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Certificate Number: 15153
ISO 9001:2015, ISO 14001:2015
BSI 05365 PRO1 0001346



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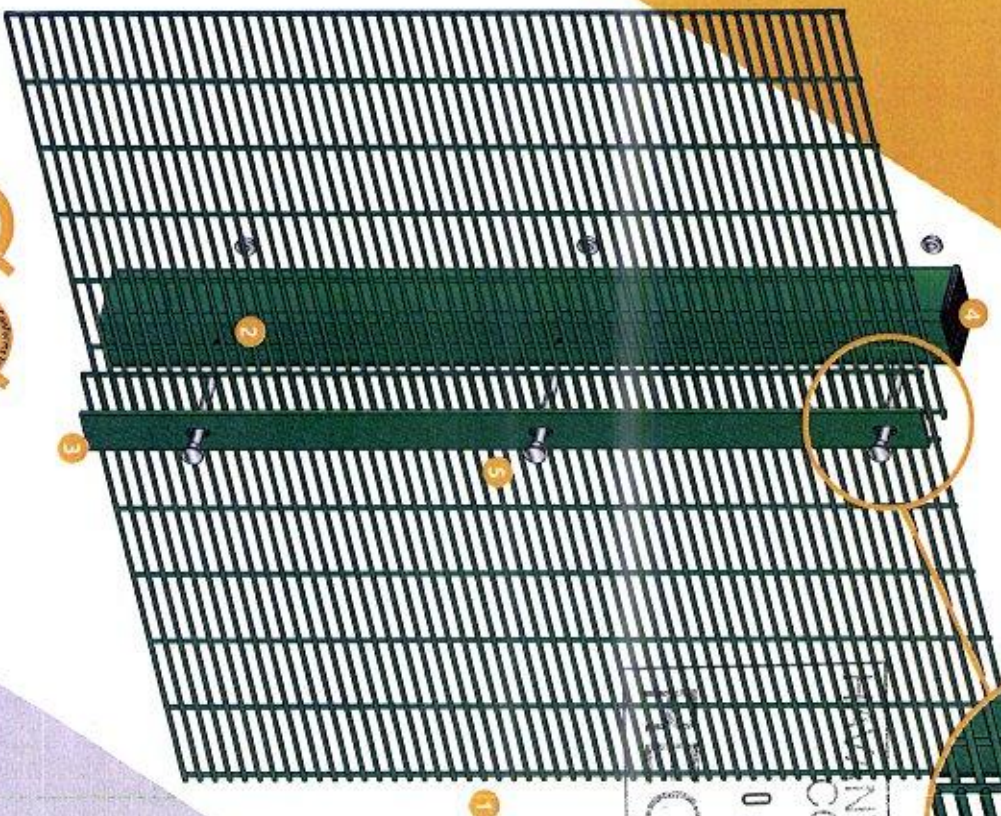
Police Preferred Specification

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REF 1703 /04.2

Protek 358 Clamp



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04 OCT 2017
ALEXANDRA SECURITY LIMITED
BOROUGH COUNCIL

Protek 358 Mesh Panel System

The Protek 358 prison mesh flat panel system is designed to provide a very high level of security that is almost impossible to climb, with the narrow apertures of the mesh preventing any intruder gaining a foothold, whilst retaining a good level of visibility and an aesthetically pleasing appearance. This system is used extensively by the Ministry of Defence around high security sites.

Product and Finish Standards

- Mesh panel wire manufactured to BS A117 and galvanised to BS EN 10244-2:2003 class 2, weld strength is 75% of the minimum tensile strength of the wire (tensile range 540-690 N/mm²)
- Post material manufactured to BS EN 10210-2:1997 and galvanised to BS EN 10246:2009
- Panel & Posts are powder coated to BS EN 13418:2005 (min 100 micron)

Normal Fence Height (m)	Panel Size Height x Width (mm)	Overall Length of Post (mm)	Post Size (mm)	Number of Fixings Corners (2 Clamps)
1.2	1,274 x 2,519	1,830	60 x 60	5
1.8	1,803 x 2,519	2,450	60 x 60	7
2.0	2,017 x 2,519	2,690	60 x 60	7
2.1	2,138 x 2,519	2,820	60 x 60	8
2.4	2,442 x 2,519	3,100	60 x 60	9
2.7	2,704 x 2,519	3,500	60 x 60	10
3.0	3,007 x 2,519	3,800	80 x 80	11
3.3	3,306 x 2,519	3,800	80 x 80	11
4.2	4,208 x 2,519	5,500	100 x 90	15
5.2	5,211 x 2,519	6,800	120 x 60	19

