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## CERTIFICATE OF APPROVAL

### No CF 10200

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This is to certify that, in accordance with  
TS00 General Requirements for Certification of Fire Protection Products  
The undermentioned products of

# ATLANTIC UK ARCHITECTURAL HARDWARE

Unit 362, Street 7, Thorp Arch Estate, Wetherby,  
LS23 7FL, United Kingdom  
TEL 01423 882199

Have been assessed against the requirements of the Technical Schedule(s)  
denoted below and are approved for use subject to the conditions  
appended hereto:

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#### CERTIFIED PRODUCT

Atlantic UK Stainless Steel Ball  
Bearing Hinges

#### TECHNICAL SCHEDULE

TS24 The Contribution of  
Single Axis Hinges to the Fire  
Resistance of Door Assemblies

Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited

Paul Duggan  
Certification Manager

Issued: 23<sup>rd</sup> July 2024  
Valid to: 8<sup>th</sup> May 2028





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1. This approval relates to the use of Atlantic UK stainless steel ball bearing hinges as follows:

Size
102 x 76 x 3 mm
102 x 89 x 3 mm
102 x 102 x 3 mm
127 x 76 x 3 mm
127 x 89 x 3 mm
127 x 102 x 3 mm

2. This certification is provided to the client for their own purposes, and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
3. This approval relates to the use of the above single axis hinges in contributing to the fire resistance performance of timber based doorsets, as defined in BS EN 1634-1:2014+A1:2018 or BS 476-22: 1987.
4. This approval relates to their use with the following door assemblies: -
- Code ITT - 20 minute to 60 minute door assemblies door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with timber or cellulosic cores, hung in timber or cellulosic frames.**
5. The hinges are approved on the basis of:
- i) Initial type testing to EN1935 and EN 1634-1
  - ii) An appraisal against TS24
  - iii) Certification of quality management system.
  - iv) Inspection and surveillance of factory production control
  - v) On-going audit testing in accordance with TS24 requirements
6. The Atlantic UK hinges are single axis, steel Class 13 ball-bearing hinges. The hinges are approved with square corners and radiused corners and manufactured in either 201 or 304 grades of stainless steel.
7. The door assembly shall be a CERTIFIRE approved product or have achieved the appropriate fire resistance performance when tested at a laboratory accredited to IS/IEC 17025 (under International Laboratory accreditation Cooperation (ILAC) membership), in accordance with BS 476: Part 22: 1987 and/or BS EN 1634:1 with hinges of a similar size.



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8. This approval relates to the above hinges used with latched or unlatched single-leaf or double-leaf door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores and in timber frames:
- a. FD30, E30 and EI30 applications (Code ITT) – Door leaves shall not less than 44 mm thick doors. The door frame shall consist of timber with a minimum density of 450 kg/m<sup>3</sup>.
    - i. All hinges must be bedded onto a 1 mm thickness of graphite-based intumescent material behind both blades.
  - b. FD60, E60 and EI60 applications (Code ITT) – Door leaves shall not less than 54 mm thick doors. The door frame shall consist of timber with a minimum density of 640 kg/m<sup>3</sup>.
    - i. The hinges must be bedded on a 2 mm thickness of graphite-based intumescent material behind both blades.

*Note: Failure to install intumescent protection identified above will invalidate this certificate*

9. The hinges may only be fitted in the manner described in this certificate and subject to any limitations on the inclusion of hinges specified for the door leaf. This approval is applicable only to the specified hinges used with door assemblies of proven fire resistance (as defined in BS EN 1634-1 or BS 476: Part 22: 1987) and when using appropriate intumescent protection.
10. All door hardware is subject to the acceptance by the chosen door assembly supplier's tested, assessed or certificated scope, which generally identifies the types of hardware approved, the required specification/design based on the key materials/ maximum size (e.g. flap size, knuckle diameter, fixing specification, etc.), and the application of any additional intumescent protection.
- On this basis approval should be sought from the specific door assembly supplier to ensure compliance based on this assessed/certificated scope
11. Hinges shall only be fitted using the fixings supplied by the hinge manufacturer. Regard should be paid to the maximum door mass permitted to be used with the hinge (see classification).
12. The ITT 30 and 60 minute doorset shall be installed in accordance with BS 8214.



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13. The approval relates to ongoing production. The product and/or its immediate packaging is identified with the manufacturer's name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.
14. The following table show acceptable doorset types and fire resistance periods:

Class	Approved Door Type			
	IMM	MM	ITT	ITM
FD20	x	x	✓	x
FD30	x	x	✓	x
FD60	x	x	✓	x
FD120	x	x	x	x
FD240	x	x	x	x
E 20	x	x	✓	x
EI 20	x	x	✓	x
E 30	x	x	✓	x
EI 30	x	x	✓	x
E 60	x	x	✓	x
EI 60	x	x	✓	x
E 90	x	x	x	x
EI 90	x	x	x	x
E 120	x	x	x	x
EI 120	x	x	x	x
E 240	x	x	x	x
EI 240	x	x	x	x

**Key:**

- ✓ - approved  
x - Not approved



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15. Doors are classified as the following types:

**Code ITT** - 20 minute to 120 minute door assemblies door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with timber or cellulosic cores, hung in timber or cellulosic frames.

**Code ITM** - 20 minute to 120 minute door assemblies door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with timber or cellulosic cores, hung in steel frames.

**Code MM** - 20 to 240 minute doorsets consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames without intumescent seals.

**Code IMM** - 20 to 240 minute doorsets consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames with intumescent seals.

**Scope of Approval:**

- The hinges may not be fitted to timber doorsets without perimeter intumescent fire seals within the frame rebate or edge of the door leaf.
- The proposed graphite-based intumescent sheet material, shall have suitable test evidence in the required thickness or less, with timber/mineral-based doorset of the required classification period, in conjunction with steel hinges of a minimum size of 102 mm x 76 mm.

**Classification codes**

The approval provides the following classifications for all hinges:

4	7	6	1	1	4	0	13
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**Further Information**

Further information regarding the details contained in this certificate may be obtained from Atlantic UK Architectural Hardware (Tel: 01423 882199).

Further information regarding CERTIFIRE certification and other approved products can be obtained from CERTIFIRE (Tel: 01925 646777).

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