

# C.P.N.I. Assessed On-Ground Security Fences and Rapid Deployment System



[polmilfence.com](http://polmilfence.com)

# INTRODUCTION

Manufactured by Blok N Mesh, the unique POLMIL® range of fencing was originally designed to exceed the stringent counter terror security specification for London 2012 Olympic venues, and was also selected to protect the Glasgow 2014 Commonwealth Games.

Further development has resulted in successful PAS 68, CPNI and Mob Attack testing.

2 With 'no dig' policies becoming the preferred option for global events and sensitive sites, the on-ground POLMIL® fence offers the same level of security as equivalent in-ground systems, without need for groundworks or risk to underground services, and maintains the ability to reliably host electronic perimeter intruder detection systems (PIDS).

The robust reusable designs incorporate over 30 years of specialist temporary fencing experience, and have resulted in POLMIL® on ground fence systems providing protection for Government establishments, nuclear facilities, Royal Navy docks, National Grid substations, airports, gas works, mining operations and other security-sensitive sites throughout the UK and around the world.

# POLMIL® SECURITY FENCE SYSTEMS



## BASE LEVEL ON-GROUND SECURITY FENCE

- Height 3m
- Independently Mob Attack Tested
- CPNI Assessed



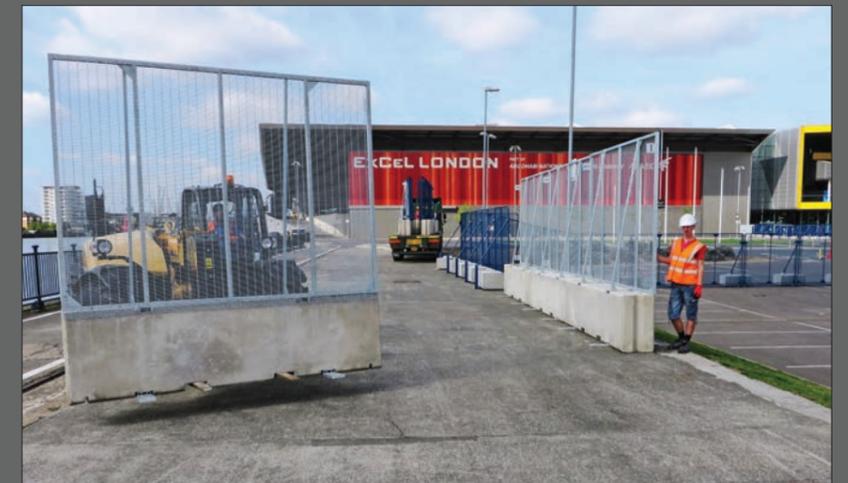
## PAS 68:2010 RATED ON-GROUND SECURITY FENCE

