

CERTIFICATE NUMBER 14-gd1229101-PDA DATE 01 Jan 2015

ABS TECHNICAL OFFICE
Gdynia Engineering Department

## **CERTIFICATE OF**

# **DESIGN ASSESSMENT**

This is to certify that a representative of this Bureau did, at the request of

## ALWO SPOLKA Z.O.O

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Fan, Marine Duty, Non-Sparking

Model: WMR and WMR-EX

This Product Design Assessment (PDA) Certificate 14-gd1229101-PDA, dated 01/Jan/2015 remains valid until 01/Jan/2020 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

Jaroslaw Kondracki

Engineer

## ALWO SPOLKA Z.O.O

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**Product:** 

Fan, Marine Duty, Non-Sparking

Model:

WMR and WMR-EX

## **Intended Service:**

Fans for marine and offshore applications in non-hazardous and hazardous areas.

**Description:** 

Marine duct WMR and WMR-EX fans are destined for operation in ventilation systems of seagoing ships with unrestricted cruising area as well as offshore objects. The fans may be used as an exhaust or supply fans and be installed inside the compartments.

The fans can have non-sparking construction and, in applications with certified safe electric motors and equipment, can be installed in the hazardous areas.

Rating:

Nominal diameters: 100, 125, 160, 200.

Impeller speed: 2800 rpm (50Hz), 3400 rpm (60Hz). Casing material: PA2 aluminum sheets, welded. Impeller material: PA2 aluminum sheets, welded.

### Service Restriction:

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

### Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. 1)The electric motor and other electrical equipment for non-sparking fans are to be of certified safe type in accordance with 4-8-3/27 of ABS Steel Vessel Rules.

2)Protection screens of not more than 13mm (0.5 in) square mesh are to be fitted in the inlet and outlet of the ventilation openings either by fan vendor or shipyard, as per 4-8-3/1.1.2 of ABS Steel Vessel Rules.

Notes/Drawing/Documentation:

Drawing No. ALWO D3-01, MARINE DUCT FANS WMR (3-Phase), Revision: -, Pages: 1

Drawing No. Asbestos-free decl., Asbestos free Declaration, Revision: -, Pages: 1

Drawing No. DTR 959-00, Manual instruction-Marine Pipe Fans WMR, Revision: -, Pages: 1 Drawing No. DTR 939-00, Manual instruction-Marine Pipe Pails WMR, Revision: -, Pages: 1
Drawing No. Declaration of Asbestos-free, Asbestos free Declaration, Revision: -, Pages: 1
Drawing No. EST 01-09 05ATEX110X UK, EC-Type Certificate, Revision: -, Pages: 1
Drawing No. PTB00ATEX3108-BOX, EC-Type Examination Certificate, Revision: -, Pages: 1
Drawing No. W108 00-00, WMR 125, Revision: 0, Pages: 1
Drawing No. W108 00-01, WMR 125, Revision: 0, Pages: 1

Drawing No. W108 00-02, WMR 125, Revision: 0, Pages: 1

## Terms of Validity:

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Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS



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## Tier: 3 - Type Approved, unit certification not required

Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

## **STANDARDS**

## **ABS Rules:**

ABS Rules for Building and Classing Steel Vessels (2014) 1-1-4/7.7, 1-1-A 3 & 4, 4-8-3/11, 4-8-3/13.1;

ABS Rules for Building and Classing Offshore Support Vessels (2014) 1-1-4/7.7, 1-1-A 3 and 4, 4-8-3/11, 4-8-3/13.1; ABS Rules for Building and Classing Steel Vessels Under 90 Meters (295 Feet) in Length (2014) 1-1-A 3 and 4, 4-6-3/11.7, 4-6-3/11.3.1;

ABS Rules for Building and Classing Mobile Offshore Drilling Units (2014) 1-1-4/9.7, 1-1-A 2 and 3, 4-3-3/9.7, 4-3-3/9.3.1

ABS Rules for Building and Classing Facilities on Offshore Installations (2014) 1-1-4/9.7, 1-1-A 2 and 3, 3-6/15, 3-6/17

ABS Rules for Building and Classing Steel Barges (2014) 1-1-A 3 & 4, 4-1-3/1.

## National:

NA

### International:

IACS Req., Rev.6 - F29.3.3(iii) Non-Sparking Fans

## Government:

NA

## **EUMED:**

NA

## **OTHERS:**

NA