

FloorScore®

2022 Renewal Certification Assessment

SCS Environmental Certification Services

Prepared for:

Benxi Flooring Factory (General Partnership)

Vinyl Tile Flooring

*Manufactured by/Benxi Flooring Factory (General Partnership)/
No.99 Dongfeng Road, Xihu District, Benxi City, Liaoning Province,
China*

Project Work Order: # BFFG-22-01

September 30, 2022



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2000 Powell Street, Ste. 600, Emeryville, CA 94608 USA
+1.510.452.8000 main | +1.510.452.8001 fax
www.SCSglobalServices.com

FloorScore® Renewal Certification Assessment

SCS Global Services, Environmental Certification Services completed a renewal FloorScore certification assessment of Benxi Flooring Factory (General Partnership)'s Vinyl Tile Flooring products manufactured in No.99 Dongfeng Road, Xihu District, Benxi City, Liaoning Province, 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	Wu En, Auditor wue@woodbasedpanel.com 86-10-64200118/19	Date	September 29, 2022
SCS FINAL REVIEWER SIGNATURE			
SCS Decision Maker	Rob Emelander, Program Manager remelander@scsglobalservices.com +1.616.502.6090		
Signature		Date	September 30, 2022

EXECUTIVE SUMMARY

ASSESSMENT SCOPE

Benxi Flooring Factory (General Partnership)'s Vinyl Tile Flooring assessment scope is detailed in the work order BFFG-22-01.

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	Stone Plastic Composite/SPC Flooring (Maximum thickness: 8.0mm)	TVOC Range: 0.5 mg/m ³ or less	SCS-FS-05153	October 1, 2022 to September 30, 2023

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
Benxi, Liaoning, China	Apr 18, 2018	2 NCRs and finished closing	2022 marks the fourth renewal year of Benxi Flooring Factory (General Partnership) FloorScore® Certification. Per SCS EC10.3-2014 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 Benxi Flooring'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 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	Benxi, Liaoning,, China	Stone Plastic Composite Flooring (8mm)	SPC07595	2021 renewal audit report	The products have the same formulation and ingredient in the product group. Therefore, the product with the largest VOC emission may depend on its thickness. Therefore 8mm product was taken.

1.2 PRODUCT EMISSIONS RESULTS

The table below summarizes 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

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
Stone Plastic Composite /SPC Flooring/ 8mm	IAQ-2018-040-FS/ 180619	Phenol	2.57	PASS	PASS	-
Stone Plastic Composite /SPC Flooring/ 8mm	IAQ-2018-040-FS/ 180619	Naphthalene	2.57	PASS	PASS	-
Stone Plastic Composite /SPC Flooring/ 8mm	IAQ-2018-040-FS/ 180619	Formaldehyde	2.91	PASS	PASS	-
Stone Plastic Composite /SPC Flooring/ 8mm	IAQ-2018-040-FS/ 180619	Acetaldehyde	4.52	PASS	PASS	-
Stone Plastic Composite /SPC Flooring/ 8mm	IAQ-2018-040-FS/ 180619	TVOC	341.19	-	-	0.5mg/m ³ or less
Stone Plastic Composite /SPC Flooring/ 8mm	IAQ-2020-057-FS/ 200715	Formaldehyde	4.55	PASS	PASS	-
Stone Plastic Composite /SPC Flooring/ 8mm	IAQ-2020-057-FS/ 200715	TVOC	18.33	-	-	0.5mg/m ³ or less
Stone Plastic Composite /SPC Flooring/ 8mm	IAQ-2022-067-FS 220901	Not Detected	Not Detected	PASS	PASS	-
Stone Plastic Composite /SPC Flooring/ 8mm	IAQ-2022-067-FS 220901	TVOC	54.34	-	-	0.5 mg/m ³ or less

The results for Benxi Flooring Factory (General Partnership)'s Vinyl Tile Flooring products manufactured in No.99 Dongfeng Road, Xihu District, Benxi City, Liaoning Province, 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 this renewal 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 CA 01350 (Standard Method v1.2) and SCS EC10.3-2014.

	REQUIREMENT	SUPPORTING DOCUMENTATION	AUDITOR KEY FINDINGS	ASSESSMENT RESULT
1	Laboratory is a qualified ISO 17025 certified laboratory. [Reference: SCS-EC10.3-2014-Section 6.3.2]	IAQ-2022-067-FS / 220901	The sample was tested by BQI LAB, an ISO 17025 certified lab.	<input checked="" type="checkbox"/> No Issues <input type="checkbox"/> NCR <input type="checkbox"/> NIR <input type="checkbox"/> OFI
2	The manufacturer has submitted results in accordance with CDPH/EHLB/Standard Method V1.2 (January 2017), [Reference: SCS-EC10.3-2014-Section 6.3.3]	IAQ-2022-067-FS / 220901	The results have been submitted in accordance with CDPH/EHLB Standard Method V1.2. Please refer to the attached test report.	<input checked="" type="checkbox"/> No Issues <input type="checkbox"/> NCR <input type="checkbox"/> NIR <input type="checkbox"/> OFI
3	Samples for testing are selected by a SCS auditor or a person authorized by SCS. [Reference: SCS-EC10.3-2014-Section 6.2]	2022 FS Renewal DRF	The sample was selected by Mr.Ge, an authorized representative for this client.	<input checked="" type="checkbox"/> No Issues <input type="checkbox"/> NCR <input type="checkbox"/> NIR <input type="checkbox"/> OFI
4	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]	2022 FS Renewal DRF	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
5	Manufacturer has submitted their nominations for test groups and worst case models accompanied by supportive data in the form of calculations, test results, formulations, and written explanation. [Reference: SCS-EC10.3-2014-Section 6.2]	2022 FS Renewal DRF	There are no changes to the product and the formulation or manufacturing processes were reported by the client.	<input checked="" type="checkbox"/> No Issues <input type="checkbox"/> NCR <input type="checkbox"/> NIR <input type="checkbox"/> OFI
6	Samples submitted to the laboratory are in	IAQ-2022-067-FS/220901	The sample was submitted in	<input checked="" type="checkbox"/> No Issues

conformance with CDPH/EHLB/Standard Method V1.2-January 2017, Section 2. [Reference: SCS-EC10.3-2014-Section 6.2]		conformance with CDPH/EHLB Standard Method V1.2.	<input type="checkbox"/> NCR <input type="checkbox"/> NIR <input type="checkbox"/> OFI
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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)	Refer App 1	The Certificate No. 00221Q25600R0M	<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.	Refer App 2	Reviewed the external audit report submitted by Mr. Ge, and the ISO external audit was conducted on May. 10-11, 2022. Does not have NCR.	<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]	Production Flow chart submitted when initial audit.	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]	2022 FS Renewal 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]	2022 FS Renewal 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]	2022 FS Renewal DRF	No change.	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR
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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]		Not use.	<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]		Not use.	<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]		Not use.	<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	Benxi, Liaoning, China	Stone Plastic Composite Flooring	8mm	2024	The products are considered low Priority. So the products require renewal testing every two year after 2022 Renewal certification.