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# Universal Explanations, General Maintenance and Cleaning Recommendations

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## Important User Advice:

Always switch off any power supply before installing, maintaining, cleaning or re-lamping any luminaire.

JCC recommends that luminaires are installed and fitted by a qualified Part "P" approved electrician ensuring the installation complies to the current " IEE wiring regulations BS7671 1992 " and " Building Control " for your area.

JCC Lighting will not accept responsibility for any claims or faults that arise from poor installations.

Regular maintenance and cleaning will prolong the life of this luminaire, and will ensure trouble free lamp replacement.

## Class Descriptions:



Class I: Insulated and Earthed.

The fitting is designed and constructed to ensure, if the insulation fails, all accessible metal parts will be protected by the Earth.



Class II: Double Insulated. ( Occasionally Earthed see note )

The fitting is designed and constructed for higher standards of electrical safety. They have reinforced insulation or double insulation and do not need to be Earthed.

Note: It is common to have Class II products with Earth provision, this is to help in the installation of other products in the same loop.



Class III: Safety Extra Low Voltage. SELV

The fittings are designed and constructed for Low Voltages only. These products are made in accordance to SELV Regulations. SELV products require a suitable ballast or transformer to provide and maintain the required low voltage.

## IP Ratings: ( Ingress Protection )

Example **IP44**

The IP rating of a fitting defines if a fitting is to be installed in a suitable location. The following details are for reference purposes only, for more precise details refer to BS7671 of the IEE Building Regulations.

First Digit	Second Digit
0 Non Protected	0 Non Protected
1 Protected against solid objects greater than 50mm	1 Protected against dripping water
2 Protected against solid objects greater than 12mm	2 Protected against dripping water ( at 15 )
3 Protected against solid objects greater than 2.5mm	3 Protected against spraying water
4 Protected against solid objects greater than 1.0mm	4 Protected against slashing water
5 Dust protected	5 Protected against water jets
6 Dust tight	6 Protected against heavy seas
	7 Protected against the effects of emersion
	8 Protected against submersion

## General Maintenance

All installations will require maintenance to ensure prolonged enjoyment and trouble free operation.

By cleaning products on a regular basis, you will endeavour to keep the lux ( light ) levels similar to the original installation. Shades, diffusers and reflectors will all collect dust over time, this will not only effect the look of the product but could effect the light efficiency.

Re-lamping products will be made easier if attention is made to the fixing methods. For example: Lightly greasing or lubricating screw fixings will ensure the fixing can be assembled and dis assembled time and time again.

Always replace cracked or broken glass as soon as possible, especially in wet or humid environments.

Outdoor products should be checked for damage to painted or plated surfaces on a regular basis. Secure any damage as soon as possible. When powder coated or plated products are damaged deep enough to reach the raw material, the damage must be treated otherwise the raw material will be attacked by the elements.

By being aware and treating any damage at the cause, the damage will be limited. If left, the material will normally corrode from the inside out. Left untreated, it will be a lot later when the paint or plating starts peeling, by this time the luminaire is normally un repairable.

Raw materials such as Stainless Steel needs to be cleaned and treated in order to keep the appearance like new. Stainless steel is more likely to show signs of contamination if the surface is brushed, grained or scratched. The environment we live in has many pollutants in the air that will discolour and / or contaminate Stainless Steel. It is not uncommon for Stainless Steel to look like it might be "rusting". This is in fact environmental corrosion. Untreated the contamination will spread very quickly. The material can be returned to a satisfactory condition with a little cleaning or maintenance. See details opposite. Maintenance Kits for Stainless Steel are available from JCC Lighting, for products that show excessive corrosion or for those who would like to have their luminaires looking like new all the time.

Never use abrasive cleaners on glass or polycarbonate covers or diffusers. Soak stubborn stains for longer periods, never use harsh chemicals or tools that may damage the finish.

JCC Technical Helpline operators will be happy to discuss the general maintenance of any of our fittings.

After any maintenance, cleaning or re-lamping please check all seals are intact, grease or lubricate fixings with a suitable water repellent product.

More regular maintenance is required in industrial area's or in area's of high saline. For example: Near heavy industrial sites, coastal or riverside area's.

Guarantee's may be affected if products are found to be defective because of neglect or lack of general maintenance.

## Cleaning

Due to the amount of cleaning fluids now available JCC can not recommend any product by brand or name. If chemicals have to be used, please try the product on a small area before complete cleaning. To keep your new luminaire in pristine condition JCC strongly recommends the following methods of cleaning and maintenance for paint and metal finishes.

### Powder Coated products:

Clean initially with warm water, allow to dry or use a chamois leather to soak up any excess water.

Agitate any hardened stains with plenty of warm water, use a soft bristled brush if necessary. A mild household detergent can be used if the first method of cleaning is unsuccessful. Rinse with plenty of clean water.

Check for deep scratches or bare metal and treat with a water repellent. Repair paint work with a suitable water safe paint. Check any drain holes are clear, remove debris as necessary.

### Stainless Steel: Grade AISI 304

Products manufactured in AISI 304 are generally treated or have a clear protective laquer or paint applied to protect the raw material. Wipe clean with a damp cloth, do not use chemicals or abrasive cleaners. Agitate heavy stains with warm water and a soft brush. Be careful not to scratch the laquer as this will give a dull effect. Clean to a shine by buffing with a lint free polishing cloth.

### Stainless Steel: Grade AISI 316

Products manufactured in AISI 316 are generally untreated. Air bourne pollution can contaminate the material, without regular cleaning the material will gradually deteriorate. Wipe clean with a damp cloth, stubborn stains should be agitated with a soft brush and plenty of warm water. Dry excess moisture with a chamois leather and finally buff to a shine with a lint free cloth. For more serious contamination, JCC can provide a maintenance kit that includes and anti oxidising wash and a preserving treatment. This kit can be purchased and used to maintain products to their highest level. Please contact JCC Sales for details.

### Polycarbonate and Glass Diffusers:

Polycarbonate ( Plastic ) and Glass diffusers or covers are very easily scratched. Never use abrasive cleaners or brushes that might damage the surfaces.

Where possible separate the diffuser or cover from the luminaire it is much easier to clean when its on its own. Wash the inside and outside of the diffuser or glass in mild soapy warm water. Rinse well in clean water and dry with a soft cloth.

Remember:

Check any drain holes are clear and seals are intact when reassembling the luminaire, lubricate any screws or removable fixings with a suitable water repellent oil or grease to ensure trouble free future maintenance.