

Type Approval Certificate

This is to certify that the undernoted product have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER Peppers Cable Glands Limited

PLACE OF PRODUCTION Stanhope Road
Camberley
Surrey, GU15 3BT
United Kingdom (UK)

DESCRIPTION Hazardous area approved cable glands, adaptors, reducers, stopping plugs and breather drains.

TYPE


	Gland Model	Type No's.	Ex Certification
Elastomeric Seal Cable Glands	CR	CR***	Ex d IIC, Ex tD A21 IP68, Ex nR II
		CRD**	
		CRO***	Ex e II, Ex tD A21 IP66
	E	E****F*	Ex d IIC, Ex e II, Ex td A21 IP68, Ex nR II
	D	D****F	
	C	C**L**E*	Ex e II, Ex td A21 IP66
	A	A*L*F	Ex d IIC, Ex e II, Ex td A21 IP68, Ex nR II
	A*LDS	A*LDS*F	

Certificate No. 10/00056

Issue Date 7 September 2010

Expiry Date 6 September 2015

Sheet 1 of 3



A.B. Gunn
London Design Support Office
Lloyd's Register EMEA

*Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS*

TYPE (cont.)

Elastomeric Seal Cable Glands	A*LC	A*LCM*F	Ex d IIC, Ex e II, Ex td A21 IP68, Ex nR II
		A*LCF*F	
	PF	PF*	Ex e II, Ex td A21 IP6X
	E8	E8X*F	Ex d IIC, Ex e II, EX td A21 IP68, Ex nR II
	D8	D8X*F	
A8	A8*F		
Barrier Cable Glands	CR-C	CRC***	Ex d IIC Gb, Ex d I Mb, Ex e IIC Gb, Ex e I Mb, Ex nR IIC Gc, Ex tb IIIC Db IP66/68, Ex tc IIIC Db IP66/68, Ex nR II
	CR-X	CRX***	
	CR-U	CRU**	
	CR-S	CRS*	
	UL-C	UL-C**	Class I, Division 1, Groups A, B, C, D
	UL-X	UL-U*	Class I, Division 2, Groups A, B, C, D
	UL-U	UL-U*	
Adaptors / Reducers	AR	AR*****	
Stopping Plugs	SPA	SPA****	Ex d IIC Gb, Ex d I Mb, Ex e IIC Gb, Ex e I Mb, Ex nR IIC Gc, Ex tb IIIC Db IP66/68 Ex nR II Gc
	SPB	SPB****	
	SPMH	SPMH*****	
	SPHH	SPHH*****	
Breather Drains	ACDP	ACDP*****	Ex e IIC Gb, Ex e I Mb, Ex tb IIIC Db IP66

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ADDITIONAL TESTS

As applicable, refer to Ex certification certificate specific products for further details on applicable standards.

EN60079-0
EN60079-1
EN60079-7
EN60079-15
EN61241-0
EN61241-1
IEC 60079-0
IEC 60079-1
IEC 60079-7
IEC 60079-31
IEC 61241-0
IEC 61241-1
CSA 22.2
UL2225
UL514B

OTHER CONDITIONS

All conditions outlined in the Ex certification certificate for specific product are to be complied with.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. 10/00056 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Sheet 3 of 3



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71 Fenchurch Street, London EC3M 4BS

DESIGN APPRAISAL DOCUMENT

Date 7 September 2010	Quote this reference on all future communications LDSO/ETS/ABG/WP2362503
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LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002.

Issued to: PEPPERS CABLE GLANDS LIMITED

**for: HAZARDOUS AREA APPROVED CABLE GLANDS, ADAPTORS, REDUCERS,
 STOPPING PLUGS AND BREATHER DRAINS
 TYPE APPROVAL CERTIFICATE No. 10/00056**

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Request Form	23.10.2009
Lloyd's Register Email	06.09.2010

