

# CERTIFICATE OF COMPLIANCE



## JSI Apogee Series

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

67907-410

Certificate Number

05/27/2011 - 12/02/2018

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 a 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 <sup>(A)</sup>            | -          | 345                               | 694            | µg/m <sup>2</sup> *hr   |
| Formaldehyde                   | 50-00-0    | 42.3                              | 85.1           | µg/m <sup>2</sup> *hr   |
| Total Aldehydes <sup>(B)</sup> | -          | 2.8                               | 5.7            | µmol/m <sup>2</sup> *hr |
| 4-Phenylcyclohexene            | 4994-16-5  | 4.5                               | 9.0            | µg/m <sup>2</sup> *hr   |
| Individual VOCs <sup>(C)</sup> | -          | 1/10th TLV                        | 1/10th TLV     | -                       |

- (A) Defined to be the total response of measured VOCs falling within the C<sub>6</sub> – C<sub>16</sub> 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**