



Confirmation of Product Type Approval

Company Name: HALTON OY

Address: PULTTIKATU 2 15700 Finland

Product: Fire Damper

Model(s): FDA Fire damper

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	21-2152416-PDA	28-OCT-2021	27-OCT-2026
Manufacturing Assessment (MA)	21-4924249	01-SEP-2021	20-SEP-2026
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Ventilation ducting which penetrates "A" Class divisions up to and including A-60.

Description

Single or multi-bladed rectangular fire dampers using the following means of actuation: Electrical spring return motor with fusible link (FDA-EL); Rotating pneumatic with fusible link (FDA-PNR)

The connections between the coaming and the damper frame and the extension duct are connected by means of flanges and are fastened with bolts and nuts and with a gasket between the flanges.

Ratings

See the attachment

Service Restrictions

- 1) Dampers manufactured from materials other than those listed in the ratings are not covered by Type Approval.
- 2) Details of manual operation and indicator device are to be submitted for each application.
- 3) The damper is to be provided with an automatic closing arrangement.
- 4) This Type Approval is not to be considered a substitute for a Flag Administration's approval for the purpose of SOLAS (2014 Consolidated Edition), unless specifically directed by the Administration.
- 5) Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

- 6) The scope of Type Approval is to comply with MSC.1/Circ.1221 dated 11 December 2006.
- 7) The length of coaming for the A-60 damper should be 650mm to the unexposed side and together with the damper frame 550mm to the exposed side; The coaming should be insulated along the whole length of the coamings on the both sides of the bulkhead. Mineral wool insulation A60 is to be provided on both sides of the bulkhead coaming.

Comments

- 1) Only actuators as indicated are acceptable
- 2) Manufacturer has submitted declaration for the control or lack of asbestos in this product.
- 3) Automatic fire dampers with additionally installed "manual override system" are to be verified by ABS attending Surveyor, if un-energized (disconnected) will close automatically during two minutes on case by case basis.
- 4) All materials have been verified for compliance with IMO FTP Code Annex 1, Part 1, with exemption as noted in Annex 1, Part 3.5.1
- 5) This certificate may not be used for EU and US flagged vessels (MED and/or USCG have their own specific/requirements).

Notes, Drawings and Documentation

1) Fire test reports

552-15TD-IMO on 03/02/2016 TUV EESTI Vana-Narva road 24b, Esonia.
 561-15TD-IMO on 19/02/2016 TUV EESTI Vana-Narva road 24b, Esonia.
 573-16TD-IMO on 06/04/2016 TUV EESTI Vana-Narva road 24b, Esonia.
 575-16TD-IMO on 06/04/2016 TUV EESTI Vana-Narva road 24b, Esonia.
 614-16TD-IMO on 30/08/2016 TUV EESTI Vana-Narva road 24b, Esonia.
 VTT-S-00639-16 on 09/02/2016 Espoo, Otaniemi, Fi-02044 Finalnd
 VTT-S-00798-16 on 19/02/2016 Espoo, Otaniemi, Fi-02044 Finalnd
 VTT-S-04439-15 on 28/09/2015 Espoo, Otaniemi, Fi-02044 Finalnd
 VTT-S-04567-15 on 02/10/2015 Espoo, Otaniemi, Fi-02044 Finalnd

2) Drawings

RPa1600191 rev.-, FDA 1200 x 1600 Pneumatic, Stainless steel, A-0 Bulkhead
 RPa1600192 rev.-, FDA 1200 x 1600 Pneumatic, Stainless steel, A-0 Deck
 RPa1600193 rev.-, FDA 1200 x 1600 Pneumatic, Stainless steel, A-60 Bulkhead
 RPa1500832 rev.-, FDA 1200 x 1600 Pneumatic, Stainless steel, A-60 Bulkhead
 RPa1500833 rev.-, FDA 200 x 200 Pneumatic, Stainless steel, A-60 Bulkhead
 RPa1500834 rev.-, FDA 300 x 300 Electric, Stainless steel, A-60 Bulkhead
 RPa1500835 rev.-, FDA 1200 x 1600 Pneumatic, Steel, A-60 Bulkhead
 RPa1500836 rev.-, FDA 200 x 200 Electric, Steel, A-60 Bulkhead

RPa1500837 rev.-, FDA 300 x 300 Electric, Steel, A-60 Bulkhead
 RPa1600196 rev.-, FDA 300 x 300 Pneumatic + DOT, Stainless steel, A-60 Deck
 RPa1600198 rev.-, FDA 1200 x 1600 Pneumatic, Stainless steel, A-60 Deck
 RPa1600199 rev.-, FDA 200 x 200 Electric, Stainless steel, A-60 Deck
 RPa1600201 rev.-, FDA 200 x 200 Electric, Stainless steel, A-60 Deck
 RPa1500851 rev.-, FDA 1200 x 1600 Pneumatic, Stainless steel, A-60 Deck
 RPa1500852 rev.-, FDA 200 x 200 Pneumatic, Stainless steel, A-60 Deck
 RPa1500853 rev.-, FDA 200 x 200 Electric, Stainless steel, A-60 Deck
 RPa1500854 rev.-, FDA 300 x 300 Pneumatic, Stainless steel, A-60 Deck
 RPa1500855 rev.-, FDA 1200 x 1600 Pneumatic, Steel, A-60 Deck
 RPa1500856 rev.-, FDA 200 x 200 Electric, Steel, A-60 Deck
 RPa1500857 rev.-, FDA 200 x 200 Pneumatic, Steel, A-60 Deck
 RPa1500858 rev.-, FDA 300 x 300 Electric, Steel, A-60 Deck
 RPa1600525 rev.A, FDA Modular Fire Damper, A-60 Bulkhead
 LH-51500 rev.A, Installation and Insulation
 LH-51501 rev.A, Installation and Insulation, Damper outside of the coaming
 LH-51502 rev.A, A0 Installation, Damper outside of the coaming

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 27/Oct/2026 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

2021 ABS Rules for Conditions of Classification: 1-1-4/7.7, 1-1-A3 and A4

2021 ABS Rules for Conditions of Classification – Offshore Units and Structures: 1-1-4/9.7, 1-1-A2 and A3

2021 ABS Rules for Conditions of Classification – High Speed Craft: 1-1-4/11.9, 1-1-A2 and A3

International Standards

International Code for Application of Fire Test Procedure 2010, 2012 Edition, Annex 1 Part 3,

International Convention for the Safety of Life at Sea (SOLAS), 1974, Chapter II-2 Regulation 3, Chapter II-2, Regulation 9/4.1.1.9, Reg. 9/7.1.2.1, Reg.9/ 7.1.2.2 and Reg.9/7.3.1.3 & Reg. 9/7.3.3 (2020 Consolidated Edition)

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



A handwritten signature in black ink, appearing to read 'Joseph W. ...', is positioned above the printed name.

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 29-Dec-2021 2:11

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.