

TRI-PLEAT GREEN

MERV 13 Pleated Filters

The need for MERV 13 efficiency has been brought about by the requirements in the LEED® (Leadership in Energy and Environmental Design) Certification.

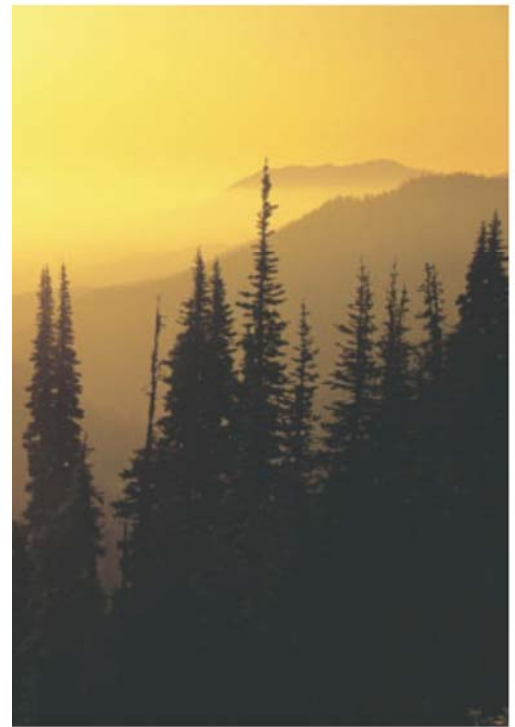
LEED Credits for Indoor Environmental Quality can be difficult for Existing Buildings to achieve since MERV 13 (or greater) is specified as the minimum efficiency to receive credit (see side bar lower left for details). Traditionally, MERV 13 filters have been twelve inch deep box filters or bag filters from twelve inches up to thirty-six inches deep, while most HVAC systems in existing buildings are only designed to handle two or four inch deep prefilters. Along with the size issue traditional MERV 13 filters have significantly more resistance to airflow than the commonly used prefilters - three or four times greater. Additionally upgrading to traditional MERV 13 filters can sabotage a filter budget.

Again Tri-Dim offers the Innovative Solution ... the **TRI-PLEAT GREEN MERV 13**. The Tri-Pleat Green was specifically designed to meet and exceed LEED requirements and ease the transition from commonly used prefilters to a filter that exceeds MERV 13.

Tri-Pleat Green achieves MERV 13 in a full ASHRAE 52.2 test, which meets the LEED requirements. This filter was specifically designed for an easy retrofit into conventional two and four inch HVAC filter tracks and holding frames and to operate at comparable airflow and resistance as the commonly used prefilters that they will be replacing. This allows for a seamless and inexpensive retrofit and the Tri-Pleat Green is moderately priced when compared to conventional MERV13 filters. Tri-Dim's **TRI-PLEAT GREEN MERV 13** Pleated Filter is the innovative solution.

LEED - Indoor Environmental Quality - IEQ Credit 1.4: IAQ Best Management Practices: Reduce Particulates in Air Distribution

Have in place filtration media with a minimum efficiency reporting value (MERV) greater than or equal to 13 for all outside air intakes and inside air recirculation returns during the performance period. Establish and follow a regular schedule for maintenance and replacement of these filters according to the manufacturer's recommended interval.



TRI-PLEAT GREEN MERV 13

MEDIA & EFFICIENCY

The TRI-PLEAT GREEN Pleated Filter was engineered to offer MERV 13 efficiency per ASHRAE 52.2 Test Standard. MERV 13 efficiency is defined by ASHRAE as a minimum efficiency of 90% or greater on particles 1 micron in size and larger and 75% or greater minimum efficiency on 0.3 to 1.0 micron particles. Tri-Dim's TRI-PLEAT GREEN meets or exceeds these requirements.

The TRI-PLEAT GREEN is constructed utilizing synthetic media. This specially designed media offers the benefits of high efficiency and low resistance to airflow.



