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## CERTIFICATE OF APPROVAL

### No CF 336

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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

## 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 and Insignia series  
 of Stainless steel 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  
 WCL Impartiality Committee**



**Paul Duggan  
 Certification Manager  
 Warrington Certification Ltd**



Issued: 12<sup>th</sup> February 2004  
 Revised: 6<sup>th</sup> October 2015  
 Valid to: 19<sup>th</sup> December 2018

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**FRISCO UK SALES LIMITED**

**Eclipse Series and Insignia Series of Hinges**

1. This approval relates to the use of Eclipse 14853, 14854, 14858, 14860, 14861, 14866, 14869, 14872, 14879, 14882, 14882g11, 14883, 14884, 14888 and 14889 and the Insignia 14929, 14930, 14931 and 14932 stainless steel, 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 20, 30 and 60 minutes integrity or metallic based doorsets, for periods of 30, 60, 90, 120 or 240 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), 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 EN 1935
  - ii) A design appraisal against TS24
  - iii) Certification of quality management system to ISO 9001: 2008.
  - iv) Inspection and surveillance of factory production control
  - v) On-going audit testing in accordance with EN 1935 requirements
4. The Eclipse series and Insignia series of hinges comprise stainless steel, single axis hinges, for use on various classes of doorsets. The hinges are a minimum of Class 11.
5. This certification relates to the following variants of the Eclipse series and the Insignia series hinges:

Hinge	Maximum Leaf Weight
Eclipse 14853	120 kg
Eclipse 14854	120 kg
Eclipse 14858	80 kg
Eclipse 14882g11	80 kg
Eclipse 14860	80 kg
Eclipse 14861	80 kg
Eclipse 14866	120 kg
Eclipse 14869	120 kg
Eclipse 14872	120 kg

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**Eclipse Series and Insignia Series of Hinges**

Hinge	Maximum Leaf Weight
Eclipse 14882	120 kg
Eclipse 14883	120 kg
Eclipse 14884	120 kg
Eclipse 14888	120 kg
Eclipse 14889	120 kg
Insignia 14929	120 kg
Insignia 14930	120 kg
Insignia 14931	120 kg
Insignia 14932	120 kg

The approval also covers the product references PK929, PK930, PK931 and PK932 which are 1.5 pair packs of the Insignia 14929, 14930, 14931 and 14932 respectively.

6. 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 45 mm thick. The door frame shall consist of timber with a minimum density of 450 kg/m<sup>3</sup> (with leaf to frame gaps less than 3mm), for FD20, FD30, E30 and EI30 applications. The hinges must be bedded onto 1 mm of mono ammonium phosphate material behind both blades.
7. 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 54 mm thick. The door frame shall consist of timber with a minimum density of 650 kg/m<sup>3</sup> (with leaf to frame gaps less than 3mm), for FD60, E60 and EI60 minute applications. The hinges must be bedded onto 2 mm of mono ammonium phosphate material behind both blades
8. This approval also relates to the above hinges used with latched or unlatched single-leaf or double-leaf door assemblies consisting of metallic faced and edged leaves hung within metallic frames (Codes MM and IMM) not less than 45 mm thick, for up to FD240, E240 and EI240 applications.
9. 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.
10. Hinges shall only be fitted using the fixings supplied by the hinge manufacturer.



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**Eclipse Series and Insignia Series of Hinges**

11. 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 30 or 60 minutes fire resistance (ITT) or up to 240 minutes (MM/IMM) as required when tested, or subsequently assessed to BS 476: Part 22: 1987 or BS EN 1634-1. In either case regard should be paid to the maximum door mass permitted to be used with the hinge (see classification).
12. The doorset shall be installed in accordance with BS 8214: 2008.
13. 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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**Matrix of acceptable doorset types**

Class	Approved Door Type					
	IMM	MM	TT	ITT	ITM	ITC
FD20	✓	✓	✓	✓	x	x
FD30	✓	✓	x	✓	x	x
FD60	✓	✓	x	✓	x	x
FD120	✓	✓	x	x	x	x
FD240	✓	✓	x	x	x	x
E 20	✓	✓	✓	✓	x	x
EI 20	✓	✓	✓	✓	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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**Eclipse Series and Insignia Series of Hinges**

**Scope of Approval:**

- The hinges may be fitted to doorsets without intumescent protection for up to 20 minutes integrity.
- All applications apply to glazed and unglazed doorsets.
- Both blades of the hinges must be bedded onto 1 mm of mono ammonium phosphate material when used with TT or ITT doorsets for 30 minute applications.
- Both blades of the hinges must be bedded onto 2 mm of mono ammonium phosphate material when used with ITT doorsets for 60 minute applications.
- The door frame of TT and ITT doorsets shall consist of timber with a minimum density of 450 kg/m<sup>3</sup> (with leaf to frame gaps less than 3mm) for 30 minute applications.
- The door frame of ITT doorsets shall consist of timber with a minimum density of 650 kg/m<sup>3</sup> (with leaf to frame gaps less than 3mm) for 60 minute applications.

**Classification codes**

The above approval provides the following classifications:

Eclipse 14853, 14854, 14869, 14872, 14879, 14882, 14883, 14884, 14888, and 14889 –  
Maximum leaf weight 120 kg

<b>4</b>	<b>7</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>13</b>
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Eclipse 14866 – Maximum leaf weight 120 kg

<b>4</b>	<b>7</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>13</b>
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Eclipse 14858, 14860, 14861 and 14882g11 – Maximum leaf weight of 80 kg

<b>3</b>	<b>7</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>11</b>
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**Eclipse Series and Insignia Series of Hinges**

**Classification codes (continued)**

Insignia 14920, 14930, 14931 and 14932 – Maximum leaf weight 120 kg

<b>4</b>	<b>7</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>13</b>
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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).

