



Critical Environment Control

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Classification of Air Cleanliness

Company

Circor Aerospace Inc
2301 Wardlow Circle
Corona, CA 91720

Test Specification

ISO 14644-1 (2015-12-15)

Test Area

Cleanroom 1

Date of Certification

July 6, 2020

Certification Expires

July 15, 2021

Designation Criterion for Cleanrooms in this Test Area

ISO Class 7: Considered Size: 0.5 μm (352,000 particles/m³)

Facility	M ³ 0.5 μm	M ³ 5.0 μm	Relative Humidity	Temperature	Certification	Occupancy State
Cleanroom 1	1,843	61	56.0%	70.0	ISO Class 7	At Rest

This ISO Class Certification compares the results of this test to maximum concentrations delineated in Table 1, ISO 14644-1. The number of test samples taken are pursuant to A.4.1. One sample test is taken at each test location. The cleanroom is deemed to have met the Specified ISO Class if the number of particles/cubic meter at each sample location does not exceed the limits delineated in Table 1 (A.6.2.1)

Testing was performed with a Climeet Instruments Airborne Particle Counter. This instrument is calibrated at manufacturers recommended intervals. This instrument has been calibrated in accordance with ISO 10012-1 and ANSI Z540-1 (Which replaces MIL-STD-45662A). Calibration traceability to a National Measurement Standard (NMS) is established by using mono-disperse latex spheres as a calibration standard. These spheres are sized by methods traceable, by lot number, to the National Institute of Standards and Technology.

All Particle Counters have a current calibration decal and / or evidence of calibration on the instrument display. A copy of the Calibration Certificate will be provided to you on request.

Critical Environment Control certifies that the test results recorded on this document are accurate as of the time of this test. Critical Environment Control hereby certifies that the above described systems met the acceptance criterion for the Air Cleanliness Classes delineated above.

Critical Environment Control



Critical Environment Control Test Results

Company

Area Tested

Test Specifications

ISO Class Designation	ISO Class 7	Samples / Test Point	1
Considered Particel Size	0.5µm	Airflow Rate (Liters / Minute)	28.3
Maximum Particles / M ³	352,000	Minimum Sample (Liters)	0.057
Number of Test Points	14	Actual Sample (Liters)	28

Test Data

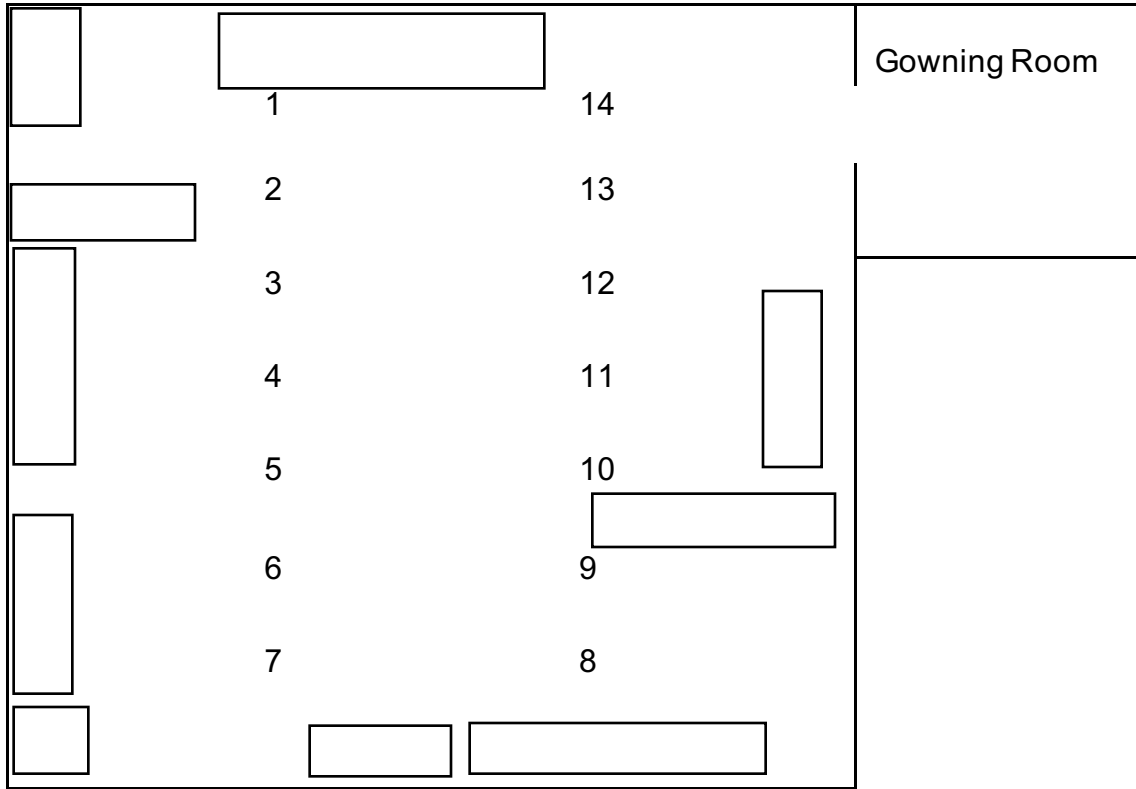
Date Tested:	07/06/2020	Occupancy State:	At Rest
Certification Expires	07/15/2021	People in Rm:	1
Time of Test:	8:58 AM	Room Size:	39 M ²

Test Point	28.3 L 0.5µm	M ³ 0.5µm		28 L 5.0µm	M ³ 5.0µm	RH	Temperature F°
1	17	600	<i>Pass</i>	3	106	56%	70
2	54	1,906	<i>Pass</i>	3	106	56%	70
3	28	988	<i>Pass</i>	0	0	56%	70
4	52	1,836	<i>Pass</i>	1	35	56%	70
5	28	988	<i>Pass</i>	2	71	56%	70
6	86	3,036	<i>Pass</i>	1	35	56%	70
7	130	4,589	<i>Pass</i>	3	106	56%	70
8	31	1,094	<i>Pass</i>	1	35	56%	70
9	57	2,012	<i>Pass</i>	0	0	56%	70
10	37	1,306	<i>Pass</i>	2	71	56%	70
11	43	1,518	<i>Pass</i>	2	71	56%	70
12	47	1,659	<i>Pass</i>	1	35	56%	70
13	105	3,707	<i>Pass</i>	4	141	56%	70
14	16	565	<i>Pass</i>	1	35	56%	70

Test Results

0.5µm M ³ Average	5.0µm M ³ Average	RH	Temperature F°	Certification	Occupancy State
1,843	61	56%	70	ISO Class 7	At Rest

Critical Environment Control Particle Count Location Map



Circor Aerospace Inc
2301 Wardlow Circle
Corona, CA 91718

Reference: CR #1