



# Instructions for the safe use of Flints Flying Irons

**The information in this leaflet should be passed to  
the user of the equipment**

This document is issued in accordance with the requirements of Section 6 of the Health and Safety at Work Act 1974, amended March 1988.

These instructions apply to Flints Flying Irons with Codes  
FHS012 and FHS012L

**Working Load Limit 200kg**

## Use for which the article is designed

Flints Flying Irons have been designed for the flying of conventional timber scenery in the indoor theatre environment. It is assumed the fittings are attached to scenery flown on standard theatre counterweight or hemp systems or power flying systems fitted with soft starts. The use of the fittings for any other purpose would be inappropriate. The fittings should be attached to the scenery by a competent person familiar with the theatre environment.

## Always

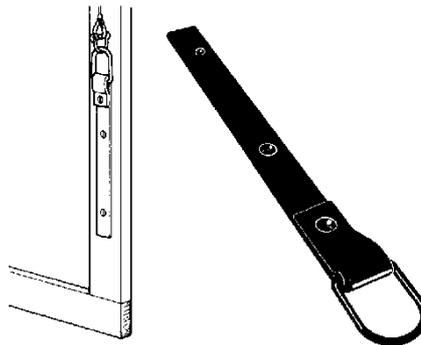
- ✓ Store the fittings in a area which is dry, clean and protected from corrosion.
- ✓ Inspect the fittings before putting into use or before being placed into storage. Any fittings found to be faulty should be marked as such and taken out of service and destroyed.
- ✓ Ensure fittings are selected and fitted by a competent person.
- ✓ Ensure the fittings are used in such a way that the failure of any one fitting would not lead to a dangerous situation.
- ✓ Ensure any fitting subjected to excessive load by way of shock loading or any other means is immediately removed from service and marked for destruction.
- ✓ Follow the fitting instructions with regard to fittings and timber thickness.
- ✓ Ensure the load is applied in the direction as stated in the instructions.
- ✓ Ensure the fittings are thoroughly inspected by a competent person at six monthly intervals or after any exceptional circumstance or according to an examination scheme.
- ✓ Individually mark the fittings and record their details together with the EC Declaration of Conformity.

## Never

- ✗ Never exceed the Working Load Limit.
- ✗ Subject fittings to shock loads.
- ✗ Never use a fitting which is bent, modified in an unapproved manner, stretched, has nicks, gouges or cracks, has signs of heat or burning, or signs of corrosion.
- ✗ Apply a load without ensuring any shackles or rigging screws are correctly aligned.

## Selection of Correct Fitting

If fitting the Flying Iron to the base of the flat select the lipped Flying Iron which has the additional security provided by the lip on the base. If the Flying Iron can not be fixed to the lower edge of the flat then the unlipped Flying Iron may be used.



## Correct Fitting

Flying Irons should be attached to the base or lower part of the scenery and the wires should be guided by grummets attached to the top and intermediate rails or along the stiles.

The Flying Iron must be bolted to the timber

using 6mm diameter countersunk machine screws and tee nuts. The thickness of the timber must be at least 25mm and run the entire length of the fitting. The width of the timber should be at least 70mm in order to achieve the working load limit. The timber should be of best joinery quality and inspected to ensure it is free from defects such as knots or shakes. The corner structure of the scenery should be robustly constructed and if necessary reinforced with plywood plates, glued and screwed in place. The structure should be designed so that loads are evenly spread. The working load shown on the fitting does not imply that the structure it is fitted to can withstand the load.

**Safe Use** The load should be applied vertically in line with the Flying Iron. Bridles should not be employed. Before applying a load ensure any shackles and rigging screws are correctly aligned. Care should be taken during flying to avoid shock loads which may arise due to wires becoming slack if a piece of scenery becomes caught on a fixed object while flying in.

**In Service Inspection and Maintenance** The fittings should be kept clean and free of corrosion. They must be inspected every six months or after any exceptional circumstance or according to an examination scheme drawn up by a competent person. Inspect for illegible markings, distortion, wear, stretched or bent strap iron or D ring, nicks, gouges, cracks, corrosion, heat marks or any other defect. If in doubt replace the fitting or seek further advice.

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