

# FLOWPLATE

Manufacture of traffic flowplates

Flow Plates Ltd

Unit 28D, Nuralite Industrial Estate, Canal Road, Higham, ME3 7HXT

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## O&M MANUAL



## HGV SUNKEN FLOW PLATE

PART NO NMFP - 06

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## Product Overview

### HGV Sunken Flow Plate

Traffic flow plates provide a simple way to prevent unauthorised entry to restricted areas and encourage a one way traffic.

These robust concrete-in type plates feature internal rubber noise suppression bumpers, so they won't keep the neighbours awake at night, a unique replaceable top plate to protect your investment, and a clever lock down facility to enable you to temporarily disable them should you need to perform maintenance, etc. at the entry to the one way system.

Ideal for use at car parks, site entry and exists, making roads one way to deter use as a rat run, etc.

- Economical
- Low maintenance
- Unique replaceable top flap
- Easy to install
- Suitable for all types of vehicles

Plates have a raised height of 110mm and are therefore not suitable for very low sports vehicles.

Angle of attack must not exceed 15°.

Recommended speed not to exceed 5 mph.

We strongly recommend the use of warning signage and speed ramps in conjunction with HGV Sunken Flow Plates.

### **Specification**

Heavy duty steel plate with 8mm Durbar steel top plate.

Box Dimensions:

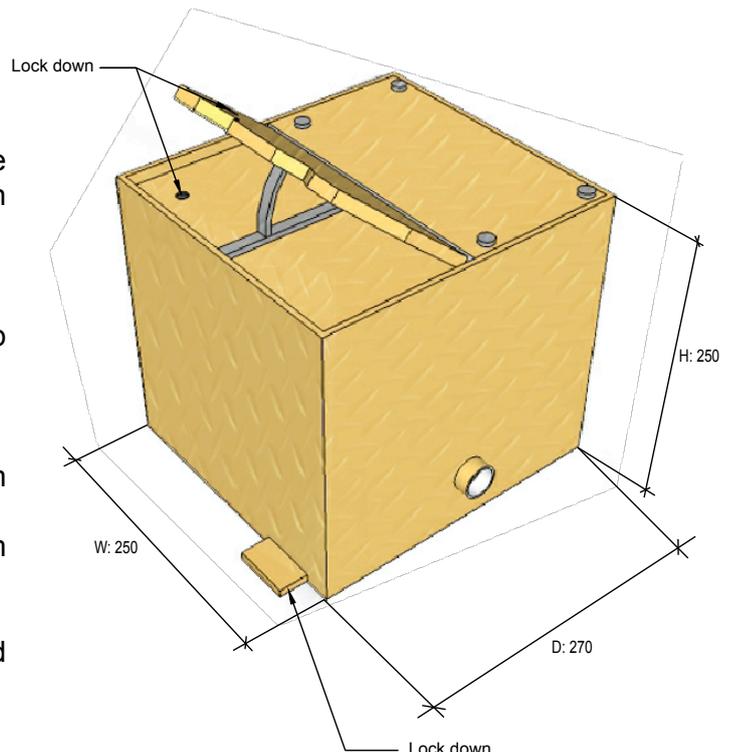
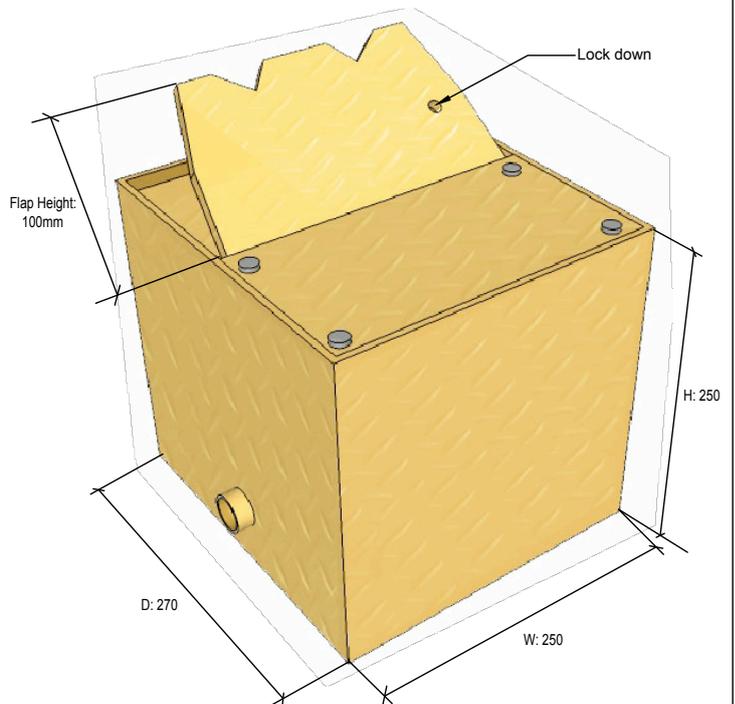
H: 250mm (teeth down) 350mm (teeth up)

