

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 Norway.

This is to certify:

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

with type designation(s)

YB-MGM F, YB-MGM Y and YB-MGM YD

Issued to

Shanghai Yibo Shipping Co., Ltd
Shanghai, China

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2019/1397,**

item No. MED/3.26b. SOLAS 74 as amended, Regulation II-2/9, IMO MSC.1/Circ.1276, IMO 2010 FTP Code and IMO MSC.1/1488

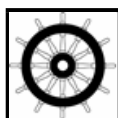
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-05-06.**

Issued at **Høvik** on **2020-05-07**

DNV GL local station:
Shanghai

Approval Engineer:
Helge Bjørnara



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2019 dated February 22nd, 2019.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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

"YB-MGM F", "YB-MGM Y" and "YB-MGM YD",
consisting of a symmetrically fitted rectangular/circular steel sleeve system welded to a steel section. The sleeve is filled with YB-MK halogen free rubber fire flame retardant rubber modules and stay plate between each module and fastened with YB-YJK pressing block. For dimensions see table below.

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

Application/Limitation

Approved for use as a pipe penetration system in class A-0 to A-60 steel bulkheads and decks. Approved for use in class A-15 and A-30 when the penetration system is insulated as for A-60.

Type	Dimensions (W x H) [mm]	Sleeve Length [mm]	Sleeve Thickness [mm]	Max pipe size (OD) [mm]	Bulkhead/ Deck
YB-MGM F	140 x 120 – 140 x 300	60	10	Ø80 steel Ø20 copper	A-0 to A-60
YB-MGM Y	Ø63.5 - Ø219	74 – 84	6 - 8	Ø80 steel	A-0 to A-60
YB-MGM YD	Ø52 - Ø164	65	6	Ø80 steel	A-0-to A-60

Insulation bulkhead/deck penetrations for A-15 to A-60:

Penetrations are to be partially insulated. In addition the pipes are to be insulated with 20 mm thick ceramic wool with density of at least 170 kg/m³ at least 100 mm along the pipes on both sides of bulkhead/deck.

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

Type Examination documentation

Test Report No. FT13215 dated 19 August 2013 from FEFTC, Shanghai, China.

Test Report No. FT13216 dated 19 August 2013 from FEFTC, Shanghai, China.

YB-MGM F:

Drawing Nos. 681YB-206-00, 681YB-207-00, 681YB-211-00, 681YB-214-00, 681YB-221-00, 681YB-229-00, 681YB-231-00, 681YB-233-00 dated July 2013 from manufacturer.

YB-MGM Y:

Drawing Nos. 681YB-202-00, 681YB-205-00, 681YB-209-00, 681YB-210-00, 681YB-223-00, 681YB-230-00, 681YB-232-00, 681YB-234-00 dated July 2013 from manufacturer.

YB-MGM YD:

Drawing Nos. 681YB-203-00, 681YB-208-00, 681YB-213-00, 681YB-222-00, 681YB-225-00, 681YB-228-00 dated July 2013 from manufacturer.

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 and address of manufacturer, type designation, fire technical rating, MED Mark of Conformity and USCG approval if applicable (see first page).

**Additional application/information for watertightness/gastightness
(Not part of the Marine Equipment Directive requirement)**

Product description

"YB-MGM F", "YB-MGM Y" and "YB-MGM YD",
Consisting of a symmetrically fitted rectangular/circular steel sleeve system welded to a steel section.
The sleeve is filled with YB-MK halogen free rubber fire flame retardant rubber modules and stay plate
between each module and fastened with YB-YJK pressing block. For dimensions see table below.

Application/Limitation

Approved for water tightness up to a design pressure of 0.40 MPa (4.0 bar), test pressure - 0.60 MPa (6.0 bar).

Approved for air tightness up to a design pressure of 0.28 MPa (2.8 bar), test pressure - 0.42 MPa (4.2 bar).

The penetration system is not to be used for penetrating boundaries of tanks.

Type Approval documentation

Test Report No. YB-WGP-08 dated 16 June 2013 from maker and witnessed by DNV.

Tests carried out

DNV Standard for Certification No. 2.9, Program 8-471.19-1 (water- and gastightness).