

LIGHTING

Flints do not supply theatre lanterns which we prefer to leave to the various excellent specialist companies. The items listed here are those accessory items often used by props and stage as well as lighting departments. Visit flints.co.uk to see the colours.

LIGHTING GELS

About Gels

Filters were originally made from gelatin [hence "gels"] but by the 1950s Strand had developed acetate filters. Nowadays, there are two raw materials used in making colour filters, polycarbonate and polyester. Polycarbonate is the material able to endure the highest heat and is liable to give the longest possible life.

There are two fundamental ways of manufacturing filters. The cheapest way is for the manufacturer to buy clear polyester film and to dye it on one or both surfaces. You can tell a film that is made this way because the colour can be removed by wiping the surface with a solvent or by scratching it. In most cases, it will be a perfectly serviceable filter but a problem will arise if you use it in colour scrollers. This is because during the manufacturing process the film is extruded thick and then stretched and rolled to produce the final thickness. This process puts a linear orientation into the film that causes it to shrink in width when heated. It will be prone to failure in colour scrollers.

The best filters are produced from pellets of the raw material that are deep dyed then extruded to the correct thickness and finally coated with a clear film on each side. Supergel is the only filter made this way.

Lee Filters reference numbers were developed by Fred Bentham of Strand. The numbering system was widely adopted in Europe. Rosco E-Colours were developed using surface-coated polyester to match these European numbers.



Supergel Rosco Supergel is uniquely made from deep dyed pellets of polycarbonate extruded to the exact thickness and coated on either side with a microscopic clear film. It will not distort under heat and is ideal for colour Scrollers. Polycarbonate filter will last longer than polyester [Lee and E-Colour] and has better fire resistance. It will comply with virtually all fire regulations [DIN4102, B1, M1 etc.]. There are over 130 colours and 30 diffusion materials. Sadly Rosco no longer provide swatchbooks Free of Charge. When ordering use the codes below replacing the **XXX** with the gel number.

Supergel	code	price
Roll [7.62 m x 610 mm]	ROS103RXXX	£111.90
Sheet [500 mm x 610 mm]	ROS103SXXX	£8.20
Swatch book	ROSBB07	£9.95



E-colour+ A surface-coated polyester film. The colours match the original Strand numbers with the addition of around 30 extra shades. 40 of the E-colours are coated on both sides due to the dye type but otherwise they are coated on one side. Sadly Rosco no longer provide swatchbooks Free of Charge. When ordering use the codes below replacing the **XXX** with the gel number from the swatch book.

E-Colour Correction Filter	code	price
Roll [7.62 m x 1.22 m]	ROS062RXXX	from £65.00
Full sheet [530 mm x 1.22 m]	ROS062FSXXX	from £4.65
Half sheet [530 x 610 mm]	ROS062HSXXX	from £2.45
Swatch book	ROSBB05	£9.95

Flints can also supply Cinegel colour correction filter and CalColor.

FOLLOW SPOT SIGHTS



As used on Mamma Mia!



choose a red or green dot

Spot Dot 3.0

The "Both Eyes Open" follow spot sight! An electronic dot follow spot sight - this upgrade now gives the user a choice between a red or green dot. The aiming dot is created by a mini-LED located at the rear of the sight and reflected to your eye. The 30 mm viewing lens makes finding the spot simple. Mount the Spot Dot on your follow spot [with the magnets provided], turn it on with your choice of colour and brightness [11 settings] and you will be able to view the stage and the dot with BOTH EYES OPEN. The Spot Dot does not require a specific distance between your eye and the sight. Choose the distance that's most comfortable for you. Uses a CR2032 battery to give 40 + hours continuous use - included.

Spot Dot 3.0	code	price
	SPOT20003	£199.00
Spare Coin Cell battery CR2032	DURCR2032	£1.95

LIGHTBULB PAINT - HATOLITE

Hatolite

Lightbulb Paint - Hatolite Suitable for tinting bulbs up to 60 W. For details of Lightbulb Paint and FEV see pages 30-31.



Unfortunately **The Strobist Collection** is now a dead duck.

LANTERN MASKING



Matt Black Cinefoil A specially coated matt black foil that soaks up light and is perfect for masking light leaks and eliminating reflections.

