



# Certificate of Compliance

## Certification Details:

**Certificate No:** 9017611-20

**Status:** Certified

**Period:** 5/2009 - 5/2011

**Restrictions:** Excludes non-GREENGUARD certified leather upholstery options

## Zag

### Source International

This product has been certified according to the GREENGUARD Children & Schools Certification Program for Low Emitting Products

**Reference Standard:** GGPS.002 GREENGUARD Children & Schools<sup>sm</sup> Standard

**Product Type:** All Products

Criteria	Allowable Limits
Individual VOCs <sup>1</sup>	< 1/100 TLV and < 1/2 CA chronic REL
Formaldehyde	< 0.0135 ppm /13.5 ppb
TVOC <sup>2</sup>	< 0.22 mg/m <sup>3</sup>
Total Aldehydes <sup>3</sup>	< 0.043 ppm /43 ppb
Total Phthalates <sup>4</sup>	< 0.01 mg/m <sup>3</sup>
Total Particles <sup>5</sup>	< 0.02 mg/m <sup>3</sup>

See referenced standard for a complete technical explanation.

Complies with California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers" (CA/DHS/EHLB/R-174 or California Specification 01350)

<sup>1</sup>Any VOC not listed must produce an air concentration level no greater than 1/100 the Threshold Limit Value (TLV) industrial work place criterion (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, Cincinnati, Ohio 45211-4438) and no greater than 1/2 the CA Chronic Reference Exposure Level (CREL) [http://www.oehha.ca.gov/air/chronic\\_rels/AllChrels.html](http://www.oehha.ca.gov/air/chronic_rels/AllChrels.html) - (CRELs) Adopted by the State of California Office of Environmental Health Hazard Assessment (OEHHA), December 2008).

<sup>2</sup>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.

<sup>3</sup>Defined to be the total response of a target list of aldehydes (2-butenal; acetaldehyde; benzaldehyde; 2, 5-dimethylbenzaldehyde, 2-methylbenzaldehyde; 3-and/or 4-methylbenzaldehyde; butanal; 3-methylbutanal; formaldehyde; hexanal; pentanal; propanal), with each individually calibrated to a compound specific standard.

<sup>4</sup>Total phthalates include dibutyl (DBP), diethylhexyl (DEHD), diethyl (DEP), butylbenzyl (BBP), di-octyl (DOP), and dimethyl (DMP) phthalates.

<sup>5</sup>Particles are only applicable to fibrous, particle-releasing products with exposed surface area in air streams.

GREENGUARD Certification affirms that products meet the criteria of the referenced standard and the requirements of the specific certification program. Certification testing is conducted according to a consistent, defined protocol. The testing does not evaluate emissions under usage conditions other than those defined in the protocol and does not address potential environmental impact other than chemical and particle emissions.

The GREENGUARD Environmental Institute (GEI) is an industry independent, third-party certification organization that qualifies products for low chemical emissions. GREENGUARD Certification programs use defined product standards, test methodologies, product sample collection and handling procedures, program application processes and on-going verification procedures. GREENGUARD standards, methods, and procedures are available at [www.GREENGUARD.org](http://www.GREENGUARD.org).