

PROTECT YOUR PEOPLE
PROTECT YOUR SITE



Innovative • Capable • Passionate • Compassionate



Solar Gates are the leading innovator in solar powered security, dedicated to enhancing safety and efficiency in roadworks, construction and infrastructure projects.

Our products are designed to provide reliable, sustainable and cost-effective solutions.

Creators of the **INSTABOOM**, **INSTABOOM Go** and **SOSEC** barriers.



ABOUT US

Our Values

With two decades of experience, Solar Gates are renowned for innovative products, cutting-edge technology and a relentless drive to transform the industry. Our values – innovative, capable, passionate, compassionate – are reflected in everything we do. Our commitment to sustainability guides us in creating top-notch solar-powered solutions that are built from the solar upwards. It's a unique way of thinking that comes from our heritage.

Our Team

We couldn't achieve our goals without our talented team of 'misfits who fit.' With nearly half of our workforce overcoming barriers to employment, from addiction to past convictions or seeking refuge, their incredible journeys demonstrate the power of second chances. Our team members are living proof of the great things that human beings are capable of.

Our Mission

We are passionate about giving back to the community and supporting the environment. With a dozen beehives around our factory, we *beelieve* in also contributing to the ecosystem and wildlife preservation.



INSTABOOM is the market-leading, solar hybrid portable barrier that's fully HSE compliant and CE marked.

Built to meet the highest safety standards and rugged enough to withstand being on a worksite, **INSTABOOM** is a 'game changer' in highway safety.

It is deployed in minutes to fully secure a road.

