

## STRAINED WIRE FENCING

NOTES (To be read in conjunction with Drg No SD/3/11)

### GENERAL

1. All dimensions are in millimetres unless otherwise stated.
2. BS 1722 Part 3 applies unless otherwise stated.

### MATERIALS

1. All timber shall comply with specification clause 304 and Appendix 3/2
2. Round wooden posts to the dimensions specified in Table 5 of BS 1722 Part 3 may be used with the Engineer's permission.
3. Wooden intermediate posts will be pointed for driving.
4. The back of straining posts and struts will be cut square across.
5. All wire and fittings to be galvanised to BS 729 except staples which will be zinc coated to BS 443.
6. Line wire to be 4.0mm diameter mild steel or 3.15mm diameter high tensile steel to BS 4102.
7. Barbed wire will be galvanised two ply 2.5mm diameter mild steel wire to BS 4102 with 4 point barbs at 85mm centres.
8. Concrete for post footings to be class C10P.

5. Straining posts will be provided at all ends and corners, at acute changes in level and at intervals on the straight not exceeding that shown on the drawing. Struts will be fitted to straining posts in the direction of each line of fence.
6. Wooden struts will be fitted into a notch in the straining post and securely spiked. The notch must be within the top third of the post showing above ground level.
7. Wooden intermediate posts will be driven to a depth of at least 600mm or where specified backfilled with concrete as concrete intermediate posts.
8. Each line wire will be attached and strained to straining posts by means of eye bolts. Eye bolts to intermediate straining posts will be fitted with ring nuts.
9. Line wires will be attached to concrete intermediate posts with 'hair pin' staples and to wooden intermediate posts with 40mm x 4mm galvanised staples.
10. When not set in concrete the lengths of wooden straining posts and struts shall be increased by 300mm and posts set 300mm deeper in the ground.

### ERECTION

1. Where the fence forms a boundary between a highway and private property, the wire shall be fixed to the highway side.
2. The holes for wooden straining posts and struts where concrete is not specified will be as small as practicable to allow proper compaction. They will be backfilled with suitable material and well rammed as filling proceeds. If concrete surround is specified the holes will be as for concrete posts (see Note 10).
3. Holes for concrete straining posts will be not less than 450mm square and holes for concrete struts not less than 450mm long by 300mm wide. They will have vertical sides and will be filled up to half their depth with concrete. The concrete will be well rammed as filling proceeds. Before the concrete has hardened the remainder of the hole will be filled with earth and well rammed as the filling proceeds.
4. Holes for concrete intermediate posts will have vertical sides and be large enough to allow a minimum 75mm surround of concrete. The concrete to be placed as for straining posts.

Rev.	Description	Drawn	Ch'kd	Auth	Date



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