



CERTIFICATE OF APPROVAL

No CF 336

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

FRISCO UK SALES LIMITED

Unit 14, Pindar Road, Essex Road, Hoddesdon
Hertfordshire EN11 0DE

Tel: 01992 443 010 Fax: 01992 443 020

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

Eclipse Series, Insignia Series
and Parliament Steel Hinges

TECHNICAL SCHEDULE

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

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

Paul Duggan
Certification Manager



Issued: 12th February 2004
Revised: 10th May 2024
Valid to: 12th February 2029

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Eclipse Series, Insignia Series and Parliament Hinges

1. This certification is provided to the client for its own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
2. This approval relates to the use of the following Eclipse Ball Bearing, Insignia Thrust Bearing steel and Parliament, single axis hinges:

Ref.	Type	Size mm	Finish	Radiused	EN1935 Grade
14853	2 Ball Bearing (Eclipse)	102 x 76 x 3	PSS		13
14854	2 Ball Bearing (Eclipse)	102 x 76 x 3	SSS		13
14858	2 Ball Bearing (Eclipse)	102 x 76 x 3	SSS		11
14860	2 Ball Bearing (Eclipse)	102 x 76 x 3	PSS		11
14866	2 Ball Bearing Security (Eclipse)	102 x 76 x 3	SSS		13
14869	2 Ball Bearing (Eclipse)	102 x 76 x 3	SSS	Yes	13
14872	2 Ball Bearing (Eclipse)	102 x 76 x 3	PSS	Yes	13
14879	2 Ball Bearing (Eclipse)	102 x 76 x 3	EBP	Yes	13
14882	2 Ball Bearing (Eclipse)	102 x 76 x 3	EBP		13
14882G11	2 Ball Bearing (Eclipse)	102 x 76 x 3	EBP		11
14883	2 Ball Bearing (Eclipse)	102 x 76 x 3	SSS		13
14884	2 Ball Bearing (Eclipse)	102 x 76 x 3	PSS		13
14888	2 Ball Bearing (Eclipse)	102 x 76 x 3	SSS		13
14889	2 Ball Bearing (Eclipse)	102 x 76 x 3	SSS	Yes	13
14920	2 Ball Bearing (Eclipse)	102 x 76 x 3	Black		13
14929**	Thrust Bearing (insignia)	102 x 76 x 3	SSS		14
14930**	Thrust Bearing (insignia)	102 x 76 x 3	PSS		14
14931**	Thrust Bearing (insignia)	102 x 76 x 3	SSS	Yes	14
14932**	Thrust Bearing (insignia)	102 x 76 x 3	PSS	Yes	14
14998**	Thrust Bearing Anti-Ligature (insignia)	102 x 76 x 3	PSS	Yes	14
14999**	Thrust Bearing Anti-Ligature (insignia)	102 x 76 x 3	SSS	Yes	14
14989*	Parliament Hinge	102 x 102 x 3	SSS		13
14990*	Parliament Hinge	102 x 102 x 3	PSS		13
14991*	Parliament Hinge	102 x 102 x 3	EBP		13

**14929, 14930, 14931, 14932, 14998 and 14999 which are approved for up to 60 minute timber based doorsets only.

*14989, 14990 and 14991 which are approved for up to 30 minute timber based doorsets only.

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3. 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.

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.

**14929, 14930, 14931, 14932, 14998 and 14999 which are approved for up to 60 minute timber based doorsets only.*

**14989, 14990 and 14991 which are approved for up to 30 minute timber-based doorsets only.*

4. This approval relates to the use of the above single axis hinges in contributing to the fire resistance performance of timber based doorsets and predominately steel based doorsets, as defined in BS EN 1634-1:2014+A1:2018 or BS 476-22: 1987.

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 door assembly shall be a CERTIFIRE approved product or have achieved the appropriate fire resistance performance when tested at a UKAS accredited laboratory in accordance with BS 476: Part 22: 1987 and/or BS EN 1634:1.

