

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB0000212
Revision No:
1

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 AS under the authority of the Government of Norway.

This is to certify:

That the Rocket parachute flares (pyrotechnics)

with type designation(s)
HGS40-30000

Issued to

Qingdao Good Brother Marine Lifesaving Appliances Co. Ltd.
QINGDAO, China

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

Regulation (EU) 2021/1158,

item No. MED/1.8. SOLAS 74 as amended, Regulation III/4, III/6, III/34 & X/3, LSA Code and 2000 HSC Code 8

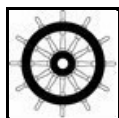
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2027-01-03**.

Issued at **Høvik** on **2022-01-04**

DNV local station:
Qingdao NB & CMC

Approval Engineer:
Tessa Biever



Notified Body
No.: **0575**



for **DNV AS**

Digitally Signed By: Øyvind Hoff
Location: DNV Høvik, Norway
on behalf of

Sverre Olav Bergli
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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 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

"HGS40-30000"

rocket parachute flares ejecting a red flare on a parachute at 300 m altitude with burning time not less than 40 seconds and with average luminous intensity of minimum 30.000 candela.

Tested with drop height: 18 m.
Design weight: 400 g.

Application/Limitation

Approved for use as Rocket parachute flares (pyrotechnics).

Acceptable lifetime: expiration date not to exceed 36 months after month of manufacture.

The liferaft drop test shall be performed when the product is installed in liferafts which have an installation height of more than 18 metres.

The design assessment is based on IMO Res. MSC.48(66) as amended by IMO Res. MSC.207(81) and IMO Res. MSC.218(82).

A statistically adequate sample of the production shall be tested in accordance with IMO Res. MSC.81(70), Part 2, Ch.4.

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

Type Examination documentation

Test report from tests performed at Qingdao Good Brother Marine Lifesaving Appliances Co. Ltd. Qingdao, China 26th April 2006 witnessed by DNV GL Qingdao.

Test report from colour test performed 17th October 2006 witnessed by DNV GL Qingdao.

Drawings from manufacturer for HGS40-30000 dated June 2003

Tests carried out

Tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC.81(70) Part 1, as amended by IMO Res. MSC.226(82), and IMO Res. MSC.323(89).

Marking of product

The product is to be marked with name and address of manufacturer, type designation, date of manufacture, date of expiry, operational restrictions, the MED Mark of Conformity and USCG number if applicable (see first page).

The product should be provided with brief instructions or diagrams clearly illustrating the use printed on the casing.

QS - CERTIFICATE OF ASSESSMENT - EC (MODULE D)

Certificate No:
MEDD00001N7
Revision No:
5

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 AS under the authority of the Government of Norway.

This is to certify:

That the Quality System for the products

with type designation(s) as specified in the Appendix to this Certificate

Issued to

Qingdao Good Brother Marine Lifesaving Appliances Co. Ltd.
QINGDAO, China

is found to comply with the applicable requirements.

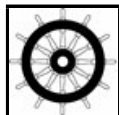
The quality system has been assessed with respect to the procedure of conformity assessment described in Annex II, Module D in the directive 2014/90/EU and regulation (EU) 2022/1157.

This Certificate is valid until **2028-09-02**.

Issued at **Høvik** on **2023-09-04**

DNV local unit:
Qingdao NB & CMC

Approval Engineer:
Helge Bjørnara



Notified Body
No.: **0575**

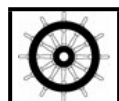


for **DNV AS**

Digitally Signed By:
Kristin Grønnæss Hovden
Location: DNV Høvik, Norway
on behalf of

Sverre Olav Bergli
Head of Notified Body

The manufacturer is allowed to affix the U.S. Coast Guard approval number(s) as stated in the appendix attached hereto and 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.



0575/yyyy

0575: Notified Body number undertaking quality surveillance
yyyy: The year in which the mark is affixed



The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate authorizes the manufacturer in conjunction with the valid EC Type Examination (Module B) Certificate(s) of the equipment listed before to affix the Mark of Conformity (wheelmark) to the product described herein.
This certificate loses its validity if the manufacturer makes any changes to the approved quality system which have not been notified to and agreed with the notified body named on this certificate. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
The Manufacturer has to apply for periodical audits to verify the maintenance and application of the quality system every 12 months.

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.



APPENDIX

Item no. MED/1.10 Buoyant smoke signals (pyrotechnics)

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
CCY3-2 ¹	MEDB0000213 Rev.1	2027-01-03	0575	160.122/EC0575 /MEDB0000213 Rev.1

Item no. MED/1.11 Line-throwing appliances

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
PSQ230 ¹	MEDB000020Z Rev.1	2027-01-03	0575	160.040/EC0575 /MEDB000020Z Rev.1

Item no. MED/1.29 Embarkation ladders

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
ISO5489-S12-L4 to ISO5489-S180-L60 ¹	MEDB00004WG Rev.1	2024-11-06	0575	160.117/EC0575 /MEDB00004WG Rev.1

Item no. MED/1.3 Lifebuoys self-activating smoke signals

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
QCYD15-2-2 ¹	MEDB0000211 Rev.1	2027-01-03	0575	160.157/EC0575 /MEDB0000211 Rev.1

Item no. MED/1.8 Rocket parachute flares (pyrotechnics)

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
HGS40-30000 ¹	MEDB0000212 Rev.1	2027-01-03	0575	160.136/EC0575 /MEDB0000212 Rev.1

Item no. MED/1.9 Hand flares (pyrotechnics)

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
HHY60-15000 ¹	MEDB0000210 Rev.1	2027-01-03	0575	160.121/EC0575 /MEDB0000210 Rev.1

Item no. MED/4.49 Pilot ladder



Job Id: 344.1-001569-13
Certificate No: MEDD00001N7
Revision No: 5

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
ISO799-1-S12-L3 to ISO799-1-S90-L3 ¹	MEDB00004WJ Rev.1	2024-11-06	0575	N/A

Places of production

1.Qingdao Good Brother Marine Lifesaving Appliances Co. Ltd., East of Fushan Road, Jiangshan Industry Zone,, Jiangshan Town,, Laixi City, QINGDAO, China



EUROPEAN COMMUNITY DECLARATION OF CONFORMITY

We hereby declare that the following specified equipment compliance with the
Marine Equipment Directive 2014/90/EU

Equipment description	: Rocket Parachute Flares
Type	: HGS40-30000
Serial number	: G23501~G24200
Manufacture	: Qingdao Good Brother Lifesaving Appliance Co., Ltd.
Manufacture Address	: East of Fushan Road, Jiangshan Industry Zone, Jiangshan Town, Laixi City, Qingdao, China.

This equipment has been tested to verify compliance with following regulation and testing standards:

(EU) 2022/1157, SOLAS 74 Reg. III/4, SOLAS 74 Reg. X/3, IMO Res. MSC.81(70), as amended, ISO

15736: 2006.:

EC Type- Examination Certificate (Module B) No.	: MEDB0000212
Issued by	: DNV AS / 0575

Quality System Certificate (Module D& E) No.	: MEDD00001N7
Issued by	: DNV AS / 0575

Certification of Conformity (Module F & G) No.	: /
Issued by	: DNV AS /0575

The technical documentation for this equipment is retained at the following address:

East of Fushan Road, Jiangshan Industry Zone, Jiangshan Town, Laixi City, Qingdao, China.

Place: Qingdao

Date: 01/11/2023

Appointed by the manufacture as the responsible person
For signing this Declaration

