



CERTIFICATE OF APPROVAL
No CF 863

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

EURO-ART (UK) LTD

1 Chain Caul Way, Rivers Docklands, Preston, Lancashire PR2 2YL.
Tel: 0208 453 1017 Fax: 0208 961 2791

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

CERTIFIED PRODUCT

**Euro-Art 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 CERTIFIRE.

Sir Ken Knight
Chairman - Management Council

Issued: 20 July 2011
Valid to: 19 July 2016

Page 1 of 5



Seal is in place Only valid when authentic CERTIFIRE



CERTIFICATE No CF 863 EURO-ART (UK) LTD

Euro-Art Ltd Stainless Steel Ball Bearing Hinges

1. This approval relates to the use of Euro-Art Ltd stainless steel, ball bearing single axis hinges in contributing to the fire resistance performance of timber based doorsets, as defined by EN 1634-1 or BS 476: Part 22, for periods of up to 60 minutes integrity. Subject to the undermentioned conditions, the doorsets will meet the relevant requirements of BS 5588 for doorsets when used in accordance with the provisions therein.
2. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), Section 2 of the Technical Standards (Scotland) and Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.
3. The hinges are approved on the basis of:
 - i) Initial type testing to EN1935 and EN 1634-1
 - ii) An appraisal against TS24
 - iii) Inspection of quality management system.
 - iv) Inspection and surveillance of factory production control
 - v) Ongoing audit testing in accordance with TS24 requirements
4. The hinges approved are nominally 102 by 76 by 3 mm and are stainless steel, ball bearing single axis, class 13.

Reference	Description
HINBB433-PSS	Grade 13 Stainless Steel - 102 x 76 x 3mm
HINBB433-PVD	Grade 13 Stainless Steel - 102 x 76 x 3mm
HINBB433/R-PSS	Grade 13 Stainless Steel Radius - 102 x 76 x 3mm Radius
HINBB433/R-PVD	Grade 13 Stainless Steel Radius - 102 x 76 x 3mm Radius
HINBB433/R-SSS	Grade 13 Stainless Steel Radius - 102 x 76 x 3mm
HINBB433-SSS	Grade 13 Stainless Steel - 102 x 76 x 3mm
HINBB433-3-SSS	Grade 13 Stainless Steel - 102 x 76 x 3mm (pair and a half)
HINBB433-304-PSS	Grade 13 Stainless Steel - 102 x 76 x 3mm
HINBB433/R-304-PSS	Grade 13 Stainless Steel Radius - 102 x 76 x 3mm
HINBB433/R-304-SSS	Grade 13 Stainless Steel Radius - 102 x 76 x 3mm
HINBB433-304-SSS	Grade 13 Stainless Steel - 102 x 76 x 3mm
BH154SSS	Grade 13 Stainless Steel Dog Bolt Door Hinge 102 x 76 x 3mm



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EURO-ART (UK) LTD

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5. 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 (Code ITT) not less than 44 mm thick for 30 minute applications and 54 mm thick for 60 minute applications. The door frame shall consist of timber with a minimum density of 450kg/m³ for 30 minute applications and hardwood with a minimum density of 650kg/m³ for 60 minute applications (with leaf to frame gaps not greater than 3 mm). The hinges must be bedded onto a 1 mm thickness of mono ammonium phosphate intumescent material behind both blades for all 30 minute applications and a 2 mm thickness of the same material for all 60 minute applications.
6. The above hinges may only be fitted to previously tested timber door assemblies when fitted in the manner described in this certificate and when particular aspects of the door assembly are maintained.
7. Hinges shall only be fitted using the fixings supplied by the hinge manufacturer.
8. The doorset, including door frame and associated building hardware, should be either CERTIFIRE approved for the relevant application and classification or the doorset, including door frame and associated building hardware, should have achieved at least the required 30 or 60 minutes fire resistance performance when tested, or subsequently assessed to BS 476: Part 22: 1987 or EN 1634-1: 2008. In either case regard should be paid to the maximum door mass permitted to be used with the hinge (see classification).
9. The doorset shall be installed in accordance with BS 8214: 2008.
10. The approval relates to on going production. 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.

A handwritten signature in black ink, appearing to be "J. H. Smith", located below the "Signed" text.



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Matrix of acceptable doorset types

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

Key:

- ✓ - approved
- x - Not approved



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Scope of Approval:

- All applications apply to glazed and unglazed doorsets.
- Both blades of the hinges must be bedded onto a 1 mm thickness of mono ammonium phosphate intumescent sheet for 30 minute applications or a 2 mm thickness of the same material for 60 minute applications.
- The door frame shall consist of timber with a minimum density of 450 kg/m³ for all 30 minute applications and hardwood with a minimum density of 650 kg/m³ for all 60 minute applications (with leaf to frame gaps less than 3 mm).
- The door leaf shall be a minimum of 44 mm thick for all 30 minute applications and 54 mm thick for all 60 minute applications. In all instances the door leaf shall include hardwood timber lippings to the vertical edges having a minimum density of 650 kg/m³.

Classification codes

The above approval provides the following classifications:

4	7	6	1	1	4	0	13
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BH154SSS - Stainless Steel Dog Bolt Door Hinge

4	7	6	1	1	4	1	13
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Further Information

Further information regarding the details contained in this certificate may be obtained from Euro-Art Ltd (Tel: 0208 453 1017).

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