7. The hinges should only be used with door assemblies of proven fire resistance (as defined in BS EN 1634-1 or BS 476: Part 22: 1987), the critical aspects of the doorset construction are considered to be the material of the door frame, the leaf to frame clearance gaps and the lipping material. Attention should be paid to these details and these should not be amended from that previously fire tested. The following minimum specification shall be followed, unless the chosen doorset has evidence to the contrary with hinges of a similar size/specification:



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30 minute ITT - Timber-based assemblies:

- i) Door frame minimum density - 450 kg/m³
- ii) Door leaves shall have a minimum thickness of 44 mm.
- iii) Lipping minimum density - 640 kg/m³.

60 minute ITT - Timber-based assemblies:

- i) Door frame minimum density - 640 kg/m³
- ii) Door leaves shall have a minimum thickness of 54 mm.
- iii) Lipping minimum density - 640 kg/m³.

Steel-based assemblies (Code MM/IMM)

- i) Door leaves shall have a minimum thickness of 44 mm for up to 240 minute applications.
- ii) No additional intumescent protection is required.

8. When fitted to insulated timber door assemblies, the required additional intumescent protection will be as follows:

- i) The required protection for 30 minute ITT applications will be 1 mm thickness of mono ammonium phosphate or graphite-based intumescent sheet material (see 'Scope of Approval' below) behind both blades.
- ii) The required protection for 60 minute ITT applications will be 2 mm thickness of mono ammonium phosphate or graphite-based intumescent sheet material (see 'Scope of Approval' below) behind both blades.

Failure to install the protection 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. Regard should be paid to the maximum door mass permitted to be used with the hinge (see classifications).

11. For ITT timber and mineral-based doorsets the hinges shall only be fitted using the fixings supplied by the hinge manufacturer.

12. The ITT doorsets shall be installed in accordance with BS 8214.

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13. 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. blade size/width 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.

14. 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.

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15. Matrix of acceptable doorset types

Class	Approved Door Type			
	IMM	MM	ITT	ITM
FD20	✓**	✓**	✓	✗
FD30	✓**	✓**	✓	✗
FD60	✓**	✓**	✓*	✗
FD90	✓**	✓**	✗	✗
FD120	✓**	✓**	✗	✗
FD240	✓**	✓**	✗	✗
E 20	✓**	✓**	✓	✗
EI 20	✓**	✓**	✓	✗
E 30	✓**	✓**	✓	✗
EI 30	✓**	✓**	✓	✗
E 60	✓**	✓**	✓*	✗
EI 60	✓**	✓**	✓*	✗
E 90	✓**	✓**	✗	✗
EI 90	✓**	✓**	✗	✗
E 120	✓**	✓**	✗	✗
EI 120	✓**	✓**	✗	✗
E 240	✓**	✓**	✗	✗
EI 240	✓**	✓**	✗	✗

Key:

- ✓ - Approved
- ✗ - Not approved
- ** - Excludes 14929, 14930, 14931, 14932, 14998 and 14999 which are approved for up to 60 minute timber based doorsets only and Excludes 14989, 14990 and 14991 which are approved for up to 30 minute ITT timber based doorsets only.
- * - Excludes 14989, 14990 and 14991 which are approved for up to 30 minute timber based doorsets only.





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16. 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 leaf/frame edge intumescent protection.
- 14929, 14930, 14931, 14932, 14998 and 14999 which are approved for up to 60 minute timber based doorsets only
- 14989, 14990 and 14991 which are approved for up to 30 minute timber-based doorsets only.

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Classification codes

The above approval provides the following classifications:

Eclipse 14853, 14854, 14869, 14872, 14879, 14882, 14883, 14884, 14920, 14989, 14990, 14991, 14888 and 14889 – Maximum leaf weight 120 kg:

4	7	6	1	1	4	0	13
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Eclipse 14866 – Maximum leaf weight 120 kg:

4	7	6	1	1	4	1	13
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Eclipse 14858, 14860 and 14882G11 – Maximum leaf weight of 80 kg:

4	7	4	1	1	4	0	11
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Insignia 14929 14930, 14931, 14932, 14998, and 14999 – Maximum leaf weight 160 kg:

4	7	7	1	1	4	0	14
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Further Information

Further information regarding the details contained in this certificate may be obtained from Frisco UK Sales Limited (Tel: 01992 443 010).

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

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