

Intertek does hereby certify that an independent assessment has been conducted on behalf of

TRU STONE SPC

Certificate Number: 104517965GRR-001a Certification valid until: 29 December 2021

Applicant Address: 6251 Hwy 7

Woodbridge, ON L4H DL1, Canada

Building Products, Flooring Product Category:

Product Details: See Appendix

Conformance Criteria: California Department of Public Health (CDPH) Standard Method v1.2: Private Office and School Classroom.

Issuing Office Name & Address: Intertek Testing Services NA, Inc.

4700 Broadmoor Ave SE, Suite 200

Kentwood, MI 49512 USA

Ph: +1-616-656-7401

Jesse Ondersma Certification Officer 30 December 2020

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Certificate Appendix

TRU STONE SPC

Certificate Number: 104517965GRR-001a

Product Category	Flooring
Model Name(s)	SPC Rigid Core Vinyl Flooring
Product Restrictions	None
TVOC Range*	0.5 mg/m³ or less

^{*}TVOC range stated is based on the most stringent modeling scenario as listed in the Conformance Criteria on page 1.



TRU-STONE TEST REPORT

SCOPE OF WORK

Standard Method Version 1.2 for CDPH 01350 on 5mm SPC Rigid Core Flooring

REPORT NUMBER

104517965GRR-002

ISSUE DATE

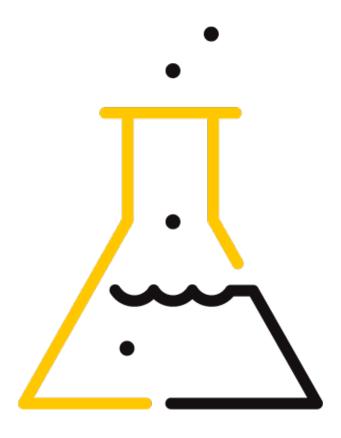
22-December-2020

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DOCUMENT CONTROL NUMBER

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Report No.: 104517965GRR-002

Date: 22-December-2020

P.O.: 181120

4700 Broadmoor Ave SE, Suite 200 Kentwood, MI 49512

Telephone: +1 616 656 7401 Facsimile: +1 616 656 2022

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SECTION 1

CLIENT INFORMATION

Attention: Sedat Bayramoglu

Tru-Stone 6251 Hwy 7

Woodbridge, ON L4H 0L1 Canada Phone: +1 416-410-0411 Email: sedat@tru-stone.net

Lindsay Delamarter Project Engineer Amanda Tongen Project Reviewer

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SECTION 2

SUMMARY AND CONCLUSION

Test Method: Standard Method Version 1.2 for CDPH 01350

Modeling Scenario: Private office (PO), school classroom (SC) and single family

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residence (R)

DESCRIPTION OF SAMPLES

Manufacturer / Location TRU-STONE SPC / Bursa, Turkey
Product Name 5mm SPC Rigid Core Flooring

Product Number Not Specified
Date of Manufacture 09-October-2020
Date of Collection 18-November-2020
Date of Shipment 18-November-2020
Date Received by Lab 25-November-2020
Date of Test Start 03-December-2020

As Received Sample Condition Okay Condition – Not wrapped in foil

Lab Sample ID GRR2011250013

WORK REQUESTED/APPLICABLE DOCUMENTS

VOC Emissions Analysis: CDPH Standard Method v1.2

Intertek Quote: Qu-01127963

TEST RESULTS

MODELING SCENARIO	RESULT (PASS/FAIL)	TVOC (mg m ⁻³)
Private Office (PO)	PASS	< 0.1
School Classroom (SC)	PASS	< 0.1
Single Family Residence (R)*	PASS	< 0.1

^{*}Note: The single family residence scenario is not yet a CDPH requirement. It is provided for informational purposes only.

SAMPLE DISPOSITION

At the completion of testing, samples were disposed of in a routine manner.

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SECTION 3

CDPH STANDARD METHOD V1.2

Date Received: 25-November-2020

Dates Tested: 03-December-2020 to 18-December-2020

DESCRIPTION OF SAMPLES:

Product Description: Stone Polymer Composite 5mm thick with 1mm IXPE Pad

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Material Submitted: Four (4) stacked pieces of flooring

ACCEPTANCE CRITERIA:

Referencing: CDPH Standard Method v1.2, Table 4.1

LEED v4 - Low Emitting Materials

LEED v4 - TVOC Ranges: $\leq 0.5 \text{ mg m}^{-3}$

 $0.5 \text{ to } 5.0 \text{ mg m}^{-3}$ $\geq 5.0 \text{ mg m}^{-3}$

TEST NOTES OR DEVIATIONS:

The sample was not collected and shipped within 7 days of production. Testing was not performed within 5 weeks of production.

