DNV·GL

Certificate No:
MEDB000025T

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Penetrations through "A" class divisions: pipe, duct, trunk, etc penetrations

with type designation(s)
FS-60 Bulkhead, Deck Pipeline Fire-resistant Penetration Device

Issued to
Shenzhen Foresight Co. Ltd.
Shenzhen, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2015/559,**
Annex A.1, item No. A.1/3.26b and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation II-2/9, IMO MSC/Circ.1276 and IMO 2010 FTP Code

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2017-08-17**.

Issued at **Høvik** on **2017-01-30**

DNV GL local station:
China South CMC/ SIO

Approval Engineer:
Fryderyk Hoga

Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

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Product description

"FS-60 Bulkhead, Deck Pipeline Fire-resistant Penetration Device"
a plastic, metal pipe penetration system composed of a "FS-60H" or "FS-60M" fire stoping gasket, wrapped around the pipe and steel sleeve welded to the bulkhead/deck. The pipe is sealed at two ends with the accompanying silicon sealant.

For further details, see approved drawings and test report listed under Type Examination documentation below.

Application/Limitation

Approved for use as a single plastic pipe penetration system in class A-60 steel bulkheads and decks. Other applications are subject to case-by-case approval. Class A-0, A-15 and A-30 penetrations shall be insulated as class A-60 and in addition the division is to be insulated at least 200 mm around the penetration.

The insulation material used has to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

The penetration is approved for installation in steel bulkheads/deck. Other applications are subject to case-by-case approval.

Type	Penetration dimmensions [mm]			Sleeve dimmensions [mm]		
	Internal diameter (min.–max.)	External diameter (min.–max.)	Length (min.–max.)	External diameter (min.–max.)	Thickness (min.–max.)	Length (min.–max.)
FS-60 H	16-168	35-197	95-130	42-219	3.5-10	105-150
FS-60 M	16-168	35-197	115-140	42-219	3.5-10	135-160

Each product is to be supplied with its manual for installation and maintenance. The manual shall include the drawings mentioned under type examination documentation.

Type Examination documentation

Test reports No. FT10225 and FT10226 both dated 29 July 2010 from Far East Fire Testing Center, Shanghai, China.

Drawings No. FS-60 091201, FS-60 091202, FS-60 091203, FS-60 091204, FS-60 091205 all from manufacturer.

Statement to the test reports No. FT10225 and FT10226 from manufacturer dated 12 July 2012.

Tests carried out

Tested according to IMO FTPC Part 3 and in compliance with IMO 2010 FTP Code Ch. 8.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, fire technical rating, the MED Mark of Conformity and USCG Approval Number if applicable (see first page).