



AUBRILAM

SPACE COMES ALIVE

83, RUE FONTGIEVE. 63057 CLERMONT-FERRAND cedex 1 . FRANCE

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AUBRILAM LIGHTING POLES & BOLLARDS MAINTENANCE GUIDE

This document aims to clarify the operations and maintenance to be performed by the AUBRILAM masts. They must be performed by qualified enterprises and should be fully traceable in case of inspection. They are essential and determine the application of the warranty, in addition with the initial design calculations in accordance with the requested standards. Each adding of any accessories must be control and approved by AUBRILAM's design office.

SUPPORTS

STEEL	Clean the surface with soapy water for galvanized poles parts and a polishing product for painted parts. Make any alterations with a zinc rich paint A physical or chemical deterioration of the paint may be the visible symptom of incipient support spoilage.							
ALUMINIUM	Clean the surface of the pole parts with a soapy water and a polishing product for painted columns. A physical or chemical deterioration of the paint may be a visible symptom of a corrosive attack.							
WOOD	Maintenance consists in renewing the surface layer of woodstain. The operation is performed every 7 years . 5 years for exposed sites (seashores, highly polluted).							
METHOD	APPEARANCE OF WOOD SURFACE	Estimated installation date	Brushing	Sanding	Rinsing	WOODSTAINING		
						Woodstain undercoat	1 st Protective coat	2 nd Protective coat
Stage A Preventive maintenance	Colour dull but recognisable Woodstain still 100% Slight flouring of the woodstain	7/10 years	YES	NO	YES	NO	YES	NO
Stage B Restorative maintenance	Colour very dull but recognisable Woodstain still more than 50% present Pronounced flouring of the woodstain Small cracks in the woodstain	10/20 years	YES	NO	YES	NO	YES	YES
Stage C Curative maintenance (Renewing)	Colour no longer recognisable Woodstain cover less than 50% Numerous small cracks Appearance degraded	20 years and more	NO	YES	NO	YES	YES	YES

INSPECTION DOOR

Periodicity :	Every year.
MAINTENANCE	Adjustment and presence of the inspection door. Screws verification and greasing of the inspection door. Evacuation of stagnant water. Unclogging of the evacuation hole.

ANCHORAGE

Periodicity :	Every year.
MAINTENANCE	Greasing the threaded rods. Checking the screws tightness.

INDUCED CURRENTS

Periodicity :	Every 3 years.
MAINTENANCE	Control at ground level (required for aluminum). Checking the presence of the rod-plate insulating .

FOUNDATIONS BLOCKS

Periodicity :	Every 3 years.
MAINTENANCE	Visual inspection. Perpendicularity of the massif from the ground. Soil compaction around the massif.

SOIL ACIDITY

Periodicity :	Every 3 years.
MAINTENANCE	At installation or in case of problems. Control of chemical soil characteristics.

APPLIANCES (BRACKETS-LUMINAIRES)

Periodicity :	At each maintenance on luminaires or brackets
MAINTENANCE	Screws visual inspection Tightening control Luminaire / bracket embedment control



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PROCEDURES IN CASE OF VANDALISM OR MINOR DAMAGES		
TYPE	NATURE	PROCEDURE
VANDALISM	NEW LIGHT GRAFFITI	<ol style="list-style-type: none"> 1. Soak the surface with the anti-graffiti cloth. 2. Rub gently. 3. Rinse with water.
	DARK OR OLD GRAFFITI	<ol style="list-style-type: none"> 1. Apply neat BIO TAG on to the surface. 2. Allow to work for 5 to 10 minutes. 3. Rub gently. 4. Rinse with water.
	GOUGE	<ol style="list-style-type: none"> 1. Apply filler to the gouge. 2. Allow to dry : 20mn. 3. Sand the filled area by hand with sandpaper 120 grit. 4. Apply two coats of woodstain.
MINOR DAMAGES	SAP	<ol style="list-style-type: none"> 1. Remove layer of sap using a scraper. 2. Soak a clean dry cloth with DPM. 3. Rub the flow of sap without removing the woodstain. <p>NB: the flow will stop naturally as soon as the pocket of sap is empty.</p>
	CRACKS	<ol style="list-style-type: none"> 1. Apply the filler to the crack. 2. Sand the filled area by hand with sandpaper 120 grit. 3. Apply two coats of woodstain
STORAGE AND PACKAGING		
STORAGE RECOMMENDATIONS	Our products should be stored horizontally in their original wooden support strips in a well ventilated under shelter. Spending too long stored in a confined space may alter the outward appearance product.	
PACKAGING	<p>Columns and brackets</p> <p>The wooden elements of our cylindrical columns are protected by two layers of corrugated cardboard; the square columns by aluminium angle pieces on the corner. The metal plates are packed using aluminium angle pieces. Accessories (spigots etc...) are packaged in cardboard. Blocking strips of wood and binding ensure the stability of the columns during shipment. Brackets are wrapped in corrugated cardboard and or bubble wrap if sold independently from the columns.</p> <p>Lighting bollards</p> <p>The shaft and the heel are wrapped in corrugated cardboard, the head is protected from impacts in bubble wrap and cardboard.</p> <p>Orders for 4 units or more are packed in cardboard boxes.</p> <p>Technical bollards</p> <p>These are wrapped in corrugated cardboard ; accessories may also be wrapped in bubble wrap. Once on the pallet, wooden strips protect the accessories (taps, sockets, etc) from direct contact with the pallet. Orders for 6 units or more are packed into cardboard boxes and placed on a pallet.</p>	