

**SECTION 22 80 00
BATHROOM ACCESSORIES**

PART 1.00 - GENERAL

1.01 RELATED DOCUMENTS

- A. The Contractor is referred to the "Bid Book"; the "Standard Agreement" between the Construction Manager (CM) and the Contractor(s); "Division 01 - General Requirements" of the Contract Specifications"; the "Contract Drawings" and all Amendments and Addenda thereto; all of which govern the Work of this Section.

1.02 SCOPE OF WORK

- A. The Work of this Section includes all labor, materials, equipment and services necessary to complete the new bathroom accessory installation and related work in renovated/reconfigured apartments as indicated on the Drawings and/or specified herein including, but not limited to, the following:
1. Existing Bathrooms: All Renovated/Reconfigured Apartments - (Plumbing/Heating – Add Alternates #3, 4 and 5)
 - a. Fiberglass bathtub wall surround panels (P/H – AA #3).
 - b. Medicine cabinets (replace deteriorated or missing cabinets as required – assume replacement of 300 cabinets for bidding purposes – P/H-AA #5).
 - c. Shower curtain rods (P/H - AA #4).
 - d. Towel bars (P/H - AA #4).
 - e. Toilet paper holders, tumbler/toothbrush holders and soap dishes (P/H – AA #4).
 - f. Clothes drying racks at bathtubs (remove, clean and reinstall existing racks, with new mounting hardware as specified – replace deteriorated or missing drying racks as required – assume 5% replacement for bidding purposes – P/H-AA #4).
 - g. Grab bars at bathtubs (remove, clean and reinstall existing bars/mounting hardware, with existing mounting plates as specified – replace deteriorated or missing grab bars and mounting plates as required – assume 5% replacement of each item for bidding purposes – P/H-AA #3).
 2. New Toilets: Unit Types C/CR [Base Bid]
 - a. Medicine cabinets
 - b. Towel bars
 - c. Toilet paper holders, tumbler/toothbrush holders and soap dishes following:
 3. Provide all other labor and materials as may be reasonably inferred to be required to make the Work of this Section complete.

1.03 RELATED WORK SPECIFIED ELSEWHERE

- A. The following Sections contain requirements that relate to the Work of this Section:
1. Section 02 05 00 – Selective Demolition/Removals/Cutting/Patching
 2. Section 06 10 00 – Carpentry
 3. Section 09 21 00 – Lath/Plaster
 4. Section 07 90 00 – Joint Sealants

1.04 SUBMITTALS

- A. The following Shop Drawings, Catalog Cuts, Material Samples and other submittals pertaining to the Work of this Section shall be submitted in accordance with Division 01- General Conditions, Section 1.7 Submittals:
1. Manufacturer's catalog cuts for each accessory.
 2. Manufacturer's standard warranty for each accessory.
 3. Physical sample (1) of each of the following accessories:
 - a. Medicine cabinet.

- b. Shower curtain rod.
- c. Towel bar (24”).
- d. Toilet paper holder, tumbler/toothbrush holder and soap dish.

1.05 QUALITY ASSURANCE

- A. All stainless steel accessories shall be by the same manufacturer unless otherwise approved by the Authority.
- B. Stamped names or labels on exposed faces of units will not be permitted.
- C. Materials and Installation shall comply with all applicable Federal, State and local handicapped accessibility regulations.