DRAWINGS

Drawing F 7020 000 E Ind A	30.05.2008
Drawing PCG/ATX/SPA Issue 1	15.04.2009
Drawing PCG/ATX/SPB Issue 1	15.04.2009
Drawing PCG/ATX/SPHH Issue 1	15.04.2009
Drawing PCG/ATX/SPMH Issue 1	15.04.2009
Drawing PCG/ATX/AR Issue 1	15.04.2009
Drawing PCG/ATX/ACDP Issue 1	16.04.2009
Drawing PCG/ATX/BF Issue 4	23.07.2009
Drawing PCG/ATX/E1W Issue 5	23.07.2009
Drawing PCG/ATX/UF Issue 4	23.07.2009
Drawing PCG/ATX/A2L Issue 7	02.09.2009
Drawing PCG/ATX/CR Issue 6	02.09.2009
Drawing PCG/ATX/CRD Issue 4	02.09.2009
Drawing PCG/ATX/CR-C Issue 6	16.11.2009
Drawing PCG/ATX/CR-S Issue 4	16.11.2009
Drawing PCG/ATX/CR-U Issue 6	16.11.2009
Drawing PCG/ATX/CRO Issue 2	Undated
Drawing PCG/ULC Issue 2	Undated
Drawing PCG/ULU Issue 2	Undated

DATASHEETS

Type ACDP Catalogue page 7.1.5 draft	Undated
Type AR Catalogue page 7.1.1 draft	Undated
Type SPA and SPB Catalogue page 7.1.2 draft	Undated
Type SPHH Catalogue page 7.1.4 draft	Undated
Type SPMH Catalogue page 7.1.3 draft	Undated
Type CR-C Catalogue page 4.1.0	Undated
Type CR-X Catalogue page 4.2.0	Undated
Type CR-U Catalogue page 4.2.1	Undated
Type CR-S Catalogue page 4.3.0	Undated
Type UL-C Catalogue page 4.4.0	2008
Type UL-X Catalogue page 4.5.0	2008

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Date	7 September 2010	Quote this reference on all future communications	LDSO/ETS/ABG/WP2362503
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DATASHEETS (cont.)

Type UL-U Catalogue page 4.5.1	2008
Type CR Catalogue page 1.1.0	2010
Type E Catalogue page 1.2.0	2010
Type C Catalogue page 1.3.0	2010
Type A Catalogue page 2.1.0	2010
Type A*LDS Catalogue page 2.2.0	2010
Type A*LCF Catalogue page 2.3.0	2010
Type PF Catalogue page 2.4.0	2010
Type *8 Catalogue page 3.1.0	2009

CERTIFICATES

IECEX SIR 05.0020X Issue 1	21.11.2007
IECEX SIR 07.0096X Issue 0	07.11.2007
IECEX SIR 07.0097X Issue 0	21.11.2007
IECEX SIR 07.0099X Issue 0	21.11.2007
IECEX SIR 09.0132U Issue 0	05.03.2010
IECEX SIR 09.0131X Issue 1	27.04.2010
IECEX SIR 07.0098X Issue 2	29.04.2010
BAS01ATEX2271X Issue 6	Undated
LCIE 07ATEX6082X	Undated
LCIE 07ATEX6082X/02	Undated
SIRA 09ATEX1221X Issue 0	Undated
SIRA 09ATEX4124X Issue 0	Undated
SIRA01ATEX1270X Issue 5	Undated
SIRA01ATEX1271X Issue 8	Undated
SIRA01ATEX1272X Issue 7	Undated
SIRA03ATEX1479X Issue 7	Undated
SIRA09ATEX1320X Issue 0	Undated
SIRA09ATEX1322X Issue 1	Undated
SIRA09ATEX3321U Issue 0	Undated
SIRA09ATEX4323X Issue 1	Undated

TEST REPORTS

Underwriters Laboratories Report E248936 Section 1	09.03.2006
Underwriters Laboratories Report E248936 Section 2	20.04.2006
SIRA Test Report Number N58D22222A	17.05.2010
Production Facility Inspection Report Number SOU 1000860	09.06.2010
BSI ISO 9001:2008 Certificate Number Q 11364	20.08.2009

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DESIGN APPRAISAL DOCUMENT

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Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product referred to herein has been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.



