



Marine & Offshore

Certificate number: 46469/A0 BV

File number: ACE15/778/2

Product code: 2661D

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**R. Stahl Schaltgeräte GmbH**  
Waldenburg - GERMANY

*for the type of product*

**ENCLOSURES / CABINETS / BOXES (LOW VOLTAGE)**

Terminal Boxes  
Series 8146

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships  
EC Code: 41S

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 27 Nov 2022**

**For Bureau Veritas Marine & Offshore,**

At BV HAMBURG, on 27 Nov 2017,

Dirk Hoefner



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site [www.veristar.com](http://www.veristar.com). Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 2 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

Terminal boxes of series **8146** are empty glass fibre reinforced polyester enclosures.

#### **1.2 - Variants:**

Type: 8146/ **a bb c** ...

**a** = Design: **1** for Ex e, **2** for Ex i

**bb** = Size [mm]: **03** for 112,5x112,5, **04** for 170x112,5, **05** for 170x170, **06** for 227x170  
**S7** for 340,5x170, **07** for 340,5x170, **08** for 340,5x340,5, **09** for 681,5x340,5

**c** = Height [mm]: **1** for 91, **2** for 131, **3** for 150

### 2. DOCUMENTS AND DRAWINGS:

- EK00 III en dated 2016-02-15

- 8146098000-01 dated 06.05.11, 8146095000-01 dated 18.04.11,

### 3. TEST REPORTS:

**KRIWAN:** 151121-01-01-B-01 dated 2016-02-04, 004220\_03\_C dated 03.07.2004

**SGS:** M0YJ0001 dated Jun 29, 2017

**PTB:** PTB 01 ATEX 1016 3rd supplement dated Mar 12, 2012

**VDE:** 264302-9010-0001/25125 dated 2003-01-13

### 4. APPLICATION / LIMITATION:

4.1 - Bureau Veritas Rules and Regulations for the Classification of Steel Ships

4.2 - Degree of protection IP66 only possible with appropriate cable glands.

### 5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above mentioned junction boxes are to be supplied by **R. STAHL Schaltgeräte GmbH** in accordance with the type described in this certificate.

5.2 - This type of product is within the category DBV of Bureau Veritas Rule Note NR320.

### 6. MARKING OF PRODUCT:

- Maker's name or trademark

- Equipment type number or model identification under which it was type-tested

- Date of manufacture and/or serial number

- Ex marking, as relevant

### 7. OTHERS:

7.1 - It is the responsibility of **R. STAHL Schaltgeräte GmbH** to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

\*\*\* END OF CERTIFICATE \*\*\*