

**MERV 13 GREEN PLEAT ENGINEERING SPECIFICATION**

**1.0 General**

- 1.1 Filters shall be Aerostar MERV 13 Green Pleat extended surface pleated air filter as manufactured by Filtration Group, Inc.
- 1.2 Filters shall be rated MERV 13 per full ASHRAE 52.2-2007 testing.
- 1.3 Filters shall be available in a depth of 2" nominal.
- 1.4 Filters shall be classified UL900 Class 2.
- 1.5 Filter shall be designed to meet or exceed the air filtration efficiency criteria required to gain points toward certification in the Leadership in Energy and Environmental Design (LEED) Green Building Rating system.

**2.0 Filter Construction**

- 2.1 Media material of construction shall be 100% moisture resistant synthetic.
- 2.2 Frame shall be a heavy duty, die-cut, moisture resistant paperboard with a cross member design that increases filter rigidity and will not warp, crack, or distort under normal operating conditions. Frame shall be made with 100% recycled paperboard.
- 2.3 Filters shall have an expanded metal support grid bonded to the air-exiting side of the filter to maintain pleat uniformity and prevent fluttering.
- 2.4 Filter media pack shall be bonded to every part of the frame to provide maximum filter rigidity and to prevent air by-pass.

**3.0 Filter Performance**

- 3.1 Filters shall be MERV 13 when fully tested in accordance with the ASHRAE 52.2-2007 Test Standard.
- 3.2 Filter shall have a low initial pressure drop of 0.38" W.C. or less at 500 FPM.
- 3.3 Filter shall have a Dust Holding Capacity of at least 130g of ASHRAE dust when fully tested in accordance with the ASHRAE 52.2-2007 Test Standard.
- 3.4 Filters shall be rated to withstand a continuous operating temperature up to 150°F.
- 3.5 Filters shall have a recommended final resistance of 1.0" W.G.

