

## Q40 Fencing and Gates

PROJECT:

To be read with Preliminaries/ General Conditions.

FENCING TYPE: SECURIFOR 3D®

### FENCING

- Manufacturer: Betafence Limited, First Floor, Unit B, Forge House, 21 Carbrook Hall Road, Sheffield, S9 2EH
- Tel: 0114 256 7800
- Email [sales.sheffield@betafence.com](mailto:sales.sheffield@betafence.com)
- Web: [www.betafence.co.uk](http://www.betafence.co.uk)
- All materials and installation to be covered by a 10year BEKassure Guarantee and to be subject to an inspection by an independent auditor on completion of works. Licenced contractor to supply and install fencing (as indicated on drawing no )
- **PANELS:** SECURIFOR 3D
  - Nominal Height: 2000mm / 2400mm
  - Width panels: 2515mm
  - Mesh and wire: Welded mesh spacing 76.2 mm vertical x 12.7 mm horizontal x 4mm wire diameter. Panel incorporates 'V' beams spanning horizontally across the panel. Weld strength 50% of the minimum tensile strength of the wire (tensile range 400N/mm<sup>2</sup>). Galvanised & polyester powder coated Green RAL6005 / Black RAL9005.
  - Panels terminated at finished ground level **OR** Panels terminated 300mm below finished ground level in a 300mm x 300mm trench, backfilled with Concrete / Pea gravel / Compacted fill.
- **POSTS:** SECURIFOR 3D RHS
  - Galvanised rectangular hollow section 80 x 60 x 2.0mm, with M8 threaded inserts fitted in the front face, complete with black coated Securifor 3D fixing bracket and M8 x 35 Countersunk Trilobe tamper proof bolts, posts polyester powder coated Green RAL6005 / Black RAL9005.
  - Post centres: 2550mm.
- **OTHER:**
- Method of setting posts: In concrete foundations to comply with the design loading requirements specified by manufacturers technical specifications for this category of fence.
- Conformity:
  - Securifor 3D satisfies the requirements for Category: 2 (Security) and Category: 3 (High Security) fences as prescribed by B.S. 1722 Part: 14 – Open Mesh Steel Panel Fences
  - Upon receipt on site, or during storage off site, all care to be taken to ensure that no damage is incurred and that all precautions are taken against vandalism or theft.
  - Materials and installation to be covered by a 10year BEKassure Guarantee.
  - Subject to an inspection by an independent auditor on completion of works.

### INSTALLATION

- Set out and erect fencing:
  - As shown on drawings.
  - Gradients
    - Different gradients are achieved by stepping adjoining panels and/or reducing the post centres and width of panel giving a maximum gradient of 1 in 10 (10%).
    - Steeper slopes will require extra long posts, manufactured with additional threaded inserts.
  - With posts set rigid, plumb and to specified depth, or greater where necessary to ensure adequate support.
  - Panels that are cut on site are to be made good using a zinc-etch primer paint, followed by a top coat of Cromadex 222 polyurethane repair paint.
  - With correct fixings and all components securely fixed.

### COMPETENCE

- The contractor shall employ experienced installers and provide qualified supervision to complete works as specified by manufacturer's technical specifications for this category of fence.
  - For information contact:
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    - Web: [www.betafence.co.uk](http://www.betafence.co.uk).

### SETTING POSTS IN CONCRETE

- Holes: Excavate neatly and with vertical sides.
- Concrete mix: minimum C25 grade – to BS EN 206-1 using 20mm nominal size graded aggregates
  - Alternative for small batch: the mix should not be leaner by mass than 1 part cement to 10 parts 20mm nominal graded aggregates
- All concrete should be thoroughly compacted prior to the initial set.
- Exposed concrete foundations
  - Filling: Compact until air bubbles cease to appear on the upper surface.
  - Finishing: Weathered to shed water and trowelled smooth.