

SCENERY FITTINGS

This page was updated 05/12/11

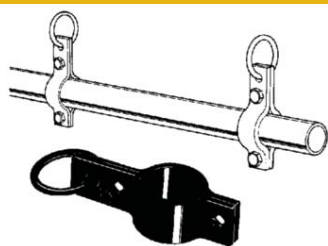
Scenery Fittings

Most of our scenery fittings are designed to be fixed to timber scenery. Often the weakest point will be timber structure itself. Particular care should be paid to the joints supporting the bottom rails on flats. If in doubt, rails should be reinforced with stout plywood glued and screwed across the rail and stile. The scenery fittings which are suitable for lifting are shown with the "hook" symbol. The Safe Working Loads stated are based on design calculations which are carried out in accordance with BS449. These lifting fittings are CE marked, batch tested, and they are marked with the Batch Identifier and the Safe Working Load. They are supplied with an EC Declaration of Conformity. It is beyond the scope of this catalogue to cover every aspect of the safety of lifting equipment so it is important that the person specifying lifting equipment is competent to do so.

LIFTING FITTINGS



new size



Hanging Clamps

Used to secure flying wires or hemlines to flying bars so that the line cannot slide along the bar. Can also be used inverted as a fixing point on flying bars for small pulleys. The

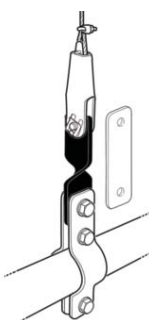
smart black appearance makes front of house rigs less unsightly. Our hanging clamps have all the sharp corners removed so they are less likely to catch on cloths and gauzes. When touring, lines can be quickly refixed in the same place without needing unsightly tape marks. If flying heavy loads always use the hanging clamp with a tested shackle. The SWL may be affected by the rating of the shackle. Fits bars from 45 to 55mm. The large version fits 60.3 OD gas barrel. Supplied with bolts and ring [where applicable]. The finish is black powder coated. The hole for the shackle is 13mm diameter (13.5mm for the slotted clamps) Size: 180x40x65mm. Fixings supplied: 2 off M10x45 HT bolts with nylocks and washers. For diverting flying wires along the bar see next column.

*If plates are more than 10mm apart the SWL should be reduced by 50%

Safe working loads	
SAFETY FHS002HCR	150kg*
FHS002HC	550kg*
FHS002LHC	550kg*

Hanging Clamp with Ring	fits	code	each	Tradeline per 50
652g with ring for hemp line	45-55 Ø	FHS002HCR	£4.95	£4.35 each
with hole for shackle	45-55 Ø	FHS002HC	£4.50	£4.00 each
with slot for shackle	45-55 Ø	FHS002HCS	£4.50	£4.00 each
large with slot for shackle	60.3 Ø	FHS002LHCS	£7.26	£6.35 each

new



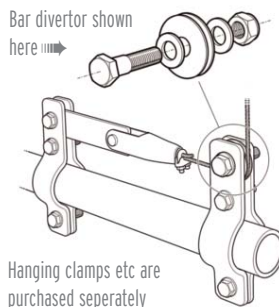
Toggles for Hanging Clamps These fittings can be used with the Hanging Clamps to allow the simple fitting of a wedge socket. The twisted toggle enables the wedge socket to align with the direction of pull when raising flats from lying on the stage. Supplied complete with a M12x45 bolt two washers and a nylok [to secure to the hanging clamp]

SAFETY	SWL
	550kg

Toggles for Hanging Clamps	code	each
Twisted [shown black]	FHS002T	£2.99
Flat [shown in outline]	FHS002TF	£2.37



new



Hanging clamps etc are purchased seperately

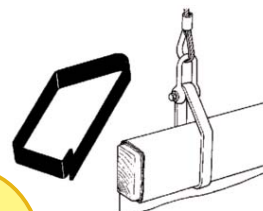
SAFETY	Safe working load
	550kg

Bar Divertors	code	each
Brass sheave for 5mm wire	BARSW93B	£11.70
Nylatron sheave for 6mm wire	FHS002S	£7.93
Nylatron sheave for 8mm wire	FHS002SL	£7.93

Bar Divertors To maximise flying heights wire ropes can be diverted around a sheave and along the flying bar. The bar can be levelled either by moving the anchor hanging iron or by means of a rigging screw parallel to the bar. We now stock three sizes of bar divertors. They are supplied complete with M12x45mm high tensile bolt, two washers and a Nylok nut.



CE



Certain fittings can be supplied unpainted ready for welding.

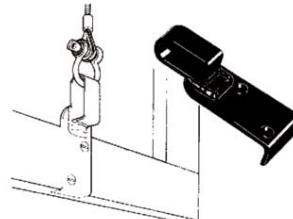
SAFETY	Safe working load
	25kg

Top Batten Clip	code	each	Tradeline per 20
170x25x78mm	FHS001	£3.85	£3.47 each

Top Batten Clip This clever fitting allows cloths to be rolled up and shortened without resorting to the bad habit of cutting slots through the canvas for the flying wires. An absolute must for touring companies and can be of help to painters needing to reduce the cloth size to fit paint frames. Black powder coat finish. Use one clip for every 2m of batten. Size: 170x25x78mm.



CE



Hanging Iron Used to secure lines to the bottom rail of flats. The rounded internal surface of the ring allows rope to be tied directly to the fitting, or wires can be secured with a 1.5t Crosby bow shackle

as shown [see page 2.22]. This fitting must be bolted to the flat. The holes are designed to align with 75x25mm nominal timber. It has a lip to hook under the rail and the eyes can face in or out. The finish is black powder coated. Size: 140x50x35mm.

Fixings needed: 2 off 5mm csk machine screws and tee nuts.

