1 # EU - TYPE EXAMINATION CERTIFICATE

2 **Component Intended for use on/in an Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**

3	EU - Type Examination Certificate Number:	**Baseefa15ATEX0099U**
4	Product:	**Ex-Cell Range of Enclosures**
5	Manufacturer:	**Cooper Crouse-Hinds GmbH**
6	Address:	**Neuer Weg-Nord 49, 69412 Eberbach, Germany**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR15.0168/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2012 /A11: 2013 **EN 60079-7: 2007** **EN 60079-31: 2014**

except in respect of those requirements listed at item 18 of the Schedule.

10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following :

Ⓔx II 2G Ex e IIC Gb

Ⓔx II 2D Ex tb IIIC Db

SGS Baseefa Customer Reference No. **7025** Project File No. **12/0904**

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R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa15ATEX0099U**

15 Description of Product

The Cooper Crouse-Hinds Ex-Cell, Ex-Cell EAGLE and Ex-Cell FLUSH MOUNTED Empty Enclosures are a range of fabricated sheet metal enclosures, comprising of a body and lid with gasket arrangements, and gland plates (if applicable).

The Ex-Cell enclosures have 4 flat faces.

The Ex-Cell EAGLE enclosures have 3 flat faces and a sloping roof.

The Ex-Cell FLUSH MOUNTED enclosures have 4 flat faces and a mounting frame.

The Ex-Cell and Ex-Cell EAGLE enclosures are mounted via 4 welded stainless steel fixing lugs.
The Ex-Cell FLUSH MOUNTED enclosure is mounted via a mounting frame.

Ex-Cell	Variant	Material	Height	Width	Depth	Gland Plates	Lid Fixing	Options	Gasket Material
XL	V: Vertical mount enclosure	S1: 316L polished	23: 229mm	15: 152mm	12: 124.5	0: None	HQ: Hinge left & Qtr turn lock	T1: Tag label HPL bonded	1: Standard gasket
	H: Horizontal mount enclosure	S2: 304 polished	26: 260mm	20: 203mm	15: 152mm	1: 1 side	HB: Hinge left & bolted	S1: Tag label st/steel bonded	2: Flat gasket
	E: Eagle slope top enclosure	S3: 316L natural	160: 1600mm	26: 260mm	20: 203mm	2: 2 sides	BB: Fully bolted	S2: Tag label st/steel riveted	3: Combi-nation of 1 & 2
	F: Flush mount enclosure	S5: 304 natural	(see table below for other sizes)	(see table below for other sizes)	25: 250mm	3: 3 sides	QH: Hinge right & Qtr turn lock	HASP: Hasp lock	
		P3: 316 Decorative painted	CS: Custom size	CS: Custom size	30: 300mm	4: All sides	BH: Hinge right & bolted		
		P4: 304 Decorative painted			40: 400mm				
					CS: Custom size				

The Ex-Cell enclosures may be supplied with gland plates on one or more of the enclosure faces and there may be one or more gland plates per face.

The Ex-Cell EAGLE enclosures may be supplied with one single gland plate on the bottom face of the enclosure only.

The Ex-Cell FLUSH MOUNTED enclosures do not have gland plates.

The enclosure lid, body and gland plates are fabricated in stainless steel.

The enclosures have an Ingress Protection Rating of IP66 provided as standard by a silicone Foam In Place gasket, or an optional one piece silicone sponge flat gasket. A gasket is placed between the lid and body, and between the body and gland plates. There is also a silicone sponge gasket in the hinge/lid fixing arrangement and a sealing ring on the internal/external earth stud assembly.

The gland plates are secured using bolts into blind inserts. The lid is secured using 2 or more hinges with 1 or more quarter turn fixings. As optional alternatives, the lid may be secured using hinges and bolts or just fully bolted.

