

Q40 Fencing and Gates

PROJECT:

To be read with Preliminaries/ General Conditions.

FENCING TYPE: SECURIFOR® 358 DOUBLE SKIN HI-SECURITY SYSTEM

FENCING

- Betafence Limited, First Floor, Unit B, Forge House, 21 Carbrook Hall Road, Sheffield, S9 2EH
- Tel: 0114 256 7800
- Email sales.sheffield@betafence.com Web: 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 358 DOUBLE SKIN SYSTEM
 - Nominal Height: 3000mm / 3300mm
 - Width panels: 2515mm
 - Overlapped 40mm at each post.
 - Mesh and wire: The double skinned panels are manufactured by electrical resistance welding two parent panels together as per the drawing in accordance with EN 10223-7
Parent panels have a welded mesh spacing 76.2 mm vertical x 12.7 mm horizontal x 4mm wire diameter. Horizontal wires on attack face. Weld strength 70% of the minimum tensile strength of the wire (tensile range 550-750 N/mm²). Panels are finished with Hot dipped Galvanising & if required, polyester powder coated Green RAL6005 / Black RAL9005 to pass 1000-hour salt spray testing.
 - 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 358 RHS POSTS
 - Galvanised rectangular hollow section 120 x 60 x 5mm bolt through posts. Complete with 40 x 5mm slotted clamp bar, M8 x 150 galvanised cup square round bolts and hex. nuts (sheer-nuts - optional) with flat washers. Fixings at 279mm centers (___no fixings per intermediate post). Posts and clamp bars polyester powder coated Green RAL6005 / Black RAL9005 to pass 1000-hour salt spray testing.
 - Post centers: 2480mm.
 - Excess bolt thread at rear of post to be removed (flush to nut) ensuring no sharp edges and made good using a zinc-etch primer paint
- **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 358 Double skin satisfies the requirements for Category: 4 (Maximum 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 (165mm max.) and/or reducing the post centres and width of panel giving a maximum gradient of 1 in 5.
 - For gradients steeper than 1 in 5 panels should be raked to suit ground profile.
 - 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 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:
Betafence Limited, First Floor, Unit B, Forge House, 21 Carbrook Hall Road, Sheffield, S9 2EH
Tel: 0114 256 7800 Email sales.sheffield@betafence.com Web: 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.