

Cleanroom Design Criteria

Criteria	ISO Class 3	ISO 4	ISO 5	ISO 6	ISO 7	ISO 8
	209E Class 1	Class 10	Class 100	Class 1,000	Class 10,000	Class 100,000
Filter Coverage	100%		80 to 100%	25 to 50%	15 to 30%	5 to 15%
Average FPM	75-100 FPM	60-90 FPM	50-80 FPM	20-40 FPM	8-20 FPM	4-8 FPM
Air Changes / Hour	720	600 - 720	500 – 650	180 – 240	60 – 120	30
Filter Rating	99.9999%	99.999%	99.99%			
Particle Size	0.12 & 0.3µm		0.3 & 0.5µm		0.5 & 5.0µm	
Ceiling Design	Modular / T-Bar			T-Bar		
Grid	Aluminium 2" Gel Seal Ceiling System		2" Aluminium Ceiling System	1½" Steel gasketed		
Grid Support	Allthread with Strut & Turnbuckles			12 ga wire to grid, 10 ga wire to filter, @ Corner of Grid Intersection Only		
Ceiling Panel	Cleanroom Blank Aluminium Panels			Cleanroom Approved, Vinyl Covered, or Blank Aluminium		
Miscellaneous	100% Filtration		Holddown clips on all non access related panels			
Wall System	Aluminium Component			Aluminium Component or Metal Stud		
Wall Panels	Honeycomb Aluminium Conductive Finish			Aluminium Polystyrene Core or Epoxy Coated Steel laminated over drywall		Vinyl or Epoxy Coated Drywall
Paint	Epoxy			Epoxy / Latex		Latex
Floor	Mipolam			Mipolam / Epoxy Solids	Epoxy Solids or Sheetvinyl	
Base	6" Cove			4" Cove		
Raised Floor	Perforated / Grated Access			Perforated / Grate Optional		
Air Return	Floor / Low Wall			Low Wall		Low Wall or Ceiling
Air Return Registers	Floor Grilles with Optional Balancing Dampers			Filter Grilles or Balancing Grilles		Egg crate

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