



TRANSPORT CANADA
BOARD OF STEAMSHIP INSPECTION
CERTIFICATE OF APPROVAL

TRANSPORTS CANADA
BUREAU D'INSPECTION DES NAVIRES À VAPEUR
CERTIFICAT D'APPROBATION

THIS CERTIFIES THAT THE ITEM SPECIFIED HEREIN HAS BEEN APPROVED BY THE BOARD OF STEAMSHIP INSPECTION, IN ACCORDANCE WITH THE PROVISIONS OF THE CANADA SHIPPING ACT AND REGULATIONS MADE THEREUNDER AND SUBJECT TO CONDITIONS SET FORTH ON THE REVERSE SIDE.

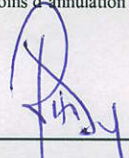
LES PRÉSENTES FONT FOI QUE L'ARTICLE MENTIONNÉ DANS LE PRÉSENT CERTIFICAT A ÉTÉ APPROUVÉ PAR LE BUREAU D'INSPECTION DES NAVIRES À VAPEUR, CONFORMÉMENT AUX DISPOSITIONS DE LA LOI SUR LA MARINE MARCHANDE DU CANADA ET DE SES RÈGLEMENTS D'EXÉCUTION ET SOUS RÉSERVE DES CONDITIONS FIGURANT AU VERSO.

ISSUED TO – TITULAIRE Rockwool A/S Hovedgaden 501 2640 Hedehusene Denmark
ITEM - L'ARTICLE FIRE RATED DECK "A-60"
DESCRIPTION A-60 Deck composed of steel deck insulated underneath, between stiffeners with 45 mm mineral wool of type "Rockwool Marine Firebatts 130" of density 130 kg/m ³ . Stiffeners are fitted inside the L-shape with "Rockwool Marine Firebatts 130" and covered with 30 mm "Rockwool Marine Wired Mat 105" on both sides and end. The bulkhead insulation is mounted with 3 mm steel pins and 38 mm steel spring washers.
REMARKS – REMARQUES <ol style="list-style-type: none"> 1. This approval is based on tests carried out by the Danak Danish Institute of Fire and Security Technology, on a prototype unit described in the fire test report. 2. The test complies with IMO FTPC part 3 and SOLAS Chapter II-2, Reg. 3.2. 3. Conditions of approval are specified on reverse side of this certificate. 4. Schedule attached forms part of this certificate. 5. The validity of this Certificate is contingent upon Det Norske Veritas EC Type-Examination Certificate remaining in force

This approval supersedes approval number N/A dated N/A
 La présente approbation remplace l'approbation n° N/A datée du N/A

This certificate is not transferable and is effective until October 31, 2010
 Le présent certificat ne peut pas être cédé et il est valable jusqu'au October 31, 2010
 Unless cancelled or suspended by proper authority, à moins d'annulation ou de suspension par l'autorité compétente.

October 12, 2005
Date


 Deputy Chairman Board of Steamship Inspection
 Vice-président du Bureau d'Inspection des navires à vapeur



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CONDITIONS OF APPROVAL

In the case of materials or devices, as set forth on the face of this certificate, that are covered by approval based on inspection by a Steamship Inspector and acceptance by the Board of Steamship Inspection (Board), the Divisional Supervisor, Steamship Inspection Service, of the Region in which the factory is located, shall be notified in sufficient time to assign an Inspector to the plant to make the necessary arrangements for inspection, testing and approval-stamping. The Certificate of Approval Number assigned for such cases is for the Board of Steamship Inspection (Board) record and product identification.

In the case of materials or devices, as set forth on the face of this certificate, the production of which is based on the issue of the Board of Steamship Inspection group approval number, the manufacturer shall place thereon a stamp or label of approval, indicating the Board of Steamship Inspection approval number, lot number, date of manufacture and description of material or device, and this stamp will be accepted by the Board as evidence of satisfactory manufacture in accordance with approved design and specification.

The approval of the article covered by this certificate is valid only as long as the article is manufactured in accordance with the details of the approved drawing specification or other data referred to; no modification of the approved design, construction or material shall be adopted until the proposed modification has been presented for consideration of the Board, and confirmation has been received that it is acceptable.

This certificate may be suspended or cancelled if the manufacturer deviates from the standards prescribed for the equipment herein specified.

