

FloorScore®

2022 Renewal Certification Assessment

SCS Environmental Certification Services

Prepared for:

Zhejiang Hoy Technology Co., Ltd.

Vinyl Tile Flooring

*Liuli Industrial Park, Ganpu Town, Haiyan County, Jiaxing City,
Zhejiang, China*

Project Work Order: #ZHY-22-S1

September 20, 2022



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FloorScore® Renewal Certification Assessment

SCS Global Services, Environmental Certification Services completed a renewal FloorScore certification assessment of Zhejiang Hoy Technology Co., Ltd.'s Vinyl Tile Flooring products manufactured in Liuli Industrial Park, Ganpu Town, Haiyan County, Jiaxing City, Zhejiang, China. 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 and CA 01350 (Standard Method v1.2, effective April 1, 2017). 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 program manager/quality manager directly.

Authorized Signatures

AUDITOR INFORMATION			
Lead Auditor Name	Wang Chuan, Auditor wangchuan@woodbasedpanel.com +86 13641135010	Date	September 14, 2022
SCS FINAL REVIEWER SIGNATURE			
SCS Decision Maker	Rob Emelander, Program Manager remelander@scsglobalservices.com +1.616.502.6090		
Signature		Date	September 20, 2022

EXECUTIVE SUMMARY

ASSESSMENT SCOPE

Zhejiang Hoy's Vinyl Tile Flooring assessment scope is detailed in the work order ZHY-22-S1.

INDOOR AIR QUALITY CERTIFICATION SUMMARY

The following table details the conformance for products that have met FloorScore® product certification requirements. Products that have met FloorScore® certification also comply with the following criteria: USGBC LEED 2008, 2009 and v4 for Low-Emitting Materials (Flooring); Collaborative for High Performance Schools (CHPS) 2009 Criteria, EQ2.2.3; ANSI/ASHRAE/USGBC/IES Standard 189.1-2014, Section 8.4.2.3: Floor Covering Materials; BREEAM International and BREEAM UK; Green Guide for Health Care 2.2 EP 3.3 and EQ 4.3; and WELL Building Standard 4.3.a: Air.

PRODUCT CATEGORY	PRODUCT LINE(S)	QUALIFICATIONS	CERTIFICATE NUMBER	CERTIFICATION PERIOD
Vinyl Tile Flooring	Loose Lay (Maximum thickness: 6mm)	TVOC Range: 0.5 mg/m ³ or less	SCS-FS-05154	October 1, 2022 to September 30, 2023
	Luxury Vinyl Tile Flooring/ LVT (Maximum thickness: 5mm)			
	Rigid Superior Vinyl Plank/ RSVP (Maximum thickness: 7mm)			
	Stone Plastic Composite Flooring/ SPC Flooring (Maximum thickness: 7mm)			

PRODUCT ASSESSMENT SUMMARY

No Non-Conformance Report (NCR) / Opportunity for Improvement (OFI) /New Information Request (NIR) were issued as a result of this assessment.

MANUFACTURING ONSITE AUDIT SUMMARY

The table below indicates the entire scope of applicable site audits, the status of site audits completed, conformance status, and rationale for site audit selection for initial and renewal years.

MANUFACTURING SITE	DATE OF LAST ONSITE AUDIT	STATUS OF NCR/NIR	AUDITOR RATIONALE
Liuli Industrial Park, Ganpu Town, Haiyan County, Jiaxing City, Zhejiang, China	Jun 21, 2018	No NCR	2022 marks the fourth renewal year of Zhejiang Hoy Technology Co., Ltd. FloorScore Certification. Per SCS EC10.3 requirements, a full quality review is required this year. During the Renewal Assessment, all quality documents were submitted and historic VOC testing emissions reviewed. This site continues to demonstrate the ability to control production through a quality management system. The auditor recommends that Zhejiang Hoy's onsite audit can be waived this time. The site will undergo a full quality review during the 2026 renewal assessment.

1.0 Product Category(ies) Assessment

The following tables provide a progressive review on how products were selected to represent the emission profile for the product category, actual emissions results, and overall product certification results.

1.1 PRODUCT TESTING SAMPLE SELECTION

The following product sample selection is based on the product formulations, ingredients/materials, production processes and known production variability.

PRODUCT CATEGORY	MANUFACTURING SITE	PRODUCT LINE	PRODUCT DETAILS	SUPPORTING DOCUMENTATION	AUDITOR RATIONALE
Vinyl Tile Flooring	Jiaxing City, China	Rigid Superior Vinyl Plank/ RSVP/ 7mm	XJ82003-4	2021 RPT	The products have the same formulation and ingredient in the product group. So the worst case was selected based on the thickness of product.
Vinyl Tile Flooring	Jiaxing City, China	Stone Plastic Composite Flooring/ SPC Flooring/ 7mm	XJ82002-7	2021 RPT	The products have the same formulation and ingredient in the product group. So the worst case was selected based on the thickness of product.

