



MICRO SHIELD®

2" and 4" Die Cut Mini-Pleated Filters



CI **MICRO SHIELD®** Mini-Pleated Filters are engineered with superior performance criteria in all facets of filtration including efficiency, resistance and dust-holding capacity to address today's challenging HVAC system requirements.

As a part of CI's advanced and innovative line of HVAC filtration products, **MICRO SHIELD®** filters combine excellent initial and lifecycle resistance with a high dust-holding capacity. This combination provides optimum filter performance — creating the energy and operating cost savings desired in the demanding HVAC market.

MERV 15/14A	2"	.30" wg Initial Pressure Drop
	4"	.21" wg Initial Pressure Drop

Description and Benefits

CI **MICRO SHIELD®** MP Filters are an economical choice for extended surface, high-efficiency air filtration requirements. Each filter utilizes a technologically advanced media that incorporates a dual-layer, gradient-density fiber structure that results in exceptionally low airflow resistance, at the highest efficiency levels — reducing both energy and operating costs.

These high-performance filters will improve indoor air quality and remove contaminants from HVAC environments. The CI **MICRO SHIELD®** MP Filters are engineered to protect both expensive HVAC equipment and people from dirty air and its damaging effects. The user-friendly filter is also fully incinerable, lightweight, durable and easy to install.

The self-supported **MICRO SHIELD®** MP Filter utilizes a geometrically formed pleat pack. Each pleat pack is further strengthened with rigid, mechanical pleat separators. The pack is then sealed into an die-cut frame. Each stage of the assembly process is quality controlled to ensure the filter's performance, consistency and durability. These design and construction features combine to produce the best all-around performance in airflow, efficiency and dust-loading uniformity.

Looking for LEED certification? The CI **MICRO SHIELD®** MP Filters are the perfect solution if you want to specify or upgrade your current filtration to meet LEED certification requirements. With these high-performance filters, your facility can gain points toward LEED certification — without incurring large operating cost increases. The CI **MICRO SHIELD®** Mini-Pleated Filter meets efficiency standards outlined in the LEED program for new construction and existing buildings.

Quick Facts

Features:

- Provides lower initial resistance
- Provides lower energy consumption and operating cost
- Meets requirements for LEED certification
- Provides an economical and high efficiency upgrade for most applications
- Fully incinerable

Applications:

- Commercial and industrial facilities
- Government and educational facilities
- Paint booth/finishing
- Hospitals, research labs and pharmaceuticals
- Airports
- Electrical manufacturing
- Power generators

Technical Information:

- Available in variety of standard sizes
- Available in MERV15/14A
- Tested in accordance with ASHRAE Test Standard 52.2-2017
- UL Standard 900 tested and approved
- Temperature rated up to 160°F

Performance Engineered Air Filter Products



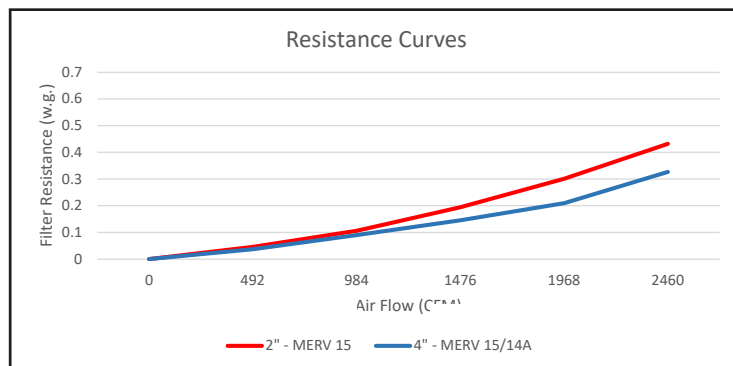
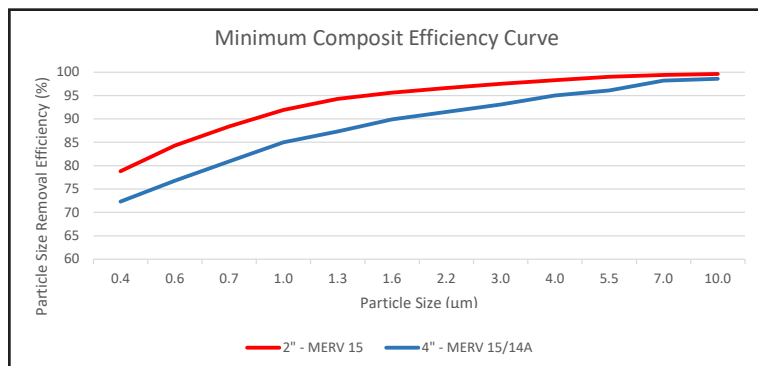
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MICRO SHIELD® 2" and 4" Die Cut Frame Mini-Pleated Filters