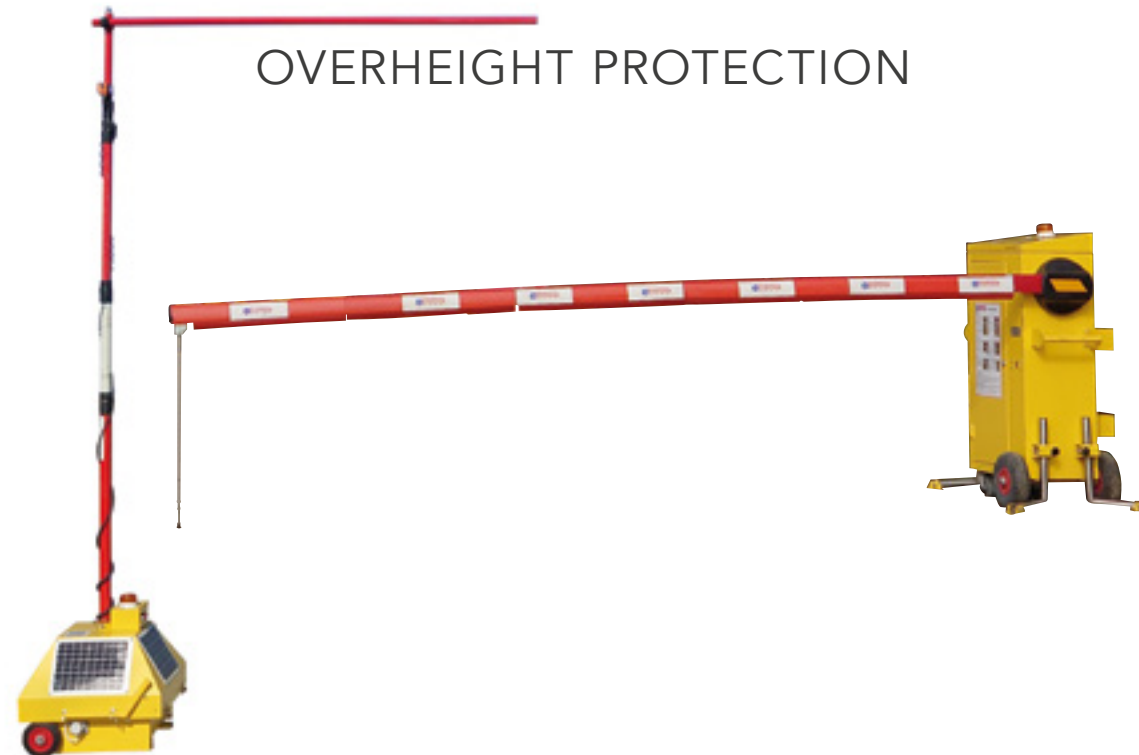




- **INSTANT CLOSURES** – deployed by one person
- **SIMPLE** – 800m radio fob and quick collapse boom
- **TELEMATICS** – online monitoring, status and instant alerts
- **COMPATIBLE** – with GS6 over height strike protection
- **SOLAR HYBRID** – provides up to 20 days of run time between charging



OVERHEIGHT PROTECTION



- **CLOSURES** – instant lane closure when overhead breach detected
- **SAFE** – reliable failsafe over height hazard protection system
- **TELEMATICS** – instant hazard alerts and optimal fleet performance
- **PORTABLE** – simple cabled connection to **INSTABOOM**
- **SOLAR HYBRID** – provides up to 20 days of run time between charging



CASE STUDY

BALFOUR BEATTY

Balfour Beatty were responsible for the M4 (junctions 3-12) motorway upgrade. The 32-mile site required up to 110 banksmen daily and multiple physical barriers were needed along the motorway to protect workers and reduce incursions, while staying within budget.

Solar Gates provided the answer with **INSTABOOM**, a 'game changer' in highway safety that automated the role of manning barriers, reducing the need for operatives to stand dangerously close to moving traffic.

INSTABOOM offered a physical remote barrier that stopped unauthorised vehicles from entering active construction zones, significantly lowering costs and reallocating staff to more productive tasks.

Mike Omond, Plant Specialist at Balfour Beatty explained:

*"Introducing **INSTABOOM** solar barriers significantly improved safety by replacing static barriers with ones controlled by machine operators, ensuring safety across our sites."*



Balfour Beatty

*"We had over 70 **INSTABOOM** barriers on the M4 contract alone, projecting savings of around £2 million over two years from our manned guarding budget. Due to its success on the M4, we expanded **INSTABOOM** to multiple highways projects across the UK."*

Mike Omond, Plant Specialist at Balfour Beatty



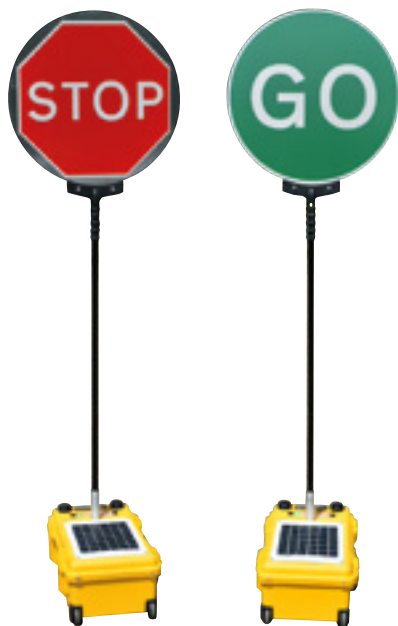


INSTABOOM Go is a portable, remote-controlled, solar-powered Stop/Go board that allows traffic to be controlled efficiently in an instant.

It has been designed to be deployed by a single person with ease and simplicity in mind.

The system is controlled from a safe distance, ensuring the safety of both operatives and motorists.





- **INTERCONNECTED** – deployed as 2, 3 or 4 way control
- **PORTABLE** – at just 22kgs it's perfect for a 1 person deployment
- **SOLAR** – 2 weeks of 10 hour shifts if used in sunlight
- **CONTROLLED** – rugged radio fob, operate from a safe distance
- **VISIBLE** – 60cm RA2 Stop/Go sign, high intensity LED beacon



