

Explanatory Information: Cleaning and placement of reinforcing

In order to obtain a good bond between concrete and reinforcement, the reinforcement should be free of contamination by mud, paint, oils, etc. It is not necessary for the reinforcement to be completely free of rust. Some rusting is beneficial in promoting a good bond as it roughens the surface of the steel. Loose rust, however, must be removed from the reinforcement.

Reinforcement is designed to be in a particular place so as to add strength or to control cracking of the concrete. A displacement from its intended location could make a significant difference to the life or serviceability of the structure.

Supports for fabric reinforcement are provided to prevent the fabric distorting when workers walk on top of it to place the concrete and maintain the correct concrete cover to the fabric.

4.2.12 Footing and slab construction

[2019: 3.2.5.1]

Footing and slab construction, including size and placement of reinforcement, must be in accordance with the relevant provisions of—

- (a) 4.2.13 for footings for stumps; and
- (b) 4.2.14 for stiffened rafts on Class A, S and M *sites*; and
- (c) 4.2.15 for strip footing systems on Class A, S and M *sites*; and
- (d) 4.2.16 for footing slabs on Class A *sites*; and
- (e) 4.2.17 for footings for *single leaf masonry*, *mixed construction* and earth retaining walls; and
- (f) 4.2.18 for footings for fireplaces on Class A and S *sites*; and
- (g) 4.2.19 for shrinkage control; and
- (h) 4.2.20 for concentrated loads; and
- (i) 4.2.21 for minimum edge beam dimensions; and
- (j) 4.2.22 for recessed areas of slabs.

4.2.13 Stump footing details

[2019: 3.2.5.6]

- (1) Footings for stumps must comply with—
 - (a) the provisions of Tables 4.2.13a, 4.2.13b or 4.2.13c for Class A and Class S *sites*; or
 - (b) the appropriate referenced document listed in—
 - (i) H1D6(3); or
 - (ii) H1D4.
- (2) Concrete stumps must—
 - (a) be designed in accordance with—
 - (i) AS 3600; or
 - (ii) Tables 4.2.13d, 4.2.13e or 4.2.13f; and
 - (b) use a minimum 20 MPa concrete as defined in AS 3600.
- (3) Steel stumps must be—
 - (a) designed in accordance with—
 - (i) AS 4100; or
 - (ii) Tables 4.2.13d, 4.2.13e or 4.2.13f; and
 - (b) fully enclosed and sealed with a welded top plate; and
 - (c) encased in concrete sloping away from the stump and finishing not less than 100 mm above *finished ground level*; and