W: 250mm (plus 2x30mm drain tubes - 310mm overall)

D: 270mm (plus 2x40mm anchor flaps - 350mm overall)

Finish: Top plate galvanized then primed and painted yellow (RAL 1023)

Installation: Concrete-in



This manual is a guide ONLY and above all common sense should prevail we cannot as an individual or a company be held responsible for any accident damage or indeed any event that happens with the afore mentioned equipment or any variant of this. This article is intended as a basic user guide and is NOT a comprehensive "how to" when using the Flow Plates system. You must only use the equipment if you feel you have an understanding of the operation and confidence in yourself to adhere to the signage and warnings that have been outlined to you in this manual and displayed next to the equipment. Also this guide should be given to you complete with warnings and all pages from its original not a cut down or modified version.

**NB: Only competent skilled persons should carry out procedures or a variant of procedures detailed in this manual**



## IMPORTANT SAFETY NOTICE

Flow Plates and ramps are designed to Control the flow of vehicular traffic primarily. It can be dangerous to allow the passage of pedestrians and any other self-powered animal or device to utilize this method of access without appropriate warnings and or signage.

It may be necessary for the end user of this product to provide an alternative, safe method of access to cater for the previously mentioned categories.

The end user should fit all necessary signage and warning notices to either side of the flow plates installed, which should be visible and clear from all directions of approach.

The product that was shipped to you was designed with the best intentions to protect all categories from harm or affect this however is not a fail safe. They should not be modified or tampered with by any unauthorised person not sanctioned by the manufacturer.

Sign and date below to say that you have read and understood this notice before ANY installation work:

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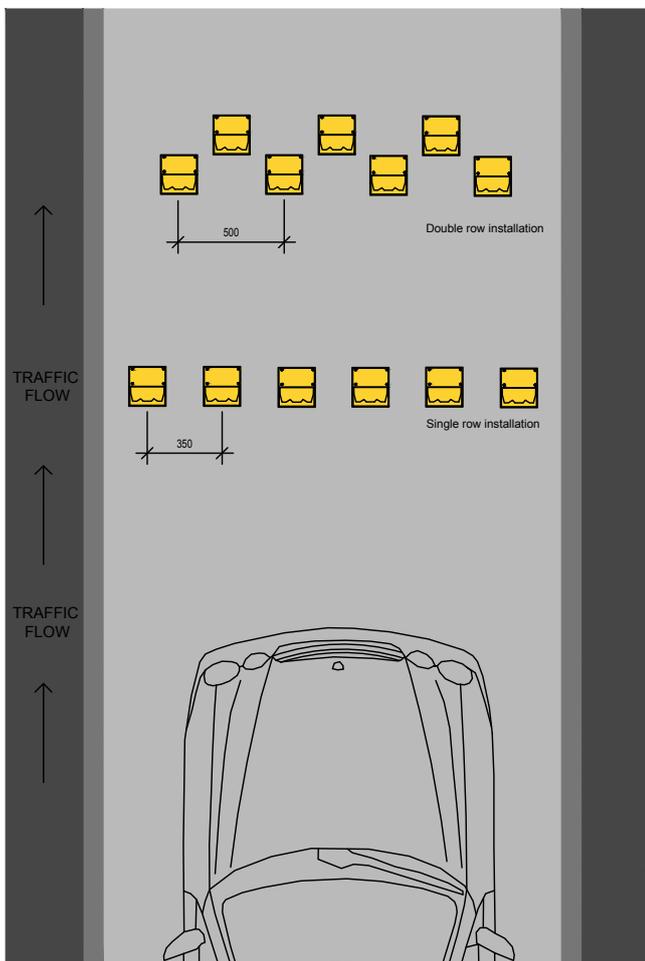
W: www.flowplates.co.uk