Subject to change

- 1 Mesh panel - mesh size 72.5 x 76.2mm - 4mm wire
- 2 Post size varies with height (see table)
- 3 Clamp bar - 40 x 5mm (full length of mesh panel)
- 4 Plastic cap varies with post size (see table)
- 5 M8 x (varies with post size) Cup square security bolt, M8 shear nut, M8 washer

Intermediate post



End post



Internal corner post



External corner post



Suitable For:

High Security Facilities,
MOD Properties, Industrial
Estates, Prisons

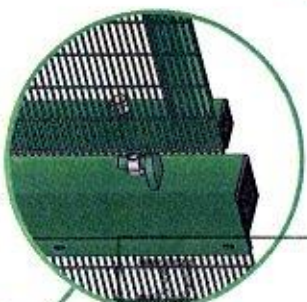


Protek 358 Standard Gates

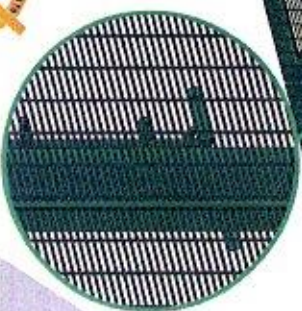
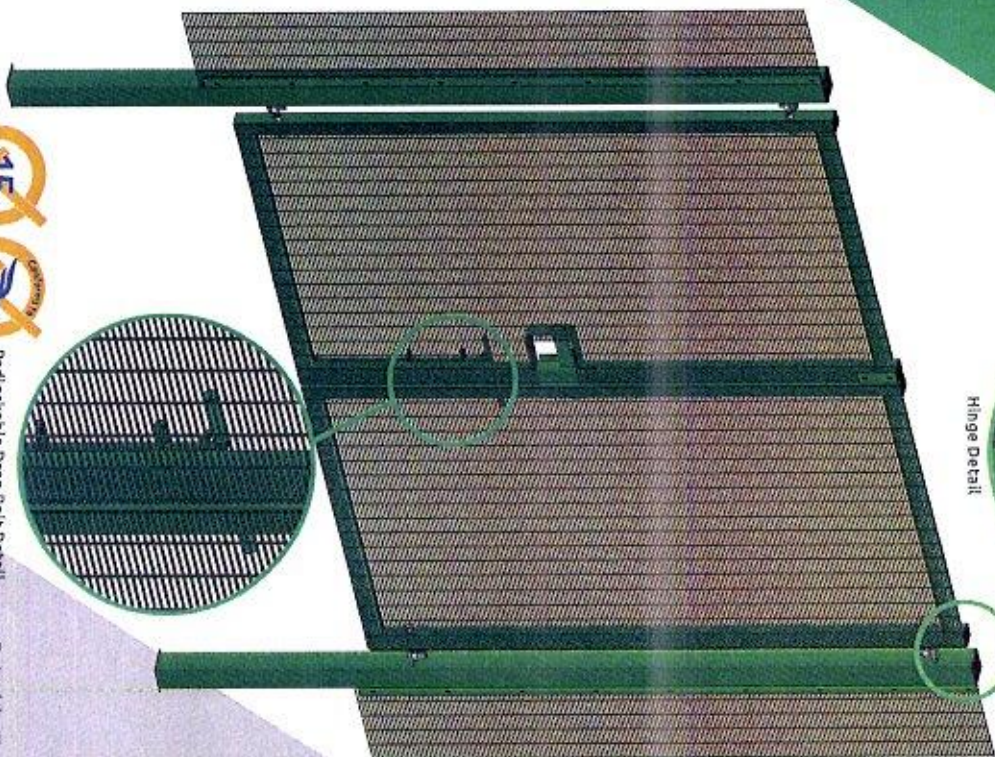
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Hinge Detail



Padlockable Drop Bolt Detail

Suitable For:

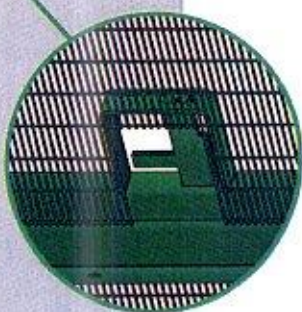
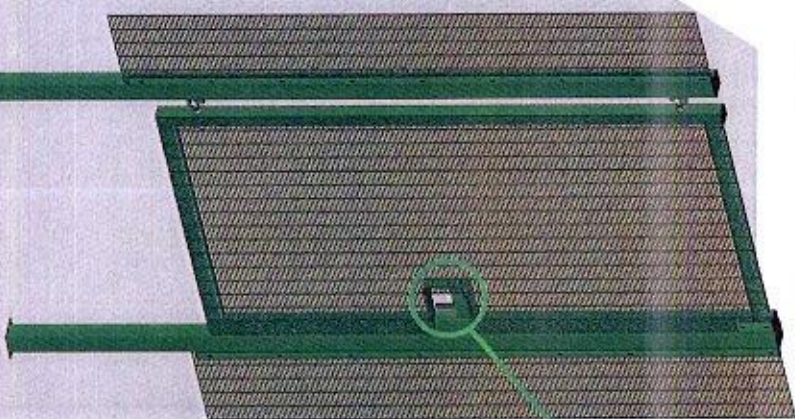
see Protek 358 panels
on pages 32-33

