

# SURFACE GUARD DEPLOYMENT

Pedestrian Permeable, Temporary Event Security



The Surface Guard system has been tested in accordance with the IWA 14 impact test standard and successfully arrested a 2,500 kg vehicle travelling at 30 mph. IWA code to be issued by the independent test house, MIRA.

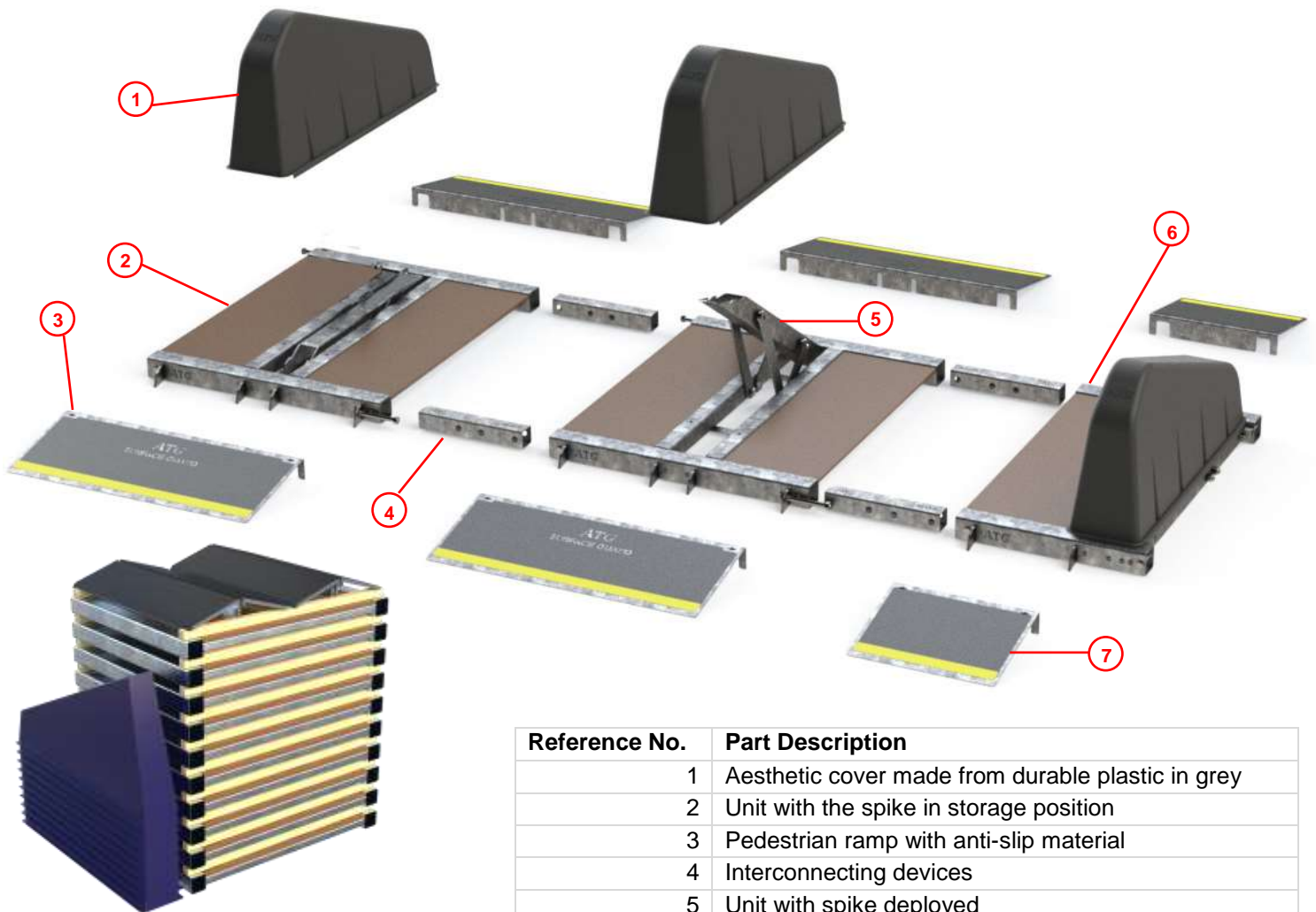
The tested arrangement can be seen overleaf.

## Surface Guard: Deployment Guide

The Surface Guard is a modular, pedestrian permeable, temporary security product designed to protect temporary crowded places from vehicle ramming attacks. This light weight product can be transported easily, deployed quickly and be stored within a small footprint ready for future deployments.

