

Indoor Air Quality - Furniture

2024 Renewal Certification Assessment

SCS Environmental Certification Services

Prepared for:

Artcobell

Headquartered in Temple, Texas

**Seating, Screens and Accessories, Storage,
Tables/Desks**

Project Work Order: WO-262904

August 29, 2024



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Indoor Air Quality Renewal Certification Assessment

SCS Global Services, Environmental Certification Service completed an Indoor Air Quality certification assessment of Artcobell's products manufactured in Temple, TX. The lead auditor has completed a full assessment of the quality management assessment of each manufacturing site and product emissions review to determine conformance to SCS-105 Indoor Air Quality Performance Standard, CDPH/EHLB Standard Method (CA 01350) v1.2-2017 and ANSI/BIFMA M7.1/X7.1 Furniture Emission Standard. The results of the assessment are included within this assessment report.

This certification assessment has been completed in accordance with SCS' quality management system, ISO 19011 standard auditing practices, ISO/IEC 17065 and has been approved by the program manager. If there is a disagreement with the certification decision, please contact the Lead Auditor directly.

Authorized Signatures

AUDITOR INFORMATION			
Lead Auditor	Holly Bajko, Program Manager hbajko@scsglobalservices.com +1.831.421.1200	Date	August 29, 2024
SCS FINAL REVIEWER SIGNATURE			
SCS Decision Maker	Rob Emelander, Program Manager remelander@scsglobalservices.com +1.616.502.6090		
Signature		Date	Aug. 29, 2024

Executive Summary

Assessment Scope

Artcobell’s products and associated manufacturing site assessed for Indoor Advantage™ Gold certification are detailed in the associated work order, WO-262904. A **CHANGE OF SCOPE** was required to include additional product line configurations, which is detailed in the 2024 IAQ DRF. The new materials do not have any impact on emissions, thereby did not impact the work order fees or assessment scope.

Client Requests from the Document Request Form

SCS CERTIFICATE NUMBER	PRODUCT NAME	ACTION REQUESTED	MATERIAL DESCRIPTION	REFERENCE DOCUMENTS/TEST REPORTS	AUDITOR DECISION	AUDITOR RATIONALE
SCS-IAQ-09371	AMTC Series	ADD	TFL; mobile cubbies	Artcobell_2024_IAQ_DRF_client.xls	Approved	This product uses similar materials and construction processes as other certified products only in a different configuration and is expected to have similar emissions. For this reason, this product can be added to the certification.
SCS-IAQ-09371	ASCL Series	ADD	TFL; coat locker	Artcobell_2024_IAQ_DRF_client.xls	Approved	This product uses similar materials and construction processes as other certified products only in a different configuration and is expected to have similar emissions. For this reason, this product can be added to the certification.

SCS-IAQ-03678	Alphabet Series	Remove	N/A	Artcobell_2024_IAQ_DRF_client.xls	Approved	N/A
SCS-IAQ-03678	C500 Series	Remove	N/A	Artcobell_2024_IAQ_DRF_client.xls	Approved	N/A
SCS-IAQ-03678	C800 Series	Remove	N/A	Artcobell_2024_IAQ_DRF_client.xls	Approved	N/A
SCS-IAQ-03678	Discover D-Series Open Front Student Desk	Remove	N/A	Artcobell_2024_IAQ_DRF_client.xls	Approved	N/A
SCS-IAQ-03678	Discover Shape Tables	Change to "DTT-Series"	N/A	Artcobell_2024_IAQ_DRF_client.xls	Approved	N/A
SCS-IAQ-03678	Student Desk: SA Series	SA Series	N/A	Artcobell_2024_IAQ_DRF_client.xls	Approved	N/A
SCS-IAQ-03678	DHT Series	Move from Tables to Student Desks	N/A	Artcobell_2024_IAQ_DRF_client.xls	Approved	N/A
SCS-IAQ-03677	NXT MOV: Catilever Chair	Change to "NXT MOV: Cantilever Chair"	N/A	Artcobell_2024_IAQ_DRF_client.xls	Approved	N/A

Quality Management System Review

No changes were made to the client's Quality Management System per the Document Request Form submitted.