1.2 PRODUCT EMISSIONS RESULTS

The table(s) below summarize(s) the product emissions history results for Vinyl Tile Flooring for the individual volatile organic compounds (VOCs) tested for compliance to CA Specification 01350 (Standard Method v1.2, effective April 1, 2017) private office and school classroom parameters when modeled as flooring. The highlighted row indicates the current emissions results.

1.2.1 Vinyl Tile Flooring

MANUFACTURING SITE	PRODUCT LINE	LAB REPORT NUMBER AND DATE	CREL VOCs	EF ($\mu\text{g}/\text{m}^2$) at 96 hrs	PRIVATE OFFICE* RESULTS	SCHOOL CLASSROOM** RESULTS	TVOC RANGE
Jiaxing City, China	Loose lay/ 6mm	0144189209b 002/ 180821	Propylene glycol monomethyl ether	7.00	PASS	PASS	-
Jiaxing City, China	Loose lay/ 6mm	0144189209b 002/ 180821	TVOC	29.00	-	-	0.5mg/m ³ or less
Jiaxing City, China	Stone Plastic Composite Flooring/ SPC Flooring/ 7mm	0144189209a 002/ 180821	Not Detected	-	PASS	PASS	-
Jiaxing City, China	Stone Plastic Composite Flooring/ SPC Flooring/ 7mm	0144189209a 002/ 180821	TVOC	36.00	-	-	0.5mg/m ³ or less
Jiaxing City, China	Stone Plastic Composite Flooring/ SPC Flooring/ 7mm	IAQ-2020-064-FS/ 200731	Not Detected	-	PASS	PASS	-
Jiaxing City, China	Stone Plastic Composite Flooring/ SPC Flooring/ 7mm	IAQ-2020-064-FS/ 200731	TVOC	346.52	-	-	0.5mg/m ³ or less
Jiaxing City, China	Rigid Superior Vinyl Plank/ RSVP/ 7mm	IAQ-2020-065-FS/ 200731	Not Detected	-	PASS	PASS	-
Jiaxing City, China	Rigid Superior Vinyl Plank/ RSVP/ 7mm	IAQ-2020-065-FS/ 200731	TVOC	86.94	-	-	0.5mg/m ³ or less
Jiaxing City, China	Rigid Superior Vinyl Plank/ RSVP/ 7mm	IAQ-2022-056-FS/ 220816	Not Detected	-	PASS	PASS	-
Jiaxing City, China	Rigid Superior Vinyl Plank/ RSVP/ 7mm	IAQ-2022-056-FS/ 220816	TVOC	67.33	-	-	0.5mg/m ³ or less
Jiaxing City, China	Stone Plastic Composite Flooring/ SPC Flooring	IAQ-2022-057-FS/ 220816	Not Detected	-	PASS	PASS	-

JIAXING CITY, CHINA	Stone Plastic Composite Flooring/ SPC Flooring	IAQ-2022-057-FS/ 220816	TVOC	81.31	-	-	0.5mg/m ³ or less
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The results for Zhejiang Hoy’s Vinyl Tile Flooring products manufactured in Jiaxing City, China demonstrate that all 35 targeted CREL VOCs listed in the Standard Method V1.2 are below 70% of the maximum allowable limits. Therefore, these products are considered **Low Priority**. Low Priority products require renewal testing every two years after the last certification. The TVOC results also demonstrate a TVOC range of 0.5 mg/m³ or less.

1.3 Lab Testing Requirements

The table below is a checklist of the standard requirements for product testing and report results according to CDPH/EHLB Standard Method V1.2 and SCS EC10.3-2014.

