

November 12, 2024

Schluter Systems Attn: Kali Pharand 194 Pleasant Ridge Rd. Plattsburgh, NY 12901 USA

Dear Kali Pharand,

The sample you identified as "Metal Accessories" was tested per CA 01350 VOC Emissions per your request (IPAL Test Report: IPAL-0090-24). The testing was performed by Research Triangle Park (RTP) Laboratories in Raleigh, NC. All comments, findings, and interpretations within this report were made by RTP Laboratories.

Testing was conducted on the sample submitted for emissions of total volatile organic compounds (TVOC), aldehydes, formaldehyde, and specific individual volatile organic compounds (VOCs). Any emissions were measured and the resultant emissions to the environment were determined for each of the potential pollutants.

Green Building	Criteria	Results
Standard,		
Rating System,		
or Code		
LEED V4.1	 Credit: Low-Emitting Materials, Flooring At least 90% of all flooring, by cost or surface area, meets the VOC emissions evaluation: Product has been tested according to CDPH Standard Method v1.2 – 2017 and complies with the VOC limits in Table 4-1 of the method: Max Allowable Concentration of Target CREL VOCs No. 1 – 35 (including formaldehyde and 	None Detected
	 acetaldehyde) The range of total VOCs after 14 days was measured as specified in the CDPH Standard Method v1.2 and is reported (TVOC ranges: 0.5 mg/m³ or less, between 0.5 and 5 mg/m³, or 5 mg/m³ or more). 	None Detected (≤0.5mg/m ³)

The attached report includes the detailed test results.

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IgCC (ASHRAE 189.1) 2021	Section 801.4.2.3 (8.4.2.3) Emissions of floor covering materials installed in the building interior, and each product layer within a flooring system containing more than one distinct product layer, shall be individually determined according to CDPH Standard Method and shall comply with the limit requirements: Table 4-1 Max Allowable Concentration of Target CREL VOCs No. 1 – 35 (including formaldehyde and acetaldehyde)	None Detected
CHPS (U.S.) 2020	EQ C6.1.2 Flooring Systems All flooring systems installed in the project's interior totaling 90% or more of the total floor area shall be tested for emissions of VOCs of concern with respect to chronic inhalation exposures following the specifications of the CDPH Standard Method V1.2, 2017 (CDPH Standard Method): Table 4-1 Max Allowable Concentration of Target CREL VOCs No. 1 – 35 (including formaldehyde and acetaldehyde)	None Detected
WELL v2	 X06 VOC Restrictions Flooring. 90% of cost or surface area tested per methods and VOC emission thresholds established in CDPH Standard Method v1.2: Table 4-1 Max Allowable Concentration of Target CREL VOCs No. 1 – 35 (including formaldehyde and acetaldehyde) 	None Detected
BREEAM	Hea 02 Criterion 10 Flooring materials, ≤ 0.06 mg/m ³ formaldehyde, ≤1.0 mg/m ³ TVOCs, per CDPH Standard Method	None Detected
Living Building Challenge 4.1	Imperative 10 Healthy Interior Performance Install products that comply with emissions limits of the CDPH Standard Method v1.2-2017 (or international equivalent) for 90% of interior building products that have the potential to emit volatile organic compounds (VOCs): Table 4-1 Max Allowable Concentration of Target CREL VOCs No. 1 – 35 (including formaldehyde and acetaldehyde)	None Detected

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100 Clemson Research Blvd., Anderson, SC USA 29625 P: +1 855-IPA-LABS E: testing@IPALaboratories.com www.IPALaboratories.com

The following is an image of the sample submitted for testing.

Schluter Schluter.com DESIGNUINE BRUSHED COPPER ANODIZED ALUMINUM DESIGNUINE BRUSHED ALUMINUM DESIGNUINE BRUSHED ALUMINUM DESIGNUINE BRUSHED COPPER ANODIZED ALUMINUM DESIGNUINE BRUSHED ALUMINU

SAMPLE PHOTO

DISCLAIMER AND LIMITATION OF LIABILITY

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conditions under which the products may be used or subjected. For testing on actual materials being used or considered for a job site, contact IPA Laboratories for sampling provisions and possible testing.

