



# Mining And Surface Certification (Pty) Ltd

(Pty) Ltd: 2015/021934/07

THIS CERTIFICATE IS ISSUED AS AN I.A. CERTIFICATE IN TERMS OF THE MINE HEALTH AND SAFETY ACT, ACT NO 29 OF 1996 (AND REGULATIONS), THE OCCUPATIONAL HEALTH AND SAFETY ACT (ACT 85 OF 1993) AND REGULATION 17 OF THE ELECTRICAL MACHINERY REGULATIONS

<b>IA CERTIFICATE</b>	MASC S/22-2316X	<b>Issue</b>	0
<b>Issue Date</b>	25 January 2023	<b>Expiry Date</b>	25 January 2033
<b>Applicant</b>	Electroflame (Pty) Ltd, 83 Brand Street, President Park, Midrand, South Africa		
<b>Manufacturer</b>	Electroflame (Pty) Ltd, 83 Brand Street, President Park, Midrand, South Africa		
<b>Description (See "Annex A" below)</b>			
<b>Equipment</b>	P24 LED Luminaire, 2Ft = 660mm 4Ft = 1270mm 5Ft = 1570mm	<b>Type</b>	**P24 Z2, 21/22 SINGLE P24 Z2, 21/22 SINGLE, EMG P24 Z2, 21/22 DOUBLE P24 Z2, 21/22 DOUBLE, EMG
<b>Photo</b>			
<b>MARKING:</b> <i>Must be additionally applied to the equipment</i>	<b>Applicant / Manufacturer Type</b> <b>Ex Marking</b>  <b>IA Number</b> <b>Serial Number</b>	Electroflame (Pty) Ltd P24 Z2, 21/22 (**as applicable type) Ex ec mc IIC T5 Gc Ex tb IIIC T85° Db IP65 MASC S/22-2316X See "Annex A" below	
<b>WARNING(S)</b>	"DO NOT OPEN WHEN ENERGIZED" "LIVE PARTS BEHIND COVER – DO NOT CONTACT"		
<b>Compliance:</b>			
The equipment as described above and in MASC report <b>22-2316</b> has been allocated the rating <u>Explosion Protected Ex ec mc IIC T5 Gc &amp; Ex tb IIIC T85° Db IP65</u> utilizing the SANS/IEC Standards:			
<ul style="list-style-type: none"> <li>SANS (IEC) 60079-0: 2019 General requirements</li> <li>SANS (IEC) 60079-7: 2019 Equipment protection increased safety "e"</li> <li>SANS (IEC) 60079-18: 2022 Equipment protection by encapsulation "m"</li> <li>SANS (IEC) 60079-31: 2014 Equipment dust ignition protection by enclosure "t"</li> <li>ARP 0108: 2018 Regulatory requirements for explosion protected apparatus</li> </ul>			
<i>Note: This certificate covers only the listed standards and does not imply compliance to any other standard, related or inferred. It is up to the manufacturer to ensure that the product complies to all relevant standards for the application.</i>			
<b>Special conditions of safe use X:</b>			
<ul style="list-style-type: none"> <li>See 'Annex A' below</li> </ul>			
<b>Conditions of manufacture:</b>			
<ul style="list-style-type: none"> <li>See "Annex A" below</li> </ul>			
 <b>M. Erasmus</b> <b>TECHNICAL SPECIALIST</b>		 <b>W. Haywood</b> <b>TECHNICAL SPECIALIST</b>	
<p><b>This certificate only covers the sample submitted and does not cover production units.</b></p> <p>According to the relevant requirements of the MHS Act and the OHS Act, production units of explosion protected equipment are required to comply with third party quality assurance (an approved mark scheme or batch testing by an accredited test laboratory).</p>			



Apparatus in hazardous locations is subject to the following provisions as applicable, which shall be adhered to:

- SANS 10086 requirements;
- Any conditions mentioned in the above certificate;
- Any relevant requirements of the MHS Act;

Any restrictions and conditions enforced by the chief inspector of mines, principal inspector (Group I equipment) or chief inspector of factories (Group II equipment).