PART 2.00 - PRODUCTS

2.01 FIBERGLASS BATHTUB WALL SURROUND PANELS

- A. Panels shall be of matched metal die hydraulic press molded fiberglass laminate consisting of 20% glass content with a minimum uniform thickness of seventy (70) mils. Panel surfaces shall be smooth and wear-resistant with a specular gloss factor reading of minimum 80% as measured in accordance with ASTM Standard Method D-523. Panels shall have color molded throughout with edges molded to prevent moisture penetration and be specified as a Type I finish, or panels shall be provided with a fused and baked-on acrylic aliphatic urethane finish with a minimum two (2) mils thickness on all exposed surfaces. Panels shall meet all applicable tests of ANSI Spec. Z-124.1 and Z-124.2. Two-faced pressure-sensitive polyolefin tape shall be applied to back of panels at all outside exposed edges other than immediately above tub edge. Panels shall have an overlapping feature for adjustability to properly fit tubs. Back (center) panel shall overlap corners of both end (side) panels. Fiberglass bathtub wall surround panels shall be manufactured by:
 - 1. #HA-58 “Tubwall” by The Swan Corp.
 - 2. #350 “Durawall” by E. L. Mustee & Sons, Inc.
 - 3. Or approved equal.
- B. Wall surrounds shall consist of three (3) panel system, 58” high, to enclose standard 30” x 60” tub area.
- C. Back panels shall contain lower molded-in soap dish location to allow adequate clearance for grab bar reinstallation at existing locations.
- D. Provide an appropriate three/five piece fiberglass trim kit by the panel manufacturer for each window opening in the back panel. Material and color of sill and jamb moldings shall be the same as the panels. Moldings shall ensure that the window recess is waterproof and provide a natural draining sill. Jamb moldings shall align with the top of the adjacent wall panels. Sill and jamb moldings shall be of one piece for the depth of the window recess and shall allow easy access to window pulls, handles, etc. Window trim kits shall be manufactured by:
 - 1. The Swan Corp. (3-piece kit).
 - 2. #300.600W Duratrim by E. L. Mustee & Sons, Inc. (5-piece kit).
 - 3. Or approved equal.
- E. Color of panels and trim kits shall be white or other standard color as selected by the Authority.
- F. Panels and window moldings shall be MEA approved (No. 8-88-M) for installation in New York City.

2.02 MEDICINE CABINETS

- A. Cabinets shall conform to Fed. Spec. WW-P-541 except as modified herein. Medicine cabinets shall be:
 - 1. #105RSWT by Ketcham (Fred Silver & Co.).

2. #NYC1622 by Triangle (Leigh).
 3. Or approved equal.
- B. Cabinets shall be surface-mounted type having a nominal size of 15" W x 21" H x 4" D and a nominal mirror size of 16" x 22" x 3/16".
 - C. Cabinet and door shall be fabricated from 20 ga. cold-rolled sheet steel and be of welded or one-piece construction. All welds shall be ground smooth before finishing. Cabinets shall have slots, notches or standards to provide for a minimum of six (6) shelf positions, 1-1/2" o.c. max. Door shall be 1/2" thick with an approved type filler (styrofoam or equivalent) between the mirror and the metal back, and shall be hung on continuous piano type or other approved type hinges. Hinges shall be located away from the side of the water closet. The door shall swing to a 90-degree opening and be equipped with a nickel-plated or stainless steel bar type door stop and approved post, and a magnetic closing device.
 - D. Mirror shall be electro-copper back, silvering quality float glass free from distortions.
 - E. Frame shall be fabricated from 3/8" x 5/8", 24 ga. channel section of one piece construction with flat formed radius corners, with ends joined at bottom of mirror, and held in place with a stainless steel cover and two stainless steel screws. Frame shall have a bright annealed finish and shall have no sharp edges, frames, retaining clips, screws and other fasteners shall be non - magnetic stainless steel, 300 series.
 - F. Each cabinet shall have three (3) adjustable polycarbonate or clear shelves, 3/16" thick, 3-1/2" min. wide with all sharp edges ground smooth. Provide six (6) aluminum or non-rusting stainless steel shelf holders of adequate strength to support shelf and self contents without bending or other distortion, or movement of shelf.
 - G. Finish of all metal parts, except those of stainless steel or similar rust-resistant finish, shall be white baked-on enamel with a min. thickness of 1- 1/2" mils. Enamel shall be pigmented with pure titanium oxide and shall contain not less than 10% by weight of urea formaldehyde based on total vehicle solids.
 - H. Each cabinet shall be provided with four (4) holes in the back of the box and 1" long zinc or cadmium plated wood screws and washers for mounting purposes.

2.03 SHOWER CURTAIN RODS

- A. Rod shall be 1" o.d., 60" nom. length, fabricated of 20-ga., 18-8 S, type-304 stainless steel tubing with satin-finish. Flanges shall be of drawn, one-piece, seamless construction of similar material, gauge and finish as rods. Shower curtain rods shall be:
 1. #B-6107x60 by Bobrick.
 2. Or approved equal.