The standard Ex-Cell range comprises the following sizes:
~ FLUSH MOUNT are only 229x152x124 up to 406x406x200
~ EAGLE are only 305x305x152 up to 610x508x200

No.	ENCLOSURE SIZE (Height x Width)	DEPTH (mm)	LID / BODY THICKNESS (mm) minimum	GLAND PLATE THICKNESS (mm) Minimum
1	150 x150	80	1.5 / 1.2	No Gland Plate
2	229 x 152	124.5	1.5 / 1.2	3
3	260 x 203	152	1.5 / 1.2	3
4	260 x 260	152	1.5 / 1.2	3
5	306 x 203	152	1.5 / 1.2	3
6	306 x 260	152	1.5 / 1.2	3
7	306 x 306	203	1.5 / 1.2	3
8	406 x 306	203	1.5 / 1.2	3
9	406 x 406	203	1.5 / 1.2	3
10	406 x 508	203	1.5 / 1.2	3
11	508 x 406	203	1.5 / 1.2	3
12	508 x 508	203	1.5 / 1.2	3
13	508 x 610	203	1.5 / 1.2	3
14	610 x 406	203	1.5 / 1.2	3
15	610 x 508	203	1.5 / 1.2	3
16	610 x 610	203	1.5 / 1.2	3
17	610 x 762	203	1.5 / 1.2	3
18	762 x 508	250	1.5 / 1.2	3
19	762 x 610	250	1.5 / 1.2	3
20	762 x 762	250	1.5 / 1.2	3
21	800 x 610	250	1.5 / 1.2	3
22	800 x 800	300	1.5 / 1.2	3
23	915 x 610	300	1.5 / 1.2	3
24	915 x 762	300	1.5 / 1.2	3
25	915 x 915	300	1.5 / 1.2	3
26	1000 x 610	300	1.5 / 1.2	3
27	1000 x 800	300	1.5 / 1.2	3
28	1000 x 1000	300	1.5 / 1.2	3
29	1200 x 610	300	1.5 / 1.2	3
30	1200 x 800	300	1.5 / 1.2	3
31	1200 x 915	300	1.5 / 1.2	3
32	1200 x 1000	300	1.5 / 1.2	3
33	1200 x 1200	300	1.5 / 1.2	3
34	1524 x 915	400	1.5 / 1.2	3
35	1600 x 1000	400	1.5 / 1.2	3
36	1600 x 1200	400	1.5 / 1.2	3

Alternative size variants are permitted providing they are interpolated from within the existing size range and that lid and flange plate fixing centres are equal to or less than those given in the range shown above as specified on the certification drawings listed below.

The enclosure gland plates may be drilled with plain holes, or threaded holes if the gland plate is thick enough, for suitably certified cable glands, stopping plugs or breather/drain devices. If no gland plates are fitted then plain holes may be drilled direct in to the enclosure body face or back panel, except in the sloping roof of the Ex-Cell EAGLE. Holes may be drilled in the enclosure lid only for the use of control station accessories such as lamps and push-buttons, they shall not be used for cable gland entries. The entry hole configurations and lid hole configurations are specified in the relevant drawings listed below and in the operating instructions.

Earthing is provided by a stainless steel internal/external earth stud welded on the inside and outside of the enclosure, in a position to suit the application. As an alternative a sealed stainless steel or brass earth stud with seal washer and stud assembly may be used. The threaded stud is supplied fitted with stainless steel nuts and anti-vibration washers and saddle/anti-rotation washers.

On the inside of the enclosure there are 2 or more raised threaded inserts or threaded studs that are welded to the body, for subsequent fixing of internal components.

The enclosures may also include an optional padlock system.

The enclosures are fitted with a self-adhesive certification label on the inside of the lid. Alternatively, for apparatus/equipment marking, a stainless steel label may be secured to the lid using sealed pop rivets, or plastic labels may be glued directly to the lid or it may be screwed to an intermediate stainless steel plate that is secured to the lid by pop rivets or secured outside the lid sealing area. When plastic labels are used, electrostatic ignition risk shall be prevented by limiting the projected surface area.

