Instruction Manual

Manual Swing Gates

Gate Identification Number

Date of Issue

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<td>R. Keleman</td>
<td>P Griffin</td>
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1. **Introduction**

   The gate supplied is part of the Heras UK Perimeter systems. It is designed to be installed within 1 day and all safety devices are factory fitted and working.

   If any extra equipment is required for the individual site, such as remote open and close, or automobile protection, this can be obtained from Heras UK and must be installed by qualified personnel.

   In order for this equipment to conform to current legislation a maintenance plan must be established prior to use. It is recommended that the product be serviced at least annually by fully qualified personnel. As Heras UK are the manufacturer of the gate this is best undertaken by the Heras UK authorised service engineers based at Geoquip worldwide.

2. **Contacting Us**

   Any queries regarding the operation or maintenance of this equipment should be referred to:

   Heras U.K. Fencing Systems  
   Herons Way  
   Balby  
   Doncaster, DN4 8WA

   Tel: 01302 364 551  
   Fax: 01302 322 401

   Web Site: www.heras.co.uk  
   Email: info@heras.co.uk

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These instructions should be read fully prior to using the system!
3. **Declaration of Conformity**

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**CE Declaration of Conformity**

**Equipment:** Manual Swing Gate  
**Manufacturer:** Heras UK  
**Address:** Herons Way, Balby, Doncaster DN4 8WA

We hereby declare that the equipment described here above complies with the essential requirements of the following directives:

BS EN 12604 Industrial, commercial and garage doors and gates – Mechanical Aspects - Requirements

For and behalf of the manufacturer:

**Name:** Paul Griffin  
**Position:** Operations Manager

Signature: [Signature Image]

*Important Note: Modifications to the equipment will render this document null and void*

Heras U.K. Fencing Systems is a Business Division of CRH Fencing & Security Group Limited.

Cert number 890
4. **Declaration of incorporation**

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**CE Declaration of Incorporation**

**Equipment:** Manual Swing Gate

**Installer:** ___________________
**Address:** ___________________

We hereby declare that the equipment described here above complies with the essential requirements of the following directives:

- **BS EN 12604**  Industrial, commercial and garage doors and gates – Mechanical Aspects - Requirements

**For and behalf of the manufacturer:**

**Name:**       Paul Griffin  
**Position:**   Operations Manager  

**Signature:** [Signature]

Where additional devices are installed by 3rd parties other than the manufacturer the gate must not be put into service until the equipment/components into which it is incorporated and form part of the completed gate system have been identified and declared to be in conformance with the requirements of the Directives and Standards listed in this document.

*This document is to be completed by the installer where the gate has not been installed directly by the manufacturer Heras U.K. Fencing Systems. The installer and/or maintenance provider must ensure that any changes to the system are approved. Installation of non-approved spares will render this document null and void.*

*This document should be submitted together with the Manufacturer’s Declaration of Conformity.*
5. **Twelve-Month Warranty**

**Important Note:** If your equipment was not purchased directly from Heras UK, then all warranty issues will need to be addressed to the supplier of the equipment.

**Return to Factory Warranty**

All equipment supplied by Heras UK includes a return to factory 12 month warranty. This warranty *does not* include engineer call out.

6. **Disclaimer**

Whilst every effort has been made to ensure that the information contained in this manual is correct at the time of issue, no responsibility is accepted for any loss or damage arising from incorrect information.

This manual forms no part whatsoever of any contract or agreement between Heras UK and others. In no circumstances will Heras UK be responsible or liable for any costs, damage or injury whatsoever arising from the use of this Manual.

Should the gate be tampered with and/or any non-approved equipment is fitted to the gate such as signs, weights, lights and other auxiliary items then the warranty will be considered void.

7. **Copyright**

The Copyright of this Manual remains the property of Heras UK at all times. This Manual may not be reproduced by any means without prior written permission from Heras UK.

8. **Transport and Installation**

The purchased gate will be transported in a bundle comprising of the gate leaves and the Gate posts along with any ancilliary equipment. Fence fittings etc will be in a bag contained within the shrink wrapping. This is to ensure that the correct posts are with the correct leaves.

The bundle will need to be unloaded close to the working area with the use of a fork truck.