TEST SUMMARY:

The emissions testing was performed according to "Standard Method for the Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers Version 1.2". A photograph of the tested sample is included herein. The sample was attached to a stainless-steel plate using strips of aluminized tape and placed into the test chamber with top surface exposed. Air samples were collected prior to the sample being placed in the test chamber (0 hours) and at 264, 288, and 336 hours after being placed in the test chamber. Samples analyzed for individual VOCs and TVOC were collected on multi-sorbent tubes containing glass wool, Tenax TA 35/60 and Carbograph 5 TD 40/60. These VOC samples were analyzed by thermal desorption-gas chromatography/mass-spectrometry, TD-GC/MS. TVOC was calculated through integration of the chromatogram from n-pentane through n-heptadecane using toluene as a surrogate. Individual VOCs were calculated using calibration curves based on pure standards unless otherwise noted. Samples analyzed for low molecular weight aldehydes were collected on cartridges treated with 2,4-di-nitrophenylhydrazine (DNPH). Low molecular weight aldehydes were analyzed using high performance liquid chromatography, HPLC.

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RESULTS:

Table 1: Sample and Chamber Conditions during Test Period

PARA	METER	SYMBOL	VALUE	UNITS
Cample	Length	1	0.223	m
Sample Dimensions	Width	-	0.245	m
Dimensions	Thickness	-	N/A	m
Exposed Sample	Surface Area	Α	0.055	m ²
Chamber Volum	e	V	0.1163	m ³
Chamber Loading Factor		L	0.47	$m^2 m^{-3}$
Inlet Air Flow Ra	te	Q	0.1158	m³ h ^{−1}
Air Change Rate		N_{ACH}	1.00	h ^{−1}
Area Specific Flo	w Rate	q_A	2.12	m h ⁻¹
Chamber Pressu	re (Range)	Р	17.6 (12.0-23.3)	Pa
Average Temper	ature (Range)	Т	23.1 (22.8-23.3)	°C
Average Humidit	ty (Range)	RH	50.0 (46.6-52.3)	% RH
Testing Duration		t	336	h

Table 2: Test chamber background VOC concentrations in $\mu g\ m^{-3}$.

COMPOUND	CAS No.	C _{io}
Formaldehyde	50-00-0	< 0.7
TVOC	-	12.6

Table 3: Test chamber TVOC and formaldehyde concentrations in $\mu g\ m^{-3}$.

COMPOUND	CAS No.	264 H	288 H	336 H
Formaldehyde	50-00-0	< 2.0	< 2.0	< 2.0
TVOC	-	12.6	21.9	10.6

Table 4: Test chamber TVOC and formaldehyde emission factors in $\mu g\ m^{-2}\ h^{-1}$.

COMPOUND	CAS No.	264 H	288 H	336 H
Formaldehyde	50-00-0	< 3.5	< 3.5	< 3.5
TVOC	-	BB*	19.6	BB*

^{*}BB = Below Blank

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Individual emitted VOCs identified above the lower limits of quantitation are listed in Table 5; VOCs which are listed on chemical of concern lists or have CRELs are indicated.

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The measured chamber concentrations and corresponding emission factors of identified individual VOCs and TVOCs are listed in Table 6.

In Tables 4, 6 and 7, emission factors were calculated using equation 3.1 in CDPH Standard Method V1.2:

$$EF_{Ai} = \frac{Q \times (C_{it} - C_{i0})}{A_C}$$

The inlet flow rate, Q (m³ h⁻¹), is the measured flow rate of air into the chamber. The chamber concentration, C_{it} (µg m⁻³), is the concentration of a target VOC_i, formaldehyde and other carbonyl compounds measured at time t. The chamber background concentration, C_{i0} (µg m⁻³), is the corresponding concentration measured with the chamber operating without a test specimen. The exposed surface area of the test specimen in the chamber, A_C (m²), is determined from the measurements made at the time of specimen preparation.

Table 5: VOCs detected above lower limits of quantitation in air samples at 336 hours.

voc	CAS No.	SURROGATE ¹	CREL ² (μg m ⁻³)	CARB TAC ³	PROP 65 LIST ⁴	
*						

^{*}No individual VOCs were detected.

