



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX SIR 05.0057X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2008-09-30  
Applicant: **Pratley Manufacturing and Engineering (pty) Ltd**  
Jackson Street  
Factoria  
Krugersdorp  
**South Africa**  
Equipment: **Enviroglan and Enviro Compression Glands**  
Optional accessory:  
Type of Protection: **Increased Safety and Dust**  
Marking: Ex e II  
Ex tD A21 IP68

Approved for issue on behalf of the IECEx  
Certification Body:

**D R Stubbings BA MIET**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:

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CERTIFICATION



# IECEx Certificate of Conformity

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Manufacturer: **Pratley Manufacturing and Engineering (pty) Ltd**  
Jackson Street  
Factoria  
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**South Africa**

Additional  
manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

#### STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2004** Electrical apparatus for explosive gas atmospheres - Part 0: General requirements  
Edition:4.0

**IEC 60079-7:2006-07** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:4

**IEC 61241-0:2004** Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements  
Edition:1

**IEC 61241-1:2004** Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"  
Edition:1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

#### TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

Quality Assessment Report:

**IECEx ATR:**  
GB/SIR/ExTR08.0118/00  
GB/SIR/QAR06.0042/00

**File reference:**  
51F13361



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Enviro Compression gland range is manufactured in glass filled polyamide and brass. They are intended to terminate braided or unarmoured circular cables into increased safety enclosures without compromising the explosion protection provided by the enclosures in accordance with relevant codes of practice, with sealing and retention provided by gripping the outer sheath

The cable gland range has an ingress protection rating of IP68

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- 1 The **Enviro Compression Gland, Envirogland** and **Pb Envirogland** ranges shall not be used in enclosures where the temperature, at the point of mounting, is outside the range of -20°C to +60°C
- 2 The **Enviro Compression Gland, Envirogland** and **Pb Envirogland** ranges are susceptible to electrostatic discharge. As such the installation instruction leaflet carries a precautionary warning to minimise the risk

## **Annex:**

[IECEx SIR 05.0057X\\_Annexe\\_Iss0.pdf](#)

**Annexe to:** IECEx SIR 05.0057X

**Applicant:** Pratley Manufacturing and Engineering (pty) Ltd

**Apparatus:** Envirogland, Pb Envirogland, and Enviro Compression gland Ranges of cable glands.



The Enviro Compression cable gland range comprise:

- Brass locknut on metric entry threaded designs for securing to associated enclosures having clearance holes.
- Polyamide 6.6 entry thread sealing gasket on metric entry threaded designs to aid interface sealing.
- A threaded entry body insert moulded within an outer glass filled Polyamide 6.6 cover, which can screw into tapped entries in associated enclosure.
- An EPDM elastomeric sealing bush, which fits into the entry body to provide a seal around the outer sheath of the cable.
- Outer compression nut fitted with an external o-ring and skid washer. Model numbers 6 and 7 are provided with two retaining washers instead of skid washers for the end user to fit the appropriate size. The compression nut tightens into the entry body compressing the sealing bush onto the outer sheath of the cable and providing additional sealing against the entry body with the fitted O-ring.
- Model numbers 6 and 7 are internally fitted with a cone ring and have an additional sealing bush.

The cable gland seal range accommodations and thread size are determined by model number and product type:

Model number and Type	Entry Thread		Cable Outer Sheath Ø	
			Min. (mm)	Max. (mm)
No. 00 Enviro Compression gland	-	M16 x 1.5	4.5	8.0
No. 0s Enviro Compression gland	½" NPT x 14TPI	M20 x 1.5	4.5	8.0
No. 0 Enviro Compression gland	½" NPT x 14TPI	M20 x 1.5	8.0	12.6
No. 1 Enviro Compression gland	¾" NPT x 14TPI	M20 x 1.5	12.6	15.7
No. 2 Enviro Compression gland	1" NPT x 11 ½ TPI	M25 x 1.5	15.7	20.4
No. 3 Enviro Compression gland	-	M32 x 1.5	20.4	26.3
No. 4 Enviro Compression gland	-	M40 x 1.5	26.3	34.7
No. 5 Enviro Compression gland	-	M50 x 1.5	34.7	43.3
No. 6 Enviro Compression gland	-	M63 x 1.5	43.4	55.8
No. 7 Enviro Compression gland	-	M75 x 1.5	55.8	67.5

- 2 The **Envirogland gland** range composite manufactured in glass filled Polyamide and brass are intended to terminate SWA circular cables into increased safety enclosures without compromising the explosion protection provided by the enclosures in accordance with relevant codes of practice. Retention is provided by an internal clamping arrangement and sealing is achieved by gripping the outer sheath of the cable.