A.B. Gunn
London Design Support Office
Lloyd's Register EMEA

Part 1B
Subject: Electrical Equipment (Not Environmentally Tested)
Product: Enclosure Systems (Part 1B)

Producer/Licence No.		Description of Product			Cert. No.
Type	Details of Approval	Application	Remarks		
Hazardous area approved cable glands, adaptors, reducers, stopping plugs and breather drains.		EN60079-0 EN60079-1 EN60079-7 EN60079-15 EN61241-0 EN61241-1 IEC 60079-0 IEC 60079-1 IEC 60079-7 IEC 60079-31 IEC 61241-0 IEC 61241-1 CSA 22.2 UL2225 UL514B	Expires: 6 September 2015 As applicable, refer to Ex certification certificate specific products for further details on applicable standards	10/00056	
Type Gland Model Elastomeric Seal Cable Glands CR	Type No's: Ex d IIC, Ex tD A21 IP68, Ex nR II As above Ex e II, Ex tD A21 IP66	<u>Ex Certification</u>	All conditions outlined in the Ex certification certificate for specific product are to be complied with.		
E D C A A*LDS A*LC PF E8 D8 A8	E***F* D***F C**L**E* A*L*F A*LDS*F A*LCM*F A*LCF*F PF* E8X*F D8X*F A8*F	Ex d IIC, Ex e II, Ex td A21 IP68, Ex nR II As above Ex e II, Ex td A21 IP66 Ex d IIC, Ex e II, Ex td A21 IP68, Ex nR II As above As above As above Ex e II, Ex td A21 IP6X Ex d IIC, Ex e II, EX tD A21 IP68, Ex nR II As above As above			
Barrier Cable Glands CR-C	CRC***	Ex d IIC Gb, Ex d IMb, Ex e IIC Gb, Ex e IMb, Ex nR IIC Gc, Ex tb IIIC Db IP66/68, Ex tc IIIC Db IP66/68, Ex nR II			
CR-X CR-U CR-S UL-C UL-X UL-U	CRX*** CRU** CRS* UL-C** UL-U* UL-U*	As above As above As above Class 1, Division 1, Groups A, B, C, D Class 1, Division 2, Groups A, B, C, D As above			

Part 1B
Subject: Electrical Equipment (Not Environmentally Tested)
Product: Enclosure Systems (Part 1B)

Producer/Licence No.	Description of Product			Cert. No.
	Type	Details of Approval	Application	
	Adaptors / Reducers AR	AR***** Ex d IIC Gb, Ex d I Mb, Ex e IIC Gb, Ex e I Mb, Ex nR IIC Gc, Ex tb IIIC Db IP66/68, Ex nR II Gc		
	Stopping Plugs SPA	SPA**** Ex d IIC Gb, Ex d I Mb, Ex e IIC Gb, Ex e I Mb, Ex nR IIC Gc, Ex tb IIIC Db IP66/68, Ex nR II Gc		
	SPB	SPB**** As above		
	SPMH	SPMH***** As above		
	SPHH	SPHH***** As above		
	Breather Drains ACDP	ACDP***** Ex e IIC Gb, Ex e I Mb, Ex tb IIIC Db IP66		

AG
7.9.2010

Approved for use in the following areas:
 Zone 0, Zone 1, Zone 2, Zone 20, Zone 21, Zone 22, Zone 23, Zone 24, Zone 25, Zone 26, Zone 27, Zone 28, Zone 29, Zone 30, Zone 31, Zone 32, Zone 33, Zone 34, Zone 35, Zone 36, Zone 37, Zone 38, Zone 39, Zone 40, Zone 41, Zone 42, Zone 43, Zone 44, Zone 45, Zone 46, Zone 47, Zone 48, Zone 49, Zone 50, Zone 51, Zone 52, Zone 53, Zone 54, Zone 55, Zone 56, Zone 57, Zone 58, Zone 59, Zone 60, Zone 61, Zone 62, Zone 63, Zone 64, Zone 65, Zone 66, Zone 67, Zone 68, Zone 69, Zone 70, Zone 71, Zone 72, Zone 73, Zone 74, Zone 75, Zone 76, Zone 77, Zone 78, Zone 79, Zone 80, Zone 81, Zone 82, Zone 83, Zone 84, Zone 85, Zone 86, Zone 87, Zone 88, Zone 89, Zone 90, Zone 91, Zone 92, Zone 93, Zone 94, Zone 95, Zone 96, Zone 97, Zone 98, Zone 99, Zone 100.