Matt Black Cinefoil	code	price
304 mm x 15.5 m	ROS360113	£49.50
610 mm x 7.62 m	ROS360112	£49.50
1.22 m x 7.62 m	ROS360114	£93.50



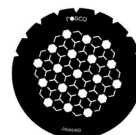
Black Foil Tapes Blacktak is a heat resisting matt black foil tape which can be used to mask off lamps and light leaks without leaving residue. Do not confuse with "Black Tack" the gungy, blobby tape [page 277]. We also stock unbranded matt black aluminium foil tape. For plain aluminium tape see page 276.

Black Foil Tapes	code	price
50 mm x 25 m Blacktak	TAP071	£21.84
50 mm x 25 m Matt Foil Tape	TAP071MF	£19.95

GOBOS



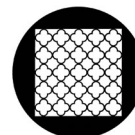
Gobos Flints can supply all Rosco and DHA Gobos. Please ask for a FREE gobo catalogue.



74007



74058



78210



78237

WORK LIGHTS



Griplight Heavy-duty inspection lamp with spring loaded plastic grip handle and hanging hook. Glass bulb protector and wire basket. 60 W. 5 m length cable.

Griplight	code	price
	ELE1176113	£13.98

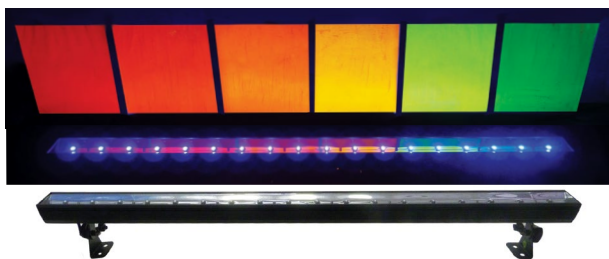


Rechargeable Inspection Light

Handy and robust 6+1 rechargeable LED light. Six super-bright 300 lm LED's in the front and one 100 lm LED on top. Up to three hours duration when fully charged. Rubberised grip surface with 200° rotation with magnets and rotatable hooks on the back for flexible use. USB cable for charging included. Ideal for any inspection work.

LED Inspection Lamp	code	price
	ELE1175670	£25.26

ULTRAVIOLET WORK LIGHTS



LED Ultraviolet Lights These units use LEDs to create a black light effect in any venue. Available in 1 m and 500 mm lengths. They are high power, burn cool, are less fragile than conventional tubes and have a long lifetime. This LED UV Light does not produce accurate results with the Invisible UV Paints [page 27] but works well with Flints Fluorescent Powders [page 27]. 2-year guarantee.

1 m Version: Light source: 18 x 3 W UV LEDs. Driver current: 680 mA. Power consumption: 60 W max. Input voltage: 100 - 240 VAC 47/63 Hz. Dims: 1,000 x 60 x 115 mm. Weight: 2.3 kg.

500 mm Version: Light source: 9 x 3 W UV LEDs. Driver current: 680 mA. Power consumption: 30 W max. Input voltage: 100 - 240 VAC 47/63 Hz. Dims: 500 x 60 x 115 mm. Weight: 1.34 kg.

LED UV Worklight	code	list	price
1 m	ELE80328	£202.94	£172.85
500 mm	ELE80327		£99.35



Non-LED Ultraviolet Floodlight Stocked mainly to assist scenic artists while they paint, this new UV Floodlight is compatible with the Invisible UV Paints [page 27] and Flints

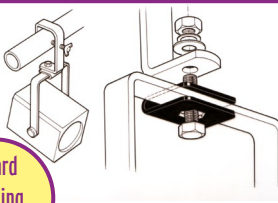
Fluorescent Powders [page 27] producing a good effect with accurate colours. 2-year guarantee.

SPECIFICATION: 240 V/ 400 W. Dimensions: 490 x 270 x 150 mm. Weight: 8.58 kg.

Non-LED UV Floodlight	code	list	Tradeline
Floodlight 400 c/w Bulb	ELE80319K	£209.58	£178.45
Spare E40 Bulb	ELE82485		£42.09

HOOK CLAMPS

HEADLOCKS



Award winning design!