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11/12/2024

Katelyn Simpson Director of Laboratory Service

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7201 ACC Blvd., Suite 104 Raleigh, NC 27617

919 510-0228 Telephone 919 510-0141 Fax

Web Site: <u>www.rtp-labs.com</u>



ISO 17025 Compliant PA Registration #68-1664 DEA Registered

March 11, 2024

International Product Assurance Laboratories 100 Clemson Research Boulevard Anderson, SC 29625

Attn: Ashley Moore

PROJECT: VOCs Testing –Report of VOC Chamber Tests. Purchase Order: 4628 RTP Labs ID: 24-006-06 Metal Accessory

Enclosed with this letter is the report for the sample received on February 13, 2024 in good condition. The manufacturing date is listed on the COC form. The sample was tested for VOCs emissions according to ASTM D5116 Small Chamber Test and California Specification 01350 Test Methods. The sample was prepared according to the sample preparation descriptions as described in CA 01350. The chamber testing was started on February 15, 2024 with a 10-day conditioning period, followed by a 96-hour test as described in CA 01350.

The test results are summarized in the attached document. The testing method reporting limits are 0.001 mg/m^3 using the California Standard Classroom Model.

If you have any questions, please give me a call at (919) 510-0228.

Sincerely,

Alston Sykes, Principal Chemist Attachments: attachments and photos

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0090-24

TTCNA III COUNCILION NORTH AMMERICAN ING	Chain of Cus For Testing of Product/Materia ease fill out a <u>separate</u> chain of cus	
General Information (Section A)		
Manufacturer Name: Schluter Systems		
Street Address: 194 Pleasant Ridge Road		
City/State: Plattsburgh, NY		
Zip/Postal Code: 12901	a particular in the second	
Zip/Postal Code: <u>12901</u> Country: United States Contact Name: Kali Pharand		
Contact Title: Product Standards and Sustain	ability Coordinator	
Phone/Fax Numbers: 888-472-4588 x 4152		
Email Address: sustainability@schluter.com		
Sampling Information (Section B)		
Product Name: DESIGN LINE		
Manufacturer Product ID #: DESIG	NLINE	
Sample ID # (Same as TCNA Test Report #	1: Metal Accesso	ries
Product Category: Melal Acc.	essines	
Product Subcategory:		-
Date Manufactured: NOV (23		
5 Plant Name and Location: PLATTS	BURGH, NY	
Date and Time Sample Collected from Pla		
Collection Location within Plant: SA f	YPLES	
Number of Sample Pieces Collected (Atta		
Sample Collected by: SHAMM M		Signature: Shamin mondel
Sample Packaged and Shipped to TCNA B	Y: SHAMIM MONDAL	Signature: Thanim Monda
Shipping Date: 2/1/24		
Carrier/Airbill Number: UPS		
TCNA Receipt Information (Section C)		
Arrival to: Tile Council of North Americ	a, Inc.	
100 Clemson Research Boule	evard	
Anderson, SC 29625		
• Receipt Date: 2.13.2024		
E Received By: <u>AShIEy MOOR</u> Logged into TCNA Database by: <u>AShI</u>		Signature: among
Logged into TCNA Database by: OSh I	ey moure	
TCINA Test Report #. ()()90 - 29		
Shipment Forwarded To RTP Laboratorie	s By: ashiey mubre	Signature: (IMOGZE
Shipment Date: 2.12.2024		and a second
Carrier/Airbill Number: URS -		
RTP Laboratories Receipt Information (S	ection D)	
Arrival to: Research Triangle Park Labo	ratories, Inc.	
7201 ACC Blvd., Suite 104		
Roleigh NC 27617		
Receipt Date: 2 - 13 - 24 Received By: Alston Syke		
Received By: Alston Syke	5	Signature: A. Jakas
		, , ,
Condition of Shipping Package:	DOR	and the second se
Condition of Shipping Package: Geo Condition of Sample: Good	l	

