



MARINE DIVISION

Certificate number: 09639/C0 BV

File number: ACE 15/681/03

Product code: 2661H

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

RITTAL GmbH & Co. KG

Herborn - GERMANY

for the type of product

ENCLOSURES / CABINETS / BOXES (LOW VOLTAGE)

Type: TS 8

Requirements:

BV Rules for the Classification of Steel Ships.

This certificate is issued to attest that BUREAU VERITAS 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: 26 Jan 2016

For BUREAU VERITAS,

At BV HAMBURG, on 26 Jan 2011,

Dirk Hoepfner



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. 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 Division available on the internet site 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 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.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Cabinets / boxes Type TS 8 (TS = Top System)

Construction:

- Multiple folded frame section (hollow section).
- Vertical profile = 16-fold with slot and round holes to facilitate assembly.
- Horizontal profile = 9-fold, with square holes and molded rain gutter.
- Welded corner connections.
- Screw-fixed roof plate, rear wall and door.
- Single or double door.
- Multiple divided and sliding gland plate.
- Roof taping screws may be exchanged against transportation eyebolts.
- Side panels screw-fixed (not included in scope of supply).
- Unlimited baying due to baying kit.

Material: sheet steel or stainless steel.

Protection category: IP 55.

2. DOCUMENTS AND DRAWINGS:

According to manufacturer's catalogue 4/99.

3. TEST REPORTS:

- Certificate issued by VDE Testing and Certification Institute (GERMANY) on 1999-04-13 (ref. 9874-1490-1002)
- Test report N° 54/99 issued by Rittal Werk on 03.May.99.
- Test report N° 69/99 issued by Rittal Werk on 03 May 99.
- Certificate issued by TUV Nr B 10 07 12010 008 dated 22.July.2010

Note: the Rittal Werk Laboratory is accredited by the Deutschen Akkreditierungs Rat (DAR).

4. APPLICATION / LIMITATION:

BV Rules for the Classification of Steel Ships.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be manufactured, examined and tested by **RITTAL GmbH & Co. KG** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

5.2 - Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end **RITTAL GmbH & Co. KG** has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

5.3 - **RITTAL GmbH & Co. KG** has declared to Bureau Veritas that the type of product described in this certificate may be manufactured at the following production site:

RITTAL GmbH & Co. KG
Auf dem Stützelberg
35745 Herborn
DEUTSCHLAND

6. MARKING OF PRODUCT:

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

7. OTHERS:

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that **RITTAL GmbH & Co. KG**, will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 09639/B0 BV issued on 18/11/2005 by the Society.

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