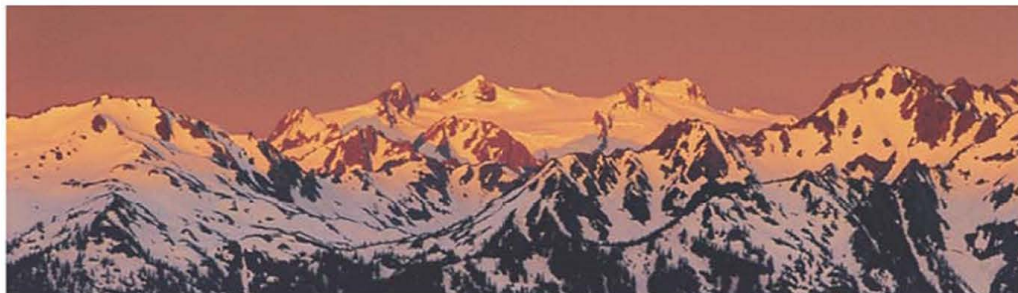
ENERGY SAVINGS & LEED

The TRI-PLEAT GREEN Pleated Filter features a low resistance to airflow, especially when compared to conventional MERV 13 filters. Energy calculations show that the energy usage reduction is greater than 30%. This can help with LEED Certification and other Green Initiatives.

In addition to the Energy Savings and MERV 13 efficiency the TRI-PLEAT GREEN offers a source reduction of landfill waste when compared to conventional MERV 13 filters by the reduction of the physical size of the filter of the TRI-PLEAT GREEN.



TRI-PLEAT GREEN - MERV 13 PLEATED AIR FILTERS



TRI-PLEAT GREEN SPECIFICATION

MEDIA = 100% SYNTHETIC

FRAME = DIE CUT

EFFICIENCY = MERV 13

INITIAL RESISTANCE @ 500 FPM (2.54 m/sec)

TWO INCH DEEP (51 mm) = 0.35" WG (87 PA)

FOUR INCH DEEP (102 mm) = 0.32" WG (80 PA)

FINAL RESISTANCE = 1.0" WG (249 PA)

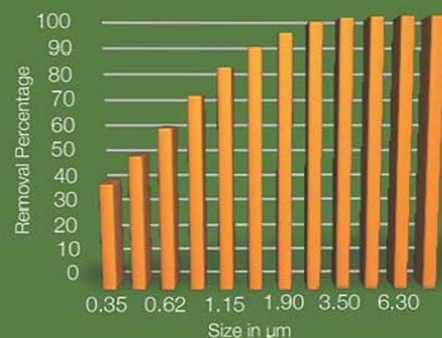
APPROXIMATE SQUARE FEET OF MEDIA AREA

(per Square Feet of Face Area)

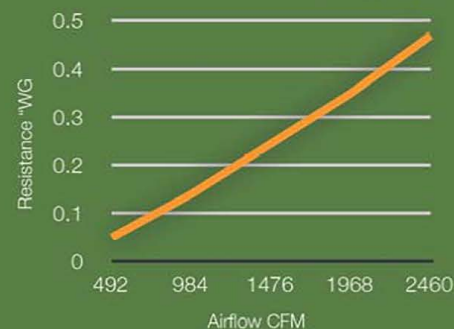
TWO INCH DEEP (51 mm) = 5.3 Sq Ft (0.49 m²)

FOUR INCH DEEP (102 mm) = 7.2 Sq. Ft. (0.67 m²)

Composite Minimum Efficiency



Initial Resistance - 24x24x2



Tri-Dim Filter Corporation is committed to continual product development – all descriptions, specifications and performance data are subject to change without notice.

Tri-Dim products are manufactured to exacting criteria - there can be a ±5% variance in filter performance. LEED® is a Registered Trademark of the U.S. Green Building Council.

Tri-Dim® and Tri-Dek® are Registered Trademarks of Tri-Dim Filter Corporation. Tri-Pleat™ is a Trademark of Tri-Dim Filter Corporation.



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BROCHURE #1900-6
Revision: 08/2014

