

Product Specification

LOADTECH® 4" DEPTH BOX HIGH CAPACITY EXTENDED SURFACE EMBOSSED PLEAT FILTERS

1.0 Scope

This specification covers extended surface, embossed pleat filters that are a component of heating, ventilating and air conditioning systems.

2.0 Construction

The filters consist of an embossed pleated synthetic media pack contained in cell sides made of high impact plastic.

2.1 Media

The media shall be made of a continuous sheet of gold, 100% synthetic fiber. The media shall be of two-layer gradient density fiber with an embossed pattern.

The media shall be water resistant. Humidity or exposure to sensible moisture shall not affect performance other than a temporary rise in resistance.

The media shall be durable and resistant to tearing or abrasion.

2.2 Embossed Media Pack

The media shall be molded into a series of preformed channels that shall form the pleats. Beads of adhesive shall be applied to the media, bonding the pleats into a rigid, pack.

2.3 Filter Frame

The cell sides shall be made of a high strength, high impact polystyrene plastic. The frame shall be moisture, chemical and corrosion resistant. The frame shall mechanically lock together at each corner.

2.4 Frame Adhesive

The media back shall be sealed into the cell sides by foamed hot-melt adhesive, preventing bypass between the pack and the frame.



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2.5 Media Area

The filters shall contain a minimum amount of media per the following schedule:

24x24x4	53 ft ²
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3.0 Performance

The filters shall meet the following minimum performance requirements per ASHRAE Standard 52.2-2017. Tests conducted at 492 FPM face velocity on 24x24 size filters shall be representative of the performance of all sizes manufactured.

Model	PLT4-M14-04-NH
Nominal Size	24 x 24 x 4
Rated Air Flow Capacity	2000 CFM
Initial Resistance @ 500 FPM	0.45" W.G.
Final Resistance	1.50" W.G.
MERV	14

4.0 Underwriters Laboratories Classification

The filters shall be classified per UL Standard 900 for flammability.

5.0 Incinerable

The filters shall be incinerable. No metal components are acceptable.

6.0 Operating Temperature Limits

The filter shall operate at temperatures up to 170 °F (76 °C) without materially affecting filter integrity or performance.

