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## CERTIFICATE OF APPROVAL

### No CF 351

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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

## COOKE BROTHERS LTD

Northgate, Aldridge, Walsall, West Midlands, WS9 8TL  
Tel: 01922 740001 Fax: 01922 456227

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

Cooke Brothers Series of hinges:  
Shrouded Bearing 72SB Series  
Slimline 7530, 7535, 7540,  
Loadmaster 7935, Concealed  
Bearing 7700CB Series, Dual  
bearing 7800DB Series

### 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: 13<sup>th</sup> July 2004  
Re-issued: 8<sup>th</sup> July 2009  
Valid to: 12<sup>th</sup> July 2014

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Only valid when authentic  
CERTIFIRE Seal is in place



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## **CERTIFICATE No CF 351**

### **COOKE BROTHERS LTD**

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#### **Cooke Brothers Series of Hinges**

1. This approval relates to the use of Shrouded Bearing 72SB Series, Slimline 7530, 7535, 7540, Loadmaster 7935, Concealed Bearing 7700CB Series and Dual bearing 7800DB Series, single axis hinges in contributing to the fire resistance performance of timber based doorsets, as defined by EN 1634-1, for periods of 30 or 60 minutes integrity and n contributing to the fire resistance performance of 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 D 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 testing/appraisal to BS EN 1634-1: 2000
  - iii) An appraisal against TS24
  - iii) Certification of quality management system to ISO 9001: 2000.
  - iv) Inspection and surveillance of factory production control
  - v) Ongoing audit testing in accordance with EN1935 requirements
4. The Cooke Brothers series of hinges comprise a range of stainless and mild steel, single axis hinges, which may be of various sizes for use on various classes of doorsets. The hinges are a minimum of Class 11 in accordance with EN 1935: 2002.
5. This certification relates to the following variants of traditional series hinges:

Hinge Reference	Maximum Leaf Weight
7230SB (mild steel) Shrouded Bearing	100 kg
72SB Series 7230SB, 7235SB, 7240SB (stainless steel) Shrouded Bearing	120 kg
7530, 7535, 7540 Slimline	120 kg
7935 Loadmaster	160 kg
7935 Loadmaster (mild steel)	120 kg
7730CB, 7735CB, 7740CB, (mild steel) Concealed Bearing Butt Hinges	120 kg
7730CB, 7735CB, 7740CB (stainless steel) Concealed Bearing	160 kg
7729, 7730, 7735 (stainless steel) Anti Ligature Hinge	160 kg



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**Cooke Brothers Series of Hinges**

Hinge Reference	Maximum Leaf Weight
7730CB, 7735, 7740 (stainless steel) Butt Hinge with Dog Bolt	160 kg
7755CB, 7756CB, 7765CB, 7766CB, 7775CB, 7776CB (mild steel) Concealed Bearing Lift Off Hinges	120 kg
7755CB, 7756CB, 7765CB, 7766CB, 7775CB, 7776CB (stainless steel) Concealed Bearing Lift Off Hinges	120 kg
7830DB, 7840DB, 7845DB Dual Bearing	120 kg

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 (Codes TT and ITT) not less than 44 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.
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 (Codes TT and 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 and EI60 applications.
- 7 For all ITT doorsets the hinges must be bedded onto 1 mm Interdens behind both blades.
- 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 44 mm thick, for up to FD240, E240 and EI240 applications.
8. 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.
9. Hinges shall only be fitted using the fixings supplied by the hinge manufacturer.



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## **CERTIFICATE No CF 351 COOKE BROTHERS LTD**

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### **Cooke Brothers Series of Hinges**

10. 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 20, 30, 60, 90, 120 or 240 minutes fire resistance (as appropriate) when tested, or subsequently assessed to BS 476: Part 22: 1987 or EN 1634-1: 2000. In either case regard should be paid to the maximum door mass permitted to be used with the hinge (see classification)

11. The doorset shall be installed in accordance with BS 8214: 2008.

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.

12. Further information regarding the details contained in this data sheet may be obtained from Cooke Brothers Ltd (Tel: 01922 740001).

