



Mining And Surface Certification (Pty) Ltd

(Pty) Ltd: 2015/021934/07

IN TERMS OF REGULATION 21.17.2 OF THE MINERALS ACT (INCORPORATION THE MINE HEALTH AND SAFETY ACT) AND REGULATION 9 (1) OF THE ELECTRICAL MACHINERY REGULATIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT

IA CERTIFICATE	MASC MS/21-9016X	Issue	0
Issue Date	14 June 2021	Expiry Date	14 June 2031
Applicant	Pratley Manufacturing (Pty) Limited 14 Jackson Street, Fectoria, Krugersdorp, 1745, Gauteng, South Africa		
Manufacturer	Pratley Manufacturing (Pty) Limited 14 Jackson Street, Fectoria, Krugersdorp, 1745, Gauteng, South Africa		
Description (See "Annex A" below)			
Equipment	Flameproof Envirobox N° 1 x 4	Type	Flameproof Envirobox N° 1 x 4
MARKING: <i>Must be additionally applied to the equipment</i>	Applicant / Manufacturer Type Ex Marking IA Number Serial Number Rating	Pratley Manufacturing (Pty) Limited Refer to description Ex db I Mb Ex db IIB + H2 T* Gb Ex tb IIIC T°C Db IP66/68 (300m) *Refer to table 3 below in description -40°C to +55°C MASC MS/21-9016X See "Annex A" below As per description below	
WARNING(S)	As per conditions below		
Compliance:			
The equipment as described above and in report ZA/ICS/ExTR21.0006/00 has been allocated the rating <u>Explosion Protected as above</u> utilizing the SANS/IEC Standards:			
<ul style="list-style-type: none"> SANS (IEC) 60079-0: 2019 General requirements SANS (IEC) 60079-1: 2015 Explosive atmospheres Part 1: Equipment protection by flameproof enclosures d SANS (IEC) 60079-31: 2014 Equipment dust ignition protection by enclosure "t" ARP 0108: 2018 Regulatory requirements for explosion protected apparatus 			
Special conditions of safe use X:			
<ul style="list-style-type: none"> See "Annex A" below 			
Conditions of manufacture:			
<ul style="list-style-type: none"> See "Annex A" below 			
 Terine Orsmond TECHNICAL OFFICER		 Regardt Zeelie TECHNICAL SPECIALIST	
<p style="text-align: center;">This certificate only covers the sample submitted and does not cover production units.</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 and code of practice enforced in terms of regulations 21.17.2 of the minerals 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).

This certificate may only be reproduced in full.
This certificate is not transferable and remains the property of the issuing body
Mining And Surface Certification (Pty) Ltd
Unit 5 Lelyta Park, 45 Jurg Ave. Hennospark Ext 87
Centurion, 0157



**IA CERTIFICATE: MASC MS/21-9016X
Equipment: Ezee-fit Box Range**

ANNEX A

Description	<p>The Flameproof Envirobox serves as a junction box or enclosure to house small components within the defined limits of the schedule drawings and power dissipation table below. It is manufactured from Pratley glass-fibre reinforced thermoset plastic in a cylindrical shape with a diameter of 145mm and height of 102mm. The cable entry locations are orthogonally fitted in the curved sidewall and may consist of a M25, M20 or any other thread form and size (Metric or NPT) smaller than M25. The entry point locations are available in various quantities too. The lid is fitted with an elastomeric gasket and is fixed to the base with eight M6 x 1.0 x 30 SHCS (A2-70).</p> <p>There is a facility for the connection of an earthing or equipotential bonding conductor provided inside and with the provision for an optional external connection outside the main body by an earth connection arrangement. The certification details are shown below.</p> <p>Combinations of terminals and/or other components may be fitted, provided the maximum power dissipation does not exceed the maximum rated dissipated power in table 3 below. No energy storing electronics, cells, batteries or switch gear components may be fitted inside the enclosure.</p> <table border="1" data-bbox="671 645 1086 958"> <thead> <tr> <th colspan="3">Table 3 - Operating Temperatures</th> </tr> <tr> <th>Temp Range:</th> <td colspan="2">-40 to 55C</td> </tr> <tr> <th rowspan="2">T amb. [C]</th> <th>T6</th> <th>T5</th> </tr> <tr> <th colspan="2">Diss. Power [W]</th> </tr> </thead> <tbody> <tr> <td>40</td> <td>2.22</td> <td>4.04</td> </tr> <tr> <td>45</td> <td>1.62</td> <td>3.44</td> </tr> <tr> <td>50</td> <td>1.01</td> <td>2.83</td> </tr> <tr> <td>55</td> <td>0.4</td> <td>2.22</td> </tr> </tbody> </table>	Table 3 - Operating Temperatures			Temp Range:	-40 to 55C		T amb. [C]	T6	T5	Diss. Power [W]		40	2.22	4.04	45	1.62	3.44	50	1.01	2.83	55	0.4	2.22
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Standard compliance	See "certificate" above																							
Warnings	See "certificate" above																							
Conditions of Certification																								
Special Conditions of safe use (X)	<ul style="list-style-type: none"> No energy storing electronics, cells, batteries or switch gear components may be fitted inside the enclosure. Only suitably certified glands, adaptors, blanking plugs may be used in all apertures. All unused entries must be sealed using suitably certified blanking elements The internal power losses for the enclosure may not exceed the values as per Table 3 in the description above. Installation/supply cable must comply with suitable current rating as applicable, keeping in mind the deratings for ambient/service temperatures. Use only fasteners with grade (or higher) as per equipment description in the general product information. 																							
Conditions of manufacture	<ul style="list-style-type: none"> None 																							

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).

This document is only for use and application in South Africa. It is issued based on National interpretations and accepted practices