

Seamless Environments™



For Life Sciences
by
Channel Systems™

Seamless Environment Components



MODULAR ROOMS –

CHANNEL SYSTEMS SEAMLESS ENVIRONMENTS are a single source solution to your Life Science facilities needs. Through our world-wide manufacturing group, we can offer one of the fastest lead times in the Life Sciences Industry. Channel Systems can deliver cGMP modular cleanrooms from simple stand alone units to new environments incorporated into your existing facilities. Our Seamless Environment products are of the highest quality, meet FDA requirements, and are adaptable for the future need



Turnkey solutions include: Complete design and Auto-cad drawings; Energy efficient HVAC; Positive or negative pressure rooms; Ducted or motorized HEPA (FFU) to 99.999% efficient @ .12 mu; Full controls package with monitoring and alarm integration; Electrical, Plumbing, Fire protection, as well as certification and validation.

Seamless Partitions 4.0 and 5.0



WALLS – CHANNEL SYSTEMS’ patented, coved wall, Seamless Partitions 4.0 and 5.0, and BioWall 2.3 allow multiple options in function and cost. Transitions between floor, walls and ceiling can be welded, rubberized or caulked. Finishes include: Stainless steel; PVC vinyl; Polypro; HPL; Aluminum, or steel with anti-microbial epoxy paint. Rubberized or aluminum tread plate, Polypro and PVC can be used for high impact areas. Our Seamless Partitions also have 4 different sized Utility Studs to incorporate pre-plumbed/pre-wired outlets anywhere in the room. Great for last minute, or future changes of equipment. Our aluminum honeycomb core wall panels have zero out-gassing and Class A/1/0 fire rated. Other core options available are urethane foam, mineral board, gypsum, etc.

Bio-Wall 2.3



WALL PANEL CW DOUBLE GLAZING WINDOW



COVING FINISHES FOR FLOOR, WALL AND CEILING



AMINO ACID AND MIXING ROOM



Doors and Windows— Channel Systems manufactures a complete line of aluminium and stainless steel doors for any cleanroom application. All door hardware, power, and interlock options are available. We also provide a number of window options, including single- and double- flush glazing glass, safety glass and UV-filtration. We offer a full height Window Wall, for high visibility areas.



Utilities



AD 2000 Flush Grid with Lighting



Ceiling Grids— Our AD 2000 Walkable Flush Grid is UL listed and costs about the same as traditional lighting. We stock 12' and 16' Light Mods pre-assembled and pre-wired. Channel Systems' 2" Tech Grid comes either gel or gasketed. This 2" ceiling systems supports 48 lbs./sq. ft. on 4' x 4' rod drop configurations. Series 5200 and 6200 have a continuous 1/4" screw boss and series 7200 and 8200 are a flat bottom connection. We also have In-grid sprinkler/utility drops (FM approved). We also offer the series 1500 1-1/2" grid as a lower-cost option for less stringent designs.



HVAC and Air handlers



Plenum Cap and Trusses

Walkable with clear spans to meet your company's needs.



Softwall Systems— Channel Systems offers Class 10 to Class 100,000 softwall enclosures in standard sizes, 8'x 8', 10'x 10', or 12'x 12', or in any footprint. The enclosures are shipped in kit form and can be assembled in minutes. Whether it's strips to divide work areas, softwall panels, or complete rooms with HVAC, Channel Systems can supply to your requirements. Call or email us for a quote today.





Channel Systems unique vacuum process eliminates volatile organic materials from the honeycomb panels. Test samples are placed in a sealed vial and heated to 100 degrees C for 30 minutes. The headspace above the the samples is then analyzed by gas Chromatography / Mass Spectrometry to determine the presence of any organic outgassing materials.

Sample	Total Organics Detected (ppm in headspace)	Organic Compounds In Outgassing
Powder Coating	<0.01	NONE
Roll Coating	<0.01	NONE
Honeycomb Core	<0.01	NONE
Adhesive	<0.01	NONE

FLAME SPREAD CLASSIFICATION AND SMOKE DENSITY DEVELOPED

Channel Systems Cleanroom Wall Panels were tested in accordance with ASTM Designation E84-97a, "Standard Method of Test for Surface Burning Characteristics of Building Materials". This test procedure is comparable UL 723, ANSI/NFPA No. 225, and UBC No. 8-1.

TEST RESULTS		
SAMPLE IDENTIFICATION	FLAME SPREAD	SMOKE DENSITY
CWP-025 1/4" Honeycomb Panel	5	5
CWP-175 1-3/4" Honeycomb Panel	5	5
FLAME SPREAD CLASSIFICATION		
SAMPLE IDENTIFICATION	UBC CLASS	NFPA CLASS
CWP-025 1/4" Honeycomb Panel	1	A
CWP-175 1-3/4" Honeycomb Panel	1	A



invent



FiberSIM



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