- Height 2.4m or 3m
- Independently Mob Attack Tested
- CPNI Assessed



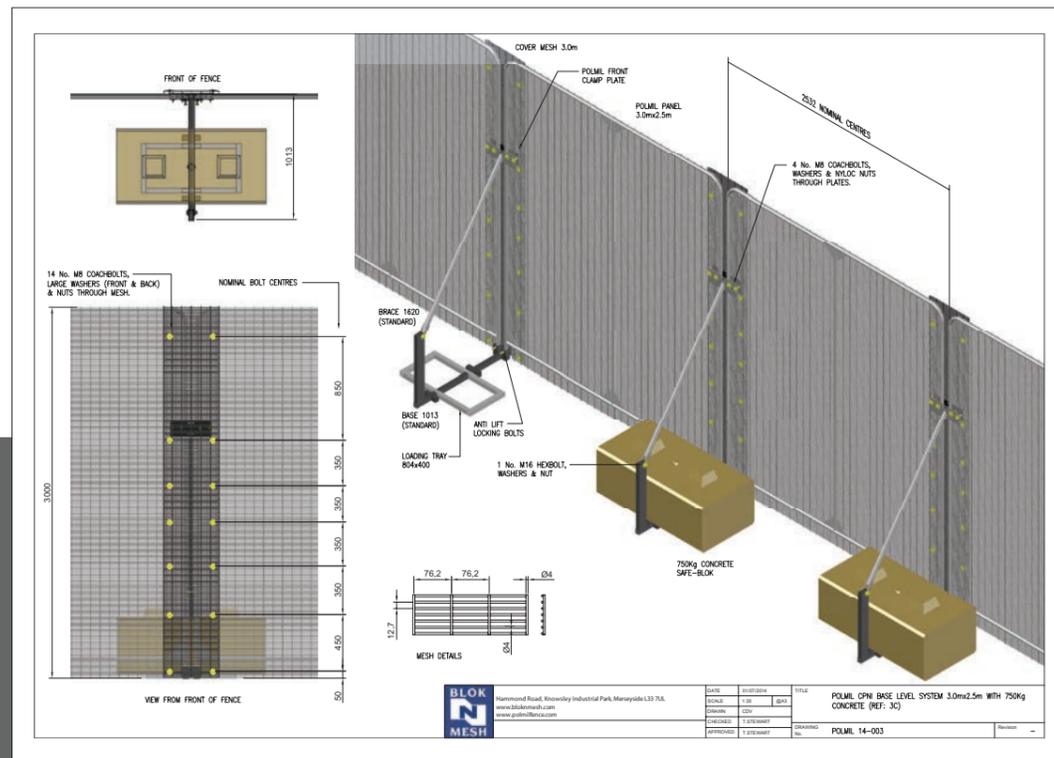
## PRE-ASSEMBLED, MODULAR VCB SECURITY FENCE

- Height 2.4m or 3m
- Mounted on 2.5 Tonne VCB
- Minimal 450mm wide footprint





# CPNI ASSESSED BASE LEVEL ON-GROUND PERIMETER SECURITY FENCE 3m HIGH



The POLMIL® BASE Level on-ground system employs a reinforced 3m high x 2.5m wide fully framed round-top Panel for maximum strength, clad with 358 prison mesh to deter attack or climbing, and finishes at ground level to prevent pass under.

The zero trip Base presents no hazard to passers-by, and fully adjustable Support Braces with independent 750kg concrete ballast enable the panels to be held vertical regardless of surface levels.

A full height Cover Mesh protects Panel joins and front Clamp Plate bolts, whilst allowing the fence maximum flexibility to follow the ground line.

The POLMIL® BASE Level fence has been assessed by CPNI, and successfully undergone independent Mob Attack testing.

All POLMIL® Systems are supplied with a standard lead-free polyester powder coated blue finish (RAL 5001). Other colours and finishes are available to order.