The cable gland range has an ingress protection rating of IP68 and are coded:

Ex e II / Ex tD A21 IP68

**Annexe to:** IECEx SIR 05.0057X

**Applicant:** Pratley Manufacturing and Engineering (pty) Ltd

**Apparatus:** Envirogland, Pb Envirogland, and Enviro Compression gland Ranges of cable glands.



The Envirogland cable gland range comprise:

- Brass locknut on metric entry threaded designs for securing to associated enclosures having clearance holes.
- Polyamide 6.6 entry thread sealing gasket on metric entry threaded designs to aid interface sealing.
- A threaded brass entry body insert moulded within an outer glass filled Polyamide 6.6 cover, which can screw into tapped entries in associated enclosure.
- An EPDM elastomeric sealing ring, which fits into the entry body to provide a seal around the inner sheath of the cable. Model numbers 6 and 7 are provided with two sealing rings for the end user to fit the appropriate size.
- Nickel-plated cone ring and cone bush to clamp onto the cable armouring. These also compress the seal onto the inner sheath of the cable with the aid of a compression nut. A Polyamide 6.6 compression nut fitted with an external o-ring, compressing the inner seal and engaging the armour locking mechanism within the entry body. The o-ring provides additional sealing against the entry body.
- A Polyamide 6.6 back nut fitted with an EPDM elastomeric back sealing ring. The back nut tightens onto the compression nut whilst compressing the seal onto the outer sheath of the cable.

The cable gland seal range accommodations and thread size are determined by model number and product type:

Model number and Type	Entry Thread		Cable Inner Sheath Ø		Armour Ø (mm)	Cable Outer Sheath Ø	
			Min (mm)	Max (mm)		Min (mm)	Max (mm)
No. 0 Envirogland	½" NPT x 14TPI	M20 x 1.5	8.5	12.6	0.9	12.6	18.6
No. 1 Envirogland	¾" NPT x 14TPI	M20 x 1.5	12.6	15.7	0.9	15.4	22.0
No. 2 Envirogland	1" NPT x 11 ½ TPI	M25 x 1.5	15.7	20.4	1.25	22.0	27.2
No. 3 Envirogland	-	M32 x 1.5	20.4	26.3	1.6	24.3	33.2
No. 4 Envirogland	-	M40 x 1.5	26.3	34.7	1.6	33.2	43.2
No. 5 Envirogland	-	M50 x 1.5	34.7	43.3	2.0	43.2	54.0
No. 6 Envirogland	-	M63 x 1.5	43.3 49.7	49.6 55.8	2.5	53.9	67.1
No. 7 Envirogland	-	M75 x 1.5	55.9 60.7	60.6 67.5	2.5	67.1	78.8

**Annexe to:** IECEx SIR 05.0057X

**Applicant:** Pratley Manufacturing and Engineering (pty) Ltd

**Apparatus:** Envirogland, Pb Envirogland, and Enviro Compression gland Ranges of cable glands.



**DESIGN OPTION:**

- **Pb Envirogland** Replacement of the inner elastomeric seal with one of two lead compression bushes.

The cable gland seal range accommodations and thread size are determined by model number and product type:

Model number and Type	Entry Thread	Inner Lead Sheath Ø		Armour Ø (mm)	Cable Outer Sheath Ø	
		Min (mm)	Max (mm)		Min (mm)	Max (mm)
No. 1S PB Envirogland	M20 x 1.5	9.5	10.8	0.9	15.4	22.0
No. 1L PB Envirogland	M20 x 1.5	10.8	12.6	0.9	15.4	22.0
No. 2S PB Envirogland	M25 x 1.5	12.6	14.4	1.25	22.0	27.2
No. 2L PB Envirogland	M25 x 1.5	14.4	18.2	1.25	22.0	27.2
No. 3S PB Envirogland	M32 x 1.5	18.2	20.0	1.6	24.3	33.2
No. 3L PB Envirogland	M32 x 1.5	20.0	23.0	1.6	24.3	33.2
No. 4S PB Envirogland	M40 x 1.5	23.0	26.0	1.6	33.2	43.2
No. 4L PB Envirogland	M40 x 1.5	26.0	30.5	1.6	33.2	43.2
No. 5S PB Envirogland	M50 x 1.5	30.5	35.5	2.0	43.2	54.0
No. 5L PB Envirogland	M50 x 1.5	35.5	40.5	2.0	43.2	54.0