



The **Ultimate** solution for
restraining temporary structures

CASE STUDY

Semi-permanent perimeter
No-Dig hoarding solution

> University College London East, Marshgate, Queen Elizabeth Olympic Park



Ring Freephone **0800 122 3304**
www.anchorbloc.co.uk



The challenge was to develop a semi-permanent hoarding solution that met specific requirements including crowd loading, specialist pre-finishing aesthetics; with high safety demands for robustness together with vehicular and operative access including means of escape.



The Scope

To develop a modular system based upon the 1000kg AnchorBloc within the standard range of product manufactured by the company, that would work in conjunction with a bespoke range of AnchorBloc accessories that facilitate connectivity between kentledge and standard scaffold components. Thus providing structural integrity necessary for the specified sheet material. The hoarding support was developed and designed for all means of access for both vehicular and operatives (including escape).

(images L>R):
Hoarding supported by 200+
1000kg AnchorBlocs
Specifically designed Escape Door
Laser cut branded safety grid door

Why this is considered Best Practice

Supplier Compliance and methods of working:

- Anchorbloc product ware and accessories were structurally verified, tested and certified by Lloyds British.
- Installation Compliant with C.L.O.C.S (Construction, Logistics & Community Safety) utilising F.O.R.S (Fleet Operator Recognition Scheme) Silver certified transport for the entire project install.
- Temporary solutions designed, manufactured and installed to permanent structure standards – working in partnership with Creator Scaffold Designs and Temporary Works Consultants Ltd.

MACE Aligned Ways of Working (Perspectives)

'Safety First Second Nature' ...

- **Anchorbloc robust design** meeting the relevant British Standard for Temporary Works BS5975: 2008 and comprising integral fixing points removing the need for on-site drilling mitigates further safety incidents occurring.
- **Safe – Secure – Proven hoardings;** which unlike many on the market do not topple, pierce, or splinter on impact.
- **Safe & Innovative Gate design (Vehicle)** (*see Driving innovation pg4)
 - Vehicular Gating - Precision laser cut aluminium sheeting, with perforation allowing visibility for operators and pedestrians either side for additional safety.
 - Significant reduced wind loading of the large vehicle gates makes their manual operation safe when weather conditions are inclement and wind is strong or gusting.
 - "MACE font" and corporate logo incorporated into the gate design
 - Structurally robust and Anchorbloc supported with bespoke steel adjustable steel hinging and door stop devices.

- Stainless steel locking devices ensures greater safety and security at a point which is generally deemed the weakest point of any site.
- Clear gate numbering/sign posting for targeted, safe site access & delivery efficiency.
- Contrast colouring on all gates – externally to meet with brand aesthetics and internally green finish compliant to Building Regulation Part D – 13 with clear signposting of escape routes.
- **Operative Gating (Pedestrian)**
 - Design meets all standards and benefits for means of access and escape (operated by panic bar ironmongery) as that of a permanent structure.
 - High quality aluminium product ensures maintenance free operation and escape blockage mitigation (normally caused by wooden product swelling).
 - Contrast colouring – interior meeting statutory (Building Regulation Part D – 13) green means of escape with running man signage, and exterior gating consistent with high quality finish hoardings.




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"AnchorBloc provided a solution that not only satisfied but will become the adopted standard going forward for the London Legacy Development Corporation."

*Tony Tolley, Head of Security & Park Safety Officer
at Queens Elizabeth Olympic Park*



(image above):
1000kg Blocs supporting Hoarding 

4 Key Challenges faced

Additional loading (to standard wind-loading) challenges were encountered requiring redesign and calculations to ensure the 2.5m high hoardings could absorb side impact as may be experienced due to the perimeter being adjacent to a major thoroughfare for general public and football fans to and from the London Stadium. This was achieved by decreasing the vertical spacing of the horizontal ledgers and centre spacings of Anchor Blocs not viable with other in-calculable products and their inherent lack of interconnectivity.

Project duration (>2yrs); dictated what would normally be a temporary structure was classified as permanent, and as such heightened the performance criteria; which the Anchorbloc standard easily satisfied.

Specific colour finishing demands – self-finished maintenance free product provided direct to site not only met the high-quality aesthetics ('Traffic Black' RAL 9017 monolithic finish); but also avoided the need for any additional expenditure and time with on-site application; typical of other general product systems.

Project phasing adaptability – future proofing site considerations were required to meet upcoming project phases; enabling re-alignments to take place without waste or additional bespoke components.

Results

Health & Safety

Zero incidents during installation phase

Project Cost Savings

Overall costs reduced by 30%

Time-savings takes half the time of any standard timber, dig, ballast system.

Modular, no dig system, easy adaptability to any site topography and varying conditions; ensures time efficient installation, relocation and removal

Zero waste Sustainable.

Fully removable, relocatable and removable for other projects

Site space optimisation – minimises width of footprint required for system installation – providing either greater space area on site side or pedestrian passage



Being a Responsible Business (sustainable construction)

Modular hoarding system and **reusable fixings** help reduce the carbon footprint and generate substantial whole life savings - Fully demountable, reusable pvc panelling

Sustainable hoarding systems which use recycled, re-usable and low carbon components - which will also yield substantial long-term cost savings when compared to traditional painted timber/chipboard and heavy steel hoardings. Current land fill costs approx. £250 per eight yard skip, re use of plywood never viable due to trapping / corrosion of fixings and swelling of the plywood through the end grain.

Zero landfill waste and consumables - all products and off cuts are recyclable

Reduced installation times and transport costs

Site / environment neutral - highly versatile operates across borders - regionally/globally



Driving Innovation

Innovative Gating* - highly robust engineering; precision laser cut solid aluminium sheet gates with bespoke steel accessories; providing trouble free use, high quality Mace branded aesthetics - with completely adjustable to site types, environment and topography; and increased operator safety referenced above*.

The Anchorbloc product range - pre-fabricated with integral fixing points removing the need for any on-site drilling and fixing, alongside any mandatory testing that this would normally entail (and subsequent failure re-tests).

Collaborative Best Practice & Customer Experience - Anchorbloc hoarding solution to become the London Legacy Development corporations adopted standard for all other contracts.

- ✓ Hire or buy your AnchorBloc™ outright
- ✓ Take advantage of our 'Anchor Management' programme
- ✓ Full logistics and storage facilities are available
- ✓ Payment by credit card for convenience
- ✓ Emergency telephone service 24/7 support
- ✓ Independently tested & certified by Lloyds British

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