



NIPPON KAIJI KYOKAI

*NKK (Netherlands) B.V.*

**EC TYPE EXAMINATION CERTIFICATE**

Certificate No: 2008-50-MED

*THIS TO CERTIFY* that NKK (Netherlands) B.V., designated by the Government of The Netherlands as Notified Body according to Council Directive 96/98/EC on Marine Equipment as amended, did carry out the EC type examination procedures for the equipment and according to the specified standards as identified below:

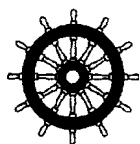
Manufacturer : Taiko Sangyo Co., Ltd.  
 Address : 9515-1 Mukaishima-Cho, Onomichi-City, Hiroshima-Pref., Japan  
 Item No. : A.1/3.26  
 Product : Penetrations through "A" class divisions  
 electric cable transits  
 Product Type : TK CABLE PROTECT  
 Specified Standards : SOLAS 74 as amended, Regulation II-2/9.3.1  
 IMO Resolutions: A.754(18), MSC.61(67) Annex 1, part 3

Attached pages regarding type examination approval documentation, test reports, conditions of the validity, product particulars and equipment approved under MED, are part of this EC-Type Examination Certificate.

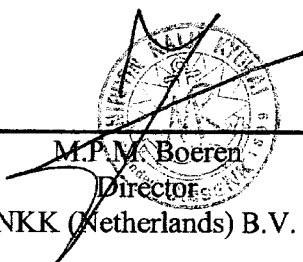
The equipment mentioned above was found to meet the specified standards in compliance with the requirements of ANNEX B, Module B of the Council Directive 96/98/EC on Marine Equipment.

This certificate is issued at Rotterdam on February 19, 2009, under the authority of the Government of The Netherlands by NKK (Netherlands) B.V., Notified Body No. 0849.

Expiry date of the Certificate: February 18, 2014.



0849

  
 M.P.M. Boeren  
 Director  
 NKK (Netherlands) B.V.

## **NKK (Netherlands) B.V.**

Attachment to **EC-Type Examination Certificate** No. 2008-50-MED, Page 1 of 2

### Type examination approval documentation:

Drawing No.	Title
TK CABLE PROTECT	A60 class penetrating system for electric cable for marine use

### Test reports:

Report No.	Title of Report or Description of Tests	Date
07-558(E)	Fire resistance test (vertical test) for "A" class cable transits (Produced by Research Institute of Marine Engineering)	26/03/08

### Conditions of the validity:

1. The products are to be manufactured in accordance with the approved production quality assurance system (Module D) or approved product quality assurance system (Module E), or are to be subjected to product verification (Module F) of the Council Directive 96/98/EC on Marine Equipment and be affixed with the Mark of Conformity.
2. Production tests are to be carried out in accordance with approved procedures.
3. If the Directive or the applied Standard(s) is amended, the product is to be re-approved in accordance with the amended requirements prior to it being supplied to vessels to which the amended Directive or Standard(s) apply.
4. The Manufacturer must inform the "Notified Body" on all modifications which may affect compliance with the requirements.

### Product particulars:

Product : A-60 Class cable transits for bulkhead

Material : TK protect  
(Ceramic fiber mat)

Continued.

**NKK (Netherlands) B.V.**

Attachment to **EC-Type Examination Certificate** No. 2008-50-MED, Page 2 of 2

Range, limitations and conditions:

- 1 To be used for bulkheads only.
- 2 The inside cross-section area of the coaming is to be not more than 800mm \* 260mm (0.208m<sup>2</sup>) and at least 200mm \* 150mm (0.03m<sup>2</sup>).
- 3 The total cross section area of the cables is to be 39% or less of the cross-section area of the coaming.
- 4 The cables must not touch the coaming.
- 5 The coaming is to be at least 65mm in length.
- 6 The diameter of the cable is to be maximum size 53mm.
- 7 Cables must be supported with in a distance of 450mm from the coaming.

The End.



NIPPON KAIJI KYOKAI

*NKK (Netherlands) B.V.*

**EC TYPE EXAMINATION CERTIFICATE**

Certificate No: 2008-51-MED

*THIS TO CERTIFY* that NKK (Netherlands) B.V., designated by the Government of The Netherlands as Notified Body according to Council Directive 96/98/EC on Marine Equipment as amended, did carry out the EC type examination procedures for the equipment and according to the specified standards as identified below:

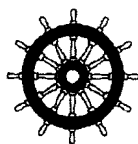
Manufacturer : Taiko Sangyo Co., Ltd.  
 Address : 9515-1 Mukaishima-Cho, Onomichi-City, Hiroshima-Pref., Japan  
 Item No. : A.1/3.26  
 Product : Penetrations through "A" class divisions  
 electric cable transits  
 Product Type : TK CABLE PROTECT  
 Specified Standards : SOLAS 74 as amended, Regulation II-2/9.3.1  
 IMO Resolutions: A.754(18), MSC.61(67) Annex 1, part 3

Attached pages regarding type examination approval documentation, test reports, conditions of the validity, product particulars and equipment approved under MED, are part of this EC-Type Examination Certificate.

The equipment mentioned above was found to meet the specified standards in compliance with the requirements of ANNEX B, Module B of the Council Directive 96/98/EC on Marine Equipment.

This certificate is issued at Rotterdam on February 19, 2009, under the authority of the Government of The Netherlands by NKK (Netherlands) B.V., Notified Body No. 0849.

Expiry date of the Certificate: February 18, 2014.