¹Indicates which non-listed VOCs were quantified using surrogate compounds, all other compounds were quantified using pure compounds.

²Chronic Reference Exposure Level (CREL) as defined by California Office of Environmental Health Hazard Assessment.

³Substance is listed on California Air Resource Board's (CARB) Toxic Air Contaminate (TAC) identification list.

⁴Substance known to the state of California to cause cancer or reproductive toxicity according to California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

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Table 6: Measured chamber concentrations and corresponding emission factors of individual VOCs listed in Table 4-1 of CDPH 01350 V1.2. at 336 hours.

listeu iii	Table 4-1 Of C	DPH 01330 V1.2. at 336 Hou	13.
voc	CAS No.	CHAMBER CONCENTRATION	EMISSION FACTOR (μg m ⁻² h ⁻¹)
		(μg m ⁻³)	(μς ιιι τ
Formaldehyde	50-00-0	< 2.0	< 3.5
Acetaldehyde	75-07-0	< 2.0	< 1.3
Vinyl acetate	108-05-4	< 0.5	< 1.2
Epichlorohydrin	106-89-8	< 0.3	< 0.7
Ethanol, 2-methoxy-, acetate	110-49-6	< 0.9	< 2.0
Isopropyl Alcohol	67-63-0	< 0.3	< 0.5
Ethene, 1,1-dichloro-	75-35-4	< 0.3	< 0.5
Methylene chloride	75-09-2	< 4.2	< 8.8
Carbon disulfide	75-15-0	< 0.3	< 0.5
Methyl tert-butyl ether	1634-04-4	< 1.8	< 3.9
n-Hexane	110-54-3	< 0.4	< 0.8
Trichloromethane (Chloroform)	67-66-3	< 0.3	< 0.5
Ethanol, 2-methoxy-	109-86-4	< 0.3	< 0.7
Ethane, 1,1,1-trichloro-	71-55-6	< 0.3	< 0.5
Benzene	71-43-2	< 0.3	< 0.5
Carbon Tetrachloride	56-23-5	< 0.3	< 0.5
2-Propanol, 1-methoxy-	107-98-2	< 0.3	< 0.5
Ethylene glycol	107-21-1	< 20.0	< 42.4
Trichloroethylene	79-01-6	< 0.3	< 0.5
1,4-Dioxane	123-91-1	< 0.3	< 0.5
Ethanol, 2-ethoxy-	110-80-5	< 0.4	< 0.7
Toluene	108-88-3	< 0.3	< 0.5
Formamide, N,N-dimethyl-	68-12-2	< 0.6	< 1.4
Tetrachloroethylene	127-18-4	< 0.3	< 0.5
Benzene, chloro-	108-90-7	< 0.3	< 0.5
Ethylbenzene	100-41-4	< 0.3	< 0.5
	108-38-3,		
Xylene (-m, -p, & -o)	95-47-6,	< 0.4	< 0.9
	106-42-3		
Styrene	100-42-5	< 0.3	< 0.5
2-Ethoxyethyl acetate	111-15-9	< 0.3	< 0.5
Phenol	108-95-2	< 0.3	< 0.6
Benzene, 1,4-dichloro-	106-46-7	< 0.3	< 0.5
Isophorone	78-59-1	< 0.3	< 0.5
Naphthalene	91-20-3	< 0.3	< 0.5

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Table 7: Measured chamber concentrations and corresponding emission factors of identified non-listed individual VOCs and TVOC at 336 hours.

voc	CAS No.	CHAMBER CONCENTRATION (μg m ⁻³)	EMISSION FACTOR (μg m ⁻² h ⁻¹)
TVOC	-	10.6	< 21.2

Exposure Scenario Modeling and Evaluation:

Estimated building concentrations for the listed scenarios were calculated using equation 3.2a of CDPH Standard Method V1.2:

$$C_{Bi} = \frac{EF_{Ai} \times A_B}{Q_B}$$

The area specific emission rate EF_A at 336 hours (14 days) total exposure time is multiplied by the ratio of the exposed surface area of the installed material in the building, A_B (m²), to the flow rate of outside ventilation air, Q_B (m³ h⁻¹).

The modeling parameters used for the given scenarios are listed in Table 8. The modeled concentrations of identified individual VOCs are listed in Tables 9 & 10. Whether the modeled concentrations meet the maximum allowable concentration requirements specified in Table 4.1 of CDPH Standard Method V1.2 are also indicated.

