

| ELEMENT  | $K_{LL}$ |
|--|----------|
| Interior columns   | 4        |
| Exterior columns without cantilever slabs  | 4        |
| Edge columns with cantilever slabs   | 3        |
| Corner columns with cantilever slabs   | 2        |
| Edge beams without cantilever slabs  | 2        |
| Interior beams   | 2        |
| All other members not identified above including:<br>Edge beams with cantilever slabs<br>Cantilever beams<br>One-way slabs<br>Two-way slabs<br>Members without provisions for continuous shear transfer normal to their span | 1        |

**1607.9.1.1 One-way slabs.** The tributary area,  $A_T$ , for use in Equation 16-22 for one-way slabs shall not exceed an area defined by the slab span times a width normal to the span of 1.5 times the slab span.

**1607.9.1.2 Heavy live loads.** Live loads that exceed 100 psf (4.79 kN/m<sup>2</sup>) shall not be reduced.

**Exceptions:**

1. The live loads for members supporting two or more floors are permitted to be reduced by a maximum of 20 percent, but the live load shall not be less than  $L$  as calculated in Section 1607.9.1.
2. For uses other than storage, where *approved*, additional live load reductions shall be permitted where shown by the *registered design professional* that a rational approach has been used and that such reductions are warranted.

**1607.9.1.3 Passenger vehicle garages.** The live loads shall not be reduced in passenger vehicle garages.

**Exception:** The live loads for members supporting two or more floors are permitted to be reduced by a maximum of 20 percent, but the live load shall not be less than  $L$  as calculated in Section 1607.9.1.

**1607.9.1.4 Group A occupancies.** Live loads of 100 psf (4.79 kN/m<sup>2</sup>) and at areas where fixed seats are located shall not be reduced in Group A occupancies.

**1607.9.1.5 Roof members.** Live loads of 100 psf (4.79 kN/m<sup>2</sup>) or less shall not be reduced for roof members except as specified in Section 1607.11.2.

**1607.9.2 Alternate floor live load reduction.** As an alternative to Section 1607.9.1, floor live loads are permitted to be reduced in accordance with the following provisions. Such reductions shall apply to slab systems, beams, girders, columns, piers, walls and foundations.

1. A reduction shall not be permitted in Group A occupancies.
2. A reduction shall not be permitted where the live load exceeds 100 psf (4.79 kN/m<sup>2</sup>) except that the design live load for members supporting two or more floors is