

## CI 4" MICRO SHIELD™ Mini-Pleated Filters MERV 14 & 15



CI 4" **MICRO SHIELD™** MP 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 the most advanced and innovative line of HVAC filtration products, the CI 4" **MICRO SHIELD™** MP Filter combines an 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. The CI 4" **MICRO SHIELD™** MP Filter is backed by the outstanding customer service and on-time delivery that customers have come to expect from Columbus Industries.

### Description and Benefits

CI 4" **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 4" **MICRO SHIELD™** MP Filter is engineered to protect both expensive HVAC equipment and workers from dirty air and its damaging effects.

The user-friendly filter is also fully incinerable, lightweight, durable and easy to install.

The self-supported 4" **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 a heavy-duty, moisture-resistant kraft board 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 4" **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™** 4" 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
- Provides lower operating cost
- Meets requirements for LEED certification
- Provides an economical and higher efficiency upgrade for most applications

#### Applications:

- Commercial and industrial facilities
- Pharmaceutical
- Government and educational facilities
- Hospitals
- Paint booth/finishing

#### Technical:

- Available in variety of standard sizes
- Available in MERV 14 and 15
- Tested in accordance with ASHRAE Test Standard 52.2-2007
- UL Standard 900 tested and approved
- Temperature rated up to 160°F
- Fully incinerable

# CI 4" MICRO SHIELD™ Mini-Pleated Filters

	Filter Size Nominal	Filter Size Exact	Rated Air Flow Capacity (CFM)			Initial Air Flow Resistance (in w.g.)			Media Area Std
			Low	Med	High	Low	Med	High	
MERV 14	12x24x4	11-3/8x23-3/8x3-3/4	600	1000	1250	0.11	0.21	0.30	33
	16x20x4	15-3/8x19-3/8x3-3/4	660	1100	1380	0.11	0.21	0.30	38
	16x25x4	15-3/8x24-3/8x3-3/4	834	1110	1740	0.11	0.21	0.30	47
	20x20x4	19-3/8x19-3/8x3-3/4	830	1390	1740	0.11	0.21	0.30	47
	20x24x4	19-3/8x23-3/8x3-3/4	1000	1670	2080	0.11	0.21	0.30	57
	20x25x4	19-3/8x24-3/8x3-3/4	1040	1730	2170	0.11	0.21	0.30	59
	24x24x4	23-3/8x23-3/8x3-3/4	1200	2000	2500	0.11	0.21	0.30	69
MERV 15	12x24x4	11-3/8x23-3/8x3-3/4	600	1000	1250	0.12	0.24	0.33	33
	16x20x4	15-3/8x19-3/8x3-3/4	660	1100	1380	0.12	0.24	0.33	38
	16x25x4	15-3/8x24-3/8x3-3/4	834	1110	1740	0.12	0.24	0.33	47
	20x20x4	19-3/8x19-3/8x3-3/4	830	1390	1740	0.12	0.24	0.33	47
	20x24x4	19-3/8x23-3/8x3-3/4	1000	1670	2080	0.12	0.24	0.33	57
	20x25x4	19-3/8x24-3/8x3-3/4	1040	1730	2170	0.12	0.24	0.33	59
	24x24x4	23-3/8x23-3/8x3-3/4	1200	2000	2500	0.12	0.24	0.33	69