Table 8: Standard modeling parameters for flooring.

PARAMETER	SYMBOL	VALUE	UNITS
Exposed Surface Area Installed in Private Office (PO)	A_B	11.1	m²
Air flow rate of <i>Private Office (PO)</i>	Q_B	20.7	m³ h ⁻¹
Exposed Surface Area Installed in Classroom (SC)	A_B	89.2	m²
Air flow rate of Classroom (SC)	Q_B	191	m³ h ⁻¹
Exposed Surface Area Installed in Residence (R)	A_B	211	m²
Air flow rate of Residence (R)	Q_B	127	m ³ h ⁻¹

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Table 9: Modeled concentrations of individual VOCs specified in Table 4-1 of CDPH 01350 V1.2.

		MODELED CONCENTRATION			conc	RESULT		
voc	CAS NO.	(μg m ⁻³)			CONC. LIMIT	Pass (P) /Fail (F)		
VOC	CAS NO.	РО	sc	R	μg m ⁻³)	РО	sc	R
Formaldehyde	50-00-0	< 2.3	< 2.0	< 7.0	9	Р	Р	Р
Acetaldehyde	75-07-0	< 2.3	< 2.0	< 7.0	70	Р	Р	Р
Vinyl acetate	108-05-4	< 0.6	< 0.5	< 1.9	100	Р	Р	Р
Epichlorohydrin	106-89-8	< 0.4	< 0.3	< 1.2	1.5	Р	Р	Р
Ethanol, 2-methoxy-, acetate	110-49-6	< 1.1	< 0.9	< 3.3	45	Р	Р	Р
Isopropyl Alcohol	67-63-0	< 0.3	< 0.2	< 0.9	3,500	Р	Р	Р
Ethene, 1,1-dichloro-	75-35-4	< 0.3	< 0.2	< 0.9	35	Р	Р	Р
Methylene chloride	75-09-2	< 4.7	< 4.1	< 14.7	200	Р	Р	Р
Carbon disulfide	75-15-0	< 0.3	< 0.2	< 0.9	400	Р	Р	Р
Methyl tert-butyl ether	1634-04-4	< 2.1	< 1.8	< 6.4	4,000	Р	Р	Р
n-Hexane	110-54-3	< 0.4	< 0.4	< 1.3	3,500	Р	Р	Р
Trichloromethane (Chloroform)	67-66-3	< 0.3	< 0.2	< 0.9	150	Р	Р	Р
Ethanol, 2-methoxy-	109-86-4	< 0.4	< 0.3	< 1.2	30	Р	Р	Р
Ethane, 1,1,1-trichloro-	71-55-6	< 0.3	< 0.2	< 0.9	500	Р	Р	Р
Benzene	71-43-2	< 0.3	< 0.2	< 0.9	1.5	Р	Р	Р
Carbon Tetrachloride	56-23-5	< 0.3	< 0.2	< 0.9	20	Р	Р	Р
2-Propanol, 1-methoxy-	107-98-2	< 0.3	< 0.2	< 0.9	3,500	Р	Р	Р
Ethylene glycol	107-21-1	< 22.7	< 19.8	< 70.4	200	Р	Р	Р
Trichloroethylene	79-01-6	< 0.3	< 0.2	< 0.9	300	Р	Р	Р
1,4-Dioxane	123-91-1	< 0.3	< 0.2	< 0.9	1,500	Р	Р	Р
Ethanol, 2-ethoxy-	110-80-5	< 0.4	< 0.3	< 1.2	35	Р	Р	Р
Toluene	108-88-3	< 0.3	< 0.2	< 0.9	150	Р	Р	Р
Formamide, N,N- dimethyl-	68-12-2	< 0.7	< 0.6	< 2.3	40	Р	Р	Р
Tetrachloroethylene	127-18-4	< 0.3	< 0.2	< 0.9	17.5	Р	Р	Р
Benzene, chloro-	108-90-7	< 0.3	< 0.2	< 0.9	500	Р	Р	Р
Ethylbenzene	100-41-4	< 0.3	< 0.2	< 0.9	1,000	Р	Р	Р
Xylene (-m, -p, & -o)	108-38-3, 95-47-6, 106-42-3	< 0.5	< 0.4	< 1.4	350	Р	Р	Р
Styrene	100-42-5	< 0.3	< 0.2	< 0.9	450	Р	Р	Р
2-Ethoxyethyl acetate	111-15-9	< 0.3	< 0.2	< 0.9	150	Р	Р	Р
Phenol	108-95-2	< 0.3	< 0.3	< 1.0	100	Р	Р	Р
Benzene, 1,4-dichloro-	106-46-7	< 0.3	< 0.2	< 0.9	400	Р	Р	Р
Isophorone	78-59-1	< 0.3	< 0.2	< 0.9	1,000	Р	Р	Р
Naphthalene	91-20-3	< 0.3	< 0.2	< 0.9	4.5	Р	Р	Р

