

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

# **TRU STONE SPC**

Certificate Number: CA-46391-2024a

Certification valid until: 26 December 2024

- Applicant Address: 8 Tracey Blvd Brampton, ON L6T 5R9, Canada
- Product Category: Building Products
- Product Details: See Appendix

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

Issuing Office Name & Address: Intertek Testing Services NA, Inc. 4700 Broadmoor Ave SE, Suite 200 Kentwood, MI 49512 USA Ph: +1-616-656-7401

leave Ondown

Jesse Ondersma Certification Officer 01 September 2023

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**Certificate Appendix** 

# **TRU STONE SPC**

Certificate Number: CA-46391-2024a

Product Category	Flooring
Model Name(s)	SPC Floor Panels: Stone-Inspired, Wood-Inspired, Glue Down, Quick Ship
Product Restrictions	None
TVOC Range*	0.5 mg/m <sup>3</sup> or less

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

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# B. OGLU LTD DBA TRU-STONE CLEAN AIR CERTIFICATION REPORT

**SCOPE OF WORK** Clean Air Certification of Building Products

REPORT NUMBER 105516920GRR-001

**ISSUE DATE** 24 August 2023 **REVISED DATE** N/A

PAGES

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SFT-CLEAN AIR-OP-19c (29-April-2019) © 2023 INTERTEK





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#### **CLEAN AIR CERTIFICATION REPORT**

# **SECTION 1** Applicant Information

Report Number	105516920GRR-001	Issue Date	24 August 2023		Revised	N/A	
Applicant	B. OGLU LTD DBA TRUS	ΓΟΝΕ	Manufacturer	TRU-STONE SPC			
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Country	Canada		Country				
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# **SECTION 2** Product Grouping

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

Certificate	CA-46391-2024a
Product	Building Products
Category	Building Froducts
Product Type	Flooring
Brand name	TRU STONE SPC
Models	SPC Floor Panels: Stone-Inspired, Wood-Inspired, Glue Down, Quick Ship
Product	None
Restrictions	None
TVOC Range*	0.5 mg/m <sup>3</sup> or less



# **SECTION 3** Testing Results

	Product			Test		τνος	
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
11/18/2021	Flooring	5mm SPC Rigid Core Flooring	Not specified	CDPH SM v1.2	CDPH SM v1.2: SC, PO, SR	< 0.1	104878040GRR-001
09/09/2022	Flooring	5mm SPC Rigid Core Flooring (22mL wear layer)	Not specified	CDPH SM v1.2	CDPH SM v1.2: SC, PO, SR	< 0.1	105485588GRR-001
08/03/2023	Flooring	6.5mm SPC Floor Panels: Wood-Inspired (with 1.5mm HD XPE Pre attached Underpad)	Not specified	CDPH SM v1.2	CDPH SM v1.2: SC, PO, SR	< 0.1	105516920GRR-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.



# **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			



# **SECTION 5** Revision History

Date	Project Number	Revision Description	Revised By	Reviewed By



# **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:	Clean Air Program Manager	Title:	Certification Manager
Signature:	Lisa Henderson	Signature:	Jean Ondown



# **B OGLU LTD TEST REPORT**

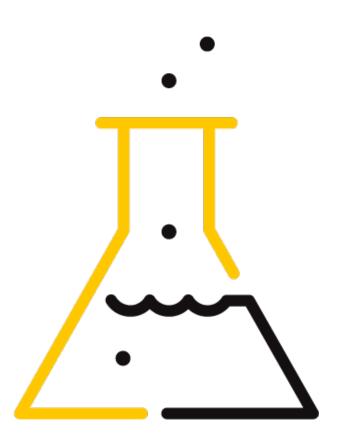
**SCOPE OF WORK** CDPH 01350 Standard Method Version 1.2 on 6.5 mm SPC Rigid Core Floor

REPORT NUMBER 105516920GRR-002

**ISSUE DATE** 24-August-2023

**PAGES** 12

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## **TEST REPORT FOR B OGLU LTD**

Report No.: 105516920GRR-002 Date: 24-August-2023 P.O.: 310723-1

## **SECTION 1**

#### **CLIENT INFORMATION**

Attention:Sedat BayramogluB Oglu LTD6251 Hwy 7Woodbridge, ON L4H 0L1CanadaPhone:+1 (416) 410-0411Email:sedat@tru-stone.net

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Logan Albertson Project Engineer

Taylor Gebben 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 residence (R)

#### **DESCRIPTION OF SAMPLES**

Manufacturer / Location	Tru-Stone SPC / Bursa, Turkey
Product Name	6.5 mm SPC Rigid Core Floor
Product Number	N/A
Date of Manufacture	20-July-2023
Date of Collection	20-July-2023
Date of Shipment	22-July-2023
Date Received by Lab	24-July-2023
Date of Test Start	04-August-2023
As Received Sample Condition	Good Condition
Lab Sample ID	GRR2307240005