		Filter Size		Rated Air Flow Capacity (CFM)			Initial Air Flow Resistance (in w.g.)			Media Area
		Nominal	Exact	Low	Med	High	Low	Med	High	
2" Depth	MERV 15/14A	12 X 24 X 2	11-3/8 X 23-3/8 X 1-3/4	738	984	1230	0.2	0.3	0.43	36
		16 X 20 X 2	15-3/8 X 19-3/8 X 1-3/4	820	1093	1367	0.2	0.3	0.43	36
		16 X 25 X 2	15-3/8 X 24-3/8 X 1-3/4	1025	1367	1708	0.2	0.3	0.43	41
		18 X 24 X 2	17-3/8 X 23-3/8 X 1-3/4	1107	1476	1845	0.2	0.3	0.43	44
		20 X 20 X 2	19-3/8 X 19-3/8 X 1-3/4	1025	1367	1708	0.2	0.3	0.43	49
		20 X 24 X 2	19-3/8 X 23-3/8 X 1-3/4	1230	1640	2050	0.2	0.3	0.43	59
		20 X 25 X 2	19-3/8 X 24-3/8 X 1-3/4	1281	1708	2135	0.2	0.3	0.43	52
		24 X 24 X 2	23-3/8 X 23-3/8 X 1-3/4	1476	1968	2460	0.2	0.3	0.43	72
4" Depth	MERV 15/14A	12 X 24 X 4	11-3/8 X 23-3/8 X 3-3/4	738	984	1230	0.12	0.21	0.33	33
		16 X 20 X 4	15-3/8 X 19-3/8 X 3-3/4	820	1093	1367	0.12	0.21	0.33	38
		16 X 25 X 4	15-3/8 X 24-3/8 X 3-3/4	1025	1367	1708	0.12	0.21	0.33	47
		18 X 24 X 4	17-3/8 X 23-3/8 X 3-3/4	1107	1476	1845	0.12	0.21	0.33	47
		20 X 20 X 4	19-3/8 X 19-3/8 X 3-3/4	1025	1367	1708	0.12	0.21	0.33	47
		20 X 24 X 4	19-3/8 X 23-3/8 X 3-3/4	1230	1640	2050	0.12	0.21	0.33	57
		20 X 25 X 4	19-3/8 X 24-3/8 X 3-3/4	1281	1708	2135	0.12	0.21	0.33	59
		24 X 24 X 4	23-3/8 X 23-3/8 X 3-3/4	1476	1968	2460	0.12	0.21	0.33	69

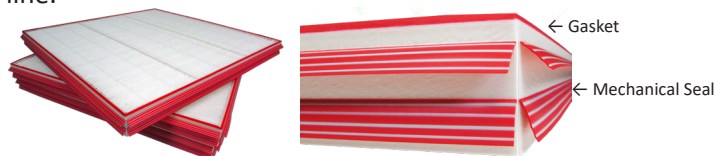
*Additional Sizes Available. Contact CI for Information.



Need Gasketing?

2" Filters

CI 2" Die Cut filters are only available in a non-gasketed formation. For a 2" gasketed filter, we suggest CI **MICRO SHIELD® ZERO-BYPASS™**. These mini-pleated filters offer a 3-in-1 gasket solution as a permanent part of the plastic filter frame. Side, upstream, and downstream seals are achieved through the patented gasket and mechanically-sealing fins that come as a standard part of the premium **ZERO-BYPASS™** line.



4" Filters

CI 4" mini-pleated filters are also available in a durable plastic housing. These filters feature a newly-designed, stronger frame that is available with or without headers. Upstream, downstream, and side gasketing can also be added, per your need.