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Table 10: Modeled concentrations of identified non-listed individual VOCs.

voc	CAS NO	MODELED CONCENTRATION (μg m ⁻³)			CONC.	Result Pass (P) /Fail (F)		
	CAS NO.	РО	SC	R	μg m ⁻³)	РО	SC	R
TVOC _{Toluene}	-	< 11.4	< 9.9	< 35.2	-	-	-	-

PHOTOGRAPHS:

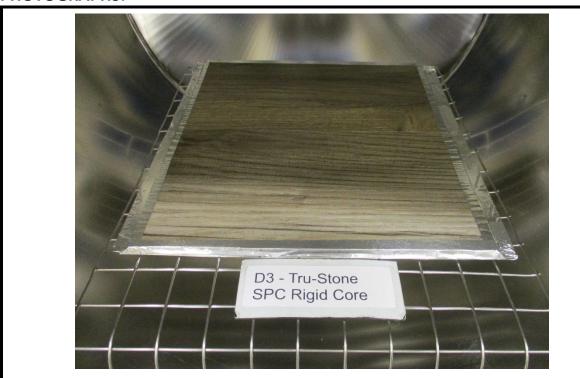


Figure 1: Photograph of sample in test chamber

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SECTION 4

FACILITIES AND EQUIPMENT:

GCMS			
	Markes TD-100 Thermal		
INSTRUMENTATION USED:	Desorption		
	Agilent 7890A GC		
	Agilent 5975C MS		
COLUMN USED:	AGILENT HP-5MS (GC)		
HPLC			
INSTRUMENTATION USED:	Agilent 1260 Infinity Series		
COLUMN USED:	Poroshell 120 EC-C18		

Date: 22-December-2020

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SECTION 5

CHAIN OF CUSTODY



Company:	TRU	TRU-STONE			
Street Address:	625	6251 Hwy 7			
City/State/Postal	code:	Wood	lbridge Ontario L4H 0L1		
Country:	Can	ada			
Contact Name &	Title (for	report	ing):		
Sedat Bayramogli	ı - Mana	gemer	t		
Contact Phone/Fa	x Numb	ers:	416 836 2274 / 647 724 1615		
Contact E-mail Ac	dress:	sed	at@tru-stone.net		
Financially Respon	nsible Co	o. :			

Manu	acturer Infor	mation (If Different)	
Company: TRU-STONE SPC			
City/State/Country:	Bursa / Turkey		
Contact Name/Title: Erol Yuce / Production Manager			
Phone Number/E-ma		erol.trustone@gmail.com +90 0	

Sample	Details
Product Commercial Name*: 5m	nm SPC Rigid Core Flooring
Product Commercial Part No.(if not	
Manufacturer Sample Tracking ID:	5mm SPC Rigid Core Flooring
Date Manufactured*: October 9	
Product Category & Use*: 5mm S	PC Rigid Core Flooring
Sample Construction Materials*:	Rigid Core Flooring
Stone Polymer Composite / 5mm Th	ick / Includes 1mm IXPE Pad
Plant Name & Location*: TRU-ST	ONE SPC
Collection Location within Plant:	Packaging Area
Date & Time Collected*: Novem	ber 18 2020
Number of Sample Pieces*: 2 p	lanks of 7x48 inch size
Sample Collected by*: Sedat Bay	
Phone/Fax Numbers*: 416 836 2	
E-mail Address*: sedat@tru-sto	ne not

Chain of Custody for Intertek Quotation Number:	01127963-0
Purchase Order (enter Compar	y and Number):
TRU-STONE - 18.11.20	

THE PARTY OF	Ship	pping Details
Packed & Shippe	d By:	Sedat Bayramoglu
Shipping Date:	Novem	nber 18 2020
Carrier/Airbill Nu	mber:	

lest to be performed:	Clean Air Ce	ertification
Customer Rec	uest for Certi	fication
Clean Air Silver™ Certifica	ition:	☐ YES
Clean Air Gold™ Certificat	ion:	✓ YES