#### WORK REQUESTED/APPLICABLE DOCUMENTS

VOC Emissions Analysis:	CDPH Standard Method v1.2
Intertek Quote:	Qu-01377442-0

#### **TEST RESULTS**

#### CDPH Standard Method v1.2, Table 4.1

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

#### LEED v4 Total Volatile Organic Compounds (TVOC)

	0	•	
MODELING SCENARIO			TVOC (mg m <sup>-3</sup> )
Private Office (PO)			< 0.1
School Classroom (SC)			< 0.1
Single Family Residence (	R)*		< 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.

### **SECTION 3**

## CDPH STANDARD METHOD V1.2

Date Received:	24-July-2023
Dates Tested:	04-August-2023 to 18-August-2023

#### **DESCRIPTION OF SAMPLES:**

Product Description:	Stone polymer composite flooring with 1mm pad
Material Submitted:	Two (2) floor planks

#### **ACCEPTANCE CRITERIA:**

Referencing:	CDPH Standard Method v1.2, Table 4.1
	LEED v4 - Low Emitting Materials
LEED v4 - TVOC Ranges:	≤ 0.5 mg m <sup>-3</sup>
	0.5 to 5.0 mg m <sup>-3</sup>
	≥ 5.0 mg m <sup>-3</sup>

#### **TEST NOTES OR DEVIATIONS:**

Testing performed without deviation unless noted below.

#### **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 cut to size and attached to a stainless steel plate using strips of aluminized tape and placed in the test chamber with the top surface exposed. The sample was conditioned outside of the test chamber at 23 ± 3°C and 50 ± 10% RH. Air samples were collected prior to the sample being placed in the test chamber (0 hours) and at 264, 288, and 336 hours after preparation. 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.

EXPERIMENT PHASE	START DATE	DURATION
Conditioning	04-August-2023	10 Days
Chamber Testing	14-August-2023	4 Days

#### Table 1: Conditioning and test timing

#### **RESULTS:**

#### Table 2: Sample and Chamber Conditions during Test Period

PARA	METER	SYMBOL	VALUE	UNITS
Comple	Length	-	0.230	m
Sample Dimensions	Width	-	0.230	m
Dimensions	Thickness	-	-	m
Exposed Sample	Surface Area	А	0.053	m²
Chamber Volum	е	V	0.116	m <sup>3</sup>
Chamber Loadin	g Factor	L	0.46	m <sup>2</sup> m <sup>-3</sup>
Inlet Air Flow Ra	te	Q	0.116	m <sup>3</sup> h <sup>-1</sup>
Air Change Rate		N <sub>ACH</sub>	1.00	h <sup>-1</sup>
Area Specific Flo	w Rate	$q_{A}$	2.19	m h <sup>−1</sup>
Chamber Pressu	re (Range)	Р	18.0 (15.8-19.3)	Ра
Average Temper	ature (Range)	Т	22.8 (22.8-23.0)	°C
Average Humidit	y (Range)	RH	49.8 (46.4-51.7)	% RH
Testing Duration		t	336	h

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

COMPOUND	CAS No.	Cio
Formaldehyde	50-00-0	< 2.0
туос	-	< 20

#### Table 4: Test chamber TVOC and formaldehyde concentrations in $\mu g m^{-3}$ .

COMPOUND	CAS No.	264 H	288 H	336 H
Formaldehyde	50-00-0	3.3	< 2.0	< 2.0
ТVОС	-	< 20	< 20	< 20

#### Table 5: 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	6.1	< 3.2	< 3.2
туос	-	< 24.7	< 24.7	< 24.7

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.

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,  $Q (m^3 h^{-1})$ , is the measured flow rate of air into the chamber. The chamber concentration,  $C_{it} (\mu g m^{-3})$ , is the concentration of a target VOC<sub>i</sub>, formaldehyde and other carbonyl compounds measured at time *t*. The chamber background concentration,  $C_{i0} (\mu g m^{-3})$ , is the corresponding concentration measured with the chamber operating without a test specimen. The exposed surface area of the test specimen in the chamber,  $A_C (m^2)$ , is determined from the measurements made at the time of specimen preparation.

νος	CAS No.	SURROGATE <sup>1</sup>	CREL <sup>2</sup> (µg m <sup>-3</sup> )	CARB TAC <sup>3</sup>	PROP 65 LIST <sup>4</sup>
Toluene	108-88-3	No	420	Yes	Yes
p-diacetylbenzene	1009-61-6	Yes	-	No	No

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

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

<sup>3</sup>Substance is listed on California Air Resource Board's (CARB) Toxic Air Contaminate (TAC) identification list. <sup>4</sup>Substance 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).

