

# *Certification of* **EXPLOSION PROTECTED ELECTRICAL EQUIPMENT**

ANZEx Scheme

## *Certificate of Conformity*

Certificate No: **ANZEx 08.2001**      Issue: **0    2 June 2008**      Original Issue

Certificate Holder: **CCG Cable Terminations (Pty) Ltd**  
**33-37 Forge Road**  
**Spartan Industrial Area**  
**KEMPTON PARK 1619**  
**Republic of South Africa**

Electrical Equipment: **Range of Junction Boxes**  
Types - CCG Posi Handi-Fit Boxes  
          - CCG Utility Boxes  
          - No. 2 Angle Box  
          - 3 Way Bottom Entry Box

Type of Protection and Marking Code: **Ex e IIC T6 IP66/68**  
**Ex n IIC T6 IP66/68**  
**DIP T6 IP66/68**  
**ANZEx 08.2001**

Manufactured by: **CCG Cable Terminations (Pty) Ltd**  
**33-37 Forge Road**  
**Spartan Industrial Area**  
**KEMPTON PARK 1619**  
**Republic of South Africa**

The certification database located at <http://www.anzex.com.au> shows the currency of this certificate.

Issued by:



**Simtars**

Queensland Government

A business unit of the Department of  
Mines and Energy

### **Engineering, Testing and Certification Centre**

2 Smith Street, REDBANK QLD 4301, Australia

Postal Address: PO Box 467, GOODNA QLD 4300, Australia

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## EXPLOSION PROTECTED ELECTRICAL EQUIPMENT

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This certificate is granted subject to the conditions as set out in Standards Australia/Standards New Zealand P-008 Ex Mark Management Committee Publication MP87.

The electrical apparatus 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:

AS 2380.1 - 1989	Electrical equipment for explosive atmospheres - Explosion-protection techniques - Part 1: General requirements
AS 2380.6 - 1988	Electrical equipment for explosive atmospheres - Explosion-protection techniques - Part 6: Increased Safety
AS 2380.9 - 1991	Electrical equipment for explosive atmospheres - Explosion-protection techniques - Part 9: Type of protection n - Non-sparking
AS 2236 - 1994	Electrical equipment for explosive atmospheres - Dust-excluding ignition-proof (DIP) enclosure (Including Amendment 1, 5 March 1998)

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

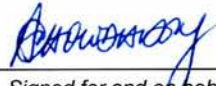
The above standards were not current at the time of issue of this certificate.

The equipment listed has successfully met the examination and test requirements as recorded in

Test Report No. and Issuing Body: **NE98/0035, NE99/0028; Simtars**

Quality Assessment Report No.: **AU/ITA/QAR08.0002/00, ITACS**

File Reference: **08/0068**



Signed for and on behalf of issuing authority

Principal Engineer - Certification  
Engineering, Testing and Certification Centre

Position

2 June 2008

Date of issue

This certificate and schedule may not be reproduced except in full.

This certificate is not transferable, remains the property of the issuing body and must be returned in the event of its being revoked or not renewed.

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### Schedule

#### Equipment:

The Range of Junction Boxes covered by this certificate are manufactured from glass reinforced polyester compound and come in various sizes as listed in Table 1. Access to each box is via a screwed cover. An O-ring, mounted in the cover, provides protection against ingress of dust and water. Cable access to the enclosures is by threaded entries for the fitting of separately certified cable glands or blanking elements.

Table 1: Range of Junction Boxes

Name of Range	Box Size Designation	Cable entry size	Maximum Power Dissipation (Watts)
Posi Handi-Fit Ex e Box	0	M20	5.2
	1	M20	5.6
	2	M25	7.7
	3	M32	14.5
Utility Box	20 mm	M20	5.2
	25 mm	M25	7.7
No 2 Angle Box		M20	7.7
		M25	
3 WAY BOTTOM ENTRY BOX		M20	5.2

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## EXPLOSION PROTECTED ELECTRICAL EQUIPMENT

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Issue: **0**

Date of Issue: **2 June 2008**

Drawings:

Drawing No.	Drawing Title	Revision No.	Drawn/ Revision Date
E.00.00.03.600	BOTTOM ENTRY BOX 20mm	-	22.09.98
E.00.01.12.600	BOTTOM ENTRY BOX EARTHING CONNECTION - BRASS INSERT	-	3.09.99
E.00.01.12.600/A	BOTTOM ENTRY BOX EARTHING CONNECTION	-	18.08.1999
E.00.01.12.601	BOTTOM ENTRY BOX STANDOFF	-	8.09.99
E.00.01.12.602	BOTTOM ENTRY BOX ENCLOSURE - LID SEALING	-	9.09.99
E.00.01.12.603	LID MARKING FOR 20mm 3 WAY BE BOX	1	21/05/08
E.00.00.03.000/A	CCG POSI HANDI-FIT Exe BOX	4	13/5/97
E.00.00.03.000/B	CCG POSI HANDI-FIT Exe BOX	0	18/10/96
E.00.00.05.100/A	CCG UTILITY BOX 20 mm	0	20/7/98
E.00.00.05.100/B	CCG UTILITY BOX 20 mm	0	20/7/98
E.00.00.05.100/C	CCG UTILITY BOX 25 mm	0	20/7/98
E.00.00.05.100/D	CCG UTILITY BOX 25 mm	0	20/7/98
E.40.00.03.105/1	BOX INSERTS	1	5/6/97
E.40.00.03.107/1	EARTH RING	1	5/6/97

(Drawings continued next page)

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Drawing No.	Drawing Title	Revision No.	Drawn/ Revision Date
E.40.00.03.102/1	0-RING	1	5/6/97
E.40.00.03.108/1	TERMINAL RAIL INSERT	1	5/6/97
E.00.00.03.305	No 2 Ex e LID	0	12.8.98
E.00.00.03.500/BA	No 2 ANGLE BOX ASSEMBLY	0	10.8.98
E.00.00.03.500 SH 2 OF 2 SH	No 2 Exe ANGLE BOX	0	10.8.98
E.40.00.03.103/3	JUNCTION BOXES LID MARKING	2	21/05/08

## Additional Information:

The maximum power dissipation of internal equipment of the Junction Boxes shall not exceed the values listed in Table 1.

When the apparatus is used in Zone 1 locations under the increased safety (Ex e) protection concept, terminals used shall be separately certified to increased safety requirements and shall be installed with terminal wiring which provides an even and distributed heat dissipation to ensure that internal parts/components do not exceed the temperature class (T6).

In order to maintain the relevant explosion protection and the IP rating of the apparatus, cable glands shall be separately certified Ex e or DIP as appropriate with a degree of protection (IP) equivalent to or greater than the degree of protection of the Junction Boxes.

When the boxes are used for non-sparking Ex n applications, the terminals used must satisfy the clearance and creepage requirements of clause 2.5 of AS 2380.9.

IP68 testing of the junction boxes was conducted at an immersion depth of 1 m for 30 minutes.

The product testing component of this certificate is based on AUS Ex 2395, a certificate issued under the previous phase of the Australian Ex Certification Scheme.

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