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SECURE COMPOUND



INDEPENDENTLY MOB ATTACK TESTED



MICRO-PHONIC PIDS & CABLE CONTAINMENT



ADAPTED FOR STAIRS



AESTHETICALLY PLEASING AND SECURE



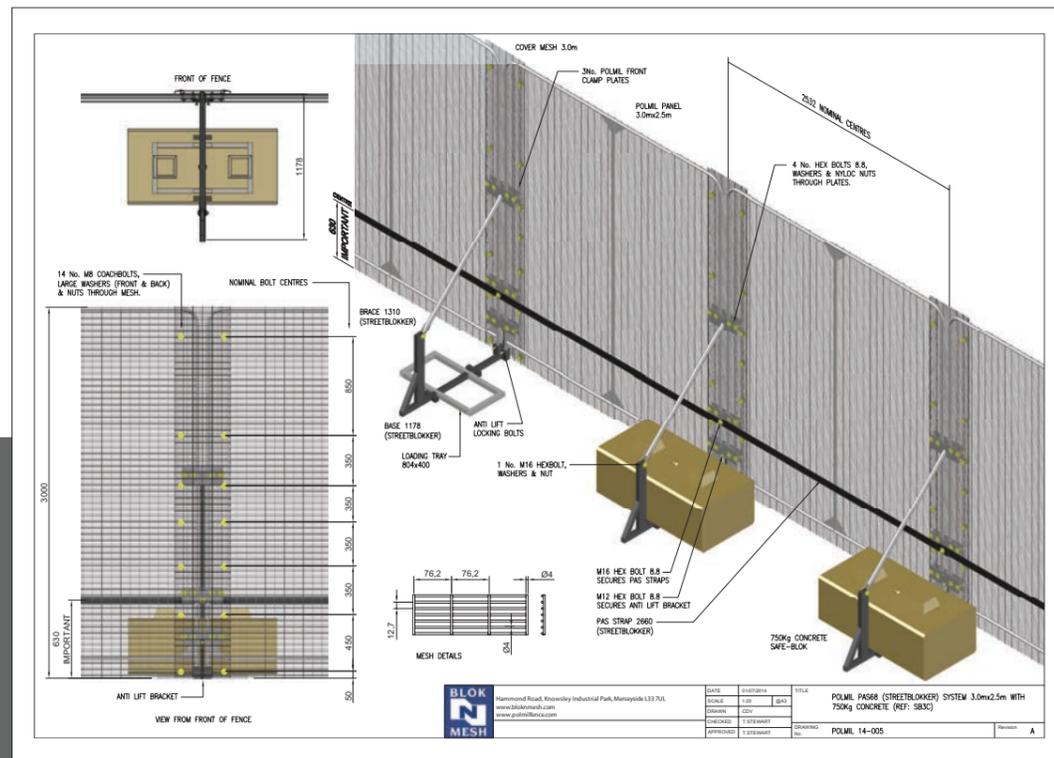
UNEQUALLED INSTALLATION FLEXIBILITY

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BASE LEVEL



# CPNI ASSESSED PAS 68:2010 ON-GROUND PERIMETER SECURITY FENCE 3m HIGH



PAS 68:2010:  
V/2500 (NIG)  
/48/90/:20/11.5

The POLMIL® PAS 68 rated on-ground system is similar in appearance and flexibility to the BASE Level, but uses heavier duty support structure to resist high impact force, plus a continuous solid steel restraint strap to progressively absorb energy and prevent a hostile attack vehicle from penetrating the fence.

The excellent performance rating of PAS68:2010:V/2500(N1G) /48/90:2.0/11.5, was further enhanced by official observations that, after impact, the vehicle was immobilised, neither a following vehicle nor person could pass through, and the fence system continued to function.

The POLMIL® PAS 68 Rated fence is listed in the CPNI

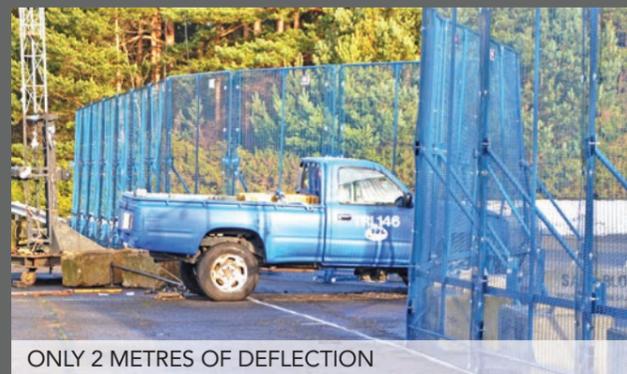
Catalogue of Impact-Tested Security Barriers, and has successfully undergone independent Mob Attack testing.

All POLMIL® Systems are supplied with a standard lead-free polyester powder coated blue finish (RAL 5001). Other colours and finishes are available to order.

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2.5 TONNE 4x4 @ 30MPH (48KPH)



