

# CERTIFICATE OF COMPLIANCE



## Doellken, Germany

### 3D Edgebanding - High Gloss

15198-410

Certificate Number

09/29/2010 - 09/29/2018

Certificate Period

Certified

Status

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

Building materials are determined compliant in accordance with a 32m<sup>3</sup> Room environment with an air change of 0.72 hr<sup>-1</sup> and a loading of 1.50 m<sup>2</sup>.

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 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 v1.1.
- (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).



**Environment**