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



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**COOKE BROTHERS LTD**

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**Cooke Brothers Series of Hinges**

Matrix of acceptable doorsets

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

**Key:**

- ✓ - approved  
x - Not approved



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**COOKE BROTHERS LTD**

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**Cooke Brothers 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 Interdens material when used with TT or ITT doorsets.
- The door frame of TT and ITT doorsets shall consist of timber with a minimum density of 450 kg/m<sup>3</sup> for EI30 and FD30 classifications or shall consist of hardwood timber with a minimum density of 650 kg/m<sup>3</sup> for EI60 and FD60 classifications (with leaf to frame gaps less than 3mm).

**Classification codes**

The approval provides the following classifications:

Mild steel 7230SB hinge – Maximum leaf weight 100 kg

<b>4</b>	<b>7</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
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Stainless steel 7230SB, 7235SB, 7240SB hinges – 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>1</b>
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Slimline 7530, 7535, 7540 – 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>1</b>
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**CERTIFICATE No CF 351**  
**COOKE BROTHERS LTD**

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**Cooke Brothers Series of Hinges**

**Classification codes (continued)**

Concealed Bearing stainless steel, lift off hinges 7755CB, 7756CB, 7765CB, 7766CB, 7775CB, 7776CB – 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>1</b>
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Dual Bearing stainless steel butt hinges 7830DB, 7840DB, 7845DB – 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>1</b>
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Loadmaster 7935 – Maximum leaf weight 160 kg.

<b>4</b>	<b>7</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>1</b>
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Concealed Bearing mild steel butt hinges 7730CB, 7735CB, 7740CB – Maximum leaf weight 120 kg.

<b>4</b>	<b>7</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>
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**CERTIFICATE No CF 351**  
**COOKE BROTHERS LTD**

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**Cooke Brothers Series of Hinges**

**Classification codes (continued)**

Concealed Bearing stainless steel butt hinges 7730CB, 7735CB, 7740CB – Maximum leaf weight 160 kg.

<b>4</b>	<b>7</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>1</b>
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Stainless steel butt hinges with dog bolt 7730CB, 7735CB, 7740CB – Maximum leaf weight 160 kg.

<b>4</b>	<b>7</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>1</b>
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Stainless steel anti ligature butt hinges 7729, 7730, 7735 – Maximum leaf weight 160 kg.

<b>4</b>	<b>7</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>1</b>
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Concealed Bearing mild steel lift off hinges 7755CB, 7756CB, 7765CB, 7766CB, 7775CB, 7776CB – Maximum leaf weight 120 kg.

<b>4</b>	<b>7</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>
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Loadmaster 7935 (mild steel) – Maximum leaf weight 120 kg.

<b>4</b>	<b>7</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>
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## EC CERTIFICATE OF CONFORMITY

**Number: 1121 - CPD - AC0115**

In compliance with Directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to construction products (Construction Products Directive - CPD), amended by the Directive 93/68/EEC of the Council of European Communities of 22 July 1993, it is confirmed that the following products are subject to factory production control procedures and are submitted by the manufacturer to further testing of samples taken at the factory in accordance with a prescribed test plan. The stated Notified Certification Body has performed the initial type-testing for the relevant characteristics of the product, has conducted the initial inspection of the factory and the factory production control, and is responsible for the continuous surveillance, assessment and approval of the factory production control.

construction product : **7230 SB Mild Steel Butt Hinge**

placed on the market by:

Company:

Address:

**Cooke Brothers Ltd**

**Northgate, Aldridge, Walsall, West Midlands, WS9 8TL.**

product classification:

4	7	5	1*	1	0	0	12
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intended use:

**For use on fire/smoke compartmentation doors and on escape route doors**

This document certifies that all the provisions concerning the attestation of conformity and product performance described in Annex ZA of the product standard

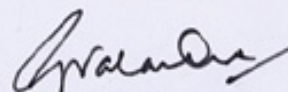
**EN 1935 : 2002**

were applied and that the product fulfils all the prescribed requirements.

Notified Certification Body: **Warrington Certification Ltd**

EC Reference Number: **1121**

This certificate was first issued on **24/10/2007** and remains valid as long as the conditions laid down in the harmonised technical specification above, or the product design, or the manufacturing conditions in the factory, or the FPC itself are not modified significantly, or at the latest **24/10/2012**.



Manager - Warrington Certification Ltd.

