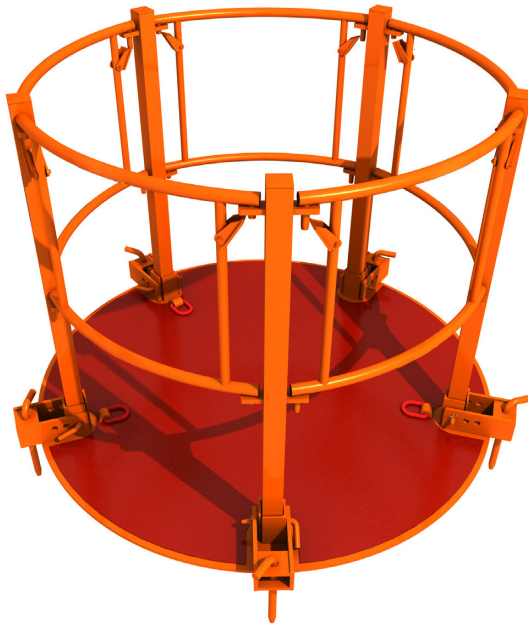




# GROUNDWORKS

# MH SAFETY PLATFORM

## User Guide



GENERATION  
HIRE & SALE

LW/10.22

## Introduction

This booklet is intended to provide basic information for users of the Generation Manhole Safety Platform system and to draw the client's attention to the practical aspects of the Platform operational procedures and basic maintenance which need to be considered when compiling method statements, risk assessments and safe system of works. It is assumed that clients are familiar with general safe practices applicable to this type of work.

The Manhole Safety Platform system is intended to act as a safety platform on top of concrete pre-cast manhole rings. It is not intended for other purposes. It is advisable, before commencing installation, to read the notes below and to become familiar with the procedures involved when using the Manhole Safety Platform.

The Manhole Safety Platform systems should not be used in seawater applications without prior consultation with the Generation. Engineering Department.

## Design

No information about design is included in this user guide.

## General Guidance Notes

### Safe System of Work and Method Statement

Assuming that the appropriate Manhole Safety Platform has been selected for use, the Health and Safety at Work Act requires that a safe system of work is adopted to carry out the works on site.

These guidance notes are intended to draw the client's attention to practical aspects of Generation's range of Manhole Safety Platform components during use and basic maintenance which need to be considered when completing method statements for a safe system of work.

In particular, the client's attention is drawn to the size and weights of components and the need for planning the lifting operations involved.

All major components of the range of Manhole Safety Platform are fitted with lifting lugs for safe slinging.

### Access, Hardstanding Areas and Site Storage

- Suitable firm, level, dry areas should be made available on site for storage and pre-assembly work.
- Suitable lifting equipment of adequate capacity should be provided for off-loading and installation.
- Slinging should always be carried out by suitably experienced and competent personnel.
- Large components should be stacked, nested with suitable timber.
- Smaller components should always be stored in the storage compartment when not in use.

## **Personnel**

The Management of Health and Safety at Work Regulations require that personnel deployed are suitably trained, experienced and supervised by a competent person. All lifting operations are to be controlled by an appointed person in accordance with BS 7121 and LOLER regulations.

The main activities associated with Manhole Safety Platform use are:

- Unloading and loading the delivery vehicle.
- Bolting up and pinning components together.
- Slinging and lifting the Manhole Safety Platform into position.

## **Plant and Lifting Equipment**

A suitable appliance is required for off-loading, installation and re-loading of equipment, together with lifting chains, available from Generation., of suitable length and capacity and with current certification.

### **WARNINGS:**

- If an excavator is to be used for lifting operations, refer to safety information.
- If Manhole Safety Platform components are to be lifted in or around an excavation, the appliance should be located at a safe distance from the edge of the excavation and the lifts and radii checked against the safe lifting capacities of the appliance.
- A surcharge for the appliance must have been allowed for in the excavation brief / design.
- No more than one assembled component must be lifted at a time.

### **Small Plant, Tools and Lifting Chains**

- Lifting chains of suitable lifting capacity, hook size, leg length and current certification should be used. Generation can supply 7mm chain diameter, 4 leg 4.0m long chain slings Weight: 47kg. Refer to Lifting Chain user guide for further information.
- A small lump hammer may be required to secure the Pins and 'R' Clips.

### **Access & Egress and Edge Protection**

- Install the edge protection as soon as possible before entry into the excavation and onto the platform base plate.
- A competent person should inspect the means of access and egress regularly.

### **During Installation Works**

- Check that all pinned connections are intact and complete with an 'R' clip, where required.
- Avoid striking equipment or loading it inappropriately, i.e. laterally loading it by storing materials or by hanging or propping from them.

### **After Installation Works**

- Each Manhole Safety Platform must be inspected daily before personnel begin work.

### **Return of Equipment Off-Hire**

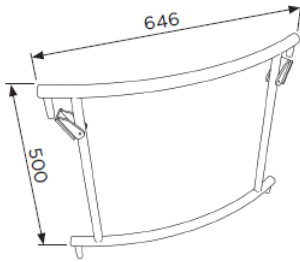
- Clients should ensure that on removal, the equipment is returned clean and assembled as supplied.