2.04 TOWEL BARS

- A. Bar shall be 3/4" o.d., of length as specified, fabricated of heavy-gauge 18-8 S, type-304 stainless steel tubing with satin-finish. Flanges/support arms shall be 22-ga. with satin-finish and concealed mounting brackets/wall plates shall be 16-ga. of similar material as bars. Towel bars shall be:
 1. Bathrooms: #B-6747x24 by Bobrick (24" long).
 2. Toilets: #B-674x18 by Bobrick (18" long).
 3. Or approved equal.

2.05 TOILET PAPER HOLDERS

- A. Units shall be surface-mounted type, fabricated of type-304 stainless steel. Flanges/support arms shall be 22-ga. with satin-finish and concealed mounting brackets/wall plates shall be 18/20-ga. Spindle shall be chrome-plated plastic with heavy-duty internal spring. Toilet paper holders shall be:

1. #B-76857 by Bobrick.
2. Or approved equal.

2.06 TUMBLER / TOOTHBRUSH HOLDERS

- A. Units shall be surface-mounted type, fabricated entirely of 18-8 S, type-304 stainless steel. Holder/flange shall be 22-ga. with satin-finish and concealed mounting bracket/wall plate shall be 16-ga. Tumbler/ toothbrush holders shall be:
1. #B-6797 by Bobrick.
 2. Or approved equal.

2.07 SOAP DISHES

- A. Units shall be surface-mounted type, fabricated entirely of 18-8 S, type-304 stainless steel. Dish/flange/support arm shall be 22-ga. with satin-finish and concealed mounting bracket/wall plate shall be 16-ga. Soap dishes shall be:
1. #B-6807 by Bobrick.
 2. Or approved equal.

2.08 CLOTHES DRYING RACKS / MOUNTING HARDWARE

- A. Clothes Drying Racks:
1. Drying racks shall be fabricated of steel rods and completely coated with vinyl chloride plastisol. Dimensions and configuration of new replacement drying racks shall match existing installations to remain (Contractor to verify in field). Base frame shall be fabricated from ASW Gauge No. 3 (0.244"+0.010" nom. dia.) clean bright basic steel wire. The ends of all bars shall be cold offset to form a smooth ball at each end. The entire frame shall be assembled by resistance welding at each intersection.
 2. Vinyl chloride plastisol coating shall be 0.040" (+0.010) thick and shall be bonded to the entire portion of the base frame by controlled temperature dipping and then baked-on at 350-400 deg. F. Color of coating shall match existing installations to remain (Contractor to verify in field). Coating shall be impervious to commonly used detergents and cleaning fluids, and shall be highly resistant to abrasion. Finish shall be smooth and free from imperfections which could damage delicate fabrics.
 3. The plastisol coating shall meet the requirements of, and shall be tested in accordance with the following criteria or any applicable methods of test examination designated by the Authority:
 - a. Adhesion after seven (7) days immersion in water at 73.4 (+3.6) degrees F: The plastisol shall show no visible evidence of separation from the metal and shall show good adhesion to the metal when cut with a knife and lifted from the cut. A recovery period of 30 to 35 minutes at the indicated temperature is allowable before testing adhesion.
 - b. Impact flexibility: The plastisol shall show no visible evidence of shattering, cracking or chipping.
 - c. Corrosion resistance: There shall be no visible evidence of corrosion of the drying racks.
 4. The following manufacturer has indicated an ability to provide drying racks as specified herein:
APR Industries, Inc.
P.O. Box 342
Boonton, NJ 07005
Tel: (800) 729-2674
Fax: (800) 646-8721

