



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.

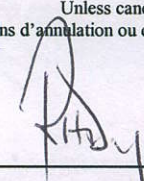
LES PRÉSENTES FONT FOI QUE L'ARTICLE MENTIONNÉ DANS LE PRÉSENT CERTIFICAT A ÉTÉ APPROUVÉ PAR LE BUREAU D'INSPECTION DES NAVIRES À VAPEUR, CONFORMÉMENT AUX DISPOSITIONS DE LA LOI SUR LA MARINE MARCHANDE DU CANADA ET DE SES RÈGLEMENTS D'EXÉCUTION ET SOUS RÉSERVE DES CONDITIONS FIGURANT AU VERSO.

ISSUED TO – TITULAIRE Rockwool A/S Hovedgaden 501 2640 Hedehusene Denmark
ITEM - L'ARTICLE NON-COMBUSTIBLE MATERIALS / INSULATION
DESCRIPTION Rockwool Marine Slab 60-250 – Stone wool of density between 60-250 kg/m³.
REMARKS – REMARQUES <ol style="list-style-type: none"> 1. This approval is based on tests carried out by the Danish Institute of Fire and Security Technology on a prototype unit described in the Fire Test. 2. This test complies with SOLAS 74 Convention Chapter II-2, Reg. 3.33, as amended and FTP Code Annex 1, part 1. 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 into force.

This approval supersedes approval number F1-249 dated October 27, 1994
 La présente approbation remplace l'approbation n° F1-249 datée du October 27, 1994

This certificate is not transferable and is effective until April 30, 2010 Unless cancelled or suspended by proper authority.
 Le présent certificat ne peut pas être cédé et il est valable jusqu'au April 30, 2010 à moins d'annulation ou de suspension par l'autorité compétente.

April 25, 2005
Date


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





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 qui 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.

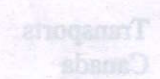
Le présent certificat pourra être suspendu ou annulé si le fabricant s'écarte des normes prescrites pour l'équipement mentionné aux présentes.

April 30, 2010

April 25, 2009



A 8700-20-1





SCHEDULE OF APPROVAL

APPLICATION / LIMITATION:

1. Approved for use as Non-Combustible Insulation when installed according to the manufacturer's instructions.
2. Approval valid for ships having to comply with SOLAS 74 Convention, as amended, and for units having to comply with IMO Resolution A649 (The "MODU Code").
3. Fire Tests were conducted using a specimen of 29 mm in thickness, a weight of 198 kg/m³.
4. Not to be used as an integrated part of fire retarding division unless tested as such.

APPROVAL DOCUMENTATION:

1. Det Norske Veritas EC Type-Examination Certificate N° MED-B-2214, valid until June 9, 2009.
2. Danish Institute of Fire and Security Technology Fire Test Report N° PF11992, dated February 3, 2005.
3. Det Norske Veritas Certificate of Assessment Certificate N° MED-D-499, valid until May 10, 2009.

CONSTRUCTION / INSTALLATION / INSULATION:

1. The composition of the Non-Combustible Material must be the same as the prototype tested by Danish Institute of Fire and Security Technology as described in the test reports mentioned above.

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 product and the container in which the material is packed is identified with respect to its trade name, type designation, name of manufacturer, 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 Non-Combustible Material at any time and that 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 manufacturer is responsible to inform Transport Canada Headquarters of the continuing validity of the certificate on which this approval is based and/or any modification made to the approved product herein, as to update the certificate to reflect those changes.
3. The Non-Combustible Material is to prove satisfactory in service.
4. The Non-Combustible Material installation is to be to the satisfaction of the attending Marine Safety Inspector.
5. 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