

(1) EU-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) EU-Type Examination Certificate Number

TÜV 21 ATEX 8694 X

Issue: 00

- (4) Equipment: **Junctions boxes, Ezee-fit Box Range**
- (5) Manufacturer: **Pratley Manufacturing (Pty) Limited**
- (6) Address: **Jackson Street, Factoria
Krugersdorp, Republic of South Africa**

- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557/Ex8694.00/21

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN IEC 60079-0:2018

EN IEC 60079-7:2015/A1:2018

EN 60079-31:2014

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



**I M 2 Ex eb I Mb
II 2 G Ex eb IIC T* Gb
II 2 D Ex tb IIIC T* Db**

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2021-08-04

Dipl.-Ing. Christian Mehrhoff



This EU-Type Examination Certificate without signature and stamp shall not be valid.
This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the
TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
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(13) Annex

(14) **EU Type Examination Certificate**
TÜV 21 ATEX 8694 X Issue: 00

(15) Description of equipment

15.1 Equipment and type:

Junctions boxes, Ezee-fit Box Range

15.2 Description / Details of Change

General product information

The Ezee-fit range of junction boxes are manufactured in either Orange or Black Dough Moulding Compound (DMC) with a lid manufactured from the same material, or in clear polycarbonate. The junction boxes have a circular shape, with cable entry locations in the curved sidewall. The entry points are available in various configurations. The entry locations may be fitted with Pratley gland accessories to form integral cable glands suitable for armoured or unarmoured cable. Stopping plugs may also be provided. The lid is fitted with an elastomeric gasket and is fixed to the base with four screws.

Inside the enclosure, a terminal rail is fixed to the base with screws. Rail mounted suitably certified terminals, or Kwik-blok terminals, are fitted to the rail between partitions and end stops. There is a facility for the connection of an earthing or equipotential bonding conductor provided inside the main body by either an earth terminal block from one of the ranges as detailed in Table 1, or an earth plate arrangement. There is also provision for external earth as per EXA 0005 notes and EXA 0006.1 to EXA 0006.4 documents.

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Technical Data

Electrical data

Kwik-blok Terminal Type	Conductor size range	Maximum current (A)
IK3	0.5 to 2.5 mm ²	15
IK5	0.5 to 4.0 mm ²	21.0
IK10	0.5 to 10 mm ²	37.0
IK16	0.5 to 16 mm ²	47.0
IK25	10 to 25 mm ²	63.0
IK51	16 to 50 mm ²	98.0
IK70	25 to 95 mm ²	121.0

Combinations of suitably certified terminals and terminals as listed in Table 1 above may be fitted, provided the maximum power dissipation, in accordance with EN IEC 60079-7 Annex E, does not exceed the maximum rated dissipated power in table 2 below.

The maximum potential between live parts does not exceed 550V for Ex eb and a 1000V for Ex ec.

Table 2

Max Dissipated Power [W]

Box Size	T6 (85deg C)				T5 (100deg C)			
	-20 < Ta < 40	40 < Ta < 45	45 < Ta < 50	50 < Ta < 55	-20 < Ta < 40	40 < Ta < 45	45 < Ta < 50	50 < Ta < 55
Nº0	3.0	2.2	1.4	0.6	5.3	4.5	3.7	3.0
Nº1	3.3	2.4	1.5	0.6	6.0	5.1	4.2	3.3
Nº2	5.4	4.3	3.2	2.0	8.8	7.6	6.5	5.4
Nº3	9.6	7.4	5.2	3.0	16.2	14.0	11.8	9.6
Nº4	13.4	11.7	10.1	8.4	18.4	16.7	15.1	13.4

Environmental data

Ingress protection:

IP 66/68

Rated ambient temperature range:

Ta -20°C to +55°C

(16) Test-Report No. 557/Ex8694.00/21

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(17) Special Conditions for safe use

1. The junction boxes are rated for an ambient temperature range of -20°C to +55°C. Refer to description for guidance on ambient range.
2. Only suitably certified terminals may be used inside the enclosure. Special attention shall be given to Table 2 in the product description when populating the enclosure, noting the maximum dissipated power, T-rating and ambient temperature range.
3. For group I installations, enclosures to be installed in areas of low mechanical impact risk (7 Joules).
4. For group I installations, enclosures fitted with polycarbonate (clear lids), shall be installed such that exposure to oils and greases are prevented. Black and Orange lids can safely be used in the presence of oils and greases.
5. Enclosures are rated for both fixed and mobile installations, when made from Black material. Orange and clear polycarbonate are rated for fixed installations only.
6. When the junction boxes are manufactured from the orange DMC material, or the clear polycarbonate lids are fitted, the equipment is marked, WARNING STATIC HAZARD, WIPE WITH DAMP CLOTH. Refer to the instruction manual for further advice on how to clean the equipment safely and prevent static charge build up.
7. Only suitably certified IP66/68 blanking elements and cable glands, where applicable, may be used on enclosure entries.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2021-08-04

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