ROVASI

Positive Lighting

OUTDOOR LIGHTING
C5-M TREATMENT

ROVASI Marketing Department • March 2023

ROVASI

It is essential for lighting fixtures to be able to withstand adverse environmental conditions: any fixture that is exposed to the outside atmosphere suffers from corrosion and the more aggressive the environment, the more the body of the fixture is damaged. For this reason, the body needs to be protected, to prevent damage. A long-lasting way of ensuring their aesthetics, functionality, and security is a requirement.




The quality of the base material is extremely important; the purer it is, the more resistant it is to being exposed to the weather conditions.

ROVASI outdoor lighting fixtures are made of cast aluminium or, in the case of bollards and linear fixtures, extruded aluminium.

The bodies of the fixtures are painted in facilities with a surface area of over 750m2.

These facilities allow for considerable flexibility when it comes to applying all the colours of the RAL colour chart as well as special colours in short timeframes.

C1
VERY LOW

Heated buildings with a clean atmosphere such as offices, shops, schools, hotels.

C2
LOW

Atmosphere contaminated to a small extent, mainly rural regions.

Building which are not heated where condensation may occur e.g. storehouses, sports halls.

C3
MEDIUM

Industrial and urban atmosphere which an average Sulphur oxide (IV) contamination level. Inshore areas of low salinity.

Production space of high humidity and certain air contamination e.g. foodstuff plants, laundries, breweries, dairies.

C4
HIGH

Standard ROVASI treatment

Industrial areas and inshore areas of medium salinity.

Chemical plants, swimming pools, ship repair yards.

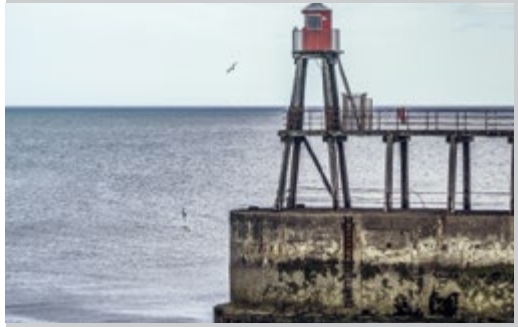
C5I
VERY HIGH (INDUSTRIAL)

Industrial areas of high humidity and aggressive atmosphere.

Buildings and areas of almost constant condensation and high contamination.

C5-M
VERY HIGH (MARINE)

Treatment under request



Inshore areas and offshore areas of high salinity.

Buildings and areas of almost constant condensation and high contamination.

During the painting process, the following stages are used to obtain a total paint coating thickness of between 60µ and 90µ:

C4	C4	C4	C4	C4	C4 + C5-M	C4 + C5-M	C4 + C5-M	C4 + C5-M
Water spray tunnel + degreasing + nano electrophoresis (application of ceramic flakes that adhere to the body of the pieces).	Area for cleaning the leftover product with tap water.	Area for cleaning with demineralised water to prevent lime or other solid debris from becoming embedded once dry.	Tunnel where a product is applied so that the ceramic flakes (nano electrophoresis) unify and form a homogeneous layer.	Air drying tunnel.	Powder coating booth phase where the polyester powder (paint) that coats the piece is applied electrostatically.	Furnace	Cooling	Verification/ Review
		2min		15min 140°C		20-25min 170°-190°C		

The C5-M coating treatment, under request, is applied at this stage of the coating process and consists of an epoxy-based powder coating that creates a barrier effect providing a high level of protection. This coating prevents oxygen and other corrosive agents coming into direct contact with the aluminium and therefore, corrosion is prevented.The primer coat provides excellent coverage of edges and corners by completely sealing the surface.

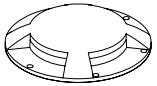
With the C5-M coating system, the thickness is increased by 50µ, bringing the total thickness to between 110µ and 150µ.

+ C5-M	+ C5-M	+ C5-M	+ C5-M
Powder coating booth phase where the polyester powder (paint) that coats the piece is applied electrostatically.	Furnace	Cooling	Verification/ Review
	20-25min 170°-190°C		

