
CERTIFICATE OF APPROVAL

No CF 209

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

ROYDE & TUCKER LIMITED

Bilton Road, Cadwell Lane, Hitchin, Hertfordshire, SG4 0SB
Tel: 01462 444444 Fax: 01462 444433

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

**Hi-Load Hinges
Traditional Series**

TECHNICAL SCHEDULE

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

Signed and sealed for and on behalf of CERTIFIRE



Sir Ken Knight
Chairman - Management Council

Issued: 7th February 2000
Reissued: 5th November 2013
Valid to: 4th November 2018

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CERTIFICATE No CF 209 ROYDE & TUCKER LIMITED

HI-LOAD HINGES - TRADITIONAL SERIES

1. This approval relates to the use of the above single axis hinges in contributing to the fire resistance performance of timber based doorsets, for periods of 30 or 60 minutes integrity and insulation, as defined by BS EN 1634-1:2000, BS EN 1634-1:2008 or BS 476 : Part 22 : 1987. 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), 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 EN 1634-1: 2000.
 - ii) A design appraisal against TS24
 - iii) Production surveillance under BS ISO 9001: 2008
 - iv) On-going audit testing in accordance with BS EN 1935 requirements
 - v) Inspection and surveillance of factory production control
4. The traditional series hinges comprise a range of single axis, self-lubricating hinges, which may be of various sizes for use on various classes of doorsets. The hinges are a minimum of Class 10 in accordance with BS EN 1935: 2002.
5. This certification relates to the following variants of Hi-load traditional series hinges:

H086 Lift off hinge – Maximum leaf weight 60 kg
H100 Butt hinge - Maximum leaf weight of 100 kg
H101 Lift-off hinge - Maximum leaf weight of 80 kg
H102 Butt hinge - Maximum leaf weight of 120 kg
H102-0 Butt hinge - Maximum leaf weight of 120 kg
H102-1 Butt hinge - Maximum leaf weight of 120 kg
H102-5 Butt hinge - Maximum leaf weight of 120 kg
H103 Butt hinge - Maximum leaf weight of 100 kg
H104 Butt hinge - Maximum leaf weight of 80 kg
H105 Lift off hinge - Maximum leaf weight of 80 kg
H107 Lift off hinge - Maximum leaf weight of 120 kg
H1254-A Projection hinge - Maximum leaf weight of 100 kg
H1254-B Projection hinge - Maximum leaf weight of 100 kg
H1254 Butt hinge - Maximum leaf weight of 100 kg
H1250 Butt hinge - Maximum leaf weight of 100 kg
H102-A Projection hinge - Maximum leaf weight of 120 kg
H102-B Projection hinge - Maximum leaf weight of 120 kg
H102-300 Anti-ligature hinge - Maximum leaf weight of 120 kg
H125-300 Anti-ligature hinge - Maximum leaf weight of 120 kg

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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 44 mm thick. The door frame shall consist of timber with a minimum density of 460 kg/m³ for FD20/E20/EI20 or FD30/E30/EI30 applications. The door frame shall consist of a timber with a density in excess of 650 kg/m³ for FD60/E60/EI60 doorsets.
7. Both blades of the hinges must be bedded onto 1mm-thick Interdens when used with TT or ITT doorsets for 30 and 60 minute applications.
8. The 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.
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 30 or 60 minutes fire resistance as required when tested, or subsequently assessed to BS EN 1634-1: 2000, BS EN 1634-1:2008 or BS 476: Part 22: 1987. 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.
12. 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	✓	✓	x	x
FD30	x	x	x	✓	x	x
FD60	x	x	x	✓*	x	x
FD120	x	x	x	x	x	x
FD240	x	x	x	x	x	x
E 20	x	x	✓	✓	x	x
EI 20	x	x	✓	✓	x	x
E 30	x	x	x	✓	x	x
EI 30	x	x	x	✓	x	x
E 60	x	x	x	✓*	x	x
EI 60	x	x	x	✓*	x	x
E 90	x	x	x	x	x	x
EI 90	x	x	x	x	x	x
E 120	x	x	x	x	x	x
EI 120	x	x	x	x	x	x
E 240	x	x	x	x	x	x
EI 240	x	x	x	x	x	x

Key:

- ✓ - approved
- x - Not approved

* H1254-A, H1254-B, H102A & H102B hinges are not approved for FD60, E60 or EI60 applications.

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HI-LOAD HINGES - TRADITIONAL SERIES

Scope of Approval:

- H1254-A, H1254-B, H102A & H102B hinges are only approved for applications up to FD30, E30 and EI30 with ITT doorsets.
- 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 1mm-thick Interdens when used with ITT doorsets for FD30/E30/EI30/FD60/E60/EI60 applications.
- The door frame of TT and ITT doorsets shall consist of timber with a minimum density of 460 kg/m³ and 650 kg/m³ (with leaf to frame gaps less than 3mm) for 30 and 60 minute applications respectively.

Classification codes

The approval provides the following classifications:

H086 – Maximum leaf weight 60 kg

2	7	3	1	1	2	0	10
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H100 – Maximum leaf weight 80 kg

4	7	5	1	1	2	0	12
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H101 – Maximum leaf weight 80 kg

3	7	4	1	1	4	0	11
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H102, H102-0, H102-1, H102-5, H102A, H102-B & H102-300 – Maximum leaf weight 120 kg

4	7	6	1	1	2	0	13
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H103 – Maximum leaf weight 80 kg

4	7	5	1	1	2	0	12
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HI-LOAD HINGES - TRADITIONAL SERIES

Classification codes continued

H104 – Maximum leaf weight 60 kg

3	7	4	1	1	2	0	11
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H105 – Maximum leaf weight 80 kg

3	7	4	1	1	2	0	11
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H107 – Maximum leaf weight 120 kg

4	7	6	1	1	2	0	13
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H1254B & H1254A – Maximum leaf weight 100 kg

4	7	5	1	1	2	0	12
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H1254 & H1250 – Maximum leaf weight 100 kg

4	7	5	1	1	2	0	12
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H125-300 – Maximum leaf weight 100 kg

4	7	6	1	1	2	0	12
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Further Information

Further information regarding the details contained in this certificate may be obtained from Royde & Tucker Limited (Tel: 01462 444444).

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

