



Instructions for the safe use of Flints Hanging 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 Hanging Irons with
Codes FHS013 and FHS013R

Working Load Limit 100kg

Use for which the article is designed

Flints Hanging 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

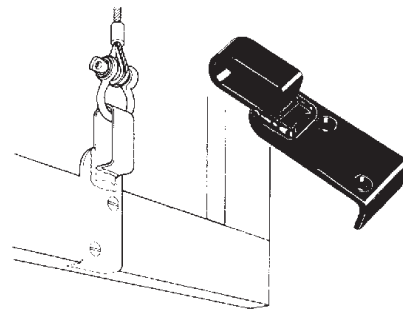
- ✓ Store the fittings in a area which is dry, clean and protected from corrosion.
- ✓ Inspect the fittings before putting into use or before being placed into storage. Any fittings found to be faulty should be marked as such and taken out of service and destroyed.
- ✓ Ensure fittings are selected and 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 exception circumstance or according to an examination scheme.
- ✓ Individually mark the fittings and record their details together with the EC Declaration of Conformity.

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 flying depth (up and downstage) is very restricted then choose the Eye In Hanging Iron (FHS013R). For all other uses, use the Eye Out Hanging Iron (FHS013).



Correct Fitting

Hanging Irons must be attached to the bottom rail of the scenery and the wires should be guided by grum-mets attached to the top and intermediate rails or along the stiles. Hemp lines may be attached directly to the fittings in which case Ring Plates (FHS017) or D Rings and Keepers

(FHS092K and FHS092DR) should be used as grum-mets.

The Hanging Iron must be bolted to the timber using two 5mm diameter countersunk machine screws and tee nuts. The finished thickness of the timber must be at least 20mm. 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 Hanging Irons are designed to allow either the direct attachment of hemp lines or for the attachment of wire ropes by use of an inverted 1.5 ton US Fed Spec. bow shackle. The load should be applied vertically in line with the Hanging 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, nicks, gouges, cracks, corrosion, heat marks or any other defect. If in doubt replace the fitting or seek further advice.

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