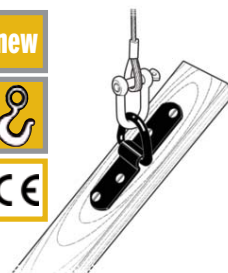
SAFETY	Safe working load
	100kg

Hanging Iron	code	each	Tradeline per 50
384g Eye out [standard]	FHS013	£4.80	£4.00 each
Eye in	FHS013R	£4.80	£4.00 each

new



CE

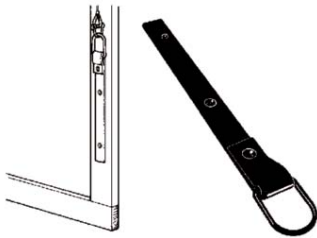


certification supplied when purchased together

D Ring and Keeper For flying scenery when the direction of pull can be variable. Can also be used as heavy duty grummets. Size 120x28mm. Fixings: 5mm csk machine screws

SAFETY	Safe Working Load
	100kg

D Ring and Keeper	code	each
D Ring & Keeper	FHS092DRKK	£3.95
Keeper	FHS092K	£2.25
D Ring	FHS092DR	£1.70



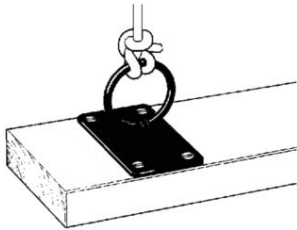
Flying Iron For flying heavy scenery when a hanging iron can not be deployed. The ring is welded inside the fold for extra strength. This fitting must be bolted through the flat. To achieve SWL the timber should be 25mm thick and at least 300mm long.

SAFETY	Safe working load	
	FHS012	200kg
	FHS012L	200kg

Black powder coated. Size: 370x30x22mm. Fixings needed: 3 off 6mm csk machine screws and tee nuts. The SWL of these fittings can be increased by drilling out the top hole and using an M10 coach bolt or machine screw. Please phone our rigging manager for details.

Flying Iron	code	each	Tradeline per 20
unlipped	FHS012	£9.22	£8.30 each
lipped	FHS012L	£9.61	£8.65 each

518g

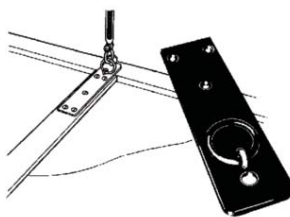


Ring Plate A popular multipurpose fitting suitable for flying lightweight items. Can also be used as a grummet when flying with hems attached directly to hanging irons [see page 2.02]. Ring plates are often fixed to the

top rail of large masking flats to enable a temporary rope from the fly-floor to be attached to the top of the flat to assist walking the flats up. Designed to fit nominal 3" timber as shown. Black powder coated. Size: 68x45x60mm depth from flat [with ring at right angles]. Fixings needed: 4 off M5 csk. machine screws and tee nuts.

SAFETY	Safe working load	
	FHS017	50kg

Ring Plates	code	each	Tradeline per 100
102g	FHS017	£2.25	£1.95 each



Ceiling Plate Used to join the rails to the stiles on roll up ceiling flats. The fitting should be machine screwed to the rail so that the 11mm drilled hole falls on the centre line of the stile [as shown]. A boss

plate should be routered in flush under the hole so the flat can be quickly assembled using M10 thumbscrews. By using this method the cloth can be rolled around the stiles with no obstructions to cause damage. Seamless flats can be constructed far larger than even Paul Matthews biggest trailer. Available with or without rings. Black powder coated. Size: 230x60x60mm [with ring at right angles]. Fixings needed: 5 off 5mm csk machine screws and tee nuts.

SAFETY	Safe working load	
	FHS009R	50kg

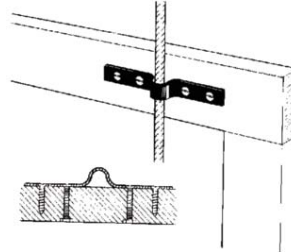
Ceiling Plates	code	each	Tradeline per 30
with ring	FHS009R	£4.20	£3.55 each
without ring	FHS009	£3.60	£2.75 each

Due to the continuing development of our range of scenery fittings please check on our website or phone for the latest technical information.

GRUMMETS

Grummetts

Grummetts are only under significant load while flats are being initially raised into position. The open grummett is not designed to be used on the top rail of flats but purely as a wire guide on the intermediate shoe rails, therefore it should never be subjected to high loads. Grummetts should not be used for lifting.



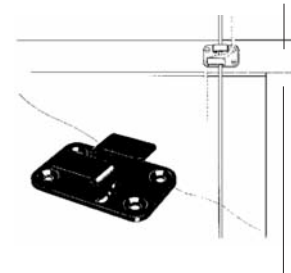
Grummett A conventional grummett for securing flying wires to the top of flats. This cheap strong fitting should always be fixed with two machine screws and two wood screws. The grummett can be subjected to significant loads during the initial

raising of the flats. Once raised, virtually all the strain will be transferred to the bottom rail. The finish is black powder coated. Size: 95x16x15mm. Fixings needed: 2 off No.8 [4mm] csk wood screws. 2 off 5mm csk machine screws and tee nuts. As usual during our testing we find the wood breaks well before the grummett is affected.

SAFETY	Safe working load	
	FHS010	50kg

The breaking load below is that of 3x1 nominal timber.

