SECTION 234100

particulate air filtration

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**NOTE TO SPECIFIER**

*Use this Specification Section for Mail Processing Facilities.*

***This is a Type 1 Specification with completely editable text; therefore, any portion of the text can be modified by the A/E preparing the Solicitation Package to suit the project.***

*For Design/Build projects, do not delete the Notes to Specifier in this Section so that they may be available to Design/Build entity when preparing the Construction Documents.*

*For the Design/Build entity, this specification is intended as a guide for the Architect/Engineer preparing the Construction Documents.*

*The MPF specifications may also be used for Design/Bid/Build projects. In either case, it is the responsibility of the design professional to edit the Specifications Sections as appropriate for the project.*

*Text shown in brackets must be modified as needed for project specific requirements.* *See the “Using the USPS Guide Specifications” document in Folder C for more information.*

*The last date that USPS revised this standard specification section occurs in two places, at the end of this section and in the Table of Contents. If the date in this section matches the date in the Table of Contents, then you are using the latest version. Do not delete or revise the “last revised” date at the end of the section during the development of the Project Manual.*

*The footer in this section should be edited to replace the text, “USPS MPF SPECIFICATION” with the project name, and the blank date in the center should be replaced with the submission date, for interim design reviews, or the issue date of the completed Project Manual.*

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1. GENERAL
   1. SUMMARY
      1. This Section includes factory-fabricated air-filter devices and media used to remove particulate matter from air for HVAC applications.
   2. SUBMITTALS
      1. Product Data: Include dimensions; required clearances and access; rated flow capacity, including initial and final pressure drop at rated airflow; efficiency and test method; fire classification; furnished specialties; and accessories for each unit indicated.
      2. Shop Drawings: Details to illustrate component assemblies and attachments.
         1. Show filter rack assembly, dimensions, materials, and methods of assembly of components.
      3. Operation and maintenance data.
   3. QUALITY ASSURANCE
      1. Comply with ARI 850.
      2. Comply with ASHRAE 52.1 and ASHRAE 52.2.
      3. Comply with NFPA 90A and NFPA 90B.
2. PRODUCTS
   1. MANUFACTURERS
      1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
         1. AAF International.
         2. Airguard Industries, Inc.
         3. Farr Co.
         4. Flanders/CSC Corp.
         5. General Filters Inc.
         6. Purafil, Inc.
      2. Extended-Surface, Disposable Panel Filters: Factory-fabricated, dry, extended-surface filters with holding frames.
         1. Media: Fibrous material formed into deep-V-shaped pleats and held by self-supporting wire grid.
         2. Media and Media-Grid Frame: Nonflammable cardboard with gaskets.
         3. Duct-Mounting Frames: Welded, galvanized steel with gaskets and fasteners, and suitable for bolting together into built-up filter banks.
         4. Provide new filters at project completion plus one new set of spare filters for each system.
3. EXECUTION
   1. INSTALLATION
      1. Position each filter unit with clearance for normal service and maintenance. Anchor filter holding frames to substrate.
      2. Install filters in position to prevent passage of unfiltered air.
      3. Coordinate filter installations with duct and air-handling unit installations.
      4. Electrical wiring and connections are specified in Division 26 Sections.

END OF SECTION

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