

Indoor Air Quality - Furniture

2021 Renewal Certification Assessment

SCS Environmental Certification Services

Prepared for:

Artcobell

Headquartered in Temple, TX

Seating, Tables/Desking, Screens and Accessories

Project Work Order: ART-21-04

August 31, 2021



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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 Seating, Tables/Desking, Screens and Accessories 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 EC 10.3 - 2014 Indoor Air Quality Performance Standard, CDPH/EHLB Standard Method (CA 01350) v1.2-2017 and ANSI/BIFMA M7.1/X7.1-2011 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 Name	Rob Emelander, Senior Technical Associate remelander@scsglobalservices.com +1.616.502.6090	Date	August 31, 2021
SCS FINAL REVIEWER SIGNATURE			
SCS Decision Maker	Erik Hanba, Operations Director ehanba@scsglobalservices.com +1.510.421.1540		
Signature		Date	August 31, 2021

Executive Summary

Assessment Scope

Artcobell products and associated manufacturing site assessed for Indoor Advantage™ Gold certification is detailed in the associated work order, ART-21-04. A **CHANGE OF SCOPE** was required to include additional product line configurations, which is detailed in the 2021 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	Auditor Decision	Auditor Rationale
SCS-IAQ-03677	Discover: D15 SERIES	Add	Metal frame with polypropylene shell	Artcobell_2021_IAQ_DRF_client.xls	Approved	Worst case is the Alphabet chair with molded plywood seat. This chair does not contain any wood and therefore can be added to certification.
	NXT MOV: CANTILEVER CHAIR	Add	Metal frame with polypropylene shell; optional vinyl upholstery	Artcobell_2021_IAQ_DRF_client.xls	Approved	Worst case is the Alphabet chair with molded plywood seat. This chair does not contain any wood and therefore can be added to certification.
	NXT MOV: FOUR LEG CHAIR	Add	Metal frame with polypropylene shell; optional vinyl upholstery	Artcobell_2021_IAQ_DRF_client.xls	Approved	
	NXT MOV: FOUR LEG CASTER CHAIR	Add	Metal frame with polypropylene shell; optional vinyl upholstery	Artcobell_2021_IAQ_DRF_client.xls	Approved	
	NXT MOV: FOUR LEG STOOL	Add	Metal frame with polypropylene shell; optional vinyl upholstery	Artcobell_2021_IAQ_DRF_client.xls	Approved	
	NXT MOV: TASK CHAIR AND STOOL	Add	Metal frame with polypropylene shell; optional vinyl upholstery	Artcobell_2021_IAQ_DRF_client.xls	Approved	

SCS-IAQ-03678	Student Desks: NXT MOV	Add	Laminate worktop with metal legs.	Artcobell_2021_IAQ_DRF_client.xls	Approved	This product uses the same worktop as arise podium, only in a different configuration.
	Tables: DHT Series	Add	Laminate worktop with metal legs.	Artcobell_2021_IAQ_DRF_client.xls	Approved	This product uses the same worktop as arise podium, only in a different configuration.
SCS-IAQ-03679	Makerspace End Panels	Add	Plastic and metal storage unit with trays	Artcobell_2021_IAQ_DRF_client.xls	Approved	Product contains only non-emitters, therefore no additional testing is required.
	Makerspace Shelf Kits	Add	Plastic and metal storage unit with trays	Artcobell_2021_IAQ_DRF_client.xls	Approved	Product contains only non-emitters, therefore no additional testing is required.
	Poly Book Box	Add	Polypropylene book box for underdesk storage	Artcobell_2021_IAQ_DRF_client.xls	Approved	Product contains only non-emitters, therefore no additional testing is required.

Products to Remove at Renewal

SCS Certificate number	Product Name	Rationale
SCS-IAQ-03677	ALPHABET ASMOVCVR	Client Request
	ALPHABET ASQUBE	Client Request
	BLOC & STP	Client Request
	DISCOVER D000 SERIES SLED STACKING CHAIR	Client Request
	DISCOVER DS00 SERIES HD STACK CHAIR	Client Request
SCS-IAQ-03678	2100 SERIES	Client Request
	7A SERIES	Client Request
	7KD SERIES	Client Request
	9500 SERIES	Client Request
	ALPHABET FOUR LEG STUDY DESK	Client Request
	DISCOVER D-SERIES\TRI-TOP STUDY DESKS	Client Request
	DISCOVER SHAPE STUDENT DESKS	Client Request
	UNIFLEX 2900 SERIES FOUR LEG STUDY DESK	Client Request
	UNIFLEX 7 SERIES FOUR LEG STUDY DESK	Client Request
SCS-IAQ-03679	MEDIA HOLDER	Client Request
	MPS SERIES	Client Request
	PDC SERIES	Client Request
	SLIDING KEYBOARD TRAYS	Client Request
	UNDERSEAT WIRE BOOK BASKET	Client Request

Products Name Changes at Renewal

SCS Certificate number	Current Product Name	New Product Name
SCS-IAQ-03677	PLASTIC TOP 08 SERIES FOUR LEG STOOL	POLY TOP 08 SERIES FOUR LEG STOOL

Quality Management System Review

No changes were made to the clients Quality Management System per the Document Request Form submitted.