**References:**

Mechanical test evidence: 166985

Factory references: J/021

Fire test evidence: CF351

Classification report: N/A

\* The referenced reports detail the precise field of application for fire/smoke door use

**Warrington Certification Ltd., Holmesfield Road, Warrington, WA1 2DS, UK**

## EC CERTIFICATE OF CONFORMITY

**Number: 1121 - CPD - AC0116**

In compliance with Directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to construction products (Construction Products Directive - CPD), amended by the Directive 93/68/EEC of the Council of European Communities of 22 July 1993, it is confirmed that the following products are subject to factory production control procedures and are submitted by the manufacturer to further testing of samples taken at the factory in accordance with a prescribed test plan. The stated Notified Certification Body has performed the initial type-testing for the relevant characteristics of the product, has conducted the initial inspection of the factory and the factory production control, and is responsible for the continuous surveillance, assessment and approval of the factory production control.

construction product : **7230SB, 7235SB , 7240SB ,7830DB, 7840DB , 7845DB  
Stainless Steel Butt Hinges**

placed on the market by:

Company:

**Cooke Brothers Ltd**

Address:

**Northgate, Aldridge, Walsall, West Midlands, WS9 8TL.**

product classification:

4	7	6	1*	1	4	0	13
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intended use:

**For use on fire/smoke compartmentation doors and on escape route doors**

This document certifies that all the provisions concerning the attestation of conformity and product performance described in Annex ZA of the product standard

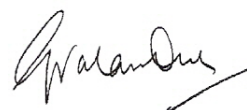
**EN 1935 : 2002**

were applied and that the product fulfils all the prescribed requirements.

Notified Certification Body: **Warrington Certification Ltd**

EC Reference Number: **1121**

This certificate was first issued on **24/10/2007** and revised on **06/05/2009** and remains valid as long as the conditions laid down in the harmonised technical specification above, or the product design, or the manufacturing conditions in the factory, or the FPC itself are not modified significantly, or at the latest **23/10/2012**.

**Manager – Warrington Certification Ltd.**

**References:**

Mechanical test evidence: 166982, 167537, 167632, 178883, 178883/A

Fire test evidence: CF351

Factory references: J/021

Classification report: N/a

\* The referenced reports detail the precise field of application for fire/smoke door use

## EC CERTIFICATE OF CONFORMITY

**Number: 1121 - CPD - AC0117**

In compliance with Directive 89/108/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to construction products (Construction Products Directive - CPD), amended by the Directive 93/68/EEC of the Council of European Communities of 22 July 1993, it is confirmed that the following products are subject to factory production control procedures and are submitted by the manufacturer to further testing of samples taken at the factory in accordance with a prescribed test plan. The stated Notified Certification Body has performed the initial type-testing for the relevant characteristics of the product, has conducted the initial inspection of the factory and the factory production control, and is responsible for the continuous surveillance, assessment and approval of the factory production control.

construction product : **7230SB, 7830DB, 7840DB & 7845DB Stainless Steel Butt Hinge with Dog Bolts**

placed on the market by:

Company:

Address:

**Cooke Brothers Ltd**

**Northgate, Aldridge, Walsall, West Midlands, WS9 8TL.**

product classification:

4	7	6	1*	1	4	1	13
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intended use:

**For use on fire/smoke compartmentation doors and on escape route doors**

This document certifies that all the provisions concerning the attestation of conformity and product performance described in Annex ZA of the product standard

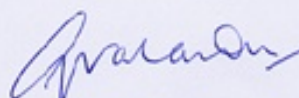
**EN 1935 : 2002**

were applied and that the product fulfils all the prescribed requirements.

Notified Certification Body: **Warrington Certification Ltd**

EC Reference Number: **1121**

This certificate was first issued on 24/10/2007 and revised on 26/11/2007 and remains valid as long as the conditions laid down in the harmonised technical specification above, or the product design, or the manufacturing conditions in the factory, or the FPC itself are not modified significantly, or at the latest 23/10/2012.



Manager - Warrington Certification Ltd.

**References:**

Mechanical test evidence: 166982, 168320, 167633

Factory references: J1021

Fire test evidence: CF351

Classification report: N/A

\* The referenced reports detail the precise field of application for fire/smoke door use