Certificate No:
TAF00001S5

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class A Door

with type designation(s)
A60-HD Acoustic Fire Door

Issued to
2 JCP Limited
Ripley, Derbyshire, United Kingdom

is found to comply with
DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021
DNV rules for classification – Ships
DNV offshore standards

Application :

Approved for installation in steel bulkheads of class A-60.

This certificate is recognized by Transport Canada.

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

Issued at **Høvik** on **2022-11-21**
This Certificate is valid until **2027-11-20**.
DNV local unit: **Ostrava**

for **DNV**

Approval Engineer: **Kristin Grønnæss Hovden**

Jowita Permoda
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.

Product description

"A60-HD Acoustic Fire Door"
is a single leaf hinged door constructed of an insulated core consisting of two layers of 50 mm thick ceramic insulation of type "FyreWrap LT Blanket" (density 64 kg/m^3, manufactured by UNIFRAX). The insulation is fixed to a 5 mm thick carbon steel sheet on one side and 1.5 mm thick stainless steel sheet on the other side by means of steel pins (M3 washers and nuts, c/c max. 224 mm). Two vertical angle bar- and nine horizontal channel bar stiffeners of cold-carbon steel with thickness of 5 mm are welded to the carbon steel sheet and packed with the same insulation as above.

The total door leaf thickness is 110 mm (118 mm incl. pins).

The door leaf is fixed to a four-sided door frame with four hinges fastened to the carbon steel sheet. The four-sided door frame is made of 6 mm thick steel, packed with "FyreWrap LT Blanket" insulation (density 64 kg/m^3, manufactured by UNIFRAX) and is fillet- and butt welded to the bulkhead. An additional layer of 25 mm thick insulation of the same type as above is fitted around the pillars of the door frame and fixed by means of pins and speed fix washers.

The door leaf is fitted with a door handle located at the bottom edge of the door leaf and a 4-point locking system with two locking points along the vertical edge and one at the top and bottom edge. The door leaf may also be fitted with a door catch at the bottom edge.

Intumescent seal is fitted around the rebate of the door leaf and the door frame.

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

This product can be produced at the premises of:
- 2 JCP a.s., Račice, Czech Republic.

Application/Limitation

Approved for installation in steel bulkheads of class A-60. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Max. size of door leaf: 1790 x 2932 mm (W x H).
Max. clear opening of door: 1720 x 2862 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 part 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.

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

Type Approval documentation

Certification in accordance with Class Programme DNV-CP-0338, September 2021.

Test report No. RS-22/B-284/E dated 23 August 2022 from CTO, Gdansk, Poland.

Drawing No. 20AD5548 Rev.1 dated 2 August 2022 from maker.
Drawing No. 20AD5552 Rev.2 dated 18 August 2022 from maker.
Drawing No. 20AD5555 Rev.2 dated 18 August 2022 from maker.
Drawing No. 20AD5557 Rev.2 dated 18 August 2022 from maker.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

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

Marking of product

The product or packing 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 "Procedures for Approval of Life-Saving Appliances, Fire Safety Systems, Equipment and Products (TP 14612)", DNV confirms that the products listed in this certificate are in accordance with Transport Canada's requirements.

Periodical assessment

DNV'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 DNV-CP-0338, Section 4.