

Footings and slabs

- (b) 30 mm to a membrane in contact with the ground; and
 - (c) 20 mm to an internal surface; and
 - (d) 40 mm to external exposure.
- (6) Reinforcement must be free of loose rust, mud, paints and oils.
- (7) Reinforcement must be placed as follows:
- (a) All reinforcement must be firmly fixed in place to prevent it moving during concreting operations.
 - (b) Reinforcement must be supported off the ground or the forms by bar chairs made from wire, concrete or plastic.
 - (c) When using wire chairs, the minimum concrete cover (see (5)) to the uncoated portion of the chair must be obtained.
 - (d) Wire chairs on soft ground or plastic membrane must be placed on flat bases.
 - (e) Bar chairs must be spaced at not more than 800 mm centres for steel fabric.

Table 4.2.11a: Alternative mesh/reinforcing bar sizes

Trench mesh (TM)	Area — mm ²	Reinforcing bar alternative	Trench mesh alternative
2-L8TM	91	2-N10 or 1-N12	Not applicable
3-L8TM	136	2-N10 or 2-N12	Not applicable
4-L8TM	182	2-N12	2-L11TM
5-L8TM	227	2-N12	3-L11TM
2-L11TM	180	1-N16 or 2-N12	2x2-L8TM
3-L11TM	270	3-N12	2x3-L8TM
4-L11TM	360	2-N16	2x4-L8TM
2-L12TM	222	2-N12	3-L11TM
3-L12TM	333	3-N12	4-L11TM
4-L12TM	444	4-N12	5-L11TM

Table Notes

- (1) Where necessary, 2 layers of mesh may be used.
- (2) L11TM and L12TM may be replaced by RL1118 and RL1218 mesh respectively.
- (3) L11TM may be replaced by two layers of L8TM.

Table 4.2.11b: Minimum lap for reinforcement

Reinforcement	Minimum splice	Minimum lap at "T" intersections	Minimum lap at "L" intersections
Steel reinforcing bars ≤12 mm diameter	500 mm	Full width across the junction	One outer bar must be bent and continue 500 mm (min) around corner
Steel reinforcing bars >12 mm to ≤16 mm diameter	700 mm	Full width across the junction	One outer bar must be bent and continue 500 mm (min) around corner
Trench mesh	500 mm	Full width across the junction	Full width across the junction
Square and rectangular mesh	The two outermost transverse wires of one sheet must overlap the two outermost transverse wires of the other	Not applicable	Not applicable