

## Part 6.3 Structural steel members

### 6.3.1 Application

[New for 2022]

- (1) Part 6.3, other than clause 6.3.4, applies subject to the limitations set out in H1D6(6).
- (2) Part 6.3 need not be complied with if H1D6(5)(a) or (b) are complied with.

### 6.3.2 Structural steel members

[2019: 3.4.4.2]

- (1) Structural steel members may be used as follows:
  - (a) Bearers supporting a timber floor or non-loadbearing stud wall — in accordance with 6.3.3.
  - (b) Strutting beams supporting roof and ceiling loads — in accordance with 6.3.4.
  - (c) Lintels supporting roof, ceiling, frame and timber floor — in accordance with 6.3.5.
  - (d) Columns — in accordance with 6.3.6.
- (2) Structural steel members in (1)(a), (b) and (c) must have a minimum nominal yield strength of 250 MPa.
- (3) The yield strength of structural steel members in (1)(d) is nominated in 6.3.6.
- (4) Structural steel members described in this Part must be protected against corrosion in accordance with 6.3.9.

### 6.3.3 Bearers

[New for 2022]

Structural steel bearers must comply with the following:

- (a) Effective bearer spacing must be determined in accordance with—
  - (i) for single span joists — Table H1D6a and Figure H1D6d; and
  - (ii) for continuous span joists — Table H1D6b and Figure H1D6e.
- (b) Maximum acceptable bearer spans must be determined in accordance with—
  - (i) for single spans — Tables 6.3.3a and 6.3.3c; and
  - (ii) for continuous spans — Tables 6.3.3b and 6.3.3d.
- (c) All loads along the bearer must be evenly distributed.
- (d) The difference in distance between supports for continuous span bearers must not be more than 10% of the span.
- (e) Fixing of joists and columns to structural steel bearers must comply with 6.3.7.
- (f) Bearers must be supported by structural steel columns that comply with 6.3.6 and are fixed in accordance with 6.3.7.

**Table 6.3.3a: Maximum bearer span (m) — single span — bearer supporting timber floor and 3 m high non-loadbearing internal wall**

Steel section	Effective load width (m)				
	1.8	2.4	3.0	3.6	4.2
125 TFB	4.2	4.0	3.9	3.8	3.6
180 UB 16.1	5.6	5.4	5.3	5.1	4.7
200 UB 18.2	6.4	6.2	6.0	5.8	5.4