### **Transport**

- Ensure all equipment is loaded to the satisfaction of the vehicle driver and is securely restrained to the vehicle bed.

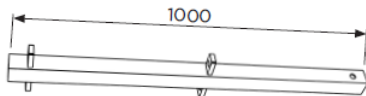
# Component Identification

## Platform Components



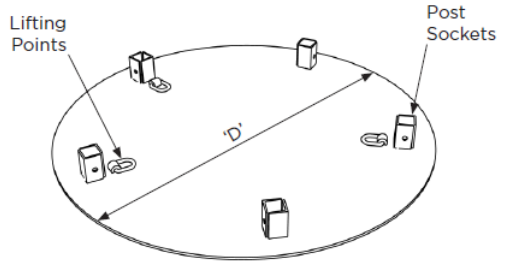
Handrail Barrier

Weight: 5.6 kg



Handrail Post

Weight: 5.6 kg



Platform Base Plates

Code	Base Plate Dia. 'D' (mm)	Quantity of Post Sockets	Weight (kg)
-	1400	4	200
-	2030	7	204
-	2700	10	450

## Component Connectors

Locking Shoe Pin

Weight: 0.9 kg  
Ø20 x 285mm

Adjustment Holes to Suit Various Manhole Ring Diameters

Locking Shoe

Weight: 3.4 kg



Post Locking Pin

Weight: 0.3 kg  
Ø16 x 150mm

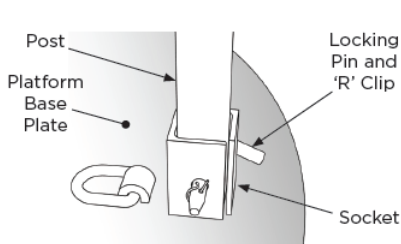
# Connection Details & Site Assembly

Platforms will normally be delivered to site fully assembled. If not, and site assembly is required, locate 1 no post into each socket on the baseplate and where appropriate also locate 1 no locking shoe around the socket. Secure both items to the socket using 1 no. post locking pin and 'R' Clip.

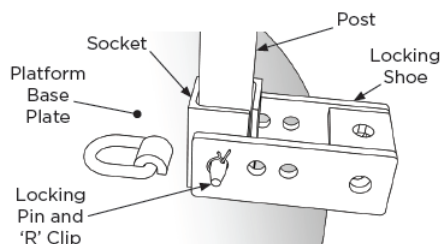
## Connection Table

Connection Type		Connector Details	
Post	to	Socket	1no Locking Pin and 'R' Clip per Socket
Post	to	Socket & Locking Shoe	1no Locking Pin and 'R' Clip per Socket

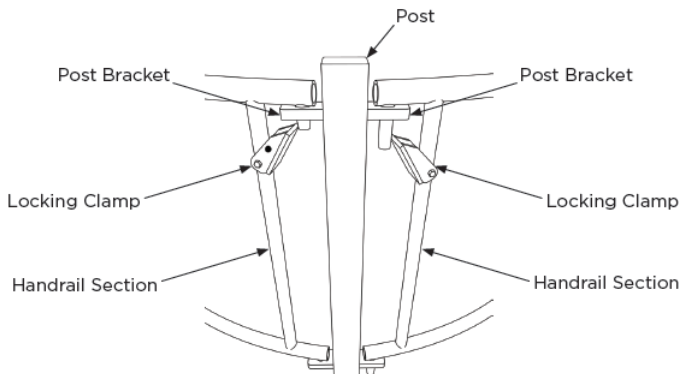
## Connection Details



**Post Pinned into Socket  
(No Locking Shoe)**



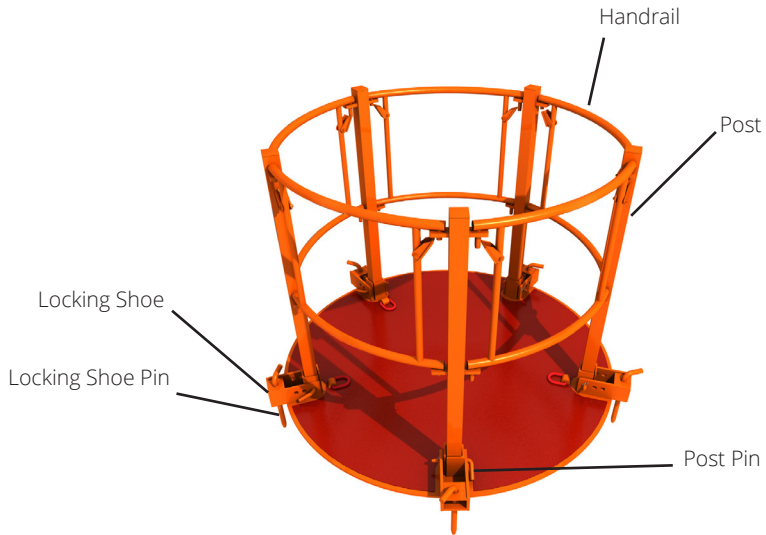
**Post Pinned into Socket  
(With Locking Shoe)**



**Handrail to Post Connection**

- Fit 1 no handrail section between each pair of posts by locating the fixed pins on the handrail into the brackets on the posts.
- Ensure locking clamps on the handrail are located underneath the post brackets.

