

Table 4.1 Minimum member sizes and cover† for initial design of continuous members

Member	Fire resistance	Minimum dimension, mm		
		4 hours	2 hours	1 hour
Columns fully exposed to fire	width	450	300	200
Beams	width	240	200	200
	cover	70	50	45
Slabs with plain soffit	thickness	170	125	100
	cover	45	35	35
Slabs with ribbed open soffit and no stirrups	thickness*	150	115	90
	width of ribs	150	110	90
	cover	55	35	35

*Thickness of structural topping plus any non-combustible screed.

†Cover is to main reinforcement.

Table 4.2 Basic ratios of span/effective depth for initial design ($f_{yk} = 460\text{N/mm}^2$)

Structural system	Span/effective depth ratio	
	Beam	Slab
1. Simply supported beam One-way or two-way spanning simply supported slab	15	21
2. End span of: continuous beam; one-way continuous slab; or two-way spanning slab continuous over one long side	20	27
3. Interior span of: beam; one-way or two-way spanning slab	21	30
4. Slab supported on columns without beams (flat slab), based on longer span		26
5. Cantilever	6	8

Notes to Table 4.2

1. For two-way spanning slabs (supported on beams), the check on the ratio of span/effective depth should be carried out on the shorter span. For flat slabs, the longer span should be taken.
2. For flanged sections with the ratio of the flange to the rib width greater than 3, the Table value should be multiplied by 0.8.
3. For members, other than flat slab panels, which support partitions liable to be damaged by excessive deflection of the member, and where the span exceeds 7m, the Table value should be multiplied by 7/span.
4. For flat slabs where the greater span exceeds 8.5m, the Table value should be multiplied by 8.5/span.

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