ONLY 2 METRES OF DEFLECTION



FENCE CONTINUED TO FUNCTION



INDEPENDENTLY MOB ATTACK TESTED



TECHNICAL RATING: PAS 68:2010: V/2500 (NIG)/48/90/:20/11.5

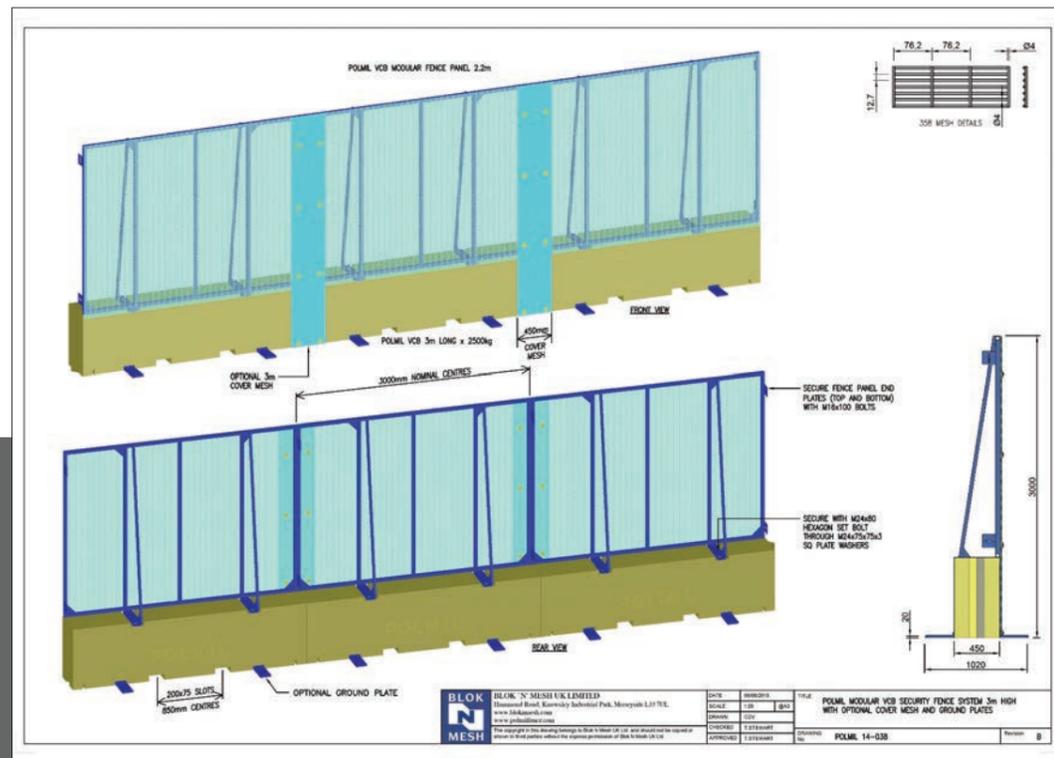


FLEXIBLE PAS 68 DESIGN IS ALSO EFFECTIVE ON UNDULATING GROUND

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# RAPID DEPLOYMENT MODULAR VCB SECURITY FENCE



The POLMIL® Modular VCB Fence is based on a 2,500kg, 3 metre long, Vertical Concrete Barrier with a single-piece weldmesh panel bolted on top to form a modular fence unit.

These narrow, 450mm wide, units are swiftly deployed by a forklift and banksman, with no specialist fencing knowledge required. Each section can be fastened together by bolting through the tolerant slotted joining plates located at top and bottom of each fence panel.

The POLMIL® VCB has standard forklift slots for ease of lifting, and includes the facility for optional Chapter 8 Ground Plates which provide greater stability and recessed bolt-down facility, when required.

An optional full height cover mesh is available to protect any gaps between the units when deployed on uneven ground. A second, Rear Panel, can also be fitted when double-sided fencing is required, to prevent climbing from either side, such as airport deployments.

All POLMIL® Systems are supplied with a standard lead-free polyester powder coated blue finish (RAL 5001). Other colours and finishes are available to order.