## Kit Assembly Details



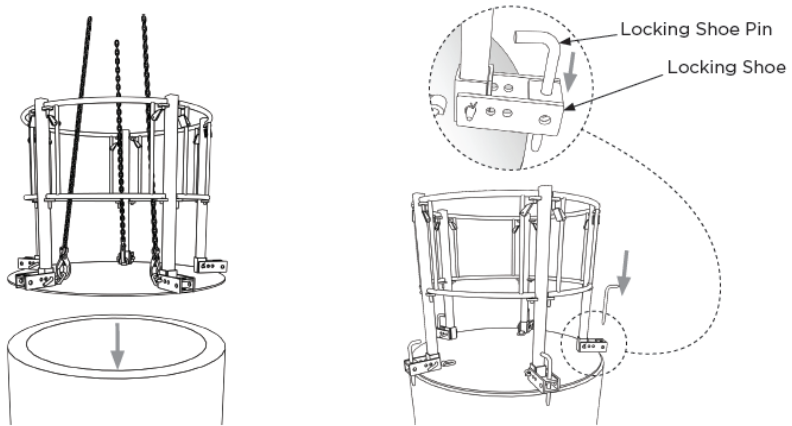
### Manhole Safety Platform Assemblies

Code	To Suit Manhole Ring Dia. (mm)	Post & Pin Qty	Handrail Qty	Shoe & Pin Qty	Weight (kg)
085207	1200	5	5	5	211
085208	1800	8	8	8	402
085209	2400	10	10	10	549

# Installation and Removal Details

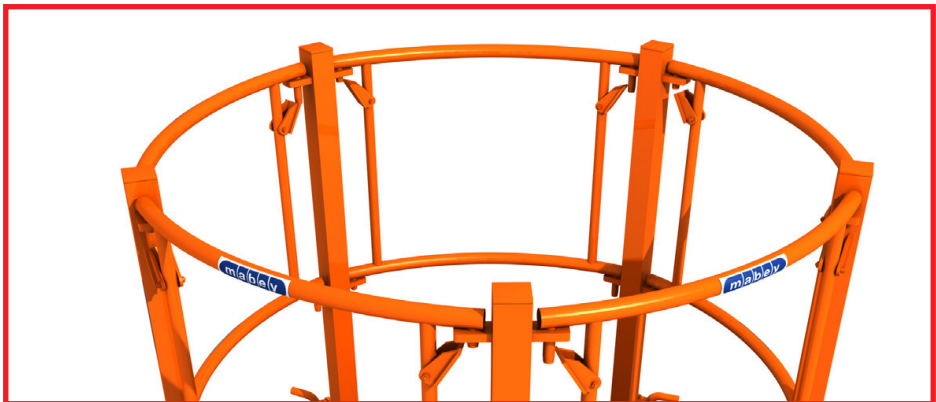
## Lifting the Pre-Assembled Platform

- Lift the pre-assembled Manhole Safety Platform onto the top of the pre-cast manhole ring by attaching suitable lifting chains to the lifting points on the base plate.
- When the platform base is sat on the manhole ring, insert each Locking Shoe Pin into the Locking Shoes and secure with an 'R' Clip. This will help prevent the platform moving sideways.



## Handrail Gate Openings

Each handrail section can be used as a gate for access onto or off of the platform and the gate will hinge both inwards and outwards for ease of access. To access the platform from the outside, follow these steps: (NOTE: To open the gate when exiting the platform the locking clamp is on the left hand side of the handrail)





## Basic Maintenance

- Regularly check pins and 'R' clips are fitted and secure.
- Ensure components are stored in a clean, dry area.

**IMPORTANT NOTE:** Failure to observe the following points could result in serious bodily injury.

### Do's and Dont's

- **DO** ensure that all handrail sections are in place and correctly secured with the pins and locking clamps whilst working on the platform to prevent unintentional opening.
- **Do NOT** use damaged components.
- **Do NOT** enter the platform until all of the locking pins are installed.

## General

Since our policy is one of continual improvement, components may vary in detail from the descriptions given in this publication.

# GROUNDWORKS BRANCHES NATIONWIDE

Groundworks Numbers:

UK: **087 0870 8484**

IRL: **00353 1 601 1500**



**SCAN ME  
TO FIND**



**YOUR LOCAL  
BRANCH**



**GENERATION  
HIRE & SALE**

Generation UK Ltd.  
Generation Head Office, Trinity Street, Off Tat Bank Road, Oldbury, West Midlands, B69 4LA - United Kingdom  
Tel. 0121 543 2950 - Fax. 0121 543 2953 - [groundworks.enquiries@altradgeneration.com](mailto:groundworks.enquiries@altradgeneration.com)  
[www.altradgeneration.com](http://www.altradgeneration.com)