

TYPE EXAMINATION CERTIFICATE

This is to certify:

That the Insulation Materials for Gas Carriers

with type designation(s)
Stainless Steel Corners and Anchor Strips

Issued to

Kyung Sung Industry Co., Ltd.
Busan, Republic of Korea

is found to comply with
Gaztransport & Technigaz Specification Nr. M3108, Stainless Steel Corners, Rev. B, Nov 2011
Gaztransport & Technigaz Specification Nr. M3109, Anchor Strips, Rev. 2.1, April 2014

Application :

For use in MARK III type LNG carriers built under GTT's license.

Issued at **Høvik** on **2016-04-12**

for **DNV GL**

This Certificate is valid until **2021-04-11**.

DNV GL local station: **Pusan**

Approval Engineer: **Gisle Hersvik**

Arnstein Gloppen
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Examination Certificate and not to the approval of equipment/systems installed.

Product description

Stainless Steel Corners and **Anchor Strips**.

Application/Limitation

The material is only approved for use in MARK III type LNG carriers built under licence from GAZTRANSPORT & TECHNIGAZ SAs (GTT). Deliveries to actual shipbuilding projects shall be in compliance with the:

- "Stainless Steel Corners" Specification, GTT document no. M3108, Rev. B, Nov. 2011,
 - "Anchor Strips" Specification, GTT document no. M3109, Rev. 2.1, April 2014,
- and the product shall have a valid approval from GTT.

Type Examination documentation Tests carried out

Type Testing carried out in accordance with **Type Examination documentation**.

Marking of product

Product shall be marked with *manufacturer's name, place of production* and *type designation*.

The marking is to be carried out in such a way that it is visible, legible and indelible. The marking of product is to enable traceability to the DNV GL Type Examination Certificate.

Periodical assessment

The scope of the Periodical Assessment is to verify that the conditions stipulated for the Type Examination is complied with and that no alterations are made to the product design or choice of materials.

Periodical Assessment to be performed after 2 years (Certificate Retention) and at renewal after 5 years (Certificate Renewal).

The main elements of the Periodical Assessment are to:

- Ensure that **Type Examination documentation** is available.
- Review design, materials, production process, and performance with respect to possible changes, in order to ensure compliance with **Type Examination documentation** and/or referenced material specifications.
- Ensure traceability between manufacturer's product marking and the DNV GL Type Examination Certificate.

END OF CERTIFICATE