

## Q40 Fencing & Gates

**Fencing Type:** HiSec® DualSkin 358 System

**Manufacturer:** Zaun Limited, Steel Drive, Wolverhampton, WV10 9ED

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### Product reference:

[HiSec DualSkin]. – 1.8–5.2 m height.

### Height:

[ \_\_\_\_\_ ] - Insert requirements.

### Panel Customisation Options:

[Full Height DualSkin]

[Partial Height DualSkin. [ \_\_\_\_\_ ] – Insert double skin height]

**Note:** HiSec DualSkin will be cladded from the lower part of the panel upwards. The remaining height of the panel will be standard HiSec 358.

### Post Ground Fixing:

[Bolt down] [In ground] [Wall].

### Panel Termination:

[Ground Level] [Concrete Cill] [Buried]

### Panel Fixings:

[Standard] [Shear Nuts]

### Fence Toppings:

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[CCTV Camera / Lighting Mount] [Barbed Wire] [Razor Coil] [Flat Wrap Razor Coil] [Electric Topping] [FST Topping] [Cranked Topping] [Other Topping] [None]

## **Fence Accessories:**

[Perimeter Intrusion Detection System] [Electric Fencing] [Not Required]

## **Colour:**

[Galvanised Only] [Black RAL 9005] [Green RAL 6005] [White RAL 9010] [Blue RAL 5010] [Blue BS 20-C-40] [Brown RAL 8017] [Yellow RAL 1021] [Grey RAL 7012] [Red RAL 3000] For installations within 500 metres of water or estuary [Marine coated Insert RAL/BS]

## **Gates:**

Matching HiSec DualSkin 358 Gates available as:

[Not required].

[Single Leaf] Swing Gate (w:5000mm x h:3000mm maximum), [\_\_\_ m width x \_\_\_m height] [height and design to match fence] [Other please detail] 180° opening, tamper proof hinges. Supply as [Right hand hanging] [Left hand hanging], [Opening outwards] [Opening inwards] complete with slide latch.

[Double Leaf] Swing Gate (w:5000mm x h:3000mm per leaf maximum) [\_\_\_m width x \_\_\_m height] [height and design to match fence] [Other please detail] 180° opening, tamper proof hinges. Supply as [Right hand hanging] [Left hand hanging], [Opening outwards] [Opening inwards] complete with slide latch and drop bolts.

[Single Leaf] [Double Leaf] Cantilevered Sliding Gate (w:10000mm x h:3000mm per leaf maximum) [\_\_\_m height x \_\_\_ m width] [height and design to match fence] [Other please detail]

## **Gate Operation:**

[Manual] [Automated]

## **Gate Access Control:**

[Manual key lock and handle] [Card Systems] [Ground Loops] [Hard-Wired Audio Intercom] [Hard-Wired Video Intercom] [Key Fob] [Key Pad] [Key Switches] [Push Button] [Time Clocks] [Token Reader] [Traffic Lights]

## **Gate Topping:**

[CCTV Camera / Lighting Mount] [Barbed Wire] [Razor Coil] [Flat Wrap Razor Coil] [Electric Topping] [FST Topping] [Cranked Topping] [Other Topping] [None]

## Guidance for HiSec from Zaun Limited

More about HiSec: As standard - Options

As standard

### Panels:

HiSec DualSkin 358 welded mesh spacing of 12.7 mm vertical x 12.7 horizontal x 4 mm wire diameter. The horizontal wires are to be installed on the attack face of the fence. Weld strength 75% of the minimum tensile strength of the wire (tensile range of 540-690 N/m<sup>2</sup>). Available Galvanised Only **OR** Galvanised & polyester powder coated to pass 1,008 hour salt spray testing.

### Panel Termination

Panels terminated at finished ground level **OR** terminated 150mm below finished ground level in 150mm x 125mm concrete cill **OR** panels terminated 300mm below finished ground level in a 300mm x 300mm trench, backfilled with concrete, pea gravel or compacted fill.

### Posts:

Posts sizes are.

Post are galvanised rectangular hollow section (RHS) through bolt post with sizes dependent on location and panel size, each spaced at 2525mm centres. Post galvanised to BS EN 1461 as standard & polyester powder coated to pass 1,008 hour salt spray testing. Available Galvanised Only **OR** Galvanised & polyester powder coated.

Each post is supplied with flat post caps in polypropylene.

### Post to panel fixing:

Panels fixed to posts with full height 40mm x 5mm slotted clamp bar, M8 galvanised cup square round bolts, nuts and flat washers. Fixings at 154.4mm centres. Clamp bar available Galvanised Only **OR** Galvanised & polyester powder coated to pass 1,008 hour salt spray testing.

Excess bolt thread at the rear of the post to be removed to fit flush to the nut ensuring no sharp edges and made good using a zinc-etch primer paint.

### Gates:

Framed in a 100mm x 50mm RHS with Zaun HiSec mesh bolted onto the frame using the Zaun picture frame design, with slide latch. Gate supplied with rubber bump stop and two suitable gate posts. Vehicular access also supplied with drop bolts.

### Conformity:

Zaun HiSec DualSkin 358 satisfies the requirements for Category 2 (Security) and Category 3 (High Security) fences as prescribed by BS EN 1722 Part 14 – Open Mesh Steel Panel Fences.

Upon receipt on site, or during storage off site, all care is to be taken to ensure that no damage is incurred and that all precautions are taken against vandalism and theft.

## **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 the panel giving a maximum gradient of 1 in 5. Double posting for gradients between 1 in 5 and 1 in 3.

For gradients steeper than 1 in 5, panels should be notched out to suit the ground profile.

### Posts:

Posts set rigid, plumb and to specific depth, or greater where necessary to ensure adequate support.

### Panels:

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.

### Fixings:

All correct fixings and components securely fixed.

## **Setting Posts in Concrete:**

Holes are neatly excavated with vertical sides.

Concrete mix: GEN1 or ST2 to BS EN 206-1 using 20mm nominal size graded aggregates

All concrete should be thoroughly compacted prior to the initial set.

Exposed concrete foundations must be compacted until air bubbles cease to appear on the upper surface.

## **Completion:**

### Cleaning:

General: leave the works in a clean and tidy condition

Surfaces: Clean immediately before handover

Gates: Test hinges, latches and closers and adjust to provide smooth operation. Lubricate where necessary. Provide manuals, keys and access controls.