



**Work Order - WO0101860**  
**Product Design Assessment (PDA)**  
**Control Cabinet**  
 PDA No. 24-0012362-PDA-DUP

Attention: BERMAD INC (WCN: 883084)

The documents shown in the attached lists are reviewed in accordance with the applicable requirements indicated in the PDA along with the service restrictions and comments.

We recommend that you monitor the ABS Rules, Guides and other standards used in the Assessment. These Rules, Guides and standards often change on an annual basis, and you must comply with the new Rules, Guides and standards in order for the product to be used on an ABS classed vessel or facility contracted under the new Rules, Guides or specifications.

Additionally, we acknowledge the PDA request form warranting that the materials used in the product(s) are free from asbestos.

For any clarifications, please contact Mr. Simone Cavecchia at +39 010 2549245, ([scavecchia@eagle.org](mailto:scavecchia@eagle.org)).

Very truly yours,  
**Pier Carazzai**  
**Vice President of Engineering**

**Electronically Signed by: C. Generale**

#### Documents List

Drawing No.	Rev. No.	Title	Status
-	-	Type Approval request form	Filed by ABS for reference only

Electronic copies of the documents, appropriately stamped, are available in the ABS Client Portal.

Include: PDA Certificate



CERTIFICATE NUMBER	24-0012362-PDA-DUP
EFFECTIVE DATE	25-Jul-2024
EXPIRY DATE	24-Jul-2029
ABS TECHNICAL OFFICE	Genoa Engineering Department

# CERTIFICATE OF Product Design Assessment

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

## **BERMAD INC**

located at

**10600 TELGE ROAD, SUITE 200, , HOUSTON, TX, United States,  
77095**

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:** Control Cabinet  
**Model:** A60 or H60 Blast proof Cabinet  
**Endorsements:**  
**Tier:** 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 24/Jul/2029 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping
Simone Cavecchia, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

**BERMAD INC**

10600 TELGE ROAD, SUITE 200

HOUSTON TX

United States 77095

Telephone: 0018775774283

Fax: 001800839384

Email: info.us@bermad.com

Web: www.bermad.com

**Tier: 2 - PDA Issued**

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**Product:** Control Cabinet  
**Model:** A60 or H60 Blast proof Cabinet  
**Endorsements:**

**Intended Service:**

Containment of local and remote control panel for water, seawater and foam fire protection systems in marine, offshore and industrial applications.

**Description:**

900 x 800 x 400 mm Blast proof cabinet enclosure, having A60 fire insulation fitted on the internal walls, roof and doors of the unit; intended for containment of local and remote control panel including solenoid valve, pressure transmitter, pressure gauge, check valve, ball valves, tubes and fittings.

H60 fire proof shield is achieved with two layers of rockwool H60 insulation (30 mm SeaRox SL 660 + 40 mm SeaRox WM 660).

**Rating:**

A60 or H60 Fire Rating

Fire insulation:

A60 grade: mineral wool slabs 45mm thick

H60 grade: two layers of rockwool H60 insulation (30 mm SeaRox SL 660 + 40 mm SeaRox WM 660).

Blast Over Pressure: 2 barg

Pulse Duration: 1 second

Drag Pressure: 0,65 barg

Material of cabinet: 316 Stainless Steel

**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.

The scope of Type Approval is to comply with MSC.1/Circ.1221 dated 11 December 2006.

Overlap to be as per fire insulation material manufacturer's specification.

**Comments:**

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

**Notes/Drawing/Documentation:**

Test report No. 001, Cabinet Blast Test Simulation (BERMAD premises, Evron, 10-Feb-2014)

Drawing No. 009645, A60 blast proof cabinet

Drawing No. 035664 (A60 cabinet enclosure)

Drawing No. 035835 (H60 cabinet enclosure)

**Terms of Validity:**

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Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable

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Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

**STANDARDS**

**ABS Rules:**

2024 Rules for Conditions of Classification, 1A-1-4/7.7 & 1-1 Appendix 3 and 4, which covers the following:

2024 Rules for Building and Classing Marine Vessels, 4-8-4/1.3

2024 Rules for Conditions of Classification - Mobile Offshore Units, 1B-1-4/9.7 & 1-1 Appendix 2 and 3, which covers the following:

2024 Rules for Building and Classing Mobile Offshore Units, 4-3-1/15

**National:**

NA

**International:**

NA

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

Bermad Blast Proof Specification BS-001 Rev. 02:2014