

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Class H Door**with type designation(s)
S100S - Single Sliding (H120)

Issued to

Rapp Bomek AS
Bodø, Norwayis found to comply with
DNV GL offshore standards**Application :****Approved for use as an integrated part of fire retarding divisions of class H-120.****Restricted application: Fire from rail mount side only.**Issued at **Høvik** on **2020-07-02**This Certificate is valid until **2022-07-11**.for **DNV GL**DNV GL local station: **Norway Fleet in Service, Mid-North**Approval Engineer: **Helge Bjørnarå**

Øyvind Hoff
Head of Section

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 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

S100S - Single Sliding (H120),

is a single leaf sliding door constructed from 4 mm thick steel plates on both sides of an insulating core consisting of two layers of 38 mm mineral fibre insulation wool of type Firemaster 607 (density 128 kg/m³), one layer of 25 mm mineral fibre insulation wool of type Firemaster X607 (density 128 kg/m³) and two layers in the middle of total 10 mm calcium silicate insulation boards of type Supalux (density 875 kg/m³). The insulating core is glued to the steel plates with adhesive of type Conlit Kleber.

Total door leaf thickness is 130 mm.

The door frame may be welded or bolted (M12 bolts c/c 296 mm) to the bulkhead. The 4 mm thick door frame is insulated with Firemaster 607 (density 128 kg/m³), including insulation rope gaskets of type SILICA-FIB Ø25-30. The railing arrangement above the door, incl. brackets, rollers, etc. is protected with a 4/8 mm thick cover (track house), fixed to the head of the frame by welding.

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

Application/Limitation

The door is approved for installation in steel bulkheads of class H-120. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Restricted application: Fire from rail mount side only.

Maximum clear opening door:	2480 x 2860 mm (W x H)
Maximum size of door leaf:	2871 x 3028 mm (W x H)

Any surface materials used have to be approved for smoke and toxicity and low flame spread characteristics (IMO 2010 FTP Code parts 2 and 5) when required according to relevant rules.

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code part 5

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

Type Approval documentation

Certification in accordance with Class Program DNVGL-CP-0338, September 2018.

Test report No. 09-G-098 dated 17 March 2009 from Efectis, Maizières-lès-Metz, France.

Dwg. No. RB307952W, Rev. A, (7 sheets) dated 11 December 2008 from manufacturer.

Tests carried out

Tested according to IMO FTP Code Part 3 (IMO Res. A.754(18)) with furnace temperature following the hydrocarbon curve according to ISO 834-3.

Marking of product

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

Periodical assessment

DNV GL'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 DNVGL-CP-0338, Section 4.