## **CERTIFICATE**OF COMPLIANCE



## Fritz Hansen A/S

Swan™

57401-410

Certificate Number

30 Apr 2014 - 28 Apr 2024

Certificate Period

Certified

Status

UL 2818 - 2022 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

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 e3-2019 Credit 7.6.1. Seating products are modeled in the seating environment with a ventilation rate of 24.8 m³/hour.

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





## GREENGUARD Certification Criteria for Mattresses, Bedding, Component Materials and Seating Units

Criteria	CAS Number	Maximum Allowable Predicted Concentration	Units
TVOC <sub>(A)</sub>	-	0.25	mg/m³
Formaldehyde	50-00-0	30.7 (25 ppb)	μg/m³
Total Aldehydes (B)	-	0.50	ppm
4-Phenylcyclohexene (C)	4994-16-5	3.25	μg/m³
Individual VOCs (D)	-	1/10th 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) Applicable to flooring and furniture, including component materials.

<sup>(</sup>D) 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).