish, 22 gage minimum, unless otherwise indicated.

Sheet Steel: Cold rolled, commercial quality ASTM A 366, 20 gage minimum, unless otherwise indicated. Surface preparation and metal pretreatment as required for applied finish.

Galvanized Steel Sheet: ASTM A 527, G60.

Chromium Plating: Nickel and chromium electro-deposited on base metal, ASTM B 456, Type SC 2.

Mirror Glass: Nominal 6.0-mm (0.23 inch) thick, conforming to ASTM C 1036, Type I, Class 1, Quality q2 and with silvering, electro-plated copper coating, and protective organic coating.

Galvanized Steel Mounting Devices: ASTM A 386, hot-dip galvanized after fabrication.

Fasteners: Screws, bolts, and other devices of same material as accessory unit or of galvanized steel where concealed.

### TOILET TISSUE DISPENSERS

Double-Roll Dispenser: Size to accommodate two separate rolls of core type tissue to 5-inch diameter roll.

Fabrication: Spindless, chrome-plated, steel construction with tension-spring delivery control; designed for surface mounting, self-locking device extends through core and prevents core removal until roll is empty.

### GRAB BARS:

Stainless Steel Type: Provide grab bars with thickness not less than 18 gage and as follows:

Mounting: Concealed, manufacturer's standard flanges and anchorages.

Clearance: 1-1/2 inch clearance between wall surface and inside face of bar.

Gripping Surfaces: Manufacturer's standard non-slip texture.

Heavy-Duty Size: Outside diameter of 1-1/2 inch.

### MISCELLANEOUS ACCESSORIES

Double Robe/Towel Hook: Heavy-duty satin finished stainless steel double prong robe hook; rectangular wall bracket with backplate for concealed mounting.

Shower Rods: Heavy Duty satin-finished stainless steel rods with rectangular wall bracket with backplate for concealed mounting.

### MIRROR UNITS:

Standard Stainless Steel Framed Mirror Units: Fabricate frame with channel shapes not less than 0.04 inch (20 gage), with square corners carefully mitered to hairline joints and mechanically interlocked. Provide in Type 430 bright polished finish.

### FABRICATION:

General: Stamped names or labels on exposed faces of toilet accessory units are not permitted, except where otherwise indicated; inobtrusive labels on surfaces not exposed to view are acceptable. Where locks are required for a particular type of toilet accessory, provide same keying throughout project. Furnish two keys for each lock.

Surface-Mounted Toilet Accessories, General: Except where otherwise indicated, fabricate units with tight seams and joints, exposed edges rolled. Hang doors or access panels with continuous stainless steel piano hinge. Provide concealed anchorage wherever possible.

Recessed Toilet Accessories, General: Except where otherwise indicated, fabricate units of all-welded construction, without mitered corners. Hang doors or access panels with full-length, stainless steel piano hinge. Provide anchorage that is fully concealed when unit is closed.

Framed Mirror Units, General: Fabricate frames for glass mirror units to accommodate wood, felt, plastic, or other glass protection material. Provide mirror backing and support system that will permit rigid, tamperproof glass installation and prevent moisture accumulation, as follows:

Provide galvanized-steel backing sheet, not less than 0.034 inch (22 gage) and full mirror size, with nonabsorptive filler material. Corrugated cardboard is not an acceptable filler material.

Mirror Unit Hangers: Provide system for mounting mirror units that will permit rigid, tamperproof, and theftproof installation, as follows:

One-piece, galvanized-steel, wall-hanger device with spring-action locking mechanism to hold mirror unit in position with no exposed screws or bolts.

Keys: Provide universal keys for access to toilet accessory units requiring internal access for servicing, resupply, etc. Provide minimum of six keys to Owner's representative.

### PART 3 - EXECUTION

#### INSTALLATION:

Install toilet accessory units in accordance with manufacturers' instructions, using fasteners which are appropriate to substrate and recommended by manufacturer of unit. Install units plumb and level, firmly anchored in locations as directed by Architect.

Secure mirrors to walls in concealed, tamperproof manner with special hangers, toggle bolts, or screws. Set units plumb, level, and square at locations indicated, according to manufacturer's instructions for type of substrate involved.

Install grab bars to withstand a downward load of at least 250 lbf, complying with ASTM F 446.

#### ADJUST AND CLEAN:

Adjust toilet accessories for proper operation and verify that mechanisms function smoothly.

Clean and polish all exposed surfaces after removing protective coatings.

## SCHEDULE OF TOILET ACCESSORIES

Manufacturer: Model numbers of toilet accessories listed below are those of Bobrick Washroom Equipment, Inc., unless otherwise indicated. See drawings for quantity and locations.

symbol	description		model number
1	HC Toilet Grab Bars - horizontal	42"	B-6806.99 x 42"
1A	HC Toilet Grab Bars - vertical	18"	B-6806.99 x 18"
2	HC Toilet Grab Bars - horizontal	36"	B-6806.99 x 36"
3	Double Toilet Tissue Dispenser		B-274
4			
5	Paper Towel Dispenser		B-262
6			
7	Soap Dispenser		By owner
8			
9	Wall-Mounted Lavatory Mirror	24" x 36"	B165-2436
10			
11			
12			

**Verify mounting height requirements for all mirror units with Architect.**

**Contractor shall install all toilet accessories described as being "by Owner" indicated in the Accessory Schedule.**

**Accessory numbers coordinate with those used on the Toilet Fixture and Accessories Schedule - REFERENCE ALTERNATES.**

**See Plumbing Fixture Schedule on Plumbing Drawings for required Fixtures and Accessories.**

END OF SECTION 10800