Headlocks A winner of the ABTT Product of the Year Award. A simple easy-to-fit device which locks the head of the pan locking bolt so that luminaires can be tightened with just one spanner leaving your other

hand free. Headlocks are available in four sizes to fit most trunion arms. The advantages of fitting Headlocks are clear:

- ✓ Easier focusing
- ✓ Quicker focusing - 30 seconds per lantern
- ✓ Safer focusing with fewer tools being handled at height

What size Headlock?

Choose the 30 mm size for:

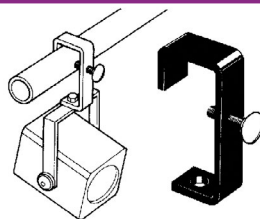
ETC Source 4, Strand SL, Thomas Par 64, Selecon Pacific

Choose the 40 mm size for:

ETC Source 4 PAR, CCT Silhouette. Strand Cantata and Harmony

Headlocks	size	code	price	Tradeline 50+
	M10 x 30	HLM1030	£3.10	£2.55
	M12 x 30	HLM1230	£3.10	£2.55
	M10 x 40	HLM1040	£3.10	£2.55
	M12 x 40	HLM1240	£3.10	£2.55

STANDARD HOOK CLAMPS



Standard Hook Clamps

Our standard satin black hook clamp is great value! For Wing Bolt Spanners see page 320. For the award-winning Headlocks see above. Also check out the Doughty Space Saver on page 353.

Hook Clamps	type	finish	for tube	SWL	code	price
	Standard	Satin Black	50 mm	40 kg	FHS040HC	£8.47
	Standard	BZP	50 mm	40 kg	DOU20100	£6.88
	Medium	BZP	50 mm	100 kg	DOU20102	£6.99
	Heavy-Duty	BZP	50 mm	150 kg	DOU20400	£13.87
	Heavy-Duty	Satin Black	50 mm	150 kg	DOU20401	£13.34
	Standard	BZP	30 mm	15 kg	DOU20200	£6.58
	Standard	BZP	20 mm	15 kg	DOU20301	£8.35



Truss Hook Clamp A capture clamp plate prevents damage to thin wall aluminium truss. Fits 50 mm tube.

Truss Hook Clamp	SWL	code	price
BZP	40 kg	DOU21800	£10.67
Black	40 kg	DOU21801	£13.20



Universal Hook Clamp Fits tubes from 20 - 0 mm diameter.

Universal Hook Clamp	SWL	code	price
Black	40 kg	DOU21101	£9.99

Tanks Traps are really useful for making temporary structures to hold up masking, lighting booms and bauproben, see page 232.



PREMIUM HOOK CLAMPS



Twenty Clamp The Twenty Clamp is an aluminium pressure die cast clamp designed to suspend luminaires up to 20 kg. This clamp can be secured to tubes with a diameter of 48 - 51 mm with just two turns of the Doughty Knob. Luminaires are secured via a captive M10 or M12 Bolt [M10 supplied]. Damage to tubes and trussing is eliminated by using an extruded trigger. This product is fully TUV Approved. Design Registered.

SPECIFICATION: Tube diameter: 48 - 51 mm. Width: 28 mm. Overall height: 100 mm. Weight: 280 g.

Doughty Twenty Hook Clamp	SWL	code	price
Black	20 kg	DOU58400	£15.91



"Hook" Clamp Very popular high tensile aluminium clamps widely used for attaching scenery as well as lanterns to bars and trussing. Suited to large and heavy luminaires. Width: 50 mm. Weight : 710 g.

Hook Clamp	SWL	code	price
Fitted with M12 x 50 mm bolt	750 kg	DOU57200	£33.82
Black version	750 kg	DOU57201	£39.26
Fitted with M12 x 50 mm bolt	500 kg	DOU58105	£28.68
Black version	500 kg	DOU58106	£33.15



Triple E Hook Clamp Designed primarily for the rapid attaching of Triple E tab tracks to truss or flying bars from 38 - 52 mm but equally suitable for attaching lanterns. Width: 30 mm. Weight: 578 g

Triple E Hook Clamp	SWL	code	price
Fitted with M12 x 50 mm bolt	100 kg	EEETRA14	£33.90

TRIGGER CLAMPS



Quick Trigger Clamp This clamp is the basis of all the Quick Trigger Clamps. A large Easygrip handle is fitted for ease of use. An extremely useful clamp for hanging valuable luminaires safely and easily.

