

# Certificate of Compliance

## Certificate

188574-410

## Issue Date

20 Nov 2020

## Expiry Date

13 Jun 2027



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Director and General Manager

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UL Verification Services does hereby certify that an independent assessment has been conducted on behalf of:

## Windmüller GmbH

for the following product:

## wineo 1200 to glue

The product has been evaluated and meets the requirements for:

## GREENGUARD™

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

*Flooring is determined compliant in accordance with an Office environment with an air change of  $0.68 \text{ hr}^{-1}$  and a loading of  $11.10 \text{ m}^2$ .*

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## GREENGUARD Certification Criteria for Building Products and Interior Finishes

| Criteria                                       | CAS Number | Maximum Allowable Predicted Concentration | Units             |
|------------------------------------------------|------------|-------------------------------------------|-------------------|
| TVOC <sup>(A)</sup>                            | -          | 0.50                                      | mg/m <sup>3</sup> |
| Formaldehyde                                   | 50-00-0    | 61.3 (50 ppb)                             | µg/m <sup>3</sup> |
| Total Aldehydes <sup>(B)</sup>                 | -          | 0.10                                      | ppm               |
| Particle Matter less than 10 µm <sup>(C)</sup> | -          | 50                                        | µg/m <sup>3</sup> |
| 4-Phenylcyclohexene                            | 4994-16-5  | 6.5                                       | µg/m <sup>3</sup> |
| Individual VOCs <sup>(D)</sup>                 | -          | 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. Maximum allowable predicted TVOC concentrations for GREENGUARD (0.50 mg/m<sup>3</sup>) fall in the range of 0.5 mg/m<sup>3</sup> or less, as specified in CDPH Standard Method v1.2.
- (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) Particle emission requirement only applicable to HVAC Duct Products with exposed surface area in air streams (a forced air test with specific test method) and for wood finishing (sanding) systems.
- (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).