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ACCEPTS STANDARD WIDTH FORKS



JOINING PLATES FOR BOLTING UNITS TOGETHER



OPTIONAL GROUND PLATES INCREASE STABILITY



OPTIONAL COVER MESH FOR PANEL JOINS



SINGLE FACE MODULAR VCB SECURITY FENCE WITH 358 MESH



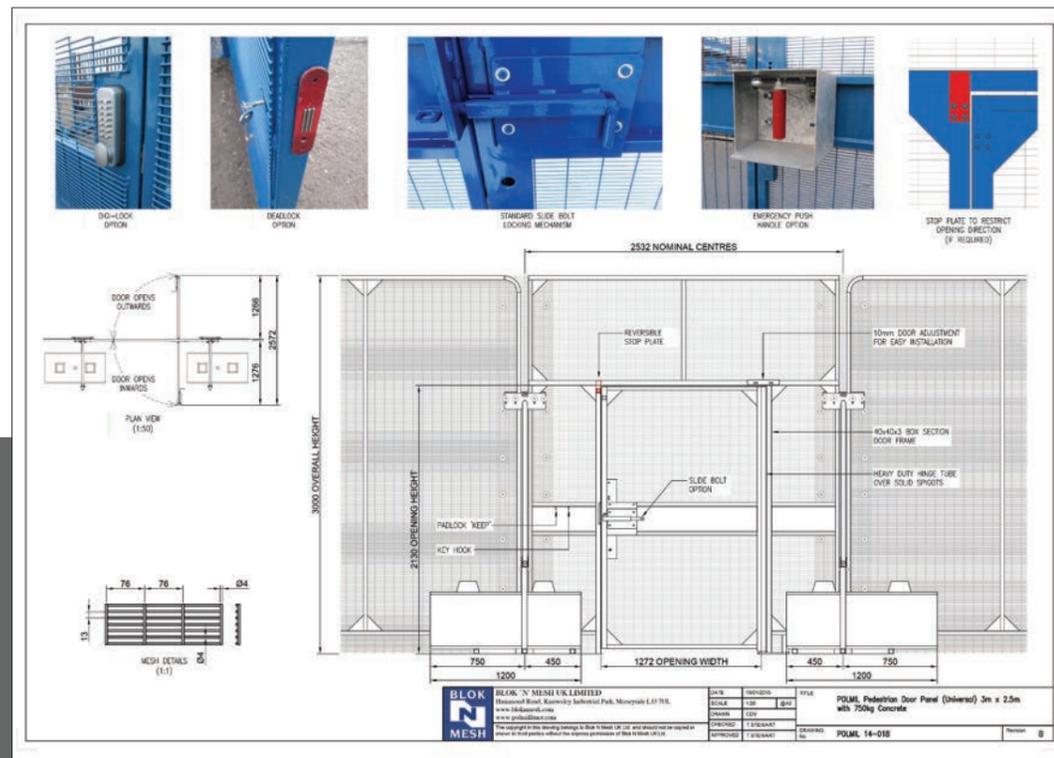
HINGED CORNER PANEL FOR CHANGES OF DIRECTION

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MODULAR VCB



# ON-GROUND PEDESTRIAN DOOR, AND LOCKING OPTIONS



Standard pedestrian doors are incorporated into the relevant POLMIL® fence panel. This enables a door to be inserted into an existing fence line installation by simply replacing a Fence Panel with a Door Panel.

The POLMIL® door opens both ways but can be restricted to one direction only where required.

A range of locking options and combinations are available:  
 Heavy Duty Slide Bar for Padlock – accessible from inside only.  
 British Standard Dead Lock – accessible from inside and outside. (Often combined with Slide Bar so door can be temporarily locked from outside to enable 'walk about').

Combination Digi-Lock – accessible from inside and outside. (Often combined with Slide Bar for more secure locking out of hours.)

Heavy Duty Emergency Push Handle – accessible from inside only.

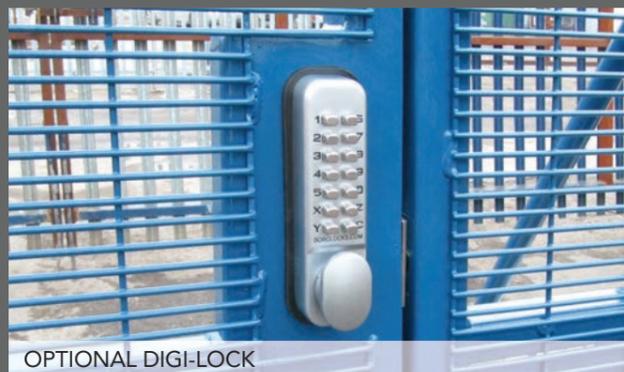
All POLMIL® Pedestrian Door Panels are supplied with a standard lead-free polyester powder coated blue finish (RAL 5001). Other colours and finishes are available to order.



