

Cleanroom Design Criteria cGMP & Pharmaceutical

Classification (Former Fed Std 209E)	ISO Class 5 (100)	ISO Class 6 (1,000)	ISO Class 7 (10,000)	ISO Class 8 (100,000)
Pharma	Grade A	Grade B	Grade C	Grade D
Filter Coverage	60 to 100%	30 to 60%	15 to 30%	5 to 15%
Air Changes	200 - 540	60 - 160	30 - 50	15 - 30
Average FPM	30 - 90 FPM	9 - 24 FPM	4.5 - 7.5 FPM	2.5 - 4.5 FPM
Filter Rating	99.99%			
Ceiling Design	T-Bar			
Grid	2" - 3" T Bar Ceiling System			1½" Steel Gasketed T Bar
Grid Support	All-thread with Strut & Turnbuckles			12 GA Wire to Grid
Ceiling Panel	Cleanroom Blank Aluminium Panels			Vinyl Faced Gypsum Panels Foil Back Covered, all joints sealed or vinyl tape
Wall System	Demountable - Non Progressive Aluminum Component System Flush or Co-Extruded PVC Batten			
Wall Panels	Aluminum Honeycomb Panel (ULC S-102 Compatible)			Vinyl Coated Drywall or frp
Floor	Cold Welded Rubber - MMA - Epoxy Solids or Hot Weld Seamless Vinyl			
Base - Ceiling & Corners	Coved Corners			
Air Return	Low Wall			Low Wall or Ceiling
Air Return Grilles	Return Air Grilles with (a) Optional Balancing Dampers and or (b) Return Air Filters, as per the system requirements, typically ducted with sloped RA Duct			
Return Air Containment	HEPA Filtration if required for containment			