Requested Testing

Special Customer Instructions	
Please kindly complet at your earliest convenien	ce

Customer Aut	horizes Laboratory to Submit Copies of			
Test Reports To:				
Contact:	Sedat Bayramoglu			
Email Address:	sedat@tru-stone.net			
Organization:	TRU-STONE			
Contact:				
Email Address:				
Organization:				

Intertek Use Only					
Cond	ition of Shipping Package: Good Condition				
	ition of Sample: Okay Condition - not wrapped in foil				
	le ID: GRR2011250013				
GIN:	G104517965				
*India	cates required field				

		Sample Hand	ling*	· 25 (1)
	Printed Name*	Signature*	Date*	Company*
Relinquished By:	Sedat Bayramoglu		November 18 2020	TRU-STONE
Received by:	Lindsay Delamarter	Ily Old	November-27-2020	Intertek



TRU-STONE CLEAN AIR CERTIFICATION REPORT

SCOPE OF WORK

Clean Air Certification of Building Products

REPORT NUMBER

104517965GRR-001

ISSUE DATE

30 December 2020

PAGES

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DOCUMENT CONTROL NUMBER

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CLEAN AIR CERTIFICATION REPORT

SECTION 1 Applicant Information

Report Number	104517965GRR-001 Issue Date		30 December 2020	Revised	N/A
Applicant	ant TRU-STONE		Manufacturer	TRU-STONE SPC	
Address	6251 Hwy 7 Woodbridge, ON L4H DL1		Address	Turankoy Sanayi Bolgesi, 16000, 7. Sokak #1 Kestel, Bursa, Turkey	
Country	Canada		Country	Turkey	
Contact	Sedat Bayramoglu		Contact	Erol Yuce, Produc	tion Manager
Phone	one +1 (416) 410-0411		Phone	+90 (541) 447-8663	
FAX	FAX Not Specified		FAX	Not Specified	
Email	mail sedat@tru-stone.net		Email	info@tru-stone.n	et

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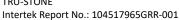


CLEAN AIR CERTIFICATION REPORT

SECTION 2 Product Grouping

Clean Air GOLD: Conforms to California Department of Public Health (CDPH) Standard Method v1.2: Private Office and School Classroom

Certificate	104517965GRR-001a		
Product	Building Products		
Category			
Product Type	Flooring		
Brand name	TRU STONE SPC		
Models	SPC Rigid Core Vinyl Flooring		
Product	None		
Restrictions			
TVOC Range*	0.5 mg/m³ or less		





CLEAN AIR CERTIFICATION REPORT

SECTION 3 Testing Results

	Product			Test		TVOC	
Date Tested	Category	Product Name	Product ID	Method	Result	Range*	Report Number
12/03/2020	Flooring	5mm SPC Rigid Core Flooring	Not specified	CDPH SM v1.2	CDPH SM v1.2: SC, PO, SR	< 0.1	104517965GRR-002
·							

^{*}TVOC range is based on the most stringent modelling scenario (excludes Single Family Residence). All values are reported as mg m-3 (milligram per cubic meter) corresponding to the LEED v4 TVOC ranges.



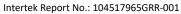


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CLEAN AIR CERTIFICATION REPORT

SECTION 4 Private Label

MULTIPLE LISTEE 1			
Company Name:	Brand Name:		
Address:			
Contact:	Email:		
Phone Number:	Note:		
Multiple Listee Model	Basic Listee Correlated Model		
MULTIPLE LISTEE 2			
Company Name:	Brand Name:		
Address:			
Contact:	Email:		
Phone Number:	Note:		
Multiple Listee Model	Basic Listee Correlated Model		





CLEAN AIR CERTIFICATION REPORT

SECTION 5 Revision History

Date	Project Number	Revision Description	Revised By	Signature

TRU-STONE

Intertek Report No.: 104517965GRR-001

CLEAN AIR CERTIFICATION REPORT

SECTION 6 Conclusion

Representative samples of the products covered by this report have been evaluated and found to comply with the applicable requirements of the standards indicated above.

Please note, this Report does not represent authorization for the applicant or manufacturer to apply Intertek Certification Marks.

Completed by:	Lisa Henderson	Reviewed by:	Jesse Ondersma
Title:	Sustainability Program Administrator	Title:	Certification Officer
Signature:	Lisa Henderson	Signature:	Jesa Ondown