SECTION 414.2.2
IFC Interpretation No. 52-07
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[F] 414.2.2 Percentage of maximum allowable quantities. The percentage of maximum allowable quantities of hazardous materials per control area allowed at each floor level within a building shall be in accordance with Table 2703.8.3.2.

<table>
<thead>
<tr>
<th>FLOOR LEVEL</th>
<th>PERCENTAGE OF THE MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA</th>
<th>NUMBER OF CONTROL AREAS PER FLOOR</th>
<th>FIRE-RESISTANCE RATING FOR FIRE BARRIERS IN HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above grade plane</td>
<td>Higher than 9 7-9 6 5 4 3 2 1</td>
<td>5 12.5 12.5 50 75 100</td>
<td>1 5 2 2 2 3 2</td>
</tr>
<tr>
<td>Below grade plane</td>
<td>1 2 Lower than 2</td>
<td>75 50 Not Allowed</td>
<td>3 2 Not Allowed</td>
</tr>
</tbody>
</table>

a. Percentages shall be of the maximum allowable quantity per control area shown in [F] Tables 307.1(1) and [F] 307.1(2), with all increases allowed in the footnotes to those tables.
b. Fire barriers shall include walls and floors as necessary to provide separation from other portions of the building.

**Q:** Given a non-sprinklered multi-story building of Type IIB construction. The building is used for the storage of hazardous materials that exceeds the maximum allowable quantity permitted for a single control area in accordance with [F] Table 307.1(1) and [F] Table 307.1(2) of the *International Building Code*. An interior fire barrier is constructed that spans from the foundation to the roof for the entire height of the building. There are no fire-resistance-rated horizontal assemblies provided between floors. Therefore, the entire building is defined as having two independent multi-story control areas.

Are the provisions of Section [F] 414.2.2 of the *International Building Code*, which limit the percentage of the maximum allowable quantity of hazardous materials for any floor, applicable to a multi-story building consisting of multiple control areas?

**A:** Yes. When the quantity of hazardous material being stored in each control area is equal to or less than the maximum allowable quantity per control area in [F] Table 307.1(1) and [F] Table 307.1(2), the maximum allowable quantity of material per control area may be located anywhere within a multi-story control area, subject to the per-floor limitations of [F] Table 414.2.2.