Protek 358 Standard Gates Double Leaf and Single Leaf

As with the 358 mesh fencing this gate system manual actuated using the same panel material will also deliver climbers looking for an easy access point. We can either manufacture Protek 358 gates to your bespoke size (see pages 80-81), or for quick lead time we stock a comprehensive range of singles and doubles in various heights and

Product and Finish Standards

- Mesh panel wire manufactured to BS 4102 and galvanised to BS EN 10244-2:2001 class D; weld strength is 75% of the minimum tensile strength of the wire (tensile range 540-690 N/mm²)
- Post material manufactured to BS EN 10210-2:1997 and galvanised to BS EN 10346:2009
- Panels & Posts are powder coated to BS EN 14620:2005 (min 100 micron)
- All welding carried out in accordance with BS EN 1011-1 and BS EN 1011-2 by suitable personnel qualified according to BS EN 287-1



Padlockable Slide Bolt Detail

Options

- The Protek 358 profile mesh is also available for standard gates
- See Gates Technical section on pages 96-97
- See the range of Gate Accessories on pages 99-101

widths. Hinges are fitted on all gates to prevent lift off. Double leaf gates come complete with drop bolts and ground sockets and single leaf gates can have drop-bolts added as an extra at the manufacturing stage. Mesh is welded onto the frame. All gates come with a padlockable slide-latch, padlock not provided.



Installation Instructions - Protek 358

These instructions relate to the 358 mesh.

You will need...

- Tape measure
- Battery drill/screwdriver
- String line
- Setting out pegs
- Safety gloves and goggles
- Spirit level
- Selection of clamps
- Post-hole spade or equivalent for digging post holes*
- Cement – suitable for setting fence posts.
- Cutting equipment and touch up paint if required.



**not required if mounting fence panels onto concrete using base plates.*

A MINIMUM OF TWO PEOPLE IS REQUIRED TO INSTALL THIS POST AND MESH SYSTEM.

Step 1

Using the string line and setting out pegs, mark out on the ground the line of the intended fence.

Step 2

Based on the width of the panels supplied, mark the positions of the fence posts. If installing a gate, it is advisable to start with the gate post and expand out towards the first corner and/or end

Step 3

Using the appropriate equipment, and observing the correct health and safety procedures, dig the holes to the required depth, to accommodate the fence posts provided*. If using base plates screwed onto concrete instead of post holes, ensure that the surface is thick enough to accommodate fixing screws and level enough to allow the post to be fixed vertically. A survey of the ground conditions must be carried out in advance to ensure conditions will support all posts, if conditions are too wet or insufficiently compacted please consult a ground works engineer for assistance.

Standard Panel Dimensions (mm) Height x Width	Post Size (mm)	Foundation Sizes (mm) Set in Concrete Length x Width x Depth	Based Plated (mm) Length x Width x Depth*
2138 x 2519	60 x 60	300 x 300 x 750	400 x 400 x 150
2442 x 2519	60 x 60	300 x 300 x 750	400 x 400 x 150
3001 x 2519	80 x 80	320 x 320 x 900	450 x 450 x 150
4208 x 2519	100 x 50	300 x 340 x 1350	Sized on specification
5211 x 2519	120 x 60	360 x 360 x 1650	

**refers to the depth all fixings need to be sunk to, and therefore the minimum thickness of the concrete*

All Alexandra base plates come pre-drilled for M16 fixings, and all holes must be used when securing the post to the concrete surface.

Step 4

Insert the first post into the dug hole and use a spirit level to ensure that it stands vertically.

Step 5

Add the mixed concrete to the hole around the positioned fence post. Professional installers use postcrete which will be dry in 5-10 minutes, but ensure the post is fixed in the upright position while drying.