The product is constructed from a series of interconnecting modules which slot together to create an array. The Surface Guard System is completely surface mounted and requires no fixing to the surface during deployment, causing no damage to surfaces.

The basic system components are as follows:



A kit of 10 Surface Guard Units stowed in a 1,600 mm x 1,600 mm footprint, 1,400 mm high.

Reference No.	Part Description
1	Aesthetic cover made from durable plastic in grey
2	Unit with the spike in storage position
3	Pedestrian ramp with anti-slip material
4	Interconnecting devices
5	Unit with spike deployed
6	Right hand unit with spike deployed and covered
7	Half section pedestrian ramp with anti-slip covering

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## How does the Surface Guard Work in a Real-Life, Event Environment?

The Surface Guard system restricts vehicular access to an area. Due to the products modularity, the number of configuration options is almost infinite, allowing the Surface Guard to fit into any street scene.

This document will now illustrate some of the many possible configurations when approaching the deployment of the Surface Guard System in varying street scene scenarios.

### Configuration A: Roadway with Kerbs

The Surface Guard can be configured to secure a roadway with dual kerbs. If the kerb height differs on each side of the roadway, this is not a problem as the kerb attachment is completely adjustable.

The Surface Guard system can cope very well with uneven road surfaces and road cambers. The system can flex allowing it to adapt to changes in contour and level ensuring a smooth installation.



### Configuration B: Around Existing Street Furniture Items

When installing temporary security measures to protect pedestrians and restrict vehicle access; it is common that street furniture items are already installed. These are invariably permanent street furniture items and need to be worked into the temporary security scheme.

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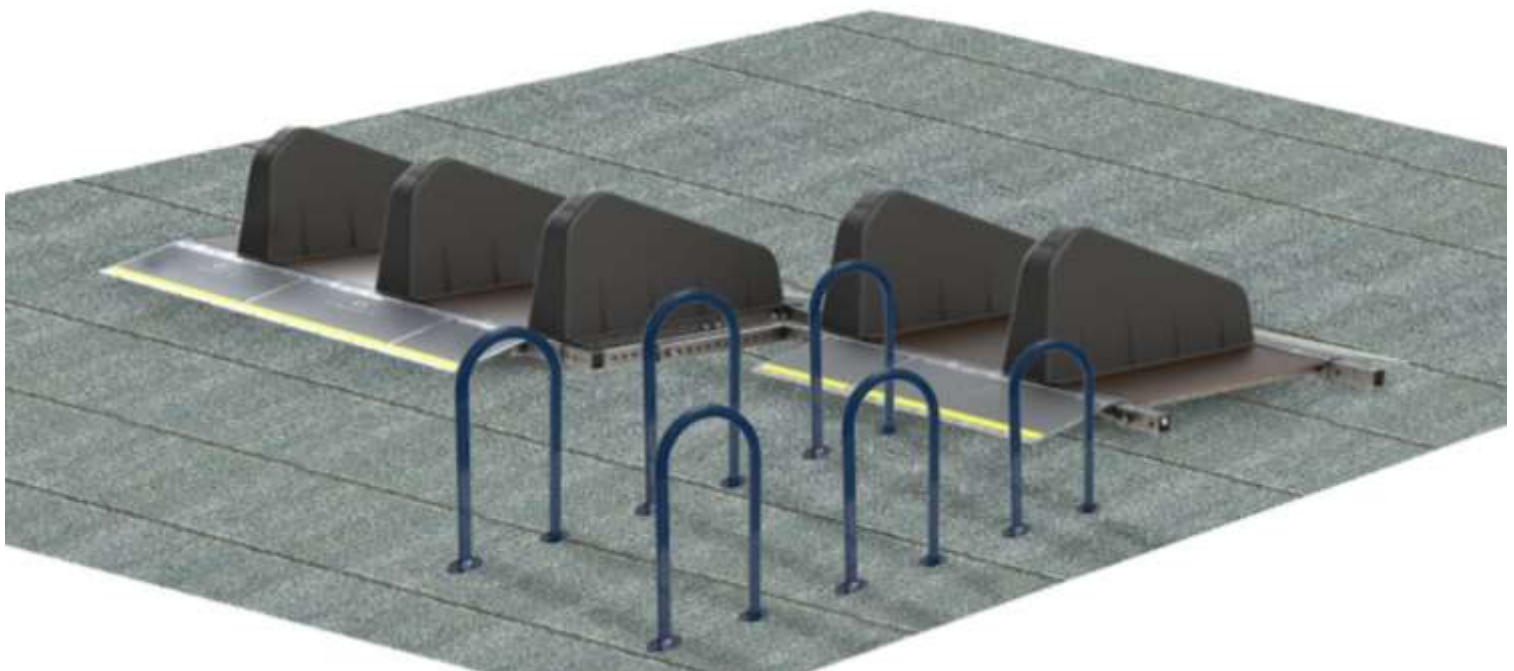


The Surface Guard system can be anchored around street furniture items which have a width less than 1,200 mm (see the below picture as a guide). For items which have a much larger width, see Configuration C.