Using recognised manual handling techniques and or suitable lifting equipment carefully unwrap the bundle and check the contents.

Excavate the foundations for the 2 supporting posts to the required depth as specified by British standards. Place the 2 posts into the excavations and check to see that they are at the required depth and are vertical in all directions. Fill the excavations with the correct amount of concrete as specified.

Check that the posts are still vertical and at the correct height. The gate leaf(s) can now be hung and the weight of the gate supported by suitable blocks. The gate leaf(s) should be left for 48 hours before the supporting blocks are removed.
The gates can now be adjusted using the adjustable hangings to ensure that they are level.

![Top Hanging and Bottom Hanging Diagram]

The ground tubes can now be marked and drilled. The ground tubes supplied should be grouted within the holes that have been drilled.

### 9. Operation

The gate is manually operated and can be locked using various methods

1. If the gate is fitted with a slip latch a padlock is fitted by the end user and placed in the hole in the slip latch.
2. If the gate is fitted with a mortice lock the lock will be supplied with 3 keys and is locked by turning the key. If the gate is a double leaf gate then the fixed leaf will have a dropbolt fitted and this is locked using a padlock supplied by the end user. This will enable the mortice lock to be secured against the locked fixed leaf.
10. Maintenance of hot dipped Galvanised Product

The following information offers some guidance on the general care and maintenance of hot dip galvanized steel products.

Avoid long periods of exposure of your galvanized steel product to environments where the pH is below 6 and above 12. Outside the range of pH 6-12 the galvanized coating can suffer greater corrosion than normal.

Avoid direct contact of your galvanized steel product with dissimilar metals, such as brass and copper, particularly in corrosive environments. Where dissimilar metals are to be used together ensure that there is an insulator between the dissimilar metal and the galvanized product.

Do not constantly abrade clean your galvanized product and, where possible, avoid abrasive washing of your galvanized product altogether. One of the ways in which galvanizing protects steel from corrosion is by the development of a thin barrier film of insoluble zinc corrosion products (known as a patina) on the outer surface of the galvanized steel through exposure to the atmosphere. Abrasive cleaning will wash away this protective patina and the galvanized article will have to build up this barrier protection again, consuming more of the zinc. Constant abrasive cleaning will consume the zinc more quickly and therefore may reduce the life of your galvanized steel product.

Galvanizing may be cleaned using a water-based emulsifier, alkaline-based cleaners with a pH of 12 or lower or organic solvents. Then rinse the area with fresh water and simply wipe clean with a soft cloth.

For galvanizing products that are situated in a highly corrosive environment e.g. coastal, heavy industrial, etc. it is recommended the product be rinsed with potable water on a regular basis, particularly under sheltered conditions (i.e. not exposed to rain and sun).

Avoid long term storage of any galvanized product in damp and poorly ventilated conditions. Ensure the storage location is dry and there is effective ventilation.

If there is physical damage to the galvanized coating of the product (e.g. coating is chipped or fabrication after galvanizing has taken place), it is recommended that the damaged area be repaired in accordance with the procedure below.

There are a number of ways of treating different types of stains or marks. It is advised that with any of the cleaning treatment of the galvanizing should be conservative at first and then if the situation demands, the treatment can become steadily more aggressive. It is also important that wherever some form of mechanical abrasion or “scrubbing” is required, a hard plastic bristle brush is recommended to be used. Steel bristle brushes are not to be used since they will cause discolouration.

It is important to note that mechanical methods of cleaning zinc surfaces can cause aesthetic issues. The “cleaned” areas are likely to contrast with adjacent untreated surfaces and may take a significant period of time to weather to a uniform colour. If aesthetics is a large concern, it is advisable to first test the cleaning method in an inconspicuous area in case the aesthetic effect is unappealing.

For general cleaning of bulk contaminants such as dirt and the like, ordinary laundry soaps can be satisfactorily used. For more stubborn or larger areas, the use of a low pressure wash (such as a pressure washer), with just pure water or in conjunction with proprietary cleaning materials such as car wash or truck wash, can be effective.
The car and truck cleaners are made to minimise corrosion on the metallic parts of vehicles so are generally suitable for use on galvanized steel although it is important that the steel be washed down with freshwater after cleaning.