SPECIFICATION: Tube Ø: 38 - 51 mm. Width: 50 mm. Fixings: M12 Hole. Weight: 760 g.



Slimline Quick Trigger Clamp This clamp is the basis of all the Slimline Quick Trigger Clamps. A large Easygrip handle is fitted for ease of use. An extremely useful clamp for hanging valuable luminaires safely and easily.

SPECIFICATION: Tube Ø: 38 - 51 mm. Width: 30 mm. Fixings: M12 Hole. Weight: 490 g.

Trigger Clamps	SWL	code	price
Quick Trigger [Black]	250 kg	DOUT58201	£38.80
Slimline Quick Trigger [Black]	100 kg	DOUT58301	£36.20

DOUBLE ENDED HOOK CLAMPS



Double Ended Hook Clamp Parallel Under-hangs a bar directly under the primary bar. BZP finish.

Double Ended Parallel	SWL	code	price
150 mm centre	40 kg	DOU20500	£12.96
300 mm centre	40 kg	DOU20700	£13.72
600 mm centre	40 kg	DOU20710	£15.43



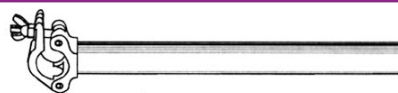
Double Ended Hook Clamp 90° Twist Hangs a bar at right angles to the primary bar.

Double Ended Twist	SWL	code	price
300 mm centre	40 kg	DOU21700	£15.08



Please ask for a full Doughty catalogue for more hook clamps!

BOOM ARMS

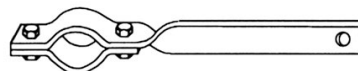


Boom Arm 48 mm Ø Tube A length of 48 mm Ø alloy tube welded to an aluminium coupler.

Boom Arm	max load	length	finish	code	price
	100 kg	250 mm	Self-colour	DOU57310	£58.71
	100 kg	250 mm	Satin Black	DOU57311	£62.50
	75 kg	500 mm	Self-colour	DOU57315	£65.51
	75 kg	500 mm	Satin Black	DOU57316	£70.47
	25 kg	1 m	Self-colour	DOU57320	£70.64
	25 kg	1 m	Satin Black	DOU57321	£75.50

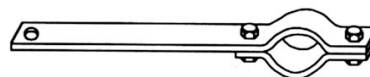
SAFETY

Note: Max load is when used on a vertical bar. On a horizontal bar the arms will rotate at around 8 kg.



Standard Boom Arm 90° Twist Designed to hold a light to a vertical rigging pipe. Features a 90° twist.

Standard Boom Arm with 90° Twist	code	price
Standard Boom Arm	DOU30500	£13.83



Straight Boom Arm Designed to hold a light to a horizontal rigging pipe.

Straight Boom Arm	code	price
Straight Boom Arm	DOU30600	£13.83
Straight Boom Arm [black]	DOU30601	£18.81

For Manfrotto Super Clamps see next page ↗ .

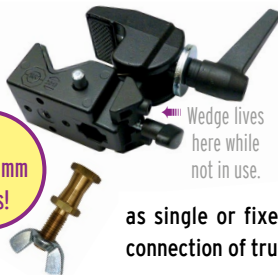
POLY BOARD HOLDER



Poly Board Holder The best-looking Poly Board Holder in smart black powder coat. Floor standing. Takes a 50 mm sheet but extend their usefulness by having one side a sheet of our 25 mm white FR polystyrene and the other side a sheet of our 25 mm black FR polystyrene [find the range on page 101] – white for a soft light, black to create harsh shadows for sculpting. With four non-marking plastic stand off feet. Steel. Dims L x W x H: 457 mm x 216 mm x 267 mm.

Poly Board Holder	weight	code	price
50 mm	1.75 kg	DOUG1147	£51.43

MANFROTTO CLAMPS



Manfrotto Super Clamps Very versatile and clever clamps that will grip from 55 mm Ø right down to 13 mm Ø! Supplied with a wedge to square off the jaws for fastening to flat surfaces. Available as single or fixed double. The stud will allow rapid connection of trunion arms etc.

Fits
13 - 55 mm
tubes!

Wedge lives here while not in use.