# Table 7: Measured chamber concentrations and corresponding emission factors of individual VOCslisted in Table 4-1 of CDPH 01350 V1.2. at 336 hours.

νος	CAS No.	CHAMBER CONCENTRATION (µg m <sup>-3</sup> )	EMISSION FACTOR (µg m <sup>-2</sup> h <sup>-1</sup> )
Formaldehyde	50-00-0	< 2.0	< 3.2
Acetaldehyde	75-07-0	< 3.9	< 8.6
Vinyl acetate	108-05-4	< 1.1	< 2.5
Epichlorohydrin	106-89-8	< 1.1	< 2.4
Ethanol, 2-methoxy-, acetate	110-49-6	< 1.3	< 2.8
Isopropyl Alcohol	67-63-0	< 0.3	< 0.5
Ethene, 1,1-dichloro-	75-35-4	< 0.3	< 0.7
Methylene chloride	75-09-2	< 0.3	< 0.5
Carbon disulfide	75-15-0	< 0.4	< 1.0
Methyl tert-butyl ether	1634-04-4	< 0.3	< 0.5
n-Hexane	110-54-3	< 4.1	< 8.9
Trichloromethane (Chloroform)	67-66-3	< 0.3	< 0.5
Ethanol, 2-methoxy-	109-86-4	< 0.4	< 0.8
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	< 0.6
Ethylene glycol	107-21-1	< 6.0	< 13.1
Trichloroethylene	79-01-6	< 0.3	< 0.5
1,4-Dioxane	123-91-1	< 0.3	< 0.5
Ethanol, 2-ethoxy-	110-80-5	< 0.3	< 0.7
Toluene	108-88-3	0.7	1.5
Formamide, N,N-dimethyl-	68-12-2	< 6.0	< 13.1
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
Xylene (-m, -p, & -o)	108-38-3, 95-47-6, 106-42-3	< 0.3	< 0.5
Styrene	100-42-5	< 0.3	< 0.5
2-Ethoxyethyl acetate	111-15-9	< 0.4	< 0.8
Phenol	108-95-2	< 0.3	< 0.5
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

#### Table 8: Measured chamber concentrations and corresponding emission factors of identified nonlisted individual VOCs and TVOC at 336 hours.

voc	CAS No.	CHAMBER CONCENTRATION (µg m <sup>-3</sup> )	EMISSION FACTOR (μg m <sup>-2</sup> h <sup>-1</sup> )
p-diacetylbenzene	1009-61-6	2.1	4.7
TVOC	-	< 20	< 24.7

#### **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,  $A_B$  (m<sup>2</sup>), to the flow rate of outside ventilation air,  $Q_B$  (m<sup>3</sup> h<sup>-1</sup>).

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.

PARAMETER	SYMBOL	VALUE	UNITS
Exposed Surface Area Installed in Private Office (PO)	A <sub>B</sub>	11.1	m²
Air flow rate of Private Office (PO)	$Q_B$	20.7	m <sup>3</sup> h <sup>-1</sup>
Exposed Surface Area Installed in Classroom (SC)	A <sub>B</sub>	89.2	m²
Air flow rate of Classroom (SC)	Q <sub>B</sub>	191	m <sup>3</sup> h <sup>-1</sup>
Exposed Surface Area Installed in Residence (R)	A <sub>B</sub>	211	m²
Air flow rate of Residence (R)	Q <sub>B</sub>	127	m <sup>3</sup> h <sup>-1</sup>

Table 9: Standard modeling parameters for flooring.