STANDARD SLIDE BAR LOCK



OPTIONAL DEAD LOCK



OPTIONAL DIGI-LOCK



EMERGENCY PUSH HANDLE LOCK



DOOR PANEL IN BASE LEVEL FENCE

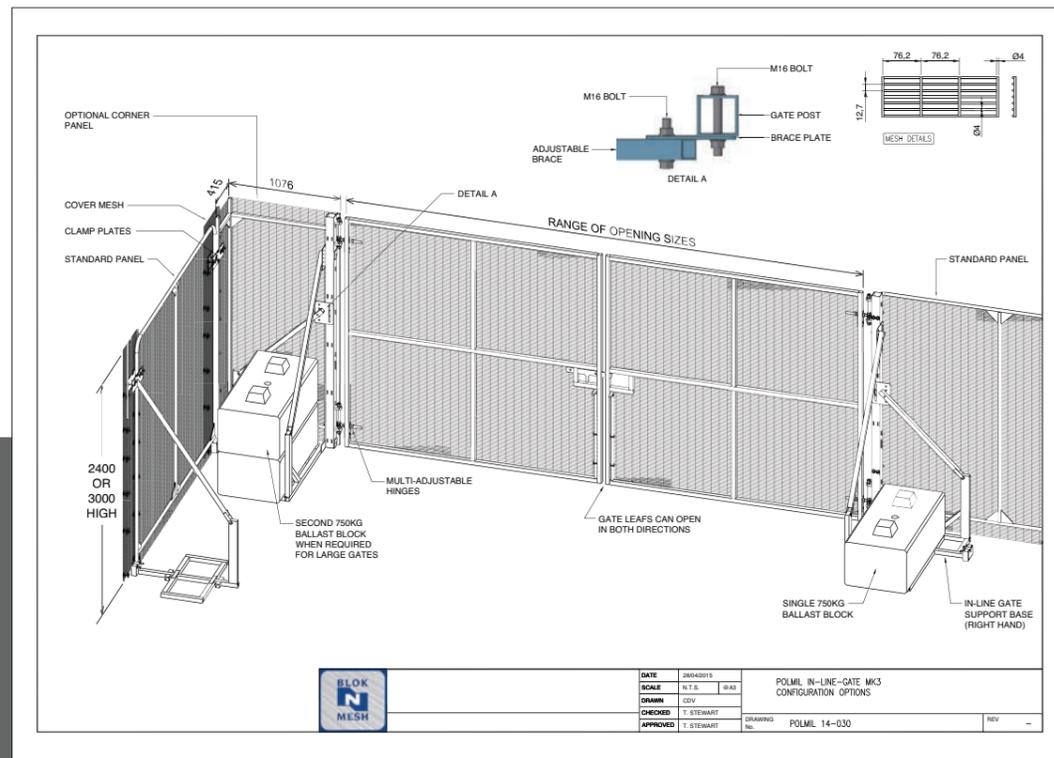


DOOR PANEL IN MODULAR VCB FENCE

PEDESTRIAN DOOR



# ON-GROUND VEHICLE GATES, AND CONFIGURATIONS



The standard POLMIL® Vehicle Gates can open both ways and have a 4.4m clear opening (2x2.2m gate leaves), with other sizes available to order.

Both gate posts are independently supported and feature multi-adjustable hinges to provide maximum vertical and horizontal tolerance, making the gate leaf installation very simple.

A heavy duty slide bar locking mechanism (for padlock), and drop bolts to hold the gate leaves open or closed.

Optional in-fill meshes close off gaps between gate leaves and posts, if required.

Special VCB supported, multiple Vehicle Gates, are available as pedestrian 'Blow-Out' Gates to enable large numbers of people to pass through with minimum obstruction.

