Husqvarna Construction Products performed monitoring of Ultra Early Entry™ sawing to assess operator and the surrounding environment’s exposure to respirable dust and silica. The test used a Soff-Cut 4000 saw operator along with accompanying sweeper in accordance with OSHA’s Respirable Crystalline Silica Standard.

Under testing conditions, Ultra Early Entry™ cuts made during the Green Zone™ are below OSHA’s PELs. See below for a synopsis of the test. To access the original third party objective data test results, please visit www.husqvarnacp.com/us/silica.

Testing was performed under the following outdoor conditions:
- 6,400 lineal feet of control joints spaced on 12 foot centers with a 2 inch depth of cut
- Application was a slab on grade pour that had a surface area of 40,000 square feet and was 8 inches thick
- Personal samples collected from two concrete finishers
  - Personal samples were taken from air pumps and cyclones mounted on the operator and sweeper. The air pump was clipped on a pants pocket and the cyclone was clipped on a shirt collar.
- Air sampling for respirable dust and silica was performed using air sampling pumps and chemical-specific sampling media. A cyclone was also used to capture the respirable fraction of the dust for silica and respirable dust samples. The cassette and cyclone were affixed to the Husqvarna Soff-Cut 4000 saw in order to determine levels of respirable dust and silica closest to the blade.
  - Pumps were pre-calibrated and calibration was also verified after the sampling was complete.
- Samples were analyzed by Galson Laboratories, Inc., which is accredited by the American Industrial Hygiene Association (AIHA).

**TEST 1 RESULTS**

<table>
<thead>
<tr>
<th>Area/Position</th>
<th>Time (min)</th>
<th>Cristobalite Result</th>
<th>Quartz Result</th>
<th>Respirable Dust Result</th>
<th>Tridymite Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area (affixed to the saw)</td>
<td>215</td>
<td>LDL</td>
<td>30 µg/m³</td>
<td>.40 mg/m³</td>
<td>LDL</td>
</tr>
<tr>
<td>Concrete Finisher - Cutting</td>
<td>218</td>
<td>LDL</td>
<td>5.35 µg/m³</td>
<td>.08 mg/m³</td>
<td>LDL</td>
</tr>
<tr>
<td>Concrete Finisher - Sweeping</td>
<td>212</td>
<td>LDL</td>
<td>LDL</td>
<td>.04 mg/m³</td>
<td>LDL</td>
</tr>
</tbody>
</table>

1 OSHA Standard: 25 µg/m³ AL and 50 ug/m³ PEL. ACGIH TLV Standard: 25 ug/m³
2 OSHA Standard: 25 ug/m³ AL and 50 ug/m³ PEL. ACGIH TLV Standard: 25 ug/m³
3 OSHA Standard: 5 mg/m³; ACGIH TLV Standard: 3 mg/m³
4 OSHA Standard: 25 ug/m³ AL and 50 ug/m³ PEL

*Please note that the weather may have impacted the results. Wind gusts between 15-30 mph occurred frequently during the sampling period.

These test results are meant to give contractors an example of Ultra Early Entry OSHA PEL results. Job sites, weather and other conditions will vary and have an effect on exposure levels. If you have any questions, please contact your local OSHA division or www.osha.gov/silica.