VOC	CAS NO.	MODELE	D CONCEN (μg m <sup>-3</sup> )	TRATION	CONC. LIMIT		RESULT (P) /Fa	
Võe		РО	SC	R	(µg m⁻³)	РО	SC	R
Formaldehyde	50-00-0	< 2.3	< 2.0	< 7.3	9	Р	Р	Р
Acetaldehyde	75-07-0	< 4.6	< 4.0	< 14.2	70	Р	Р	Р
Vinyl acetate	108-05-4	< 1.3	< 1.2	< 4.2	100	Р	Р	Р
Epichlorohydrin	106-89-8	< 1.3	< 1.1	< 4.0*	1.5	Р	Р	Р
Ethanol, 2-methoxy-, acetate	110-49-6	< 1.5	< 1.3	< 4.7	45	Р	Ρ	Ρ
Isopropyl Alcohol	67-63-0	< 0.3	< 0.3	< 0.9	3,500	Р	Р	Р
Ethene, 1,1-dichloro-	75-35-4	< 0.4	< 0.3	< 1.2	35	Р	Ρ	Р
Methylene chloride	75-09-2	< 0.3	< 0.3	< 0.9	200	Р	Р	Р
Carbon disulfide	75-15-0	< 0.5	< 0.5	< 1.6	400	Р	Р	Р
Methyl tert-butyl ether	1634-04-4	< 0.3	< 0.3	< 0.9	4,000	Р	Р	Р
n-Hexane	110-54-3	< 4.8	< 4.2	< 14.8	3,500	Р	Р	Р
Trichloromethane (Chloroform)	67-66-3	< 0.3	< 0.3	< 0.9	150	Ρ	Ρ	Ρ
Ethanol, 2-methoxy-	109-86-4	< 0.4	< 0.4	< 1.3	30	Р	Р	Р
Ethane, 1,1,1-trichloro-	71-55-6	< 0.3	< 0.3	< 0.9	500	Р	Р	Р
Benzene	71-43-2	< 0.3	< 0.3	< 0.9	1.5	Р	Р	Р
Carbon Tetrachloride	56-23-5	< 0.3	< 0.3	< 0.9	20	Р	Р	Р
2-Propanol, 1-methoxy-	107-98-2	< 0.3	< 0.3	< 1.0	3,500	Р	Р	Р
Ethylene glycol	107-21-1	< 7.0	< 6.1	< 21.8	200	Р	Р	Р
Trichloroethylene	79-01-6	< 0.3	< 0.3	< 0.9	300	Р	Р	Р
1,4-Dioxane	123-91-1	< 0.3	< 0.3	< 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	0.8	0.7	2.6	150	Р	Р	Р
Formamide, N,N- dimethyl-	68-12-2	< 7.0	< 6.1	< 21.8	40	Р	Р	Р
Tetrachloroethylene	127-18-4	< 0.3	< 0.3	< 0.9	17.5	Р	Р	Р
Benzene, chloro-	108-90-7	< 0.3	< 0.3	< 0.9	500	Р	Р	Р
Ethylbenzene	100-41-4	< 0.3	< 0.3	< 0.9	1,000	Р	Р	Р
Xylene (-m, -p, & -o)	108-38-3, 95-47-6, 106-42-3	< 0.3	< 0.3	< 0.9	350	Р	Р	Р
Styrene	100-42-5	< 0.3	< 0.3	< 0.9	450	Р	Р	Р
2-Ethoxyethyl acetate	111-15-9	< 0.4	< 0.4	< 1.3	150	Р	Р	Р
Phenol	108-95-2	< 0.3	< 0.3	< 0.9	100	Р	Р	Р
Benzene, 1,4-dichloro-	106-46-7	< 0.3	< 0.3	< 0.9	400	Р	Р	Р
Isophorone	78-59-1	< 0.3	< 0.3	< 0.9	1,000	Р	Р	Р
Naphthalene	91-20-3	< 0.3	< 0.3	< 0.9	4.5	Р	Р	Р

## Table 10: Modeled concentrations of individual VOCs specified in Table 4-1 of CDPH 01350 V1.2.

\*Individual VOC of concern is below lower LOQ for modeled scenario.

#### Table 11: Modeled concentrations of identified non-listed individual VOCs.

voc	CAS NO.	MODELED CONCENTRATION (μg m <sup>-3</sup> )		RATION
		PO	SC	R
p-diacetylbenzene	1009-61-6	2.5	2.2	7.8
TVOC <sub>Toluene</sub>	-	< 13.3	< 11.6	< 41.1

## **PHOTOGRAPHS:**



## **SECTION 4**

FACILITIES AND EQUIPMENT: GCMS

	Markes TD-100 Thermal
	Desorption
INSTRUMENTATION USED:	Agilent 7890B GC
	Agilent 5977A MS
COLUMN USED:	AGILENT ULTRA (GC)
HPLC	
INSTRUMENTATION USED:	Agilent 1290 Infinity Series
COLUMN USED:	Poroshell 120 EC-C18

Date: 24-August-2023

## SECTION 5

## **CHAIN OF CUSTODY**

		S	hip To:	Chain of Custody for C	hemical Testing
31		Attn: VOC Lab	CONTRACTOR DE LA CONTRACT	Intertek Quotation Number: Qu	
	$\cap$	4700 Broadm	loor Ave SE	Purchase Order (enter Company	
A A	-	Suite 200		TRU STONE PD# 600	290822
interto	ek	Kentwood, M	11 49512		
sustainabi	ility	Phone: 616-6	56-7401	Shipping De	tails
in the second second		No. of Concession, Name		Packed & Shipped By: Sc	DAT BATRAMOGIL
NUMBER OF	Customer Inf	formation		Shipping Date: July 2	2 7023
Company:	TEUSTON			Carrier/Airbill Number:	
Street Address:	- 8 TEAC	EH BLUD			The second second second
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