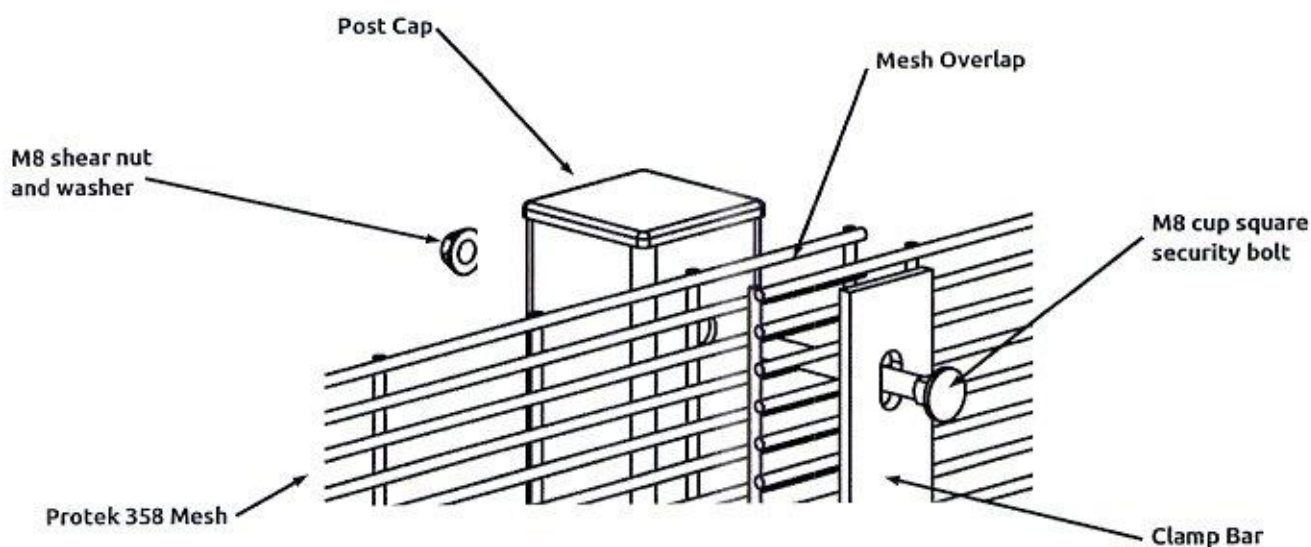
Step 6

The Protek 358 is fixed to the post using clamp bars, and depending on where you've chosen to start your fence posts in the run, your first post will need to have either one or two mesh panels attached. If it's two mesh panels, make sure both are in place prior to applying the clamp bar. Use untightened clamp bars to hold the panel in place while adjustments are made.

Mesh panels can also be supported underneath by using timber blocks to maintain a level appearance.

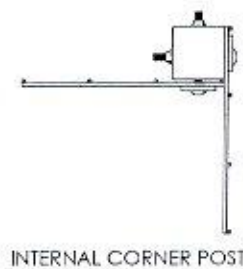
Until they are secured from the other end, make sure all fence panels are supported by hand or with suitable props.

When fixing two mesh panels to a post, ensure that the last vertical sections closest to the post of the two panels overlap before applying a clamp bar on top, securing with the stainless security bolt provided, which passes through the holes in the clamp bar, an aperture in the two panels and the post before being secured at the back of the post by an M8 shear nut and washer. Make sure all screws are fully inserted before being tightened. We recommend that all fixings are fully tightened in order from the top of the post to the bottom, and that panels are checked to ensure they are straight first.



Plan Views





INTERNAL CORNER POST



EXTERNAL CORNER POST



Step 7

Dig the next post hole.

Do not try and install all the posts at the same time. Instead, work one post and panel at a time, as any errors in the measuring the post distances will be harder to correct once the posts are concreted in.

Step 8

The mesh panel can be inverted to give a flat finish to the top if required. The 358 panel can be fitted flush to the ground for maximum security, but will be raised by 10mm if fence posts are mounted on to base plates.

Step 9

Fence panels may be cut to different lengths using a saw or angle grinder. The style of mesh should allow the cutter to keep the panel appearance square. All bare metal should be recoated with touch up paint.

WARNING – MAKE SURE YOU USED THE CORRECT SAFETY GEAR WHEN PERFORMING ANY CUTTING ON THE METALWORK.

Step 10

If the fencing is required to be stepped to accommodate a gradient, please ensure that the post heights are set correctly to accommodate the drop required.

Step 11

Ensure all scuffs, marks and cut surfaces, especially ones that expose bare metal, are treated with matching touch up paint. Failure to do so will affect the appearance of your installation and could invalidate the product guarantee www.alexandrasecurity.com/15-year-product-guarantee

Step 12

Finish off each post with the plastic caps supplied.