Grummett	code	each	Tradeline per 100
36g	FHS010	£1.20	£1.05 each

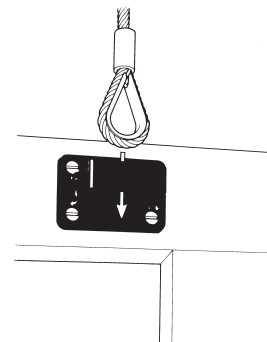


Open Grummett This fitting was designed by us to overcome the problem of flying wires becoming trapped behind grummetts on touring sets. The wire is simply twisted at right angles and pulled free. The fitting uses our standard plate size

[68x45mm] and should be used in the intermediate positions on flown pieces with the stronger Two Part or Opera House Grummetts being used at the head of the flat. The finish is black powder coated.

Fixings needed: 4 off 5mm csk machine screws and tee nuts.

Open Grummett	code	each	Tradeline per 100
106g	FHS011	£2.25	£1.60 each

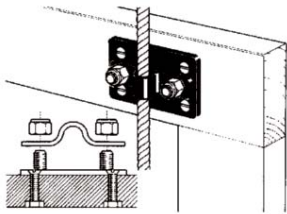


Opera House Grummett Flints make these fittings for the Royal Opera House. They allow the ferrules on made up wire ropes to pass through the 17x45mm slot. They are quicker to use than the Two Part Grummett and considerably stronger than open grummetts. Black powder coat finish. Fixings: 4 off 5mm csk machine screws and tee nuts.

SAFETY	Safe working load	
	FHS010MP	100kg

Opera House Grummett	code	each	Tradeline per 100
100g	FHS010MP	£2.25	£1.70 each

See also the D Ring and Keeper on page 2.02



Two Part Grummet

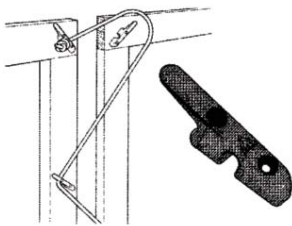
Designed by Flints with safety in mind. As with all our lifting scenery fittings they are design checked and batch tested. The loose part is secured with two M8 Nylocks to our standard backplate. Black powder

coated. Design right applies. Size: 68x45x20mm. Fixings: 4 off 5mm csk machine screws and tee nuts.

SAFETY Safe working load
100kg

Two Part Grummet	code	each
	FHS041	£2.95 each

THROW LINE AND CLEATING GEAR



Clummet® This popular cast alloy fitting was designed by Flints to replace the old throw line cleat. Its smooth shape makes throwing lines easier and the bridge allows the sash to be tied off without requiring a separate grummet. By using a Clummet® on both flats the

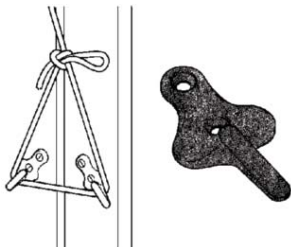
line can be quickly swapped for left handed throwers. They should be fixed at an angle near the top of the flat. On tall flats, extra Clummetts® should be positioned at equal intervals along the stile to draw the middles together. Traditionally No.6 jute sash has been used for throwlines but 8mm matt black polyester is now a more popular choice. These cords can be found on pages 2.33 and 2.35. Size: 85x12x22mm. Fixings needed: 2 off No.8 csk wood screws.



Clummetts® can also be used to tidy up ropes and extension leads by using the following method. Trap a loop of cord under the bridge, draw it through the coil of rope to be hung up and then hook the loop over the cleat. We now also stock ready made 450mm EWL loops in 8mm braided cord.

Clummet	code	each	Tradeline per 100
68g Clummet	FHS006	£1.80	£1.59 each
Loop	FHS006LOOP	£2.00	

Halls No6 Cleats are no longer made.

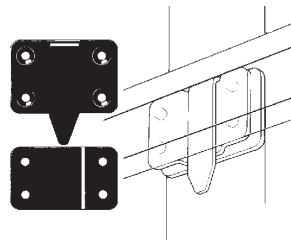


Tie Off Cleat Used for securing the sash when line and cleating flats. The cleat grips the sash against the timber. They should be fixed 700mm from the ground so they are comfortable to tie off and so the sash does not become a trip hazard by trailing on the ground when the flats are run.

Made from cast iron and painted black. Size: 75x30x9mm from flat. Fixings: 2 off No.10 [5mm] csk wood screws.

Tie Off Cleat	code	each	Tradeline per 100
	FHS007	£1.95	£1.55 each

PELMET CLIPS AND SOCKETS

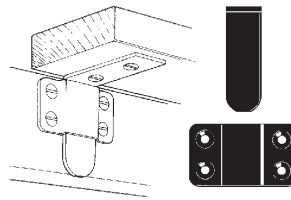


Pelmet Clip and Socket

A useful pair of fittings for stiffening battens, hanging heavy picture frames, securing panels as well as fitting pelmets. The backing plate is our standard size so, if required, it can be routed in flush using a boss plate jig. The

finish is black powder coated. Clip Size: 68x65x13mm. Socket: 68x40x10mm. Fixings needed: 4 off No. 8 [4mm] csk wood screws for each part.

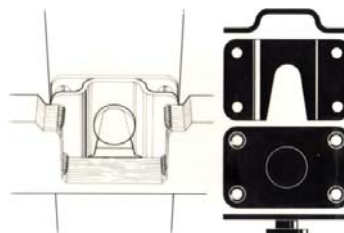
Pelmet Clip and Socket	code	each	Tradeline per 50
Clip	FHS003	£1.90	£1.65 each
Socket	FHS004	£1.60	£1.40 each



Pelmet Iron An alternative to the pelmet clip and better suited for fitting shelves to flats. The fit is loose enough to allow the shelf to be quickly removed without jamming. Also widely used for fitting on-edge stiffening battens. Black powder coated. Size: 80x25x52mm.

Fixings: 2 off No.8 [4mm] csk wood screws.