- **ADAPTABLE** – for TM incursion control including pedestrian or cycle lane closures
- **PORTABLE** – weighs just 22kg allowing 1 person deployment from the boot of a car
- **SOLAR** – 2 weeks of 10 hour shifts if used in sunlight
- **CONTROLLED** – remote fob operation from a position of safety up to 800m away
- **VISIBLE** – quick release pole with RA2 reflective STOP sign and warning flag

SIGNAGE KITS



- **13 SIGNS** – Red Book compliant
- **3 RUGGED** compact carry bags
- **COMPACT** – reduces vehicle capacity and payload
- **UNPARALLELED STABILITY** – designed to flex in windy conditions
- **SMALL FOOTPRINT** – TriFlex kit ideal for urban areas
- **SIGN FACES** – RA2 reflectivity

CASE STUDY

READING BOROUGH COUNCIL

Reading Borough Council faced challenges with roadworks and traffic management, needing a solution that ensured safety, efficiency, and showcased their commitment to innovation. The Borough manages its own traffic operations within the county and has 15 Highways and Drainage 2-man crews operating from the central highways depot.

Initial training was provided to all Highways Operations Crews, and the units have since been extensively used for various tasks, including pothole repairs, emergency works and RTA assistance with the police.

Highways and Traffic Services Manager, Sam Shean says:

"The remote operation feature has been particularly beneficial, allowing our crews to manage traffic control without having to be in close proximity to moving vehicles. This has drastically reduced the risk of accidents and near-misses, providing a safer working environment for everyone involved."



Reading Borough Council integrated **INSTABOOM GO** into various roadwork projects, utilising its remote operation capabilities to manage traffic effectively.

INSTABOOM GO significantly enhanced safety by reliably removing workers from the road. This reduced the risk to workers and drivers, as traffic flow could be managed without manual intervention. The system also streamlined traffic management processes, reducing delays and improving overall efficiency.

The use of **INSTABOOM GO** resulted in notable **cost savings** for the council. The reduced need for manual traffic management meant that the council could allocate resources more effectively. These savings were reinvested into other critical areas, further benefiting the community.



HIRE vs PURCHASE

Choosing to Hire – Enjoy peace of mind with comprehensive support, regular maintenance, proactive battery maintenance, telematics, servicing as well as an unlimited warranty. You receive access to the latest models free from the commitment of ownership and benefit from adaptable terms to suit your project's duration and requirements.

Opting to Purchase – Gain complete control over your equipment, including maintenance. You will receive full installation and training to get you started and **FREE** technical support, via our Telephone Support Service, is always available.

	BUY	HIRE
Product training	✓	✓
Warranty	12 months	unlimited
Telephone Support Service	✓	✓
Site survey and installation	✓	✓
Tracker as standard*	£	✓
Telematics (access with own login to monitor battery life, Geofence and location services)	£	✓
Bi-Annual Service Plan	£	✓
New for old swap out**	£	✓
On site support – 365 days per year***	£	✓
Diagnostic Repair Service	£	✓
Delivery and Collection	£	£

*trackers not fitted to INSTABOOM Go. **if a barrier cannot be repaired on site, it will be swapped out for new hire unit.

***service commitment of max 3 working days. Call outs, outside of normal working hours will be additionally charged.



The UK's leading mobile barrier. Tried. Tested.
Trusted on construction sites, haul routes and
infrastructure projects all over the UK.

Combining **SO**lar power and **SEC**urity in a simple,
rugged, visible and mobile platform. It is ideal
for use within the UK's construction, highways,
mining, retail, event and emergency markets.





BARRIER/GATE COMBO



- **BARRIER** – 5m boom with full drop skirt or red/green LEDs
- **SAFETY** – non-contact safety beam and contact force tested
- **SELF-CLOSING** – pedestrian gate with keyed lock
- **OPTIONS** – range of access control to suit your site
- **SOLAR** – 24/7/365. Up to 400 daily operations, all year round
- **FORKLIFT READY** – 1.2 x 1.2m steel base, 450kg



