

## 780 CMR 16.00 STRUCTURAL DESIGN

### 780 CMR 1604.0 GENERAL DESIGN REQUIREMENTS . . .

**1604.3.3 Steel.** The deflection of steel structural members shall not exceed that permitted by AISC LRFD, AISC HSS, AISC 335, ~~AISI-NASPEC,~~ AISI-General, AISI-Truss, **AISI Truss**, ASCE 3, ASCE 8, **SJI K-1.1, SJI LH/DLH-1.1, AND SJI JG-1.1,** ~~-SSD-LRFD/ASD, and the standard specifications of SJI Standard Specifications, Load Tables and Weight Tables for Steel Joists and Joist Girders as applicable.~~

**1604.3.4 Masonry.** The deflection of masonry structural members shall not exceed that permitted by ACI 530/ASCE 5/TMS 402.

**1604.3.5 Aluminum.** The deflection of aluminum structural members shall not exceed that permitted by ~~AA-94~~ **AA ADM-1.**

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**1607.9.1.1 Heavy Live Loads.** Live loads that exceed 100 pounds per **square** foot ~~squared~~ (4.79 kN/m<sup>2</sup>) shall not be reduced except the live loads for members supporting two or more floors are permitted to be reduced by a maximum of 20%, but the live load shall not be less than  $L$  as calculated in 780 CMR 1607.9.1.

**1607.9.1.2 Passenger Car Garages.** The live loads shall not be reduced in passenger vehicle garages except the live loads for members supporting two or more floors are permitted to be reduced by a maximum of 20%, but the live load shall not be less than  $L$  as calculated in 780 CMR 1607.9.1.

**1607.9.1.3 Assembly Occupancies.** Live loads of 100 pounds per **square** foot ~~squared~~ (4.79 kN/m<sup>2</sup>) or less shall not be reduced in assembly

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occupancies, except that the live loads for members supporting two or more floors are permitted to be reduced by a maximum of 20%,

but the live load shall not be less than  $L$  as calculated in 780 CMR 1607.9.1.

**1607.9.1.4 Special Structural Elements.** Live loads shall not be reduced for one-way slabs except as permitted in 780 CMR 1607.9.1.1. Live loads of 100 pound per **square** foot squared (4.79 kN/m<sup>2</sup>) or less shall not be reduced for roof members except as specified in 780 CMR 1607.

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## **780 CMR 1615.0 EARTHQUAKE LOADS – MODIFICATIONS TO APPLICABLE PROVISIONS OF ASCE 7**

*(Note that the following subsections, commencing with the prefix number “9” are referring to applicable sections of ASCE 7).*

### **1615.1 Changes to Applicable ASCE 7 Sections.**

The provisions of ASCE 7, Sections 9.1.2.4, 9.1.2.5, 9.1.3, 9.1.4, 9.2 through 9.6, 9.13 and 9.14 and all associated sub-sections shall apply except for certain paragraphs of those sections and sub-sections which have been modified or added as provided below:

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#### **9.5.2.6.2.5 Nonredundant Systems.**

The design of a structure shall consider the potentially adverse effect that the failure of a single member, connection, or component of the seismic force-resisting system will have on the stability of the structure; see ~~780 CMR 1604.11.11.2.~~