



OPERATE IN THE **SUCCESS ZONE**

LEED IAQ TESTING SERVICES

INDUSTRIAL HYGIENE SERVICES
NORTH AMERICA

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SGS

Meet the **LEED Indoor Air Quality** Standards with Customized Testing Kits

If you're ready to meet the standards, our SGS Galson LEED Indoor Air Quality Testing Kits have everything you need to comply; and we're ready to help you every step of the way.

SGS Galson is your one-stop shop for everything you need to implement your LEED IEQ management plan. No one else can provide media, equipment and analysis, and no one does it better!

YOUR SINGLE SOURCE FOR LEED EQUIPMENT, TESTING AND ANALYSIS.

We offer two LEED Indoor Air Quality Testing Kits, both for the same cost. Our LEED v4.0 and v4.1 Indoor Air Quality Testing Kits are designed for:

- Re-use through multiple building zones to prevent renting duplicate instruments, reducing cost
- Shipping included both ways within the U.S.
- Gain 1 LEED credit with v4.0 and 2 credits with v4.1
- Gain up to 2 points with v4.1 and 2 points with v4.0



Example set up pictured; other options are available.

LEED v4.0 LIST OF CONTAMINANTS

CONTAMINANT	MAXIMUM ALLOWABLE CONCENTRATION	METHOD	SAMPLING MEDIA	SAMPLING TIME	TOTAL AIR VOLUME
Formaldehyde	27 ppb	ASTM D5197	Assay 581 PM	4 hours	N/A
Acetaldehyde	140 ug/m ³	ASTM D 5197	Assay 581 PM	4 hours	N/A
Particulates	50 µg/m ³	PM10 Gravimetric	GilAirPlusPump at 4.0 LPM w/ PEM	4 hours 15 min.	1020 L
Carbon Monoxide	9 ppm and no greater than 2 ppm above the outdoor levels	N/A	Direct Read Instrument	Continuous Data Logging	N/A
Dimethylformamide (N,N-)	40 µg/m ³	EPA TO-17	Pump at 0.05 LPM w/TD Tube	4 hours	12L
Epichlorohydrin	1.5 µg/m ³				
Ethylene glycol	200 µg/m ³				
Ethylene glycol monoethyl ether	35 µg/m ³				
Ethylene glycol monoethyl ether acetate	150 µg/m ³				
Ethylene glycol monomethyl ether	30 µg/m ³				
Ethylene glycol monomethyl ether acetate	45 µg/m ³				
Isophorone	1,000 µg/m ³				
Phenol	100 µg/m ³				
Propylene glycol monomethyl ether	3,500 µg/m ³				
TVOCs/ Remaining 25 Target Chemicals	500 µg/m ³ ; remaining listed in CDPH Standard Method v1.1-2010	EPA TO-15	Minican w/ 4hr. Reg.	4 hours	N/A

Our LEED v4.1 kit improves upon v4.0 by simplifying the process with fewer instruments, 100% in-house analysis, and faster results. With Version 4.1 you can expect:

- CO, Ozone and HCHO will all remain the same
- PM 10 and PM 2.5 no longer require lab analysis; use your direct-read field instrument
- Total VOCs only need an initial screening test for TVOC by Method TO15 or TO17
 - If below 500 µg/m³, testing is completed
 - If above 500 µg/m³, run the additional 10 VOCs listed in Table 2 below

LEED V4.1 LIST OF CONTAMINANTS

CONTAMINANT	CONCENTRATION LIMIT	METHODS	SAMPLING MEDIA	SAMPLING TIME	TOTAL AIR VOLUME
TABLE 1. PARTICULATE MATTER AND INORGANIC GASES					
Carbon monoxide (CO)	9 ppm; no more than 2 ppm above outdoor levels	ISO 4224 EPA Compendium Method IP-3 GB/T 18883-2002 for projects in China Direct calibrated electrochemical instrument with accuracy of (+/- 2% ppm <50 ppm minimum accuracy).	Direct Read Instrument	Continuous Data Logging	N/A
PM 10	ISO 14644-1:2015, cleanroom class of 8 or lower 50 µg/m ³ Healthcare only: 20 µg/m ³	Particulate monitoring device with accuracy greater of 5 µg/m ³ or 20% of reading and resolution (5 min average data) +/- 5 µg/m ³	Direct Read Instrument		
PM 2.5	12 µg/m ³ or 35 µg/m ³ **		Direct Read Instrument		
Ozone*	0.07 ppm	Monitoring device with accuracy greater of 5 ppb or 20% of reading and resolution (5 min average data) +/- 5 ppb ISO 13964 ASTM D5149 — 02 EPA designated methods for Ozone	Direct Read Instrument		
TABLE 2. VOLATILE ORGANIC COMPOUNDS					
Formaldehyde	20 µg/m ³ (16 ppb)	ISO 16000-3, 4; EPA TO-11a, EPA comp. IP-6	Assay 581 PM	4-8 hours	N/A
Acetaldehyde	140 µg/m ³	ASTM D5197-16			
Benzene	3 µg/m ³	ISO 16000-6 EPA IP-1, EPA TO-17, EPA TO-15	EPA TO-15	4 hours	N/A
Hexane (n-)	7000 µg/m ³	ISO 16017-1, 2; ASTM D6196-15	Minican w/ 4hr. Reg.		
Naphthalene	9 µg/m ³				
Phenol	200 µg/m ³		EPA TO 17	4 hours	12L
Styrene	900 µg/m ³		EPA TO-15	4 hours	N/A
Tetrachloroethylene	35 µg/m ³		Minican w/ 4hr. Reg.		
Toluene	300 µg/m ³				
Vinyl acetate	200 µg/m ³				
Dichlorobenzene (1,4-)	800 µg/m ³				
Xylenes-total	700 µg/m ³				

* SGS Galson can provide laboratory analysis for ozone by mod. OSHA ID-214 which is different than the technique specified for ozone in the USGBC LEED v4.1 documentation. Check with your USGBC representative to confirm whether data by this method will be accepted for your project.

**Projects in areas with high ambient levels of PM2.5 (known EPA nonattainment areas for PM2.5, or local equivalent) must meet the 35 ug/m3 limit, all other projects should meet the 12 ug/m3 limit. (QUOTED)

We are SGS - the world's leading inspection, testing and certification company.

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