BARRIER 3m–7m boom



- **BARRIER** – 3m–7m boom with drop skirt or red/green LEDs
- **SAFETY** – non-contact safety beam and contact force tested
- **SOLAR** – 24/7/365. Up to 400 daily operations, all year round
- **CUSTOMISABLE** – number of access control options including ANPR
- **FORKLIFT READY** – 1.2 x 1.2m steel base, 350kg



WELFARE HUT



- **BARRIER** – 5m boom with full drop skirt or red/green LEDs
- **SAFETY** – non-contact safety beam and contact force tested
- **SOLAR** – 24/7/365. Up to 400 daily operations, all year round
- **FORKLIFT READY** – 1.2 x 1.2m steel base, 450kg
- **WELFARE COMFORT** – LED lighting, desk, USB points



EA13/EA18 PALLET TRAILER



EA13

EA18

Maximum total weight: 1300 kg

Weight trailer: 375 kg

Maximum load: 925 kg

Dimensions loading area (LxW): 135 x 135 cm*

Axle: Single axle 1500 kg

Braked YES

Spare wheel and holder

Lifting mechanism: Hydraulic (hand)

Lifting height: 280 mm (LOLER exempt)

Galvanised Steel chassis

Equipped with tie rail and hooks

Maximum total weight: 1800 kg

Weight trailer: 475 kg

Maximum load: 1250 kg

Dimensions loading area (LxW): 135 x 135 cm*

Axle: Single axle 1800 kg

Braked YES

Spare wheel and holder

Lifting mechanism: Hydraulic (hand)

Lifting height: 280 mm (LOLER exempt)

Galvanised Steel chassis

Equipped with tie rail and hooks

* Displayed size is the standard size, this can be deviated from on request.



TA25 TWIN PALLET TRAILER



TWIN Axle... TWIN Pallet

Maximum total weight: 2500 kg

Weight trailer: 660 kg

Maximum load: 1800 kg

Dimensions loading area (LxW): 250 x 135 cm*

Axle: Twin axle 2500 kg

Braked: YES

Spare wheel and holder

Lifting mechanism: Hydraulic (electric)

Lifting height: 280 mm (LOLER exempt)

Galvanised Steel chassis

Equipped with tie rail and hooks

* Displayed size is the standard size, this can be deviated from on request.



CASE STUDY

SOSEC HS2

The Skanska, Costain, and STRABAG joint venture (SCS JV) is one of the key HS2 construction sites, a project critical to UK infrastructure. SCS JV collaborated with Solar Gates to use their solar-powered **SOSEC** and **INSTABOOM** barriers across their sites to enhance efficiency and maintain security.

With more than 100 barriers across the HS2 sites, they have been chosen for their reliability, portability, and environmental efficiency. Creating secure 'airlocks' at vehicle entry/exit points to prevent unauthorised access and deployed across the site with the added GS6 accessory to prevent potential over height vehicle collisions.

SOSEC and **INSTABOOM** barriers are deployed in minutes and are fully solar powered (**SOSEC**) or solar/hybrid (**INSTABOOM**) ensuring operational goals and sustainability targets are met.

SCS JV also praised the responsive support provided by Solar Gates, enabling swift adjustments based on evolving security requirements.



TRACKER

Adding a tracker to any **INSTABOOM** or **SOSEC** barrier instantly allows full remote management, proactive servicing and email alerts and notifications. Especially important when barriers are operating a safety critical GS6 role, the ability to receive live alerts and locations of over height vehicle breaches becomes an invaluable safety tool.

Available to purchase outright, each tracker also needs an annual data licence with app access included.

INSTABOOM/SOSEC trackers are included free of charge to all hired units. Each user receives a custom login to the standard tracker platform available in web portal or mobile version.

For more detailed integration with existing tracking platforms, the full API data can be made available on request

KEY FEATURES Included with purchased tracker plan:

Location via Google Maps

Battery voltage monitoring

On/off status

Up/down status

Instant trigger alerts by email

Remote trigger to open/close

Geofence grouping

Daily usage and management reports





solargates.co.uk
info@solargates.co.uk
+44 (0) 1622 534000