REQUIREMENT	SUPPORTING DOCUMENTATION	AUDITOR KEY FINDINGS	ASSESSMENT RESULT
Laboratory is a qualified ISO 17025 certified laboratory. [Reference: SCS-EC10.3-2014-Section 6.3.2]	IAQ-2022-056-FS IAQ-2022-057-FS	The sample was tested by BQI, an ISO 17025 certified lab.	<input checked="" type="checkbox"/> No Issues <input type="checkbox"/> NCR <input type="checkbox"/> NIR <input type="checkbox"/> OFI
The manufacturer has submitted results in accordance with CDPH/EHLB Standard Method V1.2. [Reference: SCS-EC10.3-2014-Section 6.3]	IAQ-2022-056-FS IAQ-2022-057-FS	Results have been submitted in accordance with CDPH/EHLB Standard Method V1.2. Please see the attachment.	<input checked="" type="checkbox"/> No Issues <input type="checkbox"/> NCR <input type="checkbox"/> NIR <input type="checkbox"/> OFI
Samples for testing are selected by a SCS auditor or a person authorized by SCS. [Reference: SCS-EC10.3-2014-Section 6.2]	Chain of custody form	The samples were selected by Ms. Xu and collected by client.	<input checked="" type="checkbox"/> No Issues <input type="checkbox"/> NCR <input type="checkbox"/> NIR <input type="checkbox"/> OFI
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 6.2.4]	Chain of custody form	The sample selected is representative of the finished product intended for the market.	<input checked="" type="checkbox"/> No Issues <input type="checkbox"/> NCR <input type="checkbox"/> NIR <input type="checkbox"/> OFI
Manufacturer has submitted their nominations for test groups and worst case models accompanied	DRF	The products have the same formulation and ingredient in the	<input checked="" type="checkbox"/> No Issues <input type="checkbox"/> NCR

by supportive data in the form of calculations, test results, formulations, and written explanation. [Reference: SCS-EC10.3-2014-Section 6.2]		product group. So the worst case was selected based on the thickness of product.	<input type="checkbox"/> NIR <input type="checkbox"/> OFI
Samples submitted to the laboratory are in conformance with CDPH/EHLB Standard Method V1.2. [Reference: SCS-EC10.3-2014-Section 6.2]	Chain of custody form	The samples were submitted in conformance with CDPH/EHLB Standard Method V1.2. Please see the attachment.	<input checked="" type="checkbox"/> No Issues <input type="checkbox"/> NCR <input type="checkbox"/> NIR <input type="checkbox"/> OFI

1.4 Quality Management System

The table below includes a review of the ongoing maintenance of the manufacturer's quality management system in accordance to SCS EC10.3-2014.

	REQUIREMENT	SUPPORTING DOCUMENTATION	AUDITOR KEY FINDINGS	CONFORMANCE ISSUE
1	QMS Certification Valid ISO 9001 or comparable certification was submitted (if applicable)	attachment 2	Certificate # 12821Q2176R1S.	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR
2	Internal/External Audits Evidence of no outstanding NCRs were provided.	attachment 3 attachment 4	Reviewed the last ISO 9001 audit report. Total 1 NCR as below: 1) No calibration report found for # A28H-16/ DN20 Safety valve. The NCR was closed on Apr 2, 2022.	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR
3	Production Flow Chart [Reference: SCS-EC10.3-2014-Section 6.5]	DRF	No change	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR
4	Production Variability [Reference: SCS-EC10.3-2014-Section 6.5]	DRF	No change	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR

5	Product Line Identification and Traceability [Reference: SCS-EC10.3-2014-Section 6.5]	DRF	No change	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR
6	Production Control [Reference: SCS-EC10.3-2014-Section 6.5]	DRF	Interviewed Ms. Xu. No customer complaint received.	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR

1.5 FloorScore® Logo Review

The table below includes a review of the ongoing FloorScore® logo usage

	REQUIREMENT	SUPPORTING DOCUMENTATION	AUDITOR KEY FINDINGS	CONFORMANCE ISSUE
1	Logo Use-Website Are SCS Indoor Air Quality logos used on the company website? (If yes, provide a link to the website.) [Reference: SCS-EC10.3-2014-Section 5.4]	www.hoy-tech.com.cn	Reviewed the website. The logo used correctly.	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR
2	Logo Use-Marketing Collateral Are SCS Indoor Air Quality logos used on “off-products” such as brochures, price lists, or leaflets? (If yes, provide a sampling of logos used on off-products.) [Reference: SCS-EC10.3-2014-Section 5.4]	attachment 1	Reviewed the brochure. The logo used correctly.	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR
3	Logo Use-On Product Packaging Are SCS Indoor Air Quality logos used on products such as product packaging or labels? (If yes, provide an example of a logo used on products.) [Reference: SCS-EC10.3-2014-Section 5.4]	DRF	Interviewed Ms. Xu. No logo used.	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR

APPENDIX

A.1 Renewal Audit Recommendations

A.1.1 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.

PRODUCT CATEGORY	MANUFACTURING SITE	PRODUCT LINE	PRODUCT DETAILS	Renewal YEAR	AUDITOR RATIONALE
Vinyl Tile Flooring	Jiaxing City, China	Luxury Vinyl Tile Flooring/ LVT	5mm	2024	This product is considered Low Priority. Low Priority products require renewal testing every two years after the last renewal audit.