All POLMIL® standard Vehicle Gates are supplied with a lead-free polyester powder coated blue finish (RAL 5001), and high visibility posts. Other colours and finishes are available to order.

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SELF SUPPORTING ON-GROUND GATE POSTS



ACCEPTS ADDITIONAL KENTLEDGE FOR LARGER GATES



MULTI-ADJUSTABLE HINGES SIMPLIFY INSTALLATION



OPTIONAL DROP BOLT LOCKING BRACKET SET

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STANDARD IN-LINE GATES ARE AVAILABLE IN A RANGE OF SIZES



ON GROUND 10M OPENING BI-FOLD VEHICLE GATE (HOT DIPPED GALVANISED FINISH)

VEHICLE GATES



# ON-GROUND BALLAST OPTIONS: CONCRETE, WATER AND SAND



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## CONCRETE BALLAST

The standard POLMIL® Safe-Blok weighs 750kg. Each 50 newton concrete kentledge block has a 120 year design life, and is ultimately easier to recycle as it does not contain steel reinforcement.

An important feature is the integral lifting pin so the Safe-Blok can be carried from above (using our certified lifting clutch)

enabling safe handling, and precise placement, even when working on unlevel ground. It also allows the fork lift truck to approach a fence line from any angle to place the block, which greatly assists when working in confined spaces, or alongside other trades.

Transport: 38no. SafeBlocs per wagon (UK)

## WATER BALLAST

POLMIL® designed and developed the Water Ballast Tank for installations where mechanical lifting is not suitable, or environmental considerations take priority. The recycled plastic Tanks have a smaller carbon footprint than concrete and require significantly less transport.

They can be manually carried to the fence line, and filled with water pumped from up to 500m away. Each Tank weighs 20kg empty and has a capacity of 335litres which provides a total of 355kg when full. The interlocking tanks securely join together for when additional kentledge is required.

Transport: 144no. empty Tanks per wagon.

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## SAND BALLAST

The POLMIL® multiple-use BagBlok is available with a 350kg or 500kg dry sand capacity, and intended to accept any granular material which can be sourced locally to the installation. We pack 100 Bags and Lids on one Pallet.

Special integral gussets ensure the bag remains square, and does not sag out of position or bulge against the fence. Corner lifting loops and full length forklift sleeves are standard,

to be compatible with most methods of mechanical lifting.

Each BagBlok is provided with a separate anti-tamper printable Lid which protects the bag from UV light and prevents unauthorised access to the ballast material contained within.

Transport: 2000no. Bags and Lids per wagon.

BALLAST OPTIONS



# ACCESSORIES



START/STOP BRACKET OFFSETS BALLAST FROM START/END OF RUN



ANTI-TUNNEL MESH



BOLT-ON T-BRACKET FOR RAZOR WIRE



CABLE CONTAINMENT HOOKS

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ACCESSORIES



# INSTALLATION AND TRANSPORT



General purpose installation is available Nationwide with our own teams of experienced operatives. For specialist installations such as Airside, Nuclear or Security Sensitive sites we have approved installers with POLMIL® experience and security accreditation to at least SC level, and many up to DV.

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## UK TRANSPORTATION



STEELWORK SUPPLIED IN RETURNABLE STILLAGES  
FULL WAGON: 300LM 3m HIGH OR 400LM 2.4m HIGH



SAFE-BLOK 750KG CONCRETE BALLAST BLOCK  
FULL WAGON: 38 BLOCKS - 90LM (28,500KGS)



VCB MODULAR FENCE ARRIVES PRE-ASSEMBLED  
FULL WAGON: 10 UNITS = 30LM



ALTERNATIVE BALLAST OPTIONS  
FULL WAGON: 144 TANKS, OR 2,000 BAGS AND LIDS

# POLMIL® CONTACT DETAILS



POLMIL® Fencing is designed and manufactured by Blok N Mesh.  
Part of the family owned Crownlea Group of companies established in 1969.



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POLMIL® FENCE WITH WATER BALLAST



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