Pelmet Iron and Socket	code	each	Tradeline per 50
Pelmet Iron	FHS005	£1.60	£1.40 each
Pelmet Socket	FHS004	£1.60	£1.40 each



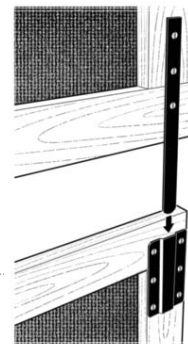
Button Pelmet Clip and Socket

Made by Flints under licence to Triple E who designed this clever plate several years ago. The button clip allows easy location into the socket at any angle and is not prone to damage during

transport. This fitting is a good choice for quick scene change items because of its ease of location. Button size: 68x45x11mm. Clip size: 68x45x13mm. Fixings needed: 4 off No8 [4mm] csk wood screws for each part.

Button Pelmet	code	each	Tradeline per 50
Clip	FHS046	£2.20	£1.90 each
Socket	FHS047	£2.00	£1.80 each

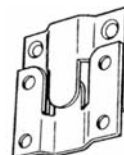
new



Extension Irons and Long Sockets

These extension irons are particularly useful for extending or reducing the height of masking flats to fit touring venues or to fit under fly floors or into short trucks. The socket is gently dovetailed to ensure easy location yet a snug fit.

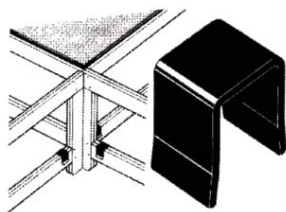
Extension Irons/Long Sockets	code	each
Extension Iron	FHS048	£2.95
Long Socket	FHS049	£3.50



Flush Mounts These small zinc plated flush mounts are ideal for light panels. They are sold as a set [ie: two pieces]. N.B. Use screws no bigger than No4 [3mm] or the heads will not clear. Projection is 3.5mm. See also p2.87 for Dual Lock.

Mini Flush Mounts	size	code	price per set	per 100 sets
	48x38mm	TOLMFM	£1.06	£90.00

ROSTRA DOGS AND BOLT PLATES



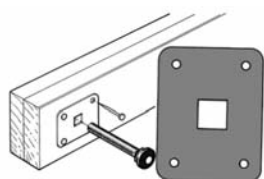
Rostra Dogs These clips can be used to speed up set changes by avoiding the need to bolt up folding gate rostra. They clip neatly around 3x1" [75x25mm] or 3x1z/v" [75x32mm] PAR timber. They can also be used to secure

rostra with fixed tops when the lack of access to the underside prevents bolts from being used. The finish is black powder coated.

Sizes: 30x45mm with a 41mm gap for 1" [25mm] nominal timber.

30x45mm with a 57mm gap for 1z/v" [32mm] nominal timber.

Rostra Dogs	code	each	Tradeline per 100
41mm	FHS030	£1.70	£1.30 each
57mm	FHS031	£1.70	£1.30 each



Bolt Plate A slim steel plate which can be nailed into place to stop the square heads of M10 coach bolts wearing into the timber [see page 2.77]. Now with rounded corners. Supplied self colour. Size: 50x38x22mm gauge. Fixings: 4 off

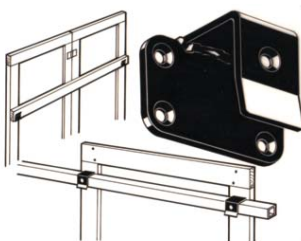
2mm wire or annular nails.

Bolt Plate	code	each	per 100	Tradeline per 1000
	FHS033	£0.18	£10.00	£80.00

See also Spikey Washer page 2.76

FLATTAGE CLIPS AND FLUSHING PLATES

Ask for a FREE scenery fittings poster!



Flattage Clips

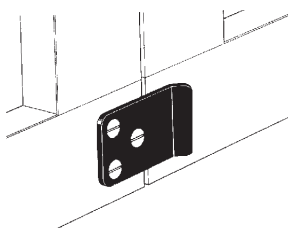
Simple but endlessly useful.

Our standard backplate is employed with three sizes of protruding hooks. They are ideal for securing timber flats to steel trucks and can be used with the hook up to provide a location for stiffening battens. A countersunk hole in the hook allows the battens to

be fixed in place on flown pieces. Black powder coated finish.

Fixings: 4x5mm csk machine screws. Base plate size 68x48mm.

Flattage Clip	Gap Size	code	each	Tradeline per 50
126g	27mm	FHS027	£2.50	£2.00 each
	30mm	FHS028	£2.50	£2.00 each
	42mm	FHS029	£2.50	£2.00 each

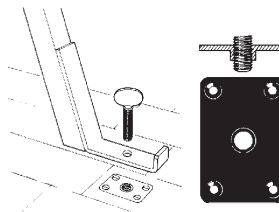


Jointing Plates A plain, drilled plate designed to be used as a flushing plate for line and cleat flats but often used as a door stop. The end of the plate is available either slightly folded, to help location, or flat. Black powder coated. Size: 68x45x6mm.

Fixings: 3 off No.8 [4mm] csk woodscrews.

Jointing Plate	code	each	Tradeline per 100
Folded	FHS008	£1.35	£1.10 each
Flat	FHS008F	£1.35	£1.10 each

BOSS, STUD AND PEG PLATES

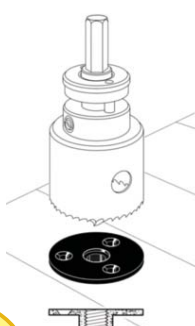


Boss Plate This fitting has hundreds of uses but is primarily designed as a flush stage fixing for stage braces. It uses our standard plate and has a threaded

insert to take M10 bolts or thumbscrews. We also make a reverse countersunk boss plate [FHS014FM] which is designed to fix to the underside of rostra tops so the strain pulls against the top. Black powder coated. Size: 68x45x10mm. Fixings: 4 off No.8 [4mm] csk screws.