Manfrotto Super Clamps	WLL	weight	code	Tradeline
Single	15 kg	410 g	MAN035	£33.85
Fixed double	15 kg	830 g	MAN038	£66.38
Hex 16 mm lighting stud [M10]	15 kg		MAN174	£16.01

DOUGHTY SPACE SAVER



'upright' position

folded 'flat'

Doughty Space Saver Both Barry and Ben were extremely impressed with this little gadget. The Space Saver allows a permanent connection of a

clamp or spigot to the lamp or projector, without compromising on storage capability, as it allows the fixing to fold away. Really neat. top section has a channel to hold captive an M10 Hex nut or bolt. Bottom is machined to accept an M10 socket cap bolt and allows free orientation.

Doughty Space Saver	WLL	weight	code	price
High tensile Aluminium	100 kg	100 g	DOUT85850	£35.67

TRUSS SPIGOTS & CLIPS



Truss Spigot Pins & R Clips To the untrained eye these simply look like closed retaining pins, however they are the specified standard clips for the most popular Truss spigot pins. Used to secure the spigot pin into position which is in turn used to secure the coupler and truss together.

Truss R Clips & Spigots	code	price
R Clip for 67 mm Spigot pin	TSCCS6605	£0.88
R Clip for 92 mm Spigot pin	TSCCS7705	£4.21
67 mm Spigot pin	TSCCS6603	£2.61
92 mm Spigot pin	TSCCS7703	£9.08
67 mm Spigot pin with R Clip	TSCCS66K	£0.85
92 mm Spigot pin with R Clip	TSCCS77K	£3.52

SPIGOTS



Spigots We have a huge array of spigot options- many of which are listed here, but for images and technical details you'll need to visit our website: www.flints.co.uk.

Spigots	weight	code	price
M10 TV Spigot [Steel] [Euro Spec]	0.76 kg	DOUT73000	£26.74
M12 TV Spigot [Steel] [Euro Spec]	0.78 kg	DOUT73100	£26.74
M10 Female 16 mm Spigot [Aluminium]	0.04 kg	DOUT73350	£8.45
M12 Female 16 mm Spigot [Aluminium]	0.04 kg	DOUT73360	£8.45
M6 Female 16 mm Beamer Spigot [Aluminium]	0.03 kg	DOUT73391	£4.71
M10 Female 16 mm Beamer Spigot [Aluminium]	0.03 kg	DOUT73390	£4.71
M12 Female 16 mm Beamer Spigot [Aluminium]	0.03 kg	DOUT73392	£4.71
Reducer Spigot 29 - 16 mm	0.6 kg	DOUT73800	£23.49
16 mm Mini Spigot	0.11 kg	DOUT73900	£5.65
TV-Standard Adaptor 29 - 19mm	0.07 kg	DOUT74000	£5.85
TV-Mini Adaptor 29 - 16mm	0.09 kg	DOUT74100	£5.85
Roller Race TV Spigot [Euro Spec]	2.49 kg	DOUT74200	£98.80
M10 Female TV Spigot [Steel] [Euro Spec]	0.49 kg	DOUT74300	£21.88
M12 Female TV Spigot [Steel] [Euro Spec]	0.5 kg	DOUT74301	£21.88
M6 Female TV Spigot [Aluminium] [Euro Spec]	0.15 kg	DOUT74305	£21.88
M10 Female TV Spigot [Aluminium] [Euro Spec]	0.16 kg	DOUT74302	£21.88
M12 Female TV Spigot [Aluminium] [Euro Spec]	0.15 kg	DOUT74303	£21.88
M10 Steel Reducer Spigot 28 x 16 mm	0.59 kg	DOUT74307	£21.88
M12 Steel Reducer Spigot 28 x 16 mm	0.59 kg	DOUT74308	£21.88
35 mm Speaker Spigot	0.76 kg	DOUT74400	£28.67
35 mm Speaker Spigot Mount M12	0.76 kg	DOUT74402	£13.87
M12 Female TV Spigot [Aluminium] [Long Shank Euro]	0.25 kg	DOUT74500	£21.88
M10 Female TV Spigot [Steel] [Long Shank Euro]	0.6 kg	DOUT74700	£21.88
M10 Female TV Spigot [Aluminium] [Long Shank Euro]	0.23 kg	DOUT74705	£21.88
M12 Female TV Spigot [Steel] [Long Shank Euro]	0.58 kg	DOUT74710	£21.88
TV Quick Receiver	0.5 kg	DOUT74800	£54.93
TV Quick Receiver [Black]	0.5 kg	DOUT74801	£54.93
Socket Adaptor 16 x 16 mm	0.35 kg	DOUG1003	£43.91
Socket Adaptor 29 x 16 mm	0.42 kg	DOUG1002	£46.79
Spigot 29 x 16 mm Lighting [Steel]	0.56 kg	DOUG1190	£24.42
Spigot 29 x 16 mm Lighting [Aluminium]	0.19 kg	DOUG1191	£23.12