Certification Assessment Results

Emissions Summary and Recommendations

Tested Product/Material	Arise Podium worksurface
Lab Report #	105868905GRR-001
Manufacturing Site(s)	Artcobell Corp/Texas, USA
Model Type	Individual Furniture Component; pupil desking
Sample Result Summary	Product complies with all indoor air quality emissions criteria except 7.6.3 Open Plan and CA 01350 Open Plan.
Sample Plan Rationale	The worksurface sample was the expiring worst-case representative for all tables, desking, and storage. Represents SCS-IAQ-03678 and SCS-IAQ-09371.
Reference Documentation	

			Indoor Advantage™		Indoor Advantage™ Gold				
			168-hour Maximum Allowable		336-hour Maximum Allowable				
Compound Emission Factor (µg/m ² -hr)	168-hour Actual	336-hour Predicted	ANSI/BIFMA M7.1/X7.1 (ANSI/BIFMA e3 7.6.1) Open Plan	ANSI/BIFMA M7.1/X7.1 (ANSI/BIFMA e3 7.6.1) Private Office	CA 01350 Open Plan	ANSI/BIFMA e3 7.6.2 Open Plan	ANSI/BIFMA e3 7.6.2 Private Office	ANSI/BIFMA e3 7.6.3 Open Plan	ANSI/BIFMA e3 7.6.3 Private Office
Acetaldehyde	--	19.30	--	--	48	48	97	--	--
Formaldehyde	12.40	10.97	42.3	85.1	6.2	11	23	6.2	12.5
Phenol	--	50.23	--	--	69	69	139	--	--
Styrene	--	0.53	--	--	310	310	627	--	--
Toluene	--	0.33	--	--	103	103	209	--	--
Phenylcyclohexene (4-PCH)	0.00	--	4.5	9.0	--	--	--	--	--
TOTAL VOC	116.60	--	345	694	--	--	--	--	--
TOTAL Aldehydes (in umol/m ² -hr)	0.58	--	2.8	5.7	--	--	--	--	--
RESULT			PASS	PASS	FAIL	PASS	PASS	FAIL	PASS

	Indoor Advantage™ Gold	
	CA 01350 School Classroom Scenario	
Compound Concentration (µg/m³)	Modeled	Maximum Allowable
Acetaldehyde	0.76	70
Phenol	1.97	100
Formaldehyde	0.53	9
TOTAL VOC	--	--
TOTAL Aldehydes (ppb)	--	--
RESULT	PASS	

Lab Testing Requirements

The table below is a checklist of the standard requirements for product testing and report results according to SCS-105 Indoor Air Quality Performance Standard and ANSI/BIFMA M7.1/X7.1.

REQUIREMENT	SUPPORTING DOCUMENTATION	AUDITOR KEY FINDINGS	CONFORMANCE ISSUE
Laboratory is a qualified ISO 17025 certified laboratory. [Reference: SCS-105 Section 6.2]	105868905GRR-001.pdf	Intertek is an SCS-approved lab.	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR
The manufacturer has submitted results in accordance with ANSI/BIFMA M7.1/X7.1 [Reference: SCS-105 Section 6.2]	105868905GRR-001.pdf	Requirement met.	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR
Samples for testing are selected by a SCS auditor or a person authorized by SCS. [Reference: SCS-105 Section 6.1]	Email: Artcobell 2024 Sample Plan	Sample selected by an SCS Lead Auditor.	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR
The samples are selected from a production lot that is representative of the processes and quality the manufacturer intends to present to the market. [Reference: SCS-105 Section 6.2]	105868905GRR-001.pdf	Small-scale samples represent the typical production process.	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR
Samples submitted to the laboratory are in accordance with ANSI/BIFMA M7.1/X7.1. [Reference: SCS-105 Section 6.2]	105868905GRR-001.pdf	Requirement met.	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR

Indoor Air Quality Certification Summary

The following table details the conformance and product categories that have met Indoor Advantage™ Gold product certification requirements. Products that have met Indoor Advantage™ Gold certification also comply with the following criteria: Collaborative for High Performance Schools (CHPS) 2009 Criteria, EQ2.2.3; and USGBC LEED 2009 and V4 criteria for low emitting materials (Furniture).

The certification date range for the products certified below is September 10, 2024 through September 9, 2025.