Boss Plate	code	each	Tradeline per 100
	FHS014	£1.95	£1.70 each
reverse countersunk	FHS014FM	£2.00	£1.75 each
	FHS099	£1.05	

Also available as self colour blank plates drilled and countersunk in each corner

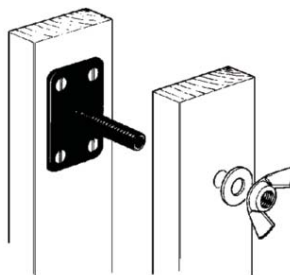


Round Boss Plate This product was suggested to us by Alan Cohen and we agreed that it would be very useful to speed up setting boss plates on stage. A 51mm hole saw will neatly cut through the usual hardboard stage cladding. The hardboard can be discarded and the plate set in the hole. The finish is black powder coated.

Size: 50mm diameter x 3mm thick [10mm with bush].

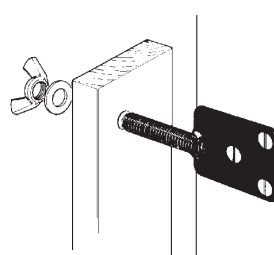
Fixings needed: Three No.8 [4mm] csk wood screws.

Round Boss Plate	code	each	Tradeline per 100
52g Round Boss Plate	FHS014AC	£1.95	£1.75 each
51mm Hole Saw	TOL1941	£11.37	
Hole Saw Arbor	TOL1968	£16.18	



Stud Plate Simply a M10 threaded stud fixed to our standard plate. The stud plate solves a multitude of problems especially when access to the rear of flats is awkward. Essential on any fit up. The finish is black powder coated. Size: 68x45x50mm depth from flat. Fixings: 4 off No.8 [4mm] csk wood screws.

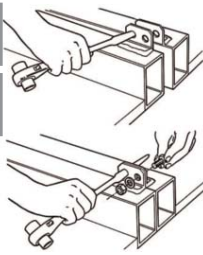
Stud Plate	code	each	Tradeline per 100
84g	FHS015	£1.95	£1.70 each



Peg Plate Similar to the stud plate but with the stud welded to the side of the fitting. If the boss plate and the stud plate will not solve your fixing problem then this one probably will. The finish is black powder coated. Stud length 50mm. Size: 115x45x10mm depth from flat. Fixings: 3 off No.8 [4mm] csk wood screws.

Peg Plate	code	each	Tradeline per 100
98g	FHS016	£1.95	£1.70 each

FITTINGS FOR STEELWORK



Unique to Flints!

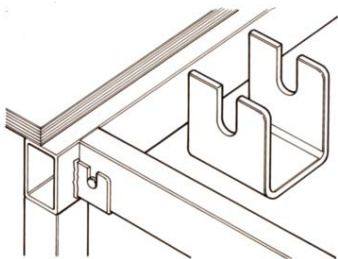
Podgalug® Designed and patented for use with the ratchet podger. Podgalugs are drilled with two holes, one for the podger to align the lug and the other for the bolt. Using these twin hole lugs will not only dramatically

speed up fit up time but will free up your engineers from lug making when they could be more usefully deployed on other tasks. Supplied self colour ready to weld. The holes are 12mm diameter designed for use with 10mm bolts. They are positioned 22mm out from the inner flange to provide good clearance for ratchet podgers. They conform to the the Royal Opera House Podger Clearance specifications. 'Podgalug' is a registered Trade Mark of FHS. Podgalugs are fully covered by Patent No. GB2331343 and are only available from Flint Hire and Supply Ltd.

Podgalug size	length	code	each	per 10	Tradeline	
					per 100	per 1000
40x40x5	60mm	FHS043	£0.79	£6.80	£60.00	£530.00
40x25x4	60mm	FHS044	£0.76	£6.50	£57.00	£490.00

For our comprehensive range of ratchet podgers why not visit Podgertropolis on page 3.30.

Drop In Clips Folded and stamped from one piece of steel, the drop in clip is supplied unpainted ready for welding in place. The slot is designed to accept 50x25 steel tube with a 10mm diameter rod being fitted 20mm in from the end. It will be found that the rod can easily be

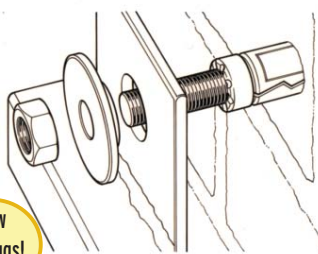


welded on the inside of the tube. The drop in bar floor is a strong construction which can be set and struck at great speed. Now with rounded off corners on the receiving end.

Size: 40x35x42mm. Fixings: weld in place.

Drop In Clips	code	each	Tradeline per 100
	FHS032	£1.00	£0.80 each

Top Hats A simple device to make fixing steelwork to walls much easier. To use, weld one of our Top Hat lugs which are pre drilled with a 25mm diameter hole to your steel frame. The large diameter hole allows you to drill straight into the wall with a masonry bit and insert



Now with lugs!

the expanding fixing without having to move the heavy steelwork away. Place a top hat over the protruding stud and it will locate in the large hole. Tighten the nut onto the top hat and your steelwork is held in place.

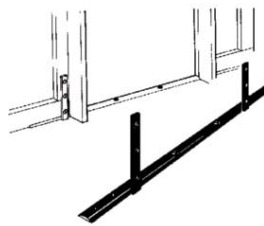
Overall diameter: 38mm. Hole diameter: 13mm.

Flange diameter: 24mm. Overall thickness: 7mm.

Lug size: 50x50x6mm with a centred 25mm Ø hole.

