1.0 General

1.1 Filters shall be Aerostar® MERV 13 Green Pleat extended surface pleated air filters as manufactured by Filtration Group.
1.2 Filters shall be available in a depth of 1”, 2” and 4” nominal.
1.3 Underwriters Laboratories classified to UL 900.
1.4 Filters are manufactured by an ISO 9001 registered company.
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 Materials of Construction

2.1 Media material shall be 100% synthetic.
2.2 Frame shall be a heavy duty, moisture resistant paperboard with a cross member design that increases filter rigidity and prevents breaching. Frame shall be made with 100% recycled paperboard.
2.3 Four inch filters shall have integral pleat separators to provide additional pleat stabilization and support.
2.4 Filters shall have an expanded metal support grid bonded to the air-exiting side of the filter to maintain pleat uniformity and prevent fluttering.
2.5 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 tested in accordance with the ASHRAE 52.2-2007 Test Standard.
3.2 Filter shall have an initial pressure drop of 0.37 “WC.
3.3 Filters shall have a dust holding capacity of at least 150g of ASHRAE dust when tested in accordance with the ASHRAE 52.2 Test Standard.
3.4 Filters shall be rated to withstand a continuous operating temperature up to 150°F.
3.4 Filters shall have a maximum recommended final resistance of 1.5” W.G.