CERTIFICATE NUMBER	PRODUCT CATEGORY	CERTIFICATE CHANGES	CONFORMANCE	QUALIFICATIONS
SCS-IAQ-03677	Seating	(Changes) See Table Above	(CHANGE) Indoor Advantage™ Gold Indoor Air Quality Certified to SCS-105 v4.2 Conforms to the ANSI/BIFMA Furniture Emissions Standard (M7.1/X7.1-2011 R2021) and ANSI/BIFMA e.3-2019 (Credits 7.6.1, 7.6.2, 7.6.3) for seating parameters.1 Also, conforms to the CDPH/EHLB Standard Method (CA 01350) v1.2-2017 for seating1 and school classroom2 parameters. 1 Modeled as Office Seating 2 Modeled as Pupil Seating	None
SCS-IAQ-03678	Tables/ Desking	(Remove) Alphabet Series, C500 Series, C800 Series, Discover D-Series Open Front Student Desks (Changes) See Table Above	(CHANGE) Indoor Advantage™ Gold Indoor Air Quality Certified to SCS-105 v4.2 Conforms to the ANSI/BIFMA Furniture Emissions Standard (M7.1/X7.1-2011 R2021) and ANSI/BIFMA e.3-2019 (Credits 7.6.1, 7.6.2) for the open plan and (Credits 7.6.1, 7.6.2, 7.6.3) private office workstation parameters.1 Also, conforms to the CDPH/EHLB Standard Method (CA 01350) v1.2-2017 for the school classroom2 parameters. 1 Modeled as Individual Furniture Components 2 Modeled as Pupil Desks	None
SCS-IAQ-03679	Screens and Accessories	None	(CHANGE) Indoor Advantage™ Gold Indoor Air Quality Certified to SCS-105 v4.2 Conforms to the ANSI/BIFMA Furniture Emissions Standard (M7.1/X7.1-2011 R2021) and ANSI/BIFMA e.3-2019 (Credits 7.6.1, 7.6.2, 7.6.3) for the open plan and private office workstation parameters.1 Also, conforms to the CDPH/EHLB Standard Method (CA 01350) v1.2-2017 for the open plan and school classroom2 parameters. 1 Modeled as Individual Furniture Components 2 Modeled as Pupil Desks	None

SCS-IAQ-09371	Storage	(ADD) AMTC Series, ASCL Series	(CHANGE) Indoor Advantage™ Gold Indoor Air Quality Certified to SCS-105 v4.2 Conforms to the ANSI/BIFMA Furniture Emissions Standard (M7.1/X7.1-2011 R2021) and ANSI/BIFMA e.3-2019 (Credits 7.6.1, 7.6.2) for the open plan and (Credits 7.6.1, 7.6.2, 7.6.3) private office workstation parameters.1 Also, conforms to the CDPH/EHLB Standard Method (CA 01350) v1.2-2017 for the school classroom2 parameters. 1 Modeled as Individual Furniture Components 2 Modeled as Pupil Desks	None
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Product Conformance Summary

No production or quality management system conformance issues were identified in this audit. The client continues to perform as a low-risk manufacturer and has reported a reduced emission profile for this assessment by submitting samples that have followed a typical manufacturing procedure versus a rush production procedure.

Appendix – Renewal Audit Recommendations

Renewal Sample Selection

The following table represents suggested sample selections for emissions testing. The frequency and required number of samples is dependent on the quality management systems review per manufacturing site and emissions history review completed during each renewal assessment by the auditor. At a minimum, the recommended sample plan is based on renewal testing at a three-year frequency, unless there have been changes to the materials, production, or quality management system that could increase the emissions profile of the representative product for each product category.

Testing should not be required during the 2025 assessment pending no major material production, supplier, or quality management changes.

PRODUCT CATEGORY	PRODUCT LINE/MATERIAL	RENEWAL YEAR	AUDITOR RATIONALE
Seating	TBD	TBD	MOV Stool was tested to represent the seating products, as all bent plywood seating products have been discontinued and removed from the certification. Seating products have been confirmed to be non-emitters because of this testing. Per the BIFMA Standard, non-emitters do not need to be retested unless major production changes are made.
Tables/ Desking and Storage	Arise Podium Worksurface	2027	Representative worst-case samples expire three years after testing. These products will need to be tested during the referenced certification year for continued certification.
Screens and Accessories	TBD	TBD	Hand Held Markerboard was tested to represent the accessories product. Accessories have been confirmed to be non-emitters because of this testing. Per the BIFMA standard, non-emitters do not need to be retested unless major production changes are made.