



Certificate no.:
TAF00001VG

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Class A and B Penetration**

with type designation(s)
Sealpro GF-100

issued to

Shin Han Chemical Co., Ltd.
Gwangju, Jeollanam-do,, Republic of Korea

is found to comply with

DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021
DNV rules for classification – Ships
DNV offshore standards

Application:

Approved for use as a cable penetration system in class A-0 and A-60 steel bulkheads and decks.

This certificate is recognized by Transport Canada.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2024-01-31**

This Certificate is valid until **2029-01-30**.

for **DNV**

DNV local unit: **Mokpo**

Approval Engineer: **Izabela Misztal**

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 Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

"Sealpro GF-100"

Is a cable penetration system composed of a 100 mm long coaming of at least 3.25 mm thickness and is welded to the division. Putty compound is wrapped around the cables and filled in the remaining space between coaming and cables.

For further details, see drawings listed under Type Approval documentation below.

Application/Limitation

Approved for use as a cable penetration system in class A-0 and A-60 bulkheads and decks.

For A-15 and A-30 applications, the penetration shall be insulated as for A-60 and the division is to be fitted with A-60 insulation for a minimum distance of 200 mm around the penetration.

Approved cable penetration in A-0 steel bulkhead:

Type	Size [mm]	Coaming thickness [mm]	Coaming length [mm]	Filling rate [%]	Max. cable diameter [mm]	Coaming position	Coaming insulation
Sealpro GF-100	Ø48.6 - Ø318.5	3.25 - 7	100	1 - 29.3	56	Symmetrical	No
Sealpro GF-100	150 x 100 - 610 x 310	6	100	1.2 - 29.3	56	Symmetrical	No

Approved cable penetration in A-60 steel bulkhead:

Type	Size [mm]	Coaming thickness [mm]	Coaming length [mm]	Filling rate [%]	Max. cable diameter [mm]	Coaming position	Coaming insulation
Sealpro GF-100	150 x 100 - 610 x 310	6	100	1.2 - 31	52	Symmetrical	Partially insulated

Approved cable penetration in A-0 steel deck:

Type	Size [mm]	Coaming thickness [mm]	Coaming length [mm]	Filling rate [%]	Max. cable diameter [mm]	Coaming position	Coaming insulation
Sealpro GF-100	Ø48.6 - Ø318.5	3.25 - 7	100	1 - 26	37	Symmetrical	No
Sealpro GF-100	150 x 100 - 610 x 310	6	100	1.2 - 31	52	Symmetrical	No

Approved cable penetration in A-60 steel deck:

Type	Size [mm]	Coaming thickness [mm]	Coaming length [mm]	Filling rate [%]	Max. cable diameter [mm]	Coaming position	Coaming insulation
Sealpro GF-100	150 x 100 - 610 x 310	6	100	1.2 - 31	52	Symmetrical	Partially insulated

Watertightness and gas tightness is not covered in this certificate.

Each product is to be supplied with installation manual, use and maintenance.

Type Approval documentation

Certification in accordance with Class Programme DNV-CP-0338, September 2021.

Test Report nos. for bulkhead:

KOMERI-0402-17T0570 dated 23 September 2017 from KOMERI, Busan, Korea.
KOMERI-0402-17T0572 dated 27 November 2017 from KOMERI, Busan, Korea.
KOMERI-0402-17T2702 dated 27 November 2017 from KOMERI, Busan, Korea.
KOMERI-0402-17T0573 dated 27 November 2017 from KOMERI, Busan, Korea.
KOMERI-0402-18T1402 dated 25 June 2018 from KOMERI, Busan, Korea.
KOMERI-0402-19T0192 dated 30 April 2019 from KOMERI, Busan, Korea.

Test Report nos. for deck:

KOMERI-0402-17T0571 dated 23 August 2017 from KOMERI, Busan, Korea.

KOMERI-0402-17T0574 dated 22 November 2017 from KOMERI, Busan, Korea.
KOMERI-0402-18T1403 dated 22 June 2018 from KOMERI, Busan, Korea.
KOMERI-0402-19T0193 dated 20 April 2019 from KOMERI, Busan, Korea.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation and fire-technical rating.

Transport Canada Approval

Based on the procedures laid down in the Transport Canada publication entitled "Procedures for Approval of Life-Saving Appliances, Fire Safety Systems, Equipment and Products (TP14612)", DNV confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

Periodical assessment

DNV's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Programme DNV-CP-0338, Section 4.