



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx PTB 10.0056U issue No.: 1

Status: Current

Certificate history:  
Issue No. 1 (2013-1-21)  
Issue No. 0 (2010-10-22)

Date of Issue: 2013-01-21 Page 1 of 5

Applicant: **STEELDESIGN GmbH**  
Brüsseler Straße 6  
53842 Troisdorf  
Germany

Electrical Apparatus: **Empty enclosure type TX "e" ( \_ \_ ) ( \_ \_ \_ )**  
Optional accessory:

Type of Protection: **Increased safety "e", Protection by enclosure "tb"**

Marking: Ex e IIC Gb  
Ex tb IIIC Db

Approved for issue on behalf of the IECEx  
Certification Body:

Dr.-Ing. Uwe Klausmeyer

Position:

Head of Section "Flameproof Enclosures"

Signature:  
(for printed version)

19. MAR. 2013

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Physikalisch-Technische Bundesanstalt (PTB)**  
Bundesallee 100  
38116 Braunschweig  
Germany





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Manufacturer: **STEELDESIGN GmbH**  
Brüsseler Straße 6  
53842 Troisdorf  
Germany

Additional Manufacturing location  
(s):

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 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:

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-31 : 2008</b> Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical 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:

[DE/PTB/ExTR10.0063/01](#)

Quality Assessment Report:

[DE/TUR/QAR10.0003/01](#)



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### Schedule

**EQUIPMENT:**

*Equipment and systems covered by this certificate are as follows:*

**Description**

The empty enclosure, type TX "e"(\_ \_ \_) ((\_ \_ \_ \_)), consists of a stainless-steel housing in the types of protection Increased Safety "e" and Protection by enclosure "tb", which may be provided with flanges and hinges, which are welded to the enclosure outside the sealed areas.

Technical data

Overall sizes		Length	Width	Height
	Smallest	100 mm	100 mm	60 mm
	Largest	600 mm	420 mm	200 mm
Ambient temperatures		-40 °C to +120 °C		
Protection against solid foreign objects, water and contact		IP66 in accordance with EN 60529		

**CONDITIONS OF CERTIFICATION: NO**



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**EQUIPMENT(continued):**

**Nomenclature**

TX "e"	(	-	)	((	-	-	-	-	)
1	2	3	4	5					

- 1: Type
- 2: Height
- 3: Width
- 4: Depth
- 5: Flange A, B, C, D or article id

**Schedule of Limitations**

Installation of electrical components requires a further assessment by an ExCB.



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

- 1) The cover may be provided with hinges.
- 2) New test according to IEC 60079-0: 2011 (Ed. 6), IEC 60079-7: 2006 (Ed. 4) and IEC 60079-31:2008 (Ed.1).
- 3) New marking.