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Web Site: <u>www.rtp-labs.com</u>

Photo of Sample Received Feb. 13, 2024: 24-006-06 (IPAL-0090-24) Metal Accessory



Research Triangle Park Laboratories Inc, 7201 ACC Blvd., Raleigh, NC 27617

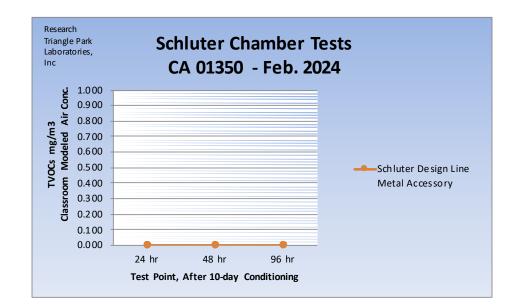
California 01350/ASTM D5116 Small Chamber Tests for Volatile Organic Compound Emissions From Products

Project ID: 24-006-06 Client: Tile Council of North America Sample Receipt Date: Feb. 13, 2024 Test Start Dates: Feb. 15, 2024 Products:

Schluter

Modeled Standard Classroom Concentration, mg/m
--

	24 hr	48 hr	96 hr	LOQ
Design Line Metal Accessory	0.000	0.000	0.000	0.001



Standard Classroom Model Parameters:

Room Dimensions: 40 ft length x 24 ft wide x 8.5 ft ht Room Volume: 231 m^3 Ventilation Rate: 0.90 air changes per hour Net Floor Surface: 89.2 m^2

Chamber and Sample Conditions:

Chamber Volume: 50 Liters Temperature: 20-25 C; Relative Humidity: 45-55 % Air Exchange Rate: 1 per hour (0.833L/min = 50 liters) Sample Surface Area: $0.0232 m^2$ Sample Loading Factor: $0.5 m^2/m^3$ Sample Receipt Date: 2/13/2024 Project ID: 24-006-06 Sample ID: Schluter Metal Accessory (IPAL-0090-24) Client: IPA Labs

ASTM D5116 Small Chamber Method

California Specification 01350

Paints and Wallcoverings Model: 94.6 m2

Flooring Products Model: 89.2 m2 Emission Factors (ug/(m2*h)) Cm Cm Cm										
	02/16/24		02/17/24		02/29/24		Classroom:	Classroom:	Classroom:	
	24 hr		48 hr		96 hr		24 hr	48 hr	96 hr	1/2 CREL
	Chamber		Chamber		Chamber		Modeled Air	Modeled	Modeled Air	12/2008
	Conc.		Conc.		Conc.		Conc.	Air Conc.	Conc.	(A)Acute
Compound Name	ug/m3	24 hr EF	ug/m3	48 hr EF	ug/m3	96 hr EF	ug/m3	ug/m3	ug/m3	(C)Chronic
GC/MS Target, LOQ 2 ng/L (ug/m3)										
None Detected	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
GC/MS TICs, LOQ 5 ng/L (ug/m3)										
None Dectected	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
HPLC Aldehydes, LOQ 2 ng/L (ug/m3)										
Formaldehyde	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	4.5 C
Acetaldehyde	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	70 C
TVOCs LOQ 25 ng/L (ug/m3) Use 1 for < value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ug/m3
							0.000	0.000	0.000	mg/m3

Reporting Limit, 0.001 mg/m3

10 day conditioning performed prior to 96 h testing.