ROVASI

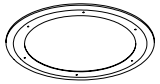
aluminium

IP68 BURIED LUMINAIRE FOR GROUND ILLUMINATION



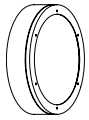
Pivot

IP65 RECESSED DOWNLIGHTS

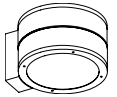


Oyster

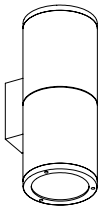
IP65 WALL MOUNTED DOWNLIGHTS



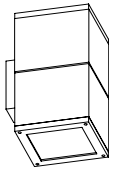
Lynx



Lentie

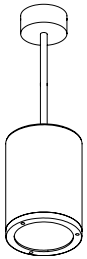


Timbal

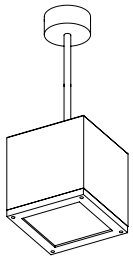


Timbal **SQ**

IP65 PENDANT DOWNLIGHTS

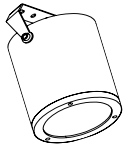


Comet

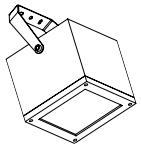


Comet SQ

IP65 PROJECTORS

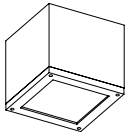


Jet

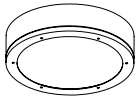


Jet SQ

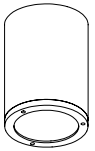
IP65 SURFACE-MOUNTED DOWNLIGHTS



Dau

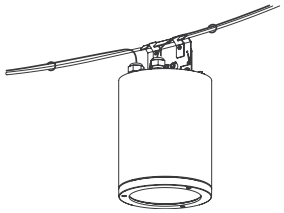


Lynx

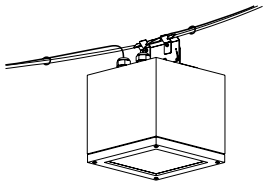


Super

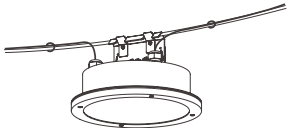
IP65 PENDANT DOWNLIGHTS FOR CATENARY SYSTEMS



Aerial

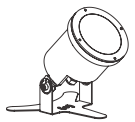


Aerial SQ



Saucer

IP68 PROJECTORS

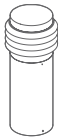


Handy

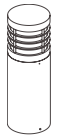
ROVASI

aluminium

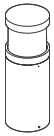
IP66 BOLLARDS



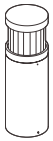
Colutea 100



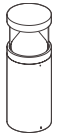
Colutea 200



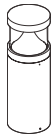
Unedo 100



Unedo 200



Genista 100



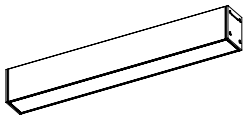
Genista 200

Koramu 100
Koramu XS 100

Koramu 200
Koramu XS 200

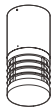
Koramu 300
Koramu XS 300

LINEAR FIXTURES IP66

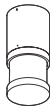


District
District XS

IP66 SURFACE-MOUNTED FIXTURES

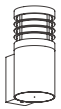


Colutea 300

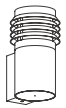


Unedo 200

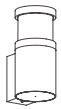
IP66 WALL-MOUNTED FIXTURES



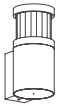
Colutea 400



Colutea 500



Unedo 400



Unedo 500

IP67 BURIED LUMINAIRE FOR GROUND ILLUMINATION

Bolet

stainless steel 316L

It should be noted that uplights and most of the recessed fixtures have 316L stainless steel marine grade (trims and screws).

Marine grade 316L stainless steel is one of the most resistant to corrosion, improves resistance to chloride ion pitting and provides better tensile strength at high temperatures.

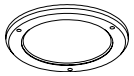
316L stainless steel is an austenitic chromium and nickel stainless steel that contains between 2% and 3% molybdenum.

Stainless steel is also coated with polyester, in this case transparent, to protect the material. The stainless steel trims therefore go through the 9 stages of the paint tunnel, bringing the total thickness to between 50 and 90µ.

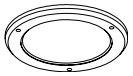
Likewise, the protection can also be increased with C5-M treatment when the luminaire must be installed in environments with high corrosion, bringing the total thickness to between 110 and 150µ.

Concerning the buried recessed uplights they have an 18µ anodised aluminium housing.

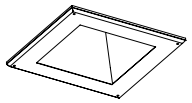
IP65 RECESSED DOWNLIGHTS



Watertight

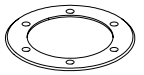


Watertight Shallow

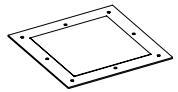


Watertight SQ

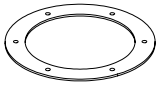
IP68 INGROUND BURIED UPLIGHTS



Terra



Terra SQ

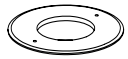


Lithos

IP67 RECESSED DOWNLIGHTS

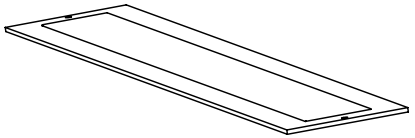
Dot

IP67 INGROUND BURIED UPLIGHTS



Lotus

IP67 LINEAR FIXTURES



Victoria

Colour chart

RAL1015 Ref.19 Light Ivory	**RAL1021** Ref.18 Colza Yellow	**RAL1026** Ref.17 Luminous Yellow	**RAL1036** Ref.5 Pearl Gold	**RAL2000** Ref.20 Yellow Orange	**RAL2002** Ref.16 Vermilion	**RAL3026** Ref.15 Luminous Bright Red	**RAL4003** Ref.22 Heather Violet	**RAL4006** Ref.23 Traffic Purple
RAL5002 Ref.25 Ultramarine Blue	**RAL5012** Ref.24 Light Blue	**RAL 5018** Ref.26 Turquoise Blue	**RAL6005** Ref.29 Moss Green	**RAL6010** Ref.28 Grass Green	**RAL6018** Ref.27 Yellow Green			
RAL7011 Ref.32 Iron Grey	**RAL7016** Ref.4 Anthracite Grey	**RAL7032** Ref.30 Pebble Grey	**RAL8017** Ref.31 Chocolate Brown	**RAL8022** Ref.33 Black Brown	**RAL9003** Ref.34 Signal White			
RAL9005 Ref.2 Jet Black	**RAL9006** Ref.7 White Aluminium	**RAL9010** Ref.1 Pure White	**RAL9016** Ref.35 Traffic White		Satin Bronze			

STAINLESS STEEL 316L Marine Grade
Available for: Watertight, Watertight Shallow, Watertight SQ, Dot, Lotus, Terra, Terra SQ, Victoria and Lithos.

+ C5-M

C5-M (Marine) COATING
Special coating for environments with very high corrosivity.
Areas near to the coast and spaces with high salinity.

+RAL

Other RAL colors or product finishes are available upon request.

ROVASI

Positive Lighting

Contact us for more information:

ROVASI S.L
Ronda de la Font Grossa, 15
Pol. Ind. La Gavarra
08540 Centelles | Barcelona

T +34 93 881 35 12
+34 93 881 37 13

info@rovasi.com
www.rovasi.com

ROVASI Marketing Department