0849

  
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 M.P.M. Boeren  
 Director  
 NKK (Netherlands) B.V.

## **NKK (Netherlands) B.V.**

Attachment to **EC-Type Examination Certificate** No. 2008-51-MED, Page 1 of 2

### Type examination approval documentation:

Drawing No.	Title
TK CABLE PROTECT	A30 class penetrating system for electric cable for marine use

### Test reports:

Report No.	Title of Report or Description of Tests	Date
07-558(E)	Fire resistance test (vertical test) for "A" class cable transits (Produced by Research Institute of Marine Engineering)	26/03/08

### Conditions of the validity:

1. The products are to be manufactured in accordance with the approved production quality assurance system (Module D) or approved product quality assurance system (Module E), or are to be subjected to product verification (Module F) of the Council Directive 96/98/EC on Marine Equipment and be affixed with the Mark of Conformity.
2. Production tests are to be carried out in accordance with approved procedures.
3. If the Directive or the applied Standard(s) is amended, the product is to be re-approved in accordance with the amended requirements prior to it being supplied to vessels to which the amended Directive or Standard(s) apply.
4. The Manufacturer must inform the "Notified Body" on all modifications which may affect compliance with the requirements.

### Product particulars:

Product : A-30 Class cable transits for bulkhead

Material : TK protect  
(Ceramic fiber mat)

Continued.

**NKK (Netherlands) B.V.**

Attachment to **EC-Type Examination Certificate** No. 2008-51-MED, Page 2 of 2

Range, limitations and conditions:

- 1 To be used for bulkheads only.
- 2 The inside cross-section area of the coaming is to be not more than 800mm \* 260mm (0.208m<sup>2</sup>) and at least 150mm \* 100mm (0.015m<sup>2</sup>).
- 3 The total cross section area of the cables is to be 39% or less of the cross-section area of the coaming.
- 4 The cables must not touch the coaming.
- 5 The coaming is to be at least 65mm in length.
- 6 The diameter of the cable is to be maximum size 53mm.
- 7 Cables must be supported with in a distance of 450mm from the coaming.

The End.



# NIPPON KAIJI KYOKAI

*NKK (Netherlands) B.V.*

## EC TYPE EXAMINATION CERTIFICATE

Certificate No: 2008-48-MED

*THIS TO CERTIFY* that NKK (Netherlands) B.V., designated by the Government of The Netherlands as Notified Body according to Council Directive 96/98/EC on Marine Equipment as amended, did carry out the EC type examination procedures for the equipment and according to the specified standards as identified below:

Manufacturer : Taiko Sangyo Co., Ltd.  
 Address : 9515-1 Mukaishima-Cho, Onomichi-City, Hiroshima-Pref., Japan  
 Item No. : A.1/3.26  
 Product : Penetrations through "A" class divisions  
 electric cable transits  
 Product Type : TK CABLE PROTECT  
 Specified Standards : SOLAS 74 as amended, Regulation II-2/9.3.1  
 IMO Resolutions: A.754(18), MSC.61(67) Annex 1, part 3

Attached pages regarding type examination approval documentation, test reports, conditions of the validity, product particulars and equipment approved under MED, are part of this EC-Type Examination Certificate.

The equipment mentioned above was found to meet the specified standards in compliance with the requirements of ANNEX B, Module B of the Council Directive 96/98/EC on Marine Equipment.

This certificate is issued at Rotterdam on February 19, 2009, under the authority of the Government of The Netherlands by NKK (Netherlands) B.V., Notified Body No. 0849.

Expiry date of the Certificate: February 18, 2014.



0849

  
 M.P.M. Boeren  
 Director  
 NKK (Netherlands) B.V.

**NKK (Netherlands) B.V.**

Attachment to **EC-Type Examination Certificate** No. 2008-48-MED, Page 1 of 2

Type examination approval documentation:

Drawing No.	Title
TK CABLE PROTECT	A60 class penetrating system for electric cable for marine use

Test reports:

Report No.	Title of Report or Description of Tests	Date
07-559(E)	Fire resistance test (horizontal test) for "A" class cable transits (Produced by Research Institute of Marine Engineering)	26/03/08

Conditions of the validity:

1. The products are to be manufactured in accordance with the approved production quality assurance system (Module D) or approved product quality assurance system (Module E), or are to be subjected to product verification (Module F) of the Council Directive 96/98/EC on Marine Equipment and be affixed with the Mark of Conformity.
2. Production tests are to be carried out in accordance with approved procedures.
3. If the Directive or the applied Standard(s) is amended, the product is to be re-approved in accordance with the amended requirements prior to it being supplied to vessels to which the amended Directive or Standard(s) apply.
4. The Manufacturer must inform the "Notified Body" on all modifications which may affect compliance with the requirements.

Product particulars:

Product : A-60 Class cable transits for deck  
Material : TK protect  
(Ceramic fiber mat)

Continued.

**NKK (Netherlands) B.V.**

Attachment to **EC-Type Examination Certificate** No. 2008-48-MED, Page 2 of 2

Range, limitations and conditions:

- 1 To be used for decks only.
- 2 The inside cross-section area of the coaming is to be not more than 800mm \* 260mm (0.208m<sup>2</sup>) and at least 150mm \* 100mm (0.015m<sup>2</sup>).
- 3 The total cross section area of the cables is to be 39% or less of the cross-section area of the coaming.
- 4 The cables must not touch the coaming.
- 5 The coaming is to be at least 65mm in length.
- 6 The diameter of the cable is to be maximum size 53mm.

The End.