Standard Classroom Parameters

40x24x8.5

231

0.9

89.2

Room Dimensions, ft

Ventilation Rate, ach

Net Surface Area, m2

Room Volume, m3

Test Start Date: 2/15/2024

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Web Site: <u>www.rtp-labs.com</u>



ISO 17025 Compliant PA Registration #68-1664 DEA Registered

October 24, 2024

International Product Assurance Laboratories 100 Clemson Research Boulevard Anderson, SC 29625

Attn: Ashley Moore

PROJECT: VOCs Testing –Report of VOC Chamber Tests. Updated with Office Model Purchase Order: 4628 RTP Labs ID: 24-006-06 Metal Accessory

Enclosed with this letter is the report for the sample received on February 13, 2024 in good condition. The manufacturing date is listed on the COC form. The sample was tested for VOCs emissions according to ASTM D5116 Small Chamber Test and California Specification 01350 Test Methods. The sample was prepared according to the sample preparation descriptions as described in CA 01350. The chamber testing was started on February 15, 2024 with a 10-day conditioning period, followed by a 96-hour test as described in CA 01350.

The test results are summarized in the attached document. The testing method reporting limits are 0.001 mg/m^3 using the California Standard Office Model.

If you have any questions, please give me a call at (919) 510-0228.

Sincerely,

Alston Sykes, Principal Chemist Attachments: attachments and photos

Web Site: <u>www.rtp-labs.com</u>

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ISO 17025 Compliant PA Registration #68-1664 DEA Registered

0090-24

General Information (Section A)	
Manufacturer Name: Schluter Systems	
Street Address: 194 Pleasant Ridge Road	
City/State: Plattsburgh, NY	
Zip/Postal Code: 12901	
Country: United States	
Contact Name: Kali Pharand	
Contact Title: Product Standards and Sustainability Coordinator	
Phone/Fax Numbers: 888-472-4588 x 4152	
Email Address: sustainability@schluter.com	
Sampling Information (Section B)	
Product Name: DESIGN LINE	
Manufacturer Product ID #: DESIGNLINE	
Sample ID # (Same as TCNA Test Report #): Metal Accesso	ries
Product Category: Metal Accessiones	
Product Subcategory:	
Date Manufactured: NOV (23	
Plant Name and Location: PLATTSBURGH, NY	an a film of the test of the second
Plant Name and Location: $PLATTSBURGH, NY$ Date and Time Sample Collected from Plant: $1/31/24$	
Collection Location within Plant: SAMPLES	
Number of Sample Pieces Collected (Attach Photos): \	
Sample Collected by: SHAMIM MONDAL	Signature: Shamin monde
Sample Packaged and Shipped to TCNA By: SHAMIM MONDAL	Signature: Thamin monde
Shipping Date: 2/1/24	
Carrier/Airbill Number: VPS	
TCNA Receipt Information (Section C)	
Arrival to: Tile Council of North America, Inc.	
100 Clemson Research Boulevard	
Anderson, SC 29625	
Receipt Date: 2,13,2024	
Receipt Date: 2.13.2029 Received By: <u>a shify</u> Moor C Logged into TCNA Database by: <u>a shify</u> Moor C	Signature: amono
Logged into TCNA Database by: QISh 164 M DUY C	
TCNA Test Report #: ()()90 - 29	
Shipment Forwarded To RTP Laboratories By: ashiey moure	Signature: (UMOORE
Shipment Date: 2.12.2024	
Carrier/Airbill Number: URS —	
RTP Laboratories Receipt Information (Section D)	
Arrival to: Research Triangle Park Laboratories, Inc.	
7201 ACC Blvd., Suite 104	
Raleigh, NC 27617	
Raleigh, NC 27617 Receipt Date: 2 - 13 - 2 4	1
Raleigh, NC 27617 Receipt Date: 2-13-24 Received By: Alston Sukes	Signature: A. Jaka
	Signature: 17, Sufres

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PA Registration #68-1664

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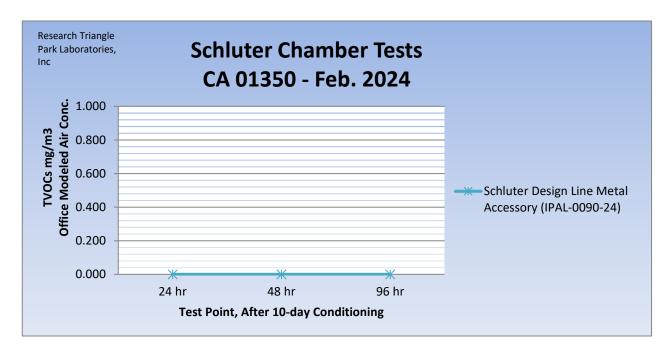
Web Site: <u>www.rtp-labs.com</u>

