

 <p><b>CITY OF MILPITAS</b>  Office of Building Safety  455 E. Calaveras Blvd.  Milpitas, CA 95035  408-586-3240  <a href="http://www.milpitas.gov">www.milpitas.gov</a></p>	<b>Policy:</b>	<b>BDP-BLG15</b>
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## **INDIVIDUAL FIRE PROTECTION OF PRIMARY STRUCTURAL FRAME**

### **CODE REFERENCES:**

2022 CBC Section 202, Table 601, 704.2, 704.3.

### **ISSUES:**

CBC section 704.2 specifies: “Where columns are required to have protection to achieve a fire-resistance rating, the entire column shall be provided individual encasement protection by protecting it on all sides for the full column height, including connections to other structural members, with materials having the required fire-resistance rating.”

CBC section 704.3 specifies: “Members of the primary structural frame other than columns that are required to have protection to achieve a fire-resistance rating and support more than two floors or one floor and roof, or support a load-bearing wall or a nonload-bearing wall more than two stories high, shall be provided individual encasement protection by protecting them on all sides for the full length, including connections to other structural members, with materials having the required fire-resistance rating.

This policy clarifies the criteria on for determining when columns and beams are considered primary structural frame and what is considered individual protection when the columns and beams are within stud walls.

### **POLICY:**

1. The Engineer of Record shall clearly define on the structural framing plans which columns and beams are considered primary structural frame requiring individual fire protection per CBC sec. 704.2 and 704.3 for review and approval.
2. A separate framing plan identifying all primary structural framing members and the required fire rating shall be provided. Detail references shall be provided for the fire rated assembly details of each framing member