CONDITIONS D'APPROBATION

Dans le cas des matériaux ou des appareils, mentionnés au recto du présent certificat, qui font l'objet d'une approbation fondée sur l'inspection par un inspecteur de navires à vapeur et l'acceptation par le Bureau d'inspection des navires à vapeur (le Bureau), le surveillant divisionnaire du Service d'inspection des navires à vapeur de la région dans lequel l'usine est située sera averti assez tôt pour pouvoir envoyer à l'usine un inspecteur qui prendra les mesures nécessaires en vue de l'inspection, des épreuves et d'apposition des marques d'approbation. Le numéro de certificat d'approbation assigné en pareil cas sert au classement au Bureau d'inspection des navires à vapeur (le Bureau) et comme identification du produit.

Dans le cas des matériaux ou des appareils, mentionnés au recto, dont la production est assujettie à l'homologation par un numéro d'approbation de groupe du Bureau d'inspection des navires à vapeur, le fabricant y apposera une estampille ou une étiquette d'approbation portant le numéro d'approbation du Bureau d'inspection des navires à vapeur, le numéro du lot, la date de fabrication et la description du matériau ou de l'appareil, et cette estampille sera acceptée par le Bureau comme preuve de fabrication satisfaisante, conforme aux plans et devis approuvés.

L'approbation de l'article visé par le présent certificat n'est valable que dans la mesure où la fabrication de cet article satisfait aux dessins, devis ou autres données approuvées; aucune modification du dessin, de la construction ou du matériau approuvé ne sera adoptée avant que la modification envisagée n'ait été présentée pour étude au Bureau, et que confirmation de son acceptabilité n'ait été reçue.

Le présent certificat pourra être suspendu ou annulé si le fabricant s'écarte des normes prescrites pour l'équipement mentionné aux présentes.

October 31, 2010

October 12, 2005

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SCHEDULE OF APPROVAL

APPLICATION / LIMITATION:

1. Approved for use as an A Class Deck – “A-60”.
2. The fire integrity of the A-60 Deck system is to be maintained where the panels are penetrated by pipes, vents trunks, etc., to the satisfaction of the attending marine safety inspector.
3. Maximum dimensions of panels are: 3420 x 3020 mm (width x height).
4. **Maximum distance between any two-stud pins:** 300 mm center as per Hull Construction Regulation.

APPROVAL DOCUMENTATION:

1. Danish Institute of Fire and Security Technology fire test report N° PG 10944 Serial N° 8276 dated October 31, 2001;
2. Det Norske Veritas EC Type Examination Certificate N° MED-B-1372, valid until December 3, 2006;
3. Det Norske Veritas Quality System Certificate of Assessment EC N° MED-D-500, valid until May 10, 2009;
4. Det Norske Veritas EC Type Examination Certificate N° MED-B-3066, valid until December 3, 2006;
5. Det Norske Veritas EC Type Examination Certificate N° MED-B-2216, valid until March 17, 2009;
6. Det Norske Veritas EC Type Examination Certificate N° MED-B-2213, valid until April 14, 2009.

CONSTRUCTION / INSTALLATION / INSULATION:

1. The construction of the A-60 Deck system must be the same as the prototype tested by DANAK and described in the test report mentioned above unless otherwise noted in this certificate.
2. The arrangement, details, and materials of construction of the assembly must be in accordance the prototype tested by DANAK as described in the above mentioned test report. No departure will be permitted without the consent of the Board of Steamship Inspection.

MARKING:

- Manual (or instructions) for installation, use and maintenance must be provided in both official languages French and English.
- It is the responsibility of the manufacturer to ensure that the container in which the material is packed is identified with respect to its trade name, type designation, assigned fire rating, certificate number and manufacturing date.

CONDITION:

1. This approval is granted on the understanding that the Board of Steamship Inspection reserves the right to require check tests to be carried out on the “A-60 Deck” system at any time and ROCKWOOL A/S, will accept the responsibility for informing ship owners, naval architects, shipbuilders and their sub-contractors of the conditions of this approval.
2. The fire resisting “A-60 Deck” system is to prove satisfactory in service and to the satisfaction of the attending Marine Safety Inspector.
3. Any decorative finishes applied to the panels are required by the regulations to have low flame spread characteristics and shall comply with Part 5 of the FTP Code.
4. This certificate may be suspended or cancelled if the manufacturer deviates from any of the conditions described herein without the prior consent of the Board of Steamship Inspection.

END OF CERTIFICATE



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