



CERTIFICATE NUMBER

DATE

01-LD206634A/1-PDA

29 August 2006

ABS TECHNICAL OFFICE

London Ship Engineering

CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of
Rockwool A/S

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. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Fire Protection Bulkhead

MODEL: Class A-60 Aluminium Bulkhead

ABS RULE: 2006 Steel Vessel Rules 1-1-4/7.7

OTHER STANDARD: IMO FTP Code Resolution A.754 (18);

AMERICAN BUREAU OF SHIPPING

R.M.V.

Reginald M. (Mike) Bell

Engineering Type Approval Co-ordinator

Rockwool A/S
Hovedgaden 584
Hedehusene
DK-2640
Denmark
Telephone: 45-4656-1616
Fax: 45-4656-3011



Product: Fire Protection Bulkhead
Model: Class A-60 Aluminium Bulkhead

Intended Service:
Fire Protection Bulkhead

Description:
Structural Aluminium core insulated on both sides with 2 x 30mm mineral wool slabs with staggered joints. The mineral wool is Rockwool Marine Firebatts 130 and was mounted to the Aluminium bulkhead with steel pins and washers.

The constructions are made according to the FTP Code, i.e. Aluminium thickness of 6 mm for the plate and 9 mm for the stiffeners.

See Drawing: KMP dated 9 August 2000 for construction details.

Ratings:
A-60

Service Restrictions:
None (Fire can be on either side of the bulkhead)

Comments:
Our approval is based on the following documents:
1) Danish Institute of Fire Technology test report File No. PG 10699 Serial No. 7735 dated 3 October 2000.
2) Danish Institute of Fire and Security Technology test report File No. PF11991 Serial No. 9961 dated 9 February 2005.

Term of Validity:
Certificate 01-LD206634A/1-PDA, dated 29/Aug/2006 is valid for 5 years from date of issue or until the applicable Rules or standards are revised (whichever occurs first). Product use on or after 1 January 2007, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted.

STANDARDS

ABS Rules:
2006 Steel Vessel Rules 1-1-4/7.7

International:
IMO FTP Code Resolution A.754 (18)



Confirmation of Type Approval

This is to certify that, pursuant to the Rules of American Bureau of Shipping (ABS), on 03/OCT/2006 the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) and a valid Product Design Assessment (PDA) for the below listed product, entitling the product to type approval. The validity of the Manufacturing Assessment is dependent on satisfactory audits as required by the Rules. The Product Design Assessment is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

For Date of ABS Rules used for evaluation; Please refer to the ABS Rules below.

This Confirmation of Product Type Approval is valid as of the date shown above for the below listed product.

ABS makes no representations regarding type approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that the Client has full responsibility for continued compliance with the evaluation standard, whether the standard is an ABS Rule or a non-ABS Rule. As specified in the ABS Rules, Unit Certification may be required in addition to Product Type Approval. Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

Rockwool A/S Model Name(s): Class A-60 Aluminium Bulkhead

Presented to:

Rockwool A/S
Hovedgaden 584
Hedehusene
DK-2640
Denmark

Intended Service:

Fire Protection Bulkhead

Description:

Structural Aluminium core insulated on both sides with 2 x 30mm mineral wool slabs with staggered joints. The mineral wool is Rockwool Marine Firebatts 130 and was mounted to the Aluminium bulkhead with steel pins and washers. The constructions are made according to the FTP Code, i.e. Aluminium thickness of 6 mm for the plate and 9 mm for the stiffeners. See Drawing: KMP dated 9 August 2000 for construction details.

Ratings:

A-60

Service Restrictions:

None (Fire can be on either side of the bulkhead)

Comments:

Our approval is based on the following documents: 1) Danish Institute of Fire Technology test report File No. PG 10699 Serial No. 7735 dated 3 October 2000. 2) Danish Institute of Fire and Security Technology test report File No. PF11991 Serial No. 9961 dated 9 February 2005.

Notes / Documentation:

Term of Validity:

Certificate 01-LD206634A/1-PDA, dated 29/Aug/2006 is valid for 5 years from date of issue or until the applicable Rules or standards are revised (whichever occurs first). Product use on or after 1 January 2007, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted.

ABS Rules:

2006 Steel Vessel Rules 1-1-4/7.7

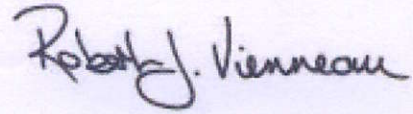
National Standards:

International Standards: IMO FTP Code Resolution A.754 (18)

Government Authority:

EUMED:

Others:



Manager, ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.