Top Hats and lugs	code	each	Tradeline per 100
Top Hat	FHS039	£1.95	£1.65 each
Top Hat Lug predrilled with 25mm hole	FHS039L	£1.25	£1.00 each

SILL AND REVEAL IRONS



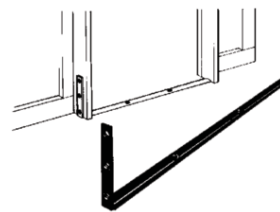
Sill Iron Used to provide strength to door flats. They are made to suit your requirements, from steel flat bar with a rounded top section. They should be ordered by stating the distance between the lugs. On a 3x1" timber flat with a reveal around the door this is generally the door

opening plus 45mm. The sill iron is drilled and countersunk in two places to screw downwards into the floor for standing sets and is also drilled to screw upwards into the bottom rail to give the flat stiffness. The iron will protrude beyond the lugs by 120mm unless stated otherwise. Supplied painted black.

Size: Stated width between lugs plus 290x200mm height.

Fixings: No.10 [5mm] csk screws or M5 csk machine screws.

Sill Iron	code	each
up to 1m	FHS034	£60.00
per extra 300mm		£20.00

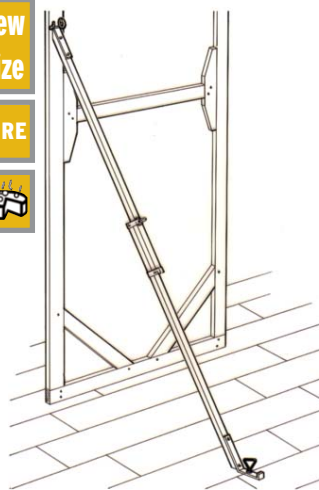


Reveal Iron Like the sill iron the reveal iron is used to provide strength to a doorway but this time the lugs are at right angles to the sill and are bolted through the door reveal. They are made to order and the measurement we require is the distance across the

outside of the reveal. On wide reveals of heavy flats we recommend the use of two per doorway. Supplied painted black. Size: Stated width between lugs plus 8x200mm height. Fixings: No.10 [5mm] csk screws or M5 csk machine screws.

Reveal Iron	code	each
up to 1m	FHS035	£60.00
per extra 300mm		£20.00

STAGE AND WALL BRACES



Stage Brace These extendable braces are used to support lightweight scenery. They are secured to the flats with a screw eye which locates with the hooks on the brace. The foot is designed to marry with our stage weight but it is also drilled for stage screws. Made from tulipwood with bright zinc plated fittings. We have recently added a useful small brace for ground rows. Special sizes can be made to order. Fixings 55mm screw eyes [see opposite page].

For hire information see page 3.76.

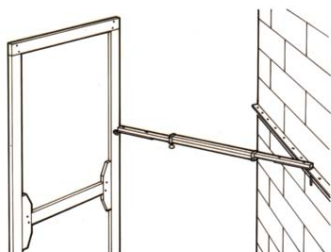
Open length	closed length	code	each	Tradeline per 10
1m	760mm	FHS018GR	£26.40	£24.20 each
2m	1.2m	FHS018	£32.45	£29.70 each
3m	1.7m	FHS019	£36.85	£31.90 each
4m	2.2m	FHS020	£38.50	£34.10 each
Spare Cowhorns		FHS702	£6.60	£5.70 each

new



Steel Scenery Braces A range of fixed and extendable steel stage braces. Crackle black finish with bright zinc plated inner section.

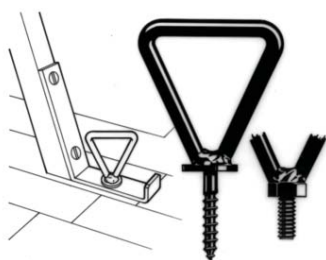
Fixed Brace		code	each	Tradeline per 10
Fixed Braced 2m		DOUT60600	£28.18	£25.36 each
Open length	approx closed length			
2m	1m	DOUT60000	£46.48	£41.83 each
3m	1.5m	DOUT60100	£53.12	£47.81 each
4m	2m	DOUT60200	£59.76	£53.78 each



Wall Brace Similar to a stage brace but with an end fitting which will locate with drilled angle iron mounted on studio walls. This enables the studio floor space to be kept clear whilst holding the flats solidly in place.

Wall Brace		code	each	Tradeline per 10
open length	closed length			
2m	1.2m	FHS021W	£31.90	£28.60 each
3m	1.7m	FHS022W	£36.30	£33.00 each

BRACE ACCESSORIES



Stage Screw and Stage Bolt The stage screw will drive easily into timber floors to secure stage braces in place without the need for weights. The stage bolt serves the same purpose but is used in conjunction with a boss plate.

Stage Screw and Bolt		code	each	Tradeline per 20
100g	Stage Screw	FHS024	£2.92	£2.63 each
	Stage Bolt	FHS025	£2.29	£1.95 each



Screw Eyes The most popular way of attaching stage braces to flats. The 55mmx12g size is the best size for this purpose. A full range of screw eyes is listed on page 2.74.

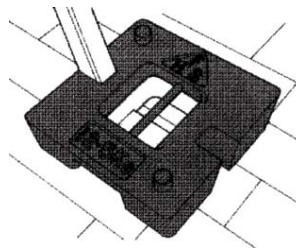
Screw Eyes		code	each	per 100
55mm x 12g		FIX3161	£0.17	£13.00



Please Note: Brace Eyes are no longer made

STAGE WEIGHTS

HIRE



Stage Weight Flints 12.5kg stage weights are made of cast iron with a malleable iron carrying handle. They stack easily on their location lugs and have slots which let them sit safely on stage braces and French braces. The central area

is hollowed right through so they cannot be used as ashtrays or nail stores! The top edge has deliberately not been rounded over so it remains useful for cutting sash or wire with a hammer. Weights can vary plus or minus 5%. Flints hold massive stocks of stage weights both for hire and sale. We can customise stage weights with your logo for orders of fifty plus. Size: 211x211x60mm. Design right applies.