## Instructions for use and maintenance

Flow plates have been designed to encourage vehicles to travel in one direction only. The use of flow plates by pedestrians is not recommended, as it is important to use common sense to avoid trapping any bodily parts and ensure that the product is used safely over its' life span. As much as is possible, any part or component that could cause harm has been manufactured to offer the greatest protection to the user. Used sensibly and with the appropriate understanding of this product, these products will continue to operate in a safe manner.

### Positioning:

- To maximise the life of your Flow Plates, vehicles should drive over the product in a straight line as demonstrated in diagram below. Vehicles turning on the Flow Plates can cause excessive discomfort to the passengers and will also damage the Flow Plates, springs, fixings and can affect the position on the surface.
- Flow Plates should be set back from junctions, to reduce vehicles stalling when pulling away
- It is best practice to fit Flow Plates on a level surface and not on an incline or slope as in certain circumstances dependant on the traffic type, damage may be caused to the Flow Plates and could reduce the life span of the product
- Flow Plates are not to be fitted on a gravel road as this can cause damage to the Flow Plate, it's mechanism and reduce the life span of the product.



Can be installed as a single row or for maximum effect, as a staggered double row.

Note: All Flow Plates should be set out as shown in the diagram away from an area of turning

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## Installation Methods:

- STEP 1. Cut trench across the road 900mm wide x 325mm deep
- STEP 2. Lay concrete base 75mm thick
- STEP 3. Set plates as desired and connect drainage ducting to each plate and to main drain
- STEP 4. Pour concrete and finish level with road surface (concrete must be left for a minimum of 36 hours before use)
- STEP 5. Once all the plates are in position, tighten with an impact driver or socket

**DO NOT OVER TIGHTEN THE FIXINGS !**

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Road width metric (mm)	No. of plates
2000	6
2500	7
3000	9
3500	11
4000	12
4500	14
5000	15
5500	17
6000	18

Table 1: Widths to plate number

Quantity of flowplates is dependent on the width of the roadway. Refer to table. When in doubt please contact a member of the sales team for further clarification.

## Maintenance

Depending on site usage in order for these units to operate to their optimum they should be serviced once a year. Refer to the bullet points below for general product maintenance.

- Sweep the area surrounding the flow plates to avoid excess dust and debris build up in the moving mechanism part
- Undo the plate fixings and remove the cover to clean out all debris. This will inhibit the smooth movement of the teeth and/or flap
- Check all ground fixings are tight as lateral movement in the plates will cause excess wear
- Paint finish should be re-coated whenever the zinc coated finish has worn through. It is normal for the finish to deteriorate over time as the plates are bearing heavy traffic.
- The teeth can become worn over time or if driven over in the wrong direction, and should be replaced when damaged or not working effectively. Remove the affected cartridge by unbolting the 2 fixings, and replace with a new cartridge.



PLEASE PAY ATTENTION AND CONE AND SECURE  
YOUR AREA OF WORK BEFORE! ANY WORK IS  
CARRIED OUT

YOU MUST USE COMMON SENSE TO AVOID ANY  
INJURY

