

Further modifying factors are given in order to account for the effects of grade and percentage of tension reinforcement and percentage of compression reinforcement.

2.5.2 In normal designs where the reinforcement provided is equal to that required from strength considerations, the basic values of span to effective depth can be multiplied by the appropriate values of the modifying factors and given in a form suitable for direct reference. Such charts have been prepared as explained below:

- a) The basic span to effective depth ratio for simply supported members is multiplied by the modifying factor for tension reinforcement (Fig. 3 of the Code) and plotted as the base curve in the chart. A separate chart is drawn for each grade of steel. In the chart, span to effective depth ratio is plotted on the vertical axis and the tensile reinforcement percentage is plotted on the horizontal axis.
- b) When the tensile reinforcement exceeds $p_{t,lim}$ the section will be doubly reinforced. The percentage of compression reinforcement is proportional to the additional tensile reinforcement ($p_t - p_{t,lim}$) as explained in 2.3.2. However, the value of $p_{t,lim}$ and p_c will depend on the grade of concrete also. Therefore, the values of span to effective depth ratio according to base curve is modified as follows for each grade of concrete:
 - 1) For values of p_t greater than the appropriate value of $p_{t,lim}$, the value of $(p_t - p_{t,lim})$ is calculated and then the percentage of compression reinforcement p_c required is calculated. Thus, the value of p_c corresponding to a value of p_t is obtained. (For this purpose d'/d has been assumed as 0.10 but the chart, thus obtained can generally be used for all values of d'/d in the normal range, without significant error in the value of maximum span to effective depth ratio.)
 - 2) The value of span to effective depth ratio of the base curve is multiplied by the modifying factor for compression reinforcement from Fig. 4 of the Code.
 - 3) The value obtained above is plotted on the same Chart in which the base curve was drawn earlier. Hence the span to effective depth ratio for doubly reinforced section is plotted against the tensile reinforcement percentage p_t without specifically indicating the value of p_c on the Chart.

2.5.3 The values read from these Charts are directly applicable for simply supported members of rectangular cross section for spans up to 10 m. For simply supported or continuous spans larger than 10 m, the values should be further multiplied by the factor (10/span in metres). For continuous spans or cantilevers, the values read from the charts are to be modified in proportion to the basic values of span to effective depth ratio. The multiplying factors for this purpose are as follows:

Continuous spans	1.3
Cantilevers	0.35

In the case of cantilevers which are longer than 10 m the Code recommends that the deflections should be calculated in order to ensure that they do not exceed permissible limits.

2.5.4 For flanged beams, the Code recommends that the values of span to effective depth ratios may be determined as for rectangular sections, subject to the following modifications:

- a) The reinforcement percentage should be based on the area $b_f d$ while referring the charts.
- b) The value of span to effective depth ratio obtained as explained earlier should be reduced by multiplying by the following factors:

b_f/b_w	Factor
1.0	1.0
>3.33	0.8

For intermediate values, linear interpolation may be done.

Note—The above method for flanged beams may sometimes give anomalous results. If the flanges are ignored and the beam is considered as a rectangular section, the value of span to effective depth ratio thus obtained (percentage of reinforcement being based on the area $b_w d$) should always be on the safe side.

2.5.5 In the case of two way slabs supported on all four sides, the shorter span should be considered for the purpose of calculating the span to effective depth ratio (see Note 1 below 23.1 of the Code).

2.5.6 In the case of flat slabs the longer span should be considered (30.2.1 of the Code). When drop panels conforming to 30.2.2 of the Code are not provided, the values of span to effective depth ratio obtained from the Charts should be multiplied by 0.9.

Example 4 Control of Deflection

Check whether the depth of the member in the following cases is adequate for controlling deflection:

- a) Beam of Example 1, as a simply supported beam over a span of 7.5 m

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K Morrison



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