## Configuration C: A Staggered Array (Not in a Straight Line)

For items which have a larger width than 1,200mm, it is possible to stagger the Surface Guard system to fit around obstructions such as planters, bus stops and cycle stands.



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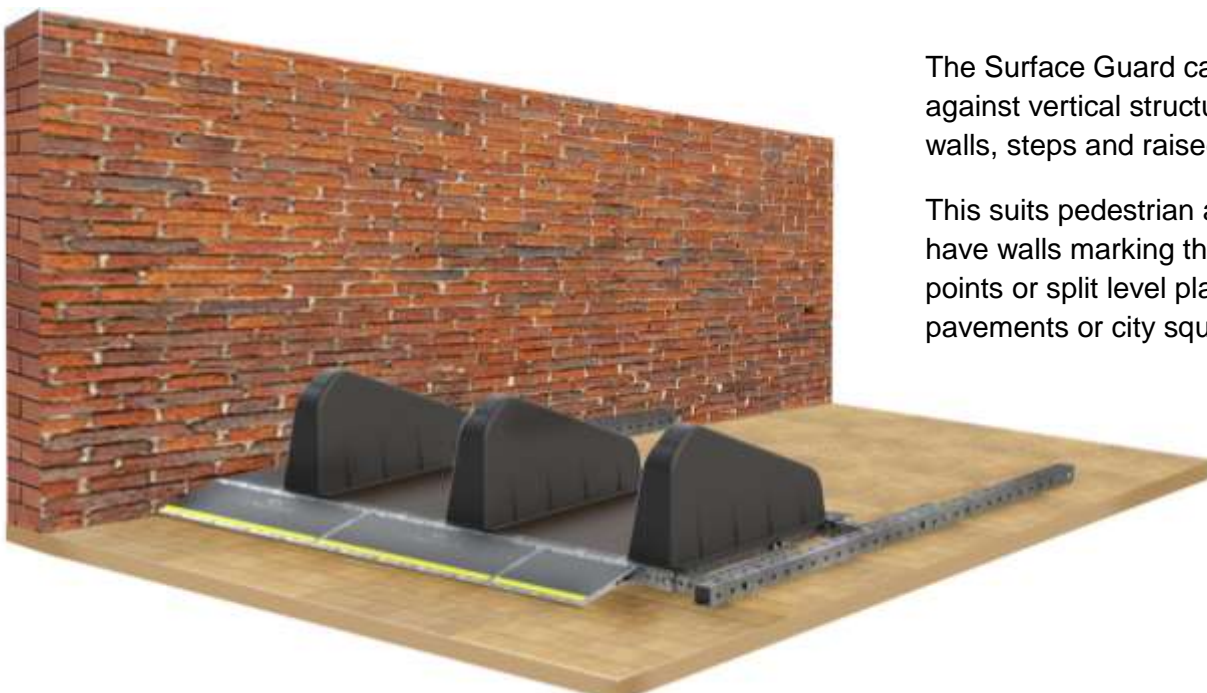


## Configuration D: Across a Central Reservation within a Roadway

Wide carriageways often incorporate central islands of varying widths. This is not a problem as the Surface Guard can be configured to pass over these with ease.



## Configuration E: Against Walls or Vertical Structures



The Surface Guard can be installed against vertical structures such as walls, steps and raised planters.

This suits pedestrian areas which have walls marking the main access points or split level plazas, pavements or city squares.

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## Configuration F: Over Recessed, Vertical Structures

Some pedestrian promenades where temporary events are held are located near water fronts. To secure areas like this, it is possible to use the accessory attachments available with the Surface Guard system. To interface with dock walls or recessed structures, these attachments are adjustable to suit specific site applications.



## How Do I Find Out the Correct Configuration for my Site?

This document demonstrates a variety of different configurations which suit common street scene environments. The system can be configured in many different ways, the examples shown in this document use only five accessories to achieve the degree of flexibility illustrated.

ATG Access offer a site survey prior to all deployments to ensure the appropriate configuration is supplied to site. For further information, please contact our offices using the below contact details:

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