See the images and details of all the spigots available at flints.co.uk

DOUGHTY MODULAR RIGGING



Doughty Modular Rigging

This simple and clever modular rigging system from Doughty uses 48 mm Ø aluminium barrel in conjunction with a truss style conical coupling. The system is designed as two parts - Modular Drop Arms [referred to a 'Tee' frames] which are single arms designed to be suspended with a coupler and 'H' Frames, which can be suspended or floor-standing with tank traps.

Shown above are some examples. From left to right are:

1. Three large 'H' frames topped with a pair of trigger clamps and a small 'H' frame suspending four moving lights.
2. Four 'Tee' frames with through connectors in a ladder configuration, shown with parcans or similar.
3. An arc of Modular 'Tee' frames with various extensions to create this shape. These can be made more rigid for larger luminaires by using an inverted 'Tee' frame at the top and connecting to the truss with two parallel couplers.
4. Four 'Tee' frames with through connectors in a ladder configuration, shown with parcans or similar.
5. A Pair of large 'H' frames connected to two tank traps via adapters creating a floor standing assembly.
6. A large bank of parcans or similar suspended on two clamps/couplers with six small 'H' frames connected.

See our website for full details, images, and specifications



Modular 'Tee' Frames Available as a short version [220 - 250 mm], and a tall version [470 - 500 mm] which also has the option of a through connector style to allow the connection of another module below. All 450 mm wide and provided with tapered pins at connection points.

Modular 'Tee' frame	weight	silver	black	price
Short	1.30 kg	DOUT45760	DOUT45761	£92.60
Tall	1.92 kg	DOUT45765	DOUT45766	£97.24
Tall with through Connector	2.11 kg	DOUT45767	DOUT45768	£149.70



Modular 'H' Frames Available as a shorter version [220 - 250 mm] or a taller version [470 - 500 mm]. Both 450 mm wide and provided with tapered pins at connection points.

'H' Frame	weight	silver	black	price
Short	3.33 kg	DOUT45900	DOUT45901	£231.50
Tall	6.00 kg	DOUT45910	DOUT45911	£262.34

Rigging Extensions	weight	silver	black	price
250 mm	0.66 kg	DOUT45775	DOUT45776	£111.35
500 mm	1.11 kg	DOUT45780	DOUT45781	£118.85
1000 mm	1.99 kg	DOUT45785	DOUT45786	£129.72
2000 mm	3.50 kg	DOUT45790	DOUT45791	£146.62

Adjustable Extension	weight	silver	black	price
1.0 - 1.7 m	2.80 kg	DOUT45795	DOUT45796	£249.08
2.0 - 3.7 m	2.80 kg	DOUT45797	DOUT45798	£344.95



Drop Arm with Stirrups Designed to connect to the bottom of extension arms to create a hanging point for larger luminaires

Drop Arm with stirrups	weight	silver	black	price
	1.36 kg	DOUT45770	DOUT45771	£91.35



Connector Required to link each of the modular components. Tapered pins are supplied with each module, but spares also available. The half connector has an M12 internal thread for attachment via a bolt to a clamp or eye of your choice. We can supply a wide range of these connectors, see our website for further details. The Doughty Clamp version listed here has a SWL of 100 kg and weighs just 780 g.

Connector	colour	code	price
Connector	silver	DOUT45755	£15.75
Spare pin	silver	DOUT45756	£6.97
Half connector M12 thread		DOUT45750	£27.75
Doughty Clamp	Black	DOUT45801	£54.02

Tank Trap Adapter	weight	silver	black	price
	0.84 kg	DOUT45757	DOUT45758	£69.45

Safety Bond	weight	silver	black	price
with moving light hook	0.14 kg	DOUT45855	DOUT45856	£22.45