## **CERTIFICATE**OF COMPLIANCE



Okamura

okamura / okamura Luce

17634-420

Certificate Number

01/04/2019 - 12/03/2020

Certificate Period

Certified

Status

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

Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818. Section 7.1 and 7.2.



## **GREENGUARD Gold Certification Criteria for Office Furniture Seating**

| Criteria                     | CAS Number | Maximum Allowable Predicted Concentration | Units |
|------------------------------|------------|-------------------------------------------|-------|
| TVOC (A)                     | -          | 0.22                                      | mg/m³ |
| Formaldehyde                 | 50-00-0    | 4.5 (3.65 ppb)                            | μg/m³ |
| Total Aldehydes (B)          | -          | 0.043                                     | ppm   |
| 4-Phenylcyclohexene          | 4994-16-5  | 6.5                                       | μg/m³ |
| 1-Methyl-2-pyrrolidinone (C) | 872-50-4   | 80                                        | μg/m³ |
| Individual VOCs (D)          | -          | 1/4 CREL<br>or<br>1/100th TLV             | -     |

<sup>(</sup>A) Defined to be the total response of measured VOCs falling within the C6 – C16 range, with responses calibrated to a toluene surrogate.



<sup>(</sup>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.

<sup>(</sup>C) Based on the CA Prop 65 Maximum Allowable Dose Level for inhalation of 3,200 µg/day and an inhalation rate of 20 m<sup>3</sup>/day.

<sup>(</sup>D) Allowabe levels for chemicals not listed are derived from the lower of 1/4 the California Office of Environmental Health Hazard Assessment (OEHHA) Chronic Reference Exposure Level (CREL) as required per the CDPH/EHLB/Standard Method v1.2 and BIFMA level credit 7.6.2 and 1/100th 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).