Stage Weight	code	each	per 10	Tradeline per pallet of 76
Standard Weight	FHS023	£22.00	£20.00	£18.70 each
Custom Logo Wts	FHS023L	Price on application		

Prices above are for each weight. Stage weights do not qualify for free delivery. Longweights are available at our trade counter [especially on Saturday mornings].



TV Pattern Weight Similar to our standard stage weight but with the addition of a 29mm receiver with locking off wing bolt. Your own logo can be added to these weights for orders of fifty plus. Supplied self colour. Stage weights do not qualify for free delivery.

TV Pattern Weight	code	each	Tradeline per 50
	FHS023TV	£30.00	£26.00 each
Custom Logo Wts	FHS023TVL	Price on application	

HIRE



Counterweight Our 10kg* counterweight has two large holes with rounded entries to allow ropes or karabiners to pass through for hauling to the flyfloor. Size: 325x153x42mm [lug width 60mm]. Supplied self colour. Counterweights and occasionally lead weights are also available to hire. See page 3.76. Delivery charged at cost.

*Weights can vary plus or minus 5%. Prices are for each weight.

Counter Weight	code	each	per 10	Tradeline per 50
10 kg [+/-5%]	FHS109	£29.50	£26.50	£25.50 each

TANK TRAPS

HIRE



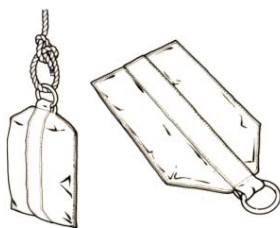
Tank Traps Really useful for making temporary structures to hold up masking, lighting booms etc. but useless at stopping tanks. 600mm square heavy base plate with a 50mm [2"] receiver fitted with wing bolts to firmly

secure aluminium or galvanised scaffold tubes in place. The clever cut out in the base allows compact stacking for transport and storage. Wt 16.14kg. The Tradeline price includes **FREE** delivery - and they are heavy.

Tank Traps	code	each	Tradeline per 10
	DOUT54250	£88.55	£79.70 each

SANDBAGS

HIRER



Sand Bags Made from heavy canvas with strong webbing which secures the 70mm diameter galvanised ring. They are sold empty or filled. Sand bags are the preferred weight for the retrieval of otherwise unloaded hemp lines from the grid but obviously they

have many other uses. Size: 300x200x70mm thickness when filled. Approximate weight: when filled 3.5 kg [+/-5%]

Sand Bags	code	each	Tradeline per 10
unfilled	FHS026	£8.32	£7.10 each
filled	FHS026FK	£9.90	£8.90 each

new



Heavy Black Water Resistant Weight Bags These black bags have a watertight screw top 3.5L container inside them and a drawstring top. They can be filled with water, sand [or marble dust] or lead giving a variety of weights up to a maximum of 25kg. When used with water they can be toured empty and filled at each venue with a measured amount of water to give your desired weight.

Heavy Black Bags	code	price
Weight Bag Only [unfilled]	LSB35SHOTBAG	£54.49

See below for lead shot. For Marble dust see page 1.15.

Lead Shot For filling heavy weight bags.

Lead shot	code	price
Lead Shot Only [per kg]	FHS026L	£6.80
Lead Shot Only [per 12.5kg bag]	FHS026L	£72.00



Pipe Sling Weight Bags These sand bags are manufactured from heavy duty water repellent black Cordura. They are double seamed with zipped openings for easy filling. Supplied empty.

Pipe Sling Bags	code	price
Capacity 16kgs	DOUG3301	£33.42

new



Sausage Weight Bags Can be used to weigh down the base of cloths and prevent light leaks. The bags with delta rings can be used to help ropes fly in or for quiet sash window counterweights.

Sausage Weight Bags	code	price
Plain 500mm white 5kg	FHSROH5	£40.00
Plain 1m white 10kg	FHSROH1	£66.00
Delta rings each end 500m Black 3.5kg	FHSSWB5	£25.35
Delta rings each end 1m Black 7kg	FHSSWB1	£43.20



Small Tubular Weight Bags These neat small lead shot bags have a variety of uses and are often preferable to using solid weights which may be noisy or cause injury. Fitted with a ring at the top. Size: 150mm long x 50mm wide. Approximate weight 750g. [+/-5%]

Small Tubular Bags	code	price
	FHS026T	£12.61

CLEATS, CLUTCHES & ROPE LOCKS

CLEATS

Cleats

Cleats should be fitted at a slight angle to the direction of the pull of the rope. The rope should make one full turn around the main body of the cleat before crossing over the arms three or four times. The final locking hitch should only be done when there is no load on the rope or it will become jammed.



Flyrail Cleats [Cast Iron and Alloy] Specialist fittings intended for tying off manila and polyester ropes. These fittings should be securely bolted to a flyrail or wall, and are intended to take heavy loads associated with hand hauled flying. To keep the flyfloor clear of lines try to choose the largest cleat possible so the excess line can be neatly stored on the cleat. Fixings: M10 bolts or coach screws.

Flyrail Cleat	code	material	price
406g 9" 225mm	WIR454	Cast Iron	£10.60
12" 300mm	WIR455	Cast Iron	£13.00
12" 300mm	WIR455A	Aluminium	£15.63
15" 375mm	WIR456A	Aluminium	£20.83
15" 385mm	WIR456	Cast Iron	£16.00
18" 450mm	WIR457	Cast Iron	£18.00
18" 450mm	WIR457A	Aluminium	£36.47



Nylon Black Cleats A range of very strong marine nylon cleats offering excellent value. The bitter end can be tied between the cleat's legs.



