



Section 15880

Flanders Pre-Pleat-40 LPD

Part 1 General

1.01 Scope

- A. This section covers:
 - 1. Pleated Air filters

1.02 Quality Assurance

- A. Standards:
 - 1. ASHRAE Standard 52.2-2007
 - 2. Underwriters Laboratories: U.L. 900, Class 2

- B. Design Criteria
 - 1. Air flow not to exceed rated capacity
 - 2. Initial and final resistance not to exceed scheduled values

1.03 Submittals

- A. Product Data: submit the following items in accordance with requirements of Section 15010, Mechanical General Requirements.
 - 1. Manufacturer's name and catalog data
 - 2. Installation data
 - 3. Capacities and resistances
 - 4. Materials of construction

1.04 Product Delivery, Storage and Handling

- A. Filters shall be shipped in its original package to prevent damage or entrance of foreign matter. All handling and shipping shall be performed in accordance with manufacturer's recommendations. Provide protective coverings during construction.



Part 2 Products

2.01 Acceptable Manufacturers

A. Filters:

1. Flanders Corporation PrePleat-40 LPD

2.02 Filter Cartridges

A. Pleated Media Filters

1. Media: 100% synthetic non-woven engineered with a gradient density composition achieving a MERV 8 using the mechanical method of particle capture.
2. Media support shall be continuously laminated to an expanded metal grid on the air leaving side.
3. Pleat design shall be a radial wedge which allows for total media usage.
4. Media frame shall be constructed from two pieces of die cut high wet strength carrier board. The frame shall be designed with diagonal and horizontal support members bonded to the media on the air entering and leaving sides.
5. Filters shall be U.L. 900 Class 2 listed.
6. A nominal 24" x 24" x 2" High Capacity shall hold 195 grams of dust at 1.50" WG
7. Filter efficiency shall not be affected by the conditioning step outlined in ASHRAE 52.2-2007 per appendix J
8. Independent test reports are required to validate filter performance
9. Operating Temperature: 180° F (82.22° C)
10. Initial resistance to airflow shall not exceed .19" WG at an airflow of 500 FPM for a 2" Deep Pleat
11. Basis of design: Flanders Pre Pleat 40 LPD, NO SUBSTITUTIONS

3.01 Schedule

- #### **A. See air filter schedule on drawings for filter model numbers, CFM and sizing data.**

**** END OF SECTION 15880 ****