

# CERTIFICATE OF COMPLIANCE



**JSI**  
Bravado Series

94945-410  
Certificate Number

06/12/2017 - 12/02/2019  
Certificate Period

Certified  
Status

UL 2818 - 2013 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 e3-2014e 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**