Often, water draining from other adjacent steelwork that is rusting can flow on to galvanized steel and cause conspicuous brown staining. This can be treated with the use of commercial oxalic acid or a proprietary solution that has been developed for descaling pots and pans. Thorough rinsing with water is again important to remove any corrosive residues of the cleaner.

Sometimes during building or renovations, cement and mortar can be dropped onto the galvanized steel and this can be very difficult to remove once it has hardened. Firstly remove the large parts of the deposit as close to the surface as practicable, then oxalic acid can be used to remove the remaining remnants from the galvanized steel, followed with a thorough rinsing. Other acids are more effective on the mortar or cement, but these can be very aggressive on zinc and are not recommended.

Paints, such as graffiti, can be removed using thinners. If some form of scraping is required, use plastic or wooden scrapers (not steel/metallic items). If the paint is wet or fresh, then normal thinners can be used. Once the paint has hardened, then a non-alkaline stripper can be used. Again, rinsing is important to remove residues that may cause discolouration later and/or encourage corrosion.

11. Repair procedure for Hot Dipped Galvanised Products

General Notes
If any area of the product has had the galvanization removed and the bare metal has been exposed to the atmosphere then the following procedure must be followed to ensure that the end product is satisfactorily protected.

The addition of a zinc rich coating acts as a sacrificial layer to protect the steel material below in the same way as hot dipped galvanised products. There is a cathodic reaction which bonds the zinc rich coating to the material to be protected and so a good contact point must be ensured.

Surface preparation
All loose material must be removed with a wire brush and the surface cleaned with a cloth, do not use any thinners. Ensure that the galvanised surface is cleaned 50mm around the area to be treated.

Application
The zinc rich coating must be applied as soon as possible after cleaning. If the time elapsed between cleaning and application exceeds 24 hour then the cleaning process must be repeated. Apply the the zinc rich coating using an aerosol can or brush on the area to be treated ensuring that the zinc rich coating comes into contact with the hot dipped galvanised material surrounding the affected area. If any areas require a second coat then the zinc rich coating can be reapplied after 45 minutes.

Over coating
The zinc rich coating will dry to light grey in colour and can be over coated with a spray paint after 60 mins to the desired end colour.
12. **Maintenance of powder coated materials**

There are no surface coatings for a system suited to external fencing which requires no attention at all. However, the powder coating system requires only minimal care to guarantee the extended life of the fence. After installation the following guidelines should be followed to protect the long term good looks of the fence:

**Cleaning**

It is recommended that cleaning should be carried out at around 6 month intervals for best results. Areas or components exposed to high levels of pollution should be cleaned more frequently. Most dirt and soils can be removed with dilute household detergents not containing solvents or abrasives.

**Graffiti Removal**

Most marker pen graffiti can be removed by careful use of benzene, turpentine or in resistant cases methylethylketone [MEK]. When using MEK do not rub more than 4 to 5 times over the surface. Cleaning should be followed by waxing [Jotun Norpol Wax W70].

13. **Repair of powder coated materials**

**Minor damage metal not exposed:**

- The damage should be cleaned carefully ensuring that there is no damage to the pretreatment.
- Remove any loose particles.
- Apply colour matched repair material to the same thickness as the factory applied coating.

**Repair where metal exposed:**

- Clean the damaged area and remove loose particles.
- Apply primer to exposed metal [2 pack etch].
- Apply colour matched repair material to the same thickness as the factory applied coating.

14. **EC Directives**

The product has been developed and produced in accordance of the following EC Directives:

- **BS EN 12604**

  Industrial, commercial and garage doors and gates – Mechanical Aspects – Requirements

15. **Maintenance Schedule**

In order for this equipment to meet current legislation the gate and any auxiliary equipment must be serviced using the following criteria and a record kept of any results, or maintenance carried out.

- a) Check and clean the finished surface. Repair as described section 10 and 12 as appropriate.
- b) Check operation of locking devices and clean and lubricate as necessary.
- c) Check operation of Drop bolt (if fitted).
- d) Clean out ground tubes.
- e) Clean and lubricate hinges using a spray grease.
16. Installation Notes
## 17. Maintenance Record

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