

# PLF CHART NOTES

(REFERENCE PAGES 4-9)

1. Floor Systems are designed using LDF=1.0. The Live Load Deflection Limit is  $l/360$  and the Total Load Deflection Limit is  $l/240$ .
2. Roof Systems are designed using LDF=1.15 or 1.25. The Live Load Deflection Limit is  $l/240$  and the Total Load Deflection Limit is  $l/180$ .
3. The first line of each table indicates the allowable load carrying capacity in pounds per lineal foot (plf) with a deflection limit based on the total load and includes the weight of the member.
4. The second line of each table indicates the allowable load carrying capacity in pounds per lineal foot (plf) with a deflection limit based on the live load.
5. Each table shows spans from 6 to 40 feet.
6. Values provided are the maximum uniform loads in pounds per lineal foot (plf) that can be applied to the beam in addition to its own weight. Allowable plf loads are based on the minimum bearing length required to carry the load.
7. Interpolation between clear openings is permitted.
8. For live load deflection factors of  $l/180$  and  $l/360$ , multiply the Maximum Live Load figure (row 2) by 1.333 and 0.667, respectively. The result shall not exceed the total load.
9. "Actual Span," which is also the design span, is assumed to be the clear opening plus  $1/2$  the actual required bearing length at each end. For example, if the clear opening is 18 feet and the bearing length on each side of the clear opening is two trimmers (3 inches), the actual span is 18 feet 3 inches and this is the span that should be used to select the plf allowable load.
11. These tables are for gravity loads only. Consult a professional engineer for wind and seismic load analysis and design.
12. All tables are based on uniform load conditions. Any concentrated load applications must be analyzed separately or converted to an equivalent uniform load.
13. The compression edge of the header or beam must be laterally supported at intervals of 24" or less. In addition, lateral support must be provided at bearing points.
14. Allowable total and live plf loads used to select a header or beam must be equal to or greater than the actual plf loads applied.