1. Basis of the product report:
   - APA Custom Product Specification E-740
   - ANSI 117, Standard Specification for Structural Glued Laminated Timber of Softwood Species
   - ANSI A190.1, Product Standard for Structural Glued Laminated Timber
   - ANSI/APA PRG 320, Standard for Performance-Rated Cross-Laminated Timber
   - CAN/CSA O122, Structural glued-laminated timber
   - APA Test Reports (see Table 2) and other qualification data

2. Product description:
   Glulam products are manufactured with layup combinations documented in ANSI 117, or the in-plant manufacturing standard and approved by APA. Glulam products are available in a variety of sizes. CLT products are manufactured with grade characteristics specified in ANSI/APA PRG 320 and are available in a variety of sizes.

3. Formaldehyde emission level:
   The G-5 rating is a formaldehyde emission level as defined in Table 1. Glulam and CLT products have been qualified for low formaldehyde emissions following the principles of ISO 12460-4 and AS/NZS 4357.4:2005, and the performance requirements of ANSI A190.1 or CAN/CSA O122, and ANSI/APA PRG 320, respectively. Glulam and CLT products meeting the formaldehyde emission level specified in Table 1 in accordance with the APA Custom Product Specification E-740 are listed in Table 2.

   Table 1. Upper formaldehyde emission level for G-5 rating following the principles of ISO 12460-4 and AS/NZS 4357.4:2005\(^{(a)}\)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Average</td>
<td>0.20 mg/per liter</td>
</tr>
<tr>
<td>Individual specimen</td>
<td>0.30 mg/per liter</td>
</tr>
</tbody>
</table>

   \(^{(a)}\) Glulam products and CLT are outside the scope or exempt from CARB ATCM for formaldehyde from composite wood products, EPA’s TSCA Title VI for formaldehyde from composite wood products, HUD regulation for formaldehyde, and CAN/CSA-O160 for formaldehyde from composite wood products. The tabulated formaldehyde emission level in the G-5 standard is more stringent than the E\(_0\) of AS/NZS 4357.4:2005 and F\(*\,*\,*\,*\,*\) of JAS Standard for Glulam, MAFF Notification 475.

4. Limitations:
   a) Glulam and CLT products shall be designed and installed in accordance with the applicable provisions of the code and the recommendations provided by the manufacturer.
   b) Glulam and CLT products are limited to dry service conditions that result in the average equilibrium moisture content of sawn lumber of less than 16 percent.
   c) Glulam and CLT products are produced by the manufacturing facility shown in Table 2 under a quality assurance program audited by APA in accordance with the APA Custom Product Specification E-740.
   d) This report is subject to re-examination in one year.
5. Identification:
Glulam and CLT products are identified by a label bearing the manufacturer’s name and/or trademark, the APA assigned plant number, the product standard (ANSI A190.1 or CAN/CSA O122 for glulam, and ANSI/APA PRG 320 for CLT), the combination symbol for glulam or grade designation for CLT, the APA logo, the product report number PR-E740, and the formaldehyde emission rating G-5.

Table 2. Qualified Manufacturing Facility for Low Formaldehyde Emission

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Location</th>
<th>Mill Number</th>
<th>APA Test Report&lt;sup&gt;(a)&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nordic Structures (Glulam)</td>
<td>Chibougamau, QC</td>
<td>1057</td>
<td>T2016P-7</td>
</tr>
<tr>
<td>Nordic Structures (CLT)</td>
<td>Chibougamau, QC</td>
<td>1112</td>
<td>T2016P-7</td>
</tr>
</tbody>
</table>

<sup>(a)</sup> Reports for the required periodic confirmation tests are not listed.