

# 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 Fire Doors

with type designation(s)  
**U-FR-100**

Issued to

**Ucalso Industrial Vigo S.L.**  
**Vigo, Pontevedra, Spain**

is found to comply with the requirements in the following Regulations/Standards:  
Regulation (EU) 2019/1397,  
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511, IMO MSC.1/Circ.1319

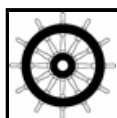
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-07-22**.

Issued at **Høvik** on **2020-07-23**

DNV GL local station:  
**NB/CMC Team West**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

### "U-FR-100"

is a single leaf hinged door with single handle opening. The door is composed of frame, one door blade, locking arrangements and sealing material. The door leaf is constructed of 6 mm thick steel panel and is reinforced by four horizontal FB stiffeners 40 x 12 mm.

Total door leaf thickness is 46 mm.

The door leaf is supported by two steel hinges and the leaf is closed to the door frame by means of 4 locking points and one door lock.

The door frame is made of 8 mm thick steel plate fixed to the bulkhead by means of welding. An intumescent strip of type "SEALBFIRE" by NEDYS with cross-section 30 x 2 mm is fitted along the whole perimeter between the leaf and frame.

The door may be fitted with a 10 mm thick window type "PYROCLEAR M60-003" manufactured by Pilkington.

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

## Application/Limitation

The door is approved for installation in steel bulkheads of class A-0. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

|                                          |                       |
|------------------------------------------|-----------------------|
| Max. clear door opening:                 | 800 x 1850 mm (W x H) |
| Max. size of door blade:                 | 858 x 1908 mm (W x H) |
| Maximum clear opening of window glazing: | 400 x 500 mm (W x H)  |

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

Note that this is a fire safety certificate which only covers fire technical properties (i.e. not to cover strength evaluations related to watertightness, weathertightness, etc.).

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

## Type Examination documentation

Test report No. 085439-001-a dated 29 May 2020 from Tecnia Research & Innovation, Azpeitia, Spain.

Dwg. No. U-FR-100/01 dated 8 May 2020 from manufacturer.

Dwg. No. U-FR-100W/01 dated 8 May 2020 from manufacturer.

## Tests carried out

Tested according to IMO 2010 FTP Code part 3.

## Marking of product

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

## USCG approval limitations

The approval is limited to fire doors without windows and doors with total window area of 645 cm<sup>2</sup>, or less, in each door leaf. For larger windows, USCG shall be contacted.