Variation 0.1
The lid and body may be polished or metallic plated to suit the application. The lid and body may be painted to suit the application but the seal face areas are free from paint. The gland plates may be painted to suit the application but the seal face areas between the gland plate and the cable gland/stopping plug shall be free from paint. When the lid, body and gland plates are painted, the paint thickness is limited to:
~ 0.2mm maximum for IIC gas applications
~ 2.0mm maximum for IIA and IIB gas and IIIA, IIIB and IIIC dust applications

For 0.2mm maximum paint thickness, the marking remains unchanged:
Ex e IIC Gb Ex tb IIIC Db

For 2.0mm maximum paint thickness, the marking changes as follows to amend the gas group:
Ex e IIB Gb Ex tb IIIC Db

16 Report Number

GB/BAS/ExTR15.0168/00

17 Schedule of Limitations

1. Due to the narrow gauge of the Ex-Cell enclosures:
   ~ When a hinged lid is fitted, the enclosure shall only be mounted in a vertical orientation on a flat surface, and care is required in the installation process and when opening the hinged lid to ensure the enclosure does not distort.
   ~ When a fully bolted lid is fitted the enclosure may be mounted in any orientation but it shall be on a flat surface and care is required in the installation process to ensure the enclosure does not distort.
   Distortion will affect the sealing faces.

2. The enclosures shall not be exposed to temperatures outside the range of:
   -40°C to +80°C when fitted with standard grey foam in place gaskets
   -60°C to +135°C when fitted with optional white silicone sponge flat gaskets

3. The enclosures have an Ingress Protection Rating of IP66.

4. Cable entry holes in the gland plate, side panels or back panel shall be fitted with suitable cable glands having an equipment certificate. The operating temperature range and ingress protection rating of the enclosure is limited to that of the cable gland fitted. The plain hole shall be no larger than 0.7mm above the major diameter of the cable gland thread.

   Cable gland entries are not permitted in the enclosure lid.

5. Unused entry holes shall be fitted with suitable stopping plugs having an equipment certificate, or having a component certificate subject to the confirmation by the end user/installer of the ingress protection rating and the permitted service temperature of the component. The operating temperature range and ingress protection rating of the enclosure is limited to that of the stopping plug fitted.

6. Only equipment certified breather/drain devices may be used with these enclosures and they shall be suitable for the wall thickness of the enclosure to ensure draining can occur, subject to the confirmation by the end user/installer of the ingress protection rating and the permitted service temperature. The breather/drain devices must be installed in their correct orientation in the bottom face. The operating temperature range and Ingress Protection rating of the enclosure is limited to that of the breather/drain device fitted.

7. Only adaptor/reducer devices having an equipment certificate may be used with these enclosures subject to the confirmation by the end user/installer of the ingress protection rating and the permitted service temperature. The operating temperature range and Ingress Protection rating of the enclosure is limited to that of the adaptor/reducer device fitted.

8. When the gland plates or enclosure panels are painted, the required entry holes provided by Cooper Crouse Hinds shall not have paint on the entry hole seal faces. If cable entry holes are added by the end user in the gland plates/enclosure panels, they shall ensure that any paint is removed from the entry hole seal faces.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.2.7	Protection against other hazards
1.4	Hazards arising from external effects

19 Drawings and Documents

Number	Issue	Date	Description
GHG 960 6301 P	G	01/07/14	Gasket for Internal/External Earth Stud
752302	1	07/01/16	Ex-Cell Component Type Code
752303 Sheet 1 of 3	1	07/01/16	Ex-Cell Enclosure Range – General Assembly
752303 Sheet 2 of 3	1	07/01/16	Ex-Cell Enclosure Range – General Assembly
752303 Sheet 3 of 3	1	07/01/16	Ex-Cell Enclosure Range – General Assembly
752304 Sheet 1 of 2	1	07/01/16	Ex-Cell Enclosure Maximum Glanding Areas
752304 Sheet 2 of 2	1	07/01/16	Ex-Cell Enclosure Maximum Glanding Areas
752305	1	07/01/16	Ex-Cell Gland Plate & Gasket
752306	1	07/01/16	Ex-Cell Lid Gasket
752307	1	07/01/16	Ex-Cell Enclosure Range Ex Component Certification Label
752435	0	07/01/16	Ex-Cell EAGLE Enclosure – General Assembly
752436	0	07/01/16	Ex-Cell FLUSH MOUNT Enclosure – General Assembly
752437	0	07/01/16	Ex-Cell ¼ Turn Lock Details
752802	1	08/03/16	Painted Stainless Steel Enclosure
752857	0	07/01/16	Ex-Cell Accessories – Padlock Hasp, ID Label
752949	0	07/01/16	Silicone sealing washer

All drawings are held on IECExBAS15.0071U and common to Baseefa15ATEX0099U