Nylon Black Cleats	code	each
length fastening Ø		
75mm 3mm	BAR250	£0.97
100mm 3mm	BAR251	£1.34
135mm 3mm	BAR252	£2.23
170mm 5mm	BAR253	£3.74
210mm 6mm	BAR254	£5.28
245mm 8mm	BAR255	£9.08



Cleat Hooks [Galvanised] A commercial quality fitting with two arms, around which sash cord or similar can be tied off temporarily. These cleats will fracture if the fixings are overtightened or if the arm is hit. We recommend them only for light items such as blinds. For heavier items needing small cleats choose the nylon cleats listed above.

Cleat Hooks	code	price
118g 3"	WIR450	£0.81
4"	WIR451	£0.92
5"	WIR452	£1.38
6"	WIR453	£1.84



Small Brass Cleat Economically priced smart cleat measuring 75mm overall. Useful for nylon blind cords, flag halyards etc. Includes two brass 19mm screws.

Small Brass Cleats	code	price
	WIR449	£1.09



Nylon Tubular Cleats Handy small tubular cleat to guide and lock small cords. The cord is quickly and effectively locked by pulling it into the vee shaped jaw. Suitable for light applications only.

Nylon Tubular Cleats			code	each
length	bore	fastening		
55mm	8mm	4mm	BAR401NY	£1.57
80mm	13mm	6mm	BAR402NY	£2.23



Cam Cleats These cam cleats take ropes from 6 to 12mm Ø. The tooth design causes minimum rope wear. They are fitted with a removable stainless wire fairlead.

Cam Cleats			code	each
fixings Ø	holding power			
46g	5mm	230kg	BAR721	£17.89



Lacing Cleats A cast fitting with a raised post and lip for lacing small cords up to 8mm diameter. Sometimes used on line and cleat flats.

Lacing Cleats	code	each
	HAL039	£1.30

ROPE CLUTCHES



Spinlock Powerclutch XTS Spinlock are the experts in rope handling. Their position in the market is such that many countries refer all rope clutches as "Spinlocks". The XTS rope clutch can handle ropes up to

14mm in diameter. The ropes can be pulled through in one direction while the clutch remains engaged. To release, just lift the lever and the rope will run freely in both directions. For use with braided ropes [not three strand or wire ropes] from 8-14mm. We always recommend ropes are finally secured onto a cleat to avoid accidental release. Fixing Ø M8. Wt 510g/980g. Note that Spinlocks are designed for marine applications. Clients should satisfy themselves that their application is safe. The instructions should be thoroughly read before installation.

SAFETY

Depends on rope diameter-read enclosed instructions
Maximum holding power with 14mm Ø **1000kg**

Spinlock Rope Clutch	code	each
Single	ROPXTS08141	£70.02
Double	ROPXTS08142	£125.06
Treble	ROPXTS08143	£180.09



Barton Rope Clutches The smooth cam mechanism allows easy release under heavy loads. The braided rope can be drawn through the clutch in the locked position and is restricted from returning by the cam. Max rope size

10mm. We recommend that the rope is finally belayed around a cleat to avoid accidental triggering. Fixings 6mm Ø csk machine screws. These rope clutches have now been supplemented by the DO 550 range which take ropes up to 12mm Ø.

Rope Clutches	Holding Power	code	each
Single	350kg[max]	BAR500	£43.94
Double	350kg[max]	BAR501	£87.89
Treble	350kg[max]	BAR502	£131.65



Barton DO 550 Rope Clutches Designed to offer a holding power of up to 550kg and to control braided ropes up to 12mm diameter. It requires little effort to use the clutches thanks to the ergonomically designed handle and bolt together construction, which

also allows for ease of servicing. All three clutches utilise a 'true clutch' mechanism which enables lines to be easily and accurately adjusted with maximum grip and minimal slippage when in locked position. Each clutch also allows steady and accurate release under load, with the specially designed teeth to reduce wear on ropes. The clutches have been produced using high grade plastic components coupled with marine grade aluminium cams and bases, resulting in lightweight products that provide exceptional strength and are extremely durable even in the harsh marine environment. Competitively priced. Length 133mm. Height 68mm. Wts 343g, 544g, and 754g

DO 550 Rope Clutch	code	each
Single	BAR81500	£43.99
Double	BAR81501	£80.73
Treble	BAR81502	£113.48

ROPE LOCKS

Steel Jaws - Lever Up to Lock

Polyurethane Jaws Lever Down to Lock



Lever Rope Locks

These traditional flyrail rope locks are used to clamp the counterweight hauling line once the balanced flying bar has been finally positioned. Handles three strand ropes from 20 to 22mm Ø. The polyurethane jaws have been designed to reduce

damage to the hauling lines. The lever on this version has a clip to secure the handle in the free running position.

Lever Locks	code	each	Tradeline per 10
Steel Jaws [up to lock]	HAL267	£129.00	£116.10 each
Polyurethane Jaws [down to lock]	ROPPJ1	£129.00	£116.10 each



Midshipman Rope Lock

An updated version of the 25 year old design for holding yacht tillers on course. Takes 8mm braided rope and could be incorporated into tab track hauling lines and stage devices.

Midshipman Rope Lock	code	each
	PUL1927	£34.58



Rope Lock Designed to lock hauling lines together to prevent cradle movement. The finish is black powder coated. Suitable for ropes up to 18mm diameter. For larger sizes please ask. Length: 315mm. Width: 145mm.

Rope Lock	code	each	Tradeline per 10
1372g	FHS042	£39.82	£35.84 each

Ask about the new Doughty Lever Locks - Coming soon!