DNV·GL

Certificate No:
TAF000012V

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class A Door

with type designation(s)
A0 Roller Shutter

Issued to
Bolton Gate COMPANY Ltd
Bolton, United Kingdom

is found to comply with
DNV GL offshore standards
DNV GL rules for classification – Ships
DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations

Application :

Approved for use as an integrated part of fire retarding divisions of class A-0.

Restricted application: fire from guide rail side

This certificate is recognized by Transport Canada.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Issued at **Høvik** on **2018-11-08**
This Certificate is valid until **2023-11-07**.
DNV GL local station: **Manchester**

Approval Engineer: **Marcin Tobiasz**

for **DNV GL**

Mårten Schei-Nilsson
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.

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Product description

"A0 Roller Shutter"
A fire resistant steel curtain (rolling shutter door) that can be opened and closed both electrically and manually. It is made of 51 mm high and 0.9 mm thick steel laths that are chained together and can be rolled up behind a reel cover plate. The top lath is fixed by M10 setscrews and washers to a 3 mm thick barrel with diameter 133 mm. Alternate laths are fitted with die cast zinc end locks. The first shutter lath is fixed by bolting to a 40 mm x 3427 mm beam made of 6 mm steel (described as the bottom rail).

The steel curtain open and close along shutter guide channels (frame) fixed vertically on each side of the curtain. These channels are made of 3 mm thick steel profiles (52 mm x 25 mm). The guide channels are connected to the steel bulkhead using M8 setscrews/nuts/washers (c/c 150 mm). The guide channels may also be welded to the steel bulkhead.

The steel curtain may be produced in the following steel qualities: Mild steel, grade 304 or 316 stainless steel.

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

Application/Limitation

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

Restricted application: fire from guide rail side

Max. clear opening: 3380 mm x 2675 mm (W x H).
Fire Shutter Door dimensions: 3427 mm x 3150 mm (W x H).

The roller shutter curtain shall be capable of being closed from both sides of the bulkhead.

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

A fire door of marginally larger dimensions than a fire-tested fire door may be individually assessed and accepted by Flag Administration (or Recognized Organization acting on its behalf) for a specific project with the same classification, provided documented compliance with IMO MSC.1/Circ.1319.

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

Type Approval documentation

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

Test report No. VTT-S-9021-08 dated 12 November 2008 from VTT, Finland.

Drawing Nos. 080290/3001-3010 from maker.

Tests carried out

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

The door has been successfully tested for extended test period of 68 minutes.

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

Transport Canada Approval
Based on the procedures laid down in the Transport Canada Publication entitled "Approval Procedures for, Life Saving Equipment and Structural Fire Protection Products (TP 14612)", DNV GL confirms that the products listed in this certificate are in accordance with Transport Canada's requirements.

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.