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**IA CERTIFICATE: MASC S/22-2316X**  
**Equipment: P24 LED Luminaire 2Ft, 4Ft and 5Ft**  
(P24 Z2, 21/22 SINGLE; P24 Z2, 21/22 SINGLE EMG; P24 Z2, 21/22 DOUBLE and  
P24 Z2, 21/22 DOUBLE EMG)

ANNEX A

Description	Enclosure	Populated	Unpopulated
		General	<p>The P24 Luminaire is manufactured by Electroflame.</p> <p>The unit consist of a non-metallic body with a non-metallic diffuser, retained to the body with securing clips. A continuous seal is situated between the body and diffuser to prevent the ingress of dust and moisture.</p> <p>The unit is populated with a geartray that consist of a reflector that houses the LED strip(s) and control gear.</p> <p>An option of four different types namely:  P24 Z2, 21/22 SINGLE,  P24 Z2, 21/22 SINGLE EMG,  P24 Z2, 21/22 DOUBLE and  P24 Z2, 21/22 DOUBLE EMG with each in 2Ft, 4Ft and 5Ft in length can be supplied.</p> <p>Both the SINGLE and Double units can be supplied with an emergency backup unit.</p>
	Dimensions	<p>P24 Z2, 21/22 SINGLE and P24 Z2, 21/22 SINGLE EMG:</p> <ul style="list-style-type: none"> <li>- 2Ft – 660mm x 100mm x 100mm</li> <li>- 4Ft – 1270mm x 100 x 100mm</li> <li>- 5Ft – 1570mm x 100mm x 100mm</li> </ul> <p>P24 Z2, 21/22 DOUBLE and P24 Z2, 21/22 DOUBLE EMG:</p> <ul style="list-style-type: none"> <li>- 2Ft – 660mm x 160mm x 100mm</li> <li>- 4Ft – 1270mm x 160 x 100mm</li> <li>- 5Ft – 1570mm x 160mm x 100mm</li> </ul>	
<b>Maximum Wattage</b>	2FT Max 23.3W 4FT Max 45.6W 5FT Max 61.2W		
<b>Standard compliance</b>	See "certificate" above		
<b>Warnings</b>	See "certificate" above		
<b>Conditions of Certification</b>			
<b>Special Conditions of safe use (X)</b>	<ul style="list-style-type: none"> <li>• All terminations should be done in an Ex manner</li> <li>• Provision shall be made for stress relief on the cable and cable gland at entry point on the body of the unit(s).</li> <li>• The equipment must be installed / protected to prevent the formation of undue layers of dust on the equipment.</li> <li>• The rating(s) of the unit(s) may not be exceeded.</li> <li>• The special conditions of the certified components/ equipment must be complied with (where applicable).</li> <li>• The installation of cable glands and blanking plugs shall be done in such a way that the IP65 rating is maintained.</li> <li>• Only suitably certified cable glands, plugs may be used.</li> </ul>		
<b>Conditions of manufacture</b>	<ul style="list-style-type: none"> <li>• The seals of the unit must remain intact for the IP65 rating.</li> <li>• Any entries must be sealed in an Ex manner.</li> <li>• Only certified Connectors (Male and Female) / Connector Block may be utilized.</li> </ul>		

This document is issued based on Mining And Surface Certification's Standard Contract terms and conditions available on request.

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MASC takes no responsibility for any non-conformances, exclusions or any results / assessments / inspections not in compliance with the standards. By marking the equipment in accordance with the documentation / standard, the manufacturer / applicant attests on his own responsibility that the equipment / installation has been designed and constructed in accordance with the applicable requirements of the relevant standards and documentation, that the routine verifications / routine tests have been correctly completed and the equipment / installation complies with the documentation and standard(s).

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