Classroom furniture and furnishings are modeled to the classroom environment with a room volume of 231 m³ and 0.82 air changes per hour (ACH) accommodating 27 students.

Products tested in accordance with UL 2821 test method to show compliance to emission limits in UL 2818, Section 7.1.
### GREENGUARD Certification Criteria for Building Products and Interior Finishes

<table>
<thead>
<tr>
<th>Criteria</th>
<th>CAS Number</th>
<th>Maximum Allowable Predicted Concentration</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVOC (^{(A)})</td>
<td>-</td>
<td>0.50</td>
<td>mg/m³</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>50-00-0</td>
<td>61.3 ((50 \text{ ppb}))</td>
<td>µg/m³</td>
</tr>
<tr>
<td>Total Aldehydes (^{(B)})</td>
<td>-</td>
<td>0.10</td>
<td>ppm</td>
</tr>
<tr>
<td>Particle Matter less than 10 µm (^{(C)})</td>
<td>-</td>
<td>50</td>
<td>µg/m³</td>
</tr>
<tr>
<td>4-Phenylcyclohexene</td>
<td>4994-16-5</td>
<td>6.5</td>
<td>µg/m³</td>
</tr>
<tr>
<td>Individual VOCs (^{(D)})</td>
<td>-</td>
<td>1/10th TLV</td>
<td>-</td>
</tr>
</tbody>
</table>

\(^{(A)}\) Defined to be the total response of measured VOCs falling within the C\(_6\) – C\(_{16}\) range, with responses calibrated to a toluene surrogate. Maximum allowable predicted TVOC concentrations for GREENGUARD \((0.50 \text{ mg/m}^3)\) fall in the range of 0.5 mg/m\(^3\) 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 \((a \text{ forced air test with specific test method})\) and for wood finishing \((\text{sanding})\) systems.

\(^{(D)}\) Allowable levels for chemicals not listed are derived from 1/10th of the Threshold Limit Value \((\text{TLV})\) industrial workplace standard \((\text{Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, and Cincinnati, OH 45211-4438})\).