- B. Support angles for remounting/mounting existing/new clothes drying racks to concrete slab ceilings shall be galvanized steel bent plate angles not less than 5/8" x 1-1/4", 20 ga. or approved equal. Angles shall be of appropriate length to permit proper installation of drying racks. Pre-drill angles for pulleys and attachment to ceiling.
- C. Pulleys shall be one kind and type consisting of frame and hook with nylon roller. Frame shall be fabricated from #13 B. & S. gauge aluminum sheet. Hook shall be 3/16" dia. stainless steel. Nylon roller shall permit free rotation and shall have a rim dia. of 7/8" with groove to accommodate 3/16" dia. (#6) cord. Rivet shall be 3/16" dia. aluminum or stainless steel.
- D. Cord shall be nylon, solid, braided type. Nylon carrier braids shall be evenly and uniformly braided. Cord may be furnished with or without center core and shall be in compliance with the following requirements:
 - 1. Size No.: 6
 Nominal Diameter in Inches: 3/16" (+1/64")
 Minimum Length per Pound in Feet: 99
 Minimum Breaking Strength in Pounds: 720
 Minimum Number of Strands: 12
 - 2. Core: The core, if used, shall be first-grade, 100% virgin nylon.
 - 3. Material: Nylon shall be natural colored, first-grade 100% virgin nylon.
 - 4. Filament: Nylon cord shall have sufficient filament to maintain the required size.
 - 5. Finish: The cord shall be free of any sizing and loading or other foreign matter, except such as is necessary to give it a suitable polish.
 - 6. Testing: The cord shall be tested in accordance with the methods specified in Federal Standard 191, Textile Test Methods, latest revision in effect at the time of invitation to bid, or any applicable methods of testing or examination designated by the Authority.
- E. Cord hooks for securing clothes drying racks shall be a single cadmium plated metal hook of approved type as manufactured by the American Cabinet Hardware Corp. or approved equal.

2.09 GRAB BARS / MOUNTING PLATES

- A. Replacement grab bars at bathtubs shall be 1 1/4" o.d., type 304, 18-8 alloy, 18 ga. min. stainless steel tubing with satin finish to match existing grab bars to be reinstalled (Contractor to verify in field). Grab bars shall have concealed mounting flanges and snap flange covers with matching satin finish. Grab bars shall be B-5806 Series by Bobrick or approved equal. Length and configuration of replacement grab bars shall match existing.
- B. Replacement mounting plates for grab bar installation/reinstallation at bathtubs shall be galvanized steel, min. 3/16" thick, 4" wide, and of length as required to accommodate grab bars and extend between channel studs.

PART 3.00 - EXECUTION

3.01 JOB CONDITIONS (GENERAL)

- A. The Contractor shall examine the locations and conditions at which bathroom accessories are to be installed. Notify the Authority in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected in an acceptable manner.

3.02 INSTALLATION

- A. Fiberglass Bathtub Wall Surround Panels
 - 1. After removal of existing grab bars and tub surrounds, the Contractor and the CM shall carefully verify the condition of the substrate to ensure that the existing concealed grab bar mounting plates are properly secured to existing channel stud framing and can properly support the grab bars. Where mounting plate installations are found to be inadequate to support the grab bars, existing plates shall be replaced, including cutting

and patching of existing plaster/lath as required (assume 5% replacement for bidding purposes). New mounting plates shall be secured to channel studs with ¼" dia. galvanized U-bolts.

2. After restoration of existing plaster partitions/chase walls/furring as required (by General Contractor) and replacement of tub surrounds, defective mounting plates, etc., existing grab bars shall be reinstalled at existing locations. Grab bars shall be properly secured to existing/new mounting plates utilizing existing hardware with new rust-resistant fasteners to match existing.

Where grab bars are deteriorated or missing, replace as required to match existing installations (assume 5% replacement for bidding purposes). Concealed mounting flanges for new replacement grab bars shall be properly secured to existing/new mounting plates in accordance with manufacturer's recommendations, after which flange covers shall be snapped-in place to conceal mounting screws.

3. Provide sealant around all exposed and concealed fasteners, flange covers, etc. at existing reinstalled/new grab bars as specified in Section 07900 – Joint Sealants.
 4. Grab bar/mounting plate installations/reinstallations shall comply with all applicable ANSI, NYC Building Code – Local Law 58/59 and UFAS requirements.
 5. Exposed fasteners and other mounting devices shall be finished to match the accessories.
- B. All accessories shall be securely installed, plumb and level.

3.03 CLEANING AND PROTECTION

- A. Remove all temporary labels, markings and protective coatings.
- B. Clean and polish exposed surfaces of all installed accessories.
- C. Protect installed accessories and replace damaged items at no additional cost to the Authority.

END OF SECTION 22 80 00 22 80 00