

CERTIFICATE OF COMPLIANCE



Okamura

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UL 2818 - 2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

21646-410

Certificate Number

03/29/2012 - 03/03/2018

Certificate Period

Certified

Status

Commercial furniture and furnishings are tested in accordance with ANSI/BIFMA M7.1-2011(R2016) and determined to comply with ANSI/BIFMA X7.1-2011(R2016) and ANSI/BIFMA e3-2014e Credit 7.6.1 in an Open Plan Office and Private Office environment.

Products tested in accordance with UL 2821 test method to show compliance to emission limits in UL 2818, Section 7.1.



Environment

GREENGUARD Certification Criteria for Individual Office Furniture Products

Criteria	CAS Number	Maximum Allowable Emission Factor		Units
		Open Plan	Private Office	
TVOC ^(A)	-	345	694	µg/m ² *hr
Formaldehyde	50-00-0	42.3	85.1	µg/m ² *hr
Total Aldehydes ^(B)	-	2.8	5.7	µmol/m ² *hr
4-Phenylcyclohexene	4994-16-5	4.5	9.0	µg/m ² *hr
Individual VOCs ^(C)	-	1/10th TLV	1/10th TLV	-

- (A) Defined to be the total response of measured VOCs falling within the C₆ – C₁₆ range, with responses calibrated to a toluene surrogate.
- (B) The sum of all measured normal aldehydes from formaldehyde through nonanal, plus benzaldehyde, individually calibrated to a compound specific standard. Heptanal through nonanal are measured via TD/GC/MS analysis and the remaining aldehydes are measured using HPLC/UV analysis.
- (C) Allowable levels for chemicals not listed are derived from 1/10th of the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, and Cincinnati, OH 45211-4438).



Environment