Certification Assessment Results

Emissions Summary and Recommendations

Tested Product/Material	Arise Podium
Lab Report #	104715196GRR-001; July 20, 2021
Manufacturing Site(s)	Temple, TX
Model Type	Workstation Component
Sample Result Summary	Product continues to comply with all indoor air quality emissions criteria.
Sample Plan Rationale	Product was retested due to expiration of past results.
Reference Documentation	Artcobell_2021_IAQ_WKBK_Arise Podium.xls

Compound Emission Factor ($\mu\text{g}/\text{m}^2\text{-hr}$)			Indoor Advantage™		Indoor Advantage™ Gold				
	168-hour Actual	336-hour Predicted	168-hour Maximum Allowable		336-hour Maximum Allowable				
			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	--	11.67	--	--	48	48	97	--	--
Formaldehyde	3.40	4.23	42.3	85.1	11	11	23	6.2	12.5
Phenol	--	25.60	--	--	69	69	139	--	--
Phenylcyclohexene (4-PCH)	0.00	--	4.5	9.0	--	--	--	--	--
TOTAL VOC	160.00	--	345	694	--	--	--	--	--
TOTAL Aldehydes (in $\mu\text{mol}/\text{m}^2\text{-hr}$)	0.34	--	2.8	5.7	--	--	--	--	--
RESULT			PASS	PASS	PASS	PASS	PASS	PASS	PASS

Lab Testing Requirements

The table below is a checklist of the standard requirements for product testing and report results according to SCS EC10.3-2014 Indoor Air Quality Performance Standard and ANSI/BIFMA M7.1/X7.1 - 2011.

REQUIREMENT	SUPPORTING DOCUMENTATION	AUDITOR KEY FINDINGS	CONFORMANCE ISSUE
Laboratory is a qualified ISO 17025 certified laboratory. [Reference: SCS-EC10.3-2014-Section 6.3.2]	104715196GRR-001.pdf	Intertek is an SCS approved laboratory.	<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 - 2012 [Reference: SCS-EC10.3-2014-Section 6.3.3]	104715196GRR-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-EC10.3-2014-Section 6.2]	Artcobell 2021 Sample Plan.msg	Sample plan created by 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-EC10.3-2014-Section 6.2]	104715196GRR-001.pdf	Small-scale samples represent the typical manufacturing 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 - 2012. [Reference: SCS-EC10.3-2014-Section 6.2]	104715196GRR-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: September 10, 2021 to September 9, 2022

CERTIFICATE NUMBER	PRODUCT CATEGORY	CERTIFICATE CHANGES	CONFORMANCE	QUALIFICATIONS
SCS-IAQ-03677	Seating	Yes, See Above	Indoor Advantage™ Gold Indoor Air Quality Certified to SCS-EC10.3-2014 v4.0 Conforms to the ANSI/BIFMA Furniture Emissions Standard (M7.1/X7.1-2011 R2016) 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/Deskings	Yes, See Above	Indoor Advantage™ Gold Indoor Air Quality Certified to SCS-EC10.3-2014 v4.0 Conforms to the ANSI/BIFMA Furniture Emissions Standard (M7.1/X7.1-2011 R2016) 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-03679	Screens and Accessories	Yes, See Above	Indoor Advantage™ Gold Indoor Air Quality Certified to SCS-EC10.3-2014 v4.0 Conforms to the ANSI/BIFMA Furniture Emissions Standard (M7.1/X7.1-2011 R2016) 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

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 reduced emission profile for this renewal 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 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.

PRODUCT CATEGORY	PRODUCT LINE/MATERIAL	SURVEILLANCE YEAR	AUDITOR RATIONALE
Seating	Plywood Alphabet 4-leg Chair / AS4L18P	2022	Representative worst case samples expire three years after testing. These products will need to be tested during the referenced certification year for continued certification.
Tables/ Desking	Arise Podium Worksurface	2024	
Screens and Accessories	TBD	TBD	Hand Held Markerboard was tested to represent the accessories product. Accessories have been confirmed to be non-emitters as a result of this testing. Per the BIFMA standard, Non-emitters do not need to be retested unless major production changes are made.