Photo of Sample Received Feb. 13, 2024: 24-006-06 (IPAL-0090-24) Metal Accessory



California 01350/ASTM D5116 Small Chamber Tests for Volatile Organic Compound Emissions From Products

Project ID: 24-006-06					
Client: Tile Council of North America					
Sample Receipt Date: Feb. 12, 2024					
Test Start Dates: Feb. 15, 2024					
Products:	Modeled Sta	ndard Offic	ce Concent	ration, mg/	/m3
	24 hr	48 hr	96 hr	LOQ	
Schluter Design Line Metal Accessory (IPAL-0090-24)	0.000	0.000	0.000	0.001	



Standard Office Model Parameters:

Room Dimensions: 12 ft length x 10 ft wide x 9.0 ft ht Room Volume: 30.6 m^3 Ventilation Rate: 0.68 air changes per hour Net Floor Surface: 11.15 m^2

Chamber and Sample Conditions:

Chamber Volume: 50 Liters Temperature: 20-25 C; Relative Humidity: 45-55 % Air Exchange Rate: 1 per hour (0.833L/min = 50 liters) Sample Surface Area: 0.0232 m^2 Sample Loading Factor: $0.5 \text{ m}^2/\text{m}^3$ Test Start Date:

10 day conditioning performed prior to 96 h testing.

Project ID: 24-006-06 Sample ID: Schluter Metal Accessory (IPAL-0090-24) Clie

2/12/2024

ient:	IPA Labs

Sample Receipt Date:

IFA Labs							Stand	ard Office Para	meters	
							Room Dimensio	ons, ft	12x10x9.0	
ASTM D5116 Small Chamber Method	Į						Room Volume,	m3	30.6	
							Ventilation Rate	e, ach	0.68	
California Specification 01350							Net Surface Are	ea, m2	11.15	
Office Paints and Wallcoverings Model: 33.4 m2										
Office Flooring Products Model: 11.15 m2			Emission	Factors (ug	g/(m2*h))		Cm	Cm	Cm	
	02/16/24		02/17/24		02/29/24					
	24 hr		48 hr		96 hr					1/2 CRE
	Chamber		Chamber		Chamber		Office: 24 hr	Office: 48 hr		12/2008
	Conc.		Conc.		Conc.		Modeled Air	Modeled Air		(A)Acute
Compound Name	ug/m3	24 hr EF	ug/m3	48 hr EF	ug/m3	96 hr EF	Conc. ug/m3	Conc. ug/m3	Conc. ug/m3	(C)Chro
GC/MS Target, LOQ 2 ng/L (ug/m3)										
None Detected		0 0.0								
		0 0.0		0.0						
		0 0.0	0	0.0	C	0.0	0.0	0.0	0.0	
GC/MS TICs, LOQ 5 ng/L (ug/m3)										
None Dectected		0 0.0								
		0 0.0		0.0			0.0			
		0 0.0		0.0						
		0 0.0				0.0				
		0 0.0		0.0		0.0				
		0 0.0	0	0.0	C	0.0	0.0	0.0	0.0	
<u>HPLC Aldehydes, LOQ 2 ng/L (ug/m3)</u>										
Formaldehyde	0									4.5 C
Acetaldehyde	0	.0 0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	70 C
FVOCs LOQ 25 ng/L (ug/m3) Use 1 for < value	0	.0 0.0	0.0	0.0	0.0) 0.0	0.0	0.0	0.0	ug/m3
			0.0	0.0	0.0	, 0.0	0.000			mg/m3
							Dan antin n Lin			

2/15/2024

0.000 0.000 Reporting Limit, 0.001 mg/m3