



CERTIFICATE OF APPROVAL

No CF 5689

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

ALLGOOD LTD
63-83 BEARLEY STREET, BIRMINGHAM,
B19 3NT, UNITED KINGDOM
Phone: 0121 359 4415

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
Concealed Bearing 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 Warringtonfire Testing and Certification Limited

Paul Duggan
Certification Manager

Issued: 24th January 2019
Revised: 4th August 2026
Valid to: 23rd January 2029





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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 specific Allgood stainless steel concealed bearing, single axis hinges:

<i>Ref.</i>	<i>Type</i>	<i>size mm</i>	<i>Radiused</i>	<i>Description</i>
8064	Concealed bearing	100 x 100 x 3		
8064R	Concealed bearing	100 x 100 x 3	Yes	
8064E	Concealed bearing	100 x 100 x 3		
8064RE	Concealed bearing	100 x 100 x 3	Yes	
8066	Concealed bearing	100 x 75 x 3		
8066R	Concealed bearing	100 x 75 x 3	Yes	
8066E	Concealed bearing	100 x 75 x 3		
8066RE	Concealed bearing	100 x 75 x 3	Yes	
8066T2	Concealed bearing	100 x 75 x 3		Conductor hinge 2-wire
8066T8	Concealed bearing	100 x 75 x 3		Conductor hinge 8-wire
8080	Concealed bearing	100 x 75 x 3		Template drilled
8080E	Concealed bearing	100 x 75 x 3		Template drilled
8081	Concealed bearing	100 x 75 x 3		Template drilled with dogbolt
8068	Concealed bearing	114 x 114 x 3		Template drilled
8084RL	Lift-off with concealed bearing	102 x 76 x 3	Yes	
8084RR	Lift-off with concealed bearing	102 x 76 x 3	Yes	
97511	Concealed bearing	102 x 76 x 3		5No. fixings in 'W' pattern
97511/R	Concealed bearing	102 x 76 x 3	Yes	5No. fixings in 'W' pattern
97512	Concealed bearing	102 x 102 x 3		5No. fixings in 'W' pattern
97512/R	Concealed bearing	102 x 102 x 3	Yes	5No. fixings in 'W' pattern



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3. This approval relates to their use with the following door assemblies:-

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 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.

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 EN 1935 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 laboratory accredited to IS/IEC 17025 (under International Laboratory accreditation Cooperation (ILAC) membership), in accordance with BS 476: Part 22: 1987 and/or BS EN 1634:1 with hinges of a similar size.



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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:
- a. 30 and 60 minute timber and mineral-based assemblies (ITT):
 - i) Door frame density - 460 kg/m³ (30 minutes), 640 kg/m³ (60 minutes)
 - ii) Door leaves shall have a minimum thickness of 44 mm for 30 minute applications and 54 mm for 60 minute applications.
 - iii) Lipping density - 640 kg/m³.
 - iv) For ITT 20 and 30 applications, a maximum of 42 mm blade width shall be recessed into the door edge/frame rebate.
 - b. Predominately Steel-based assemblies (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. For 90 minute and 120 minute timber and mineral-based assemblies (ITT), Allgood hinges shall only be fitted to doorsets which have previously been tested with hinges of a similar size, subject to the following requirements:
- i) The required intumescent protection shall be as tested by the chosen door manufacturer. In all cases this shall be a minimum of a 2 mm thick 'Interdens' or graphite based intumescent sheet material incorporated beneath each hinge blade, however, this protection shall be increased as required based on the chosen doorset manufacturers test data.
 - ii) Where the perimeter intumescent fire seal tested within the chosen doorset bypasses the hinge, this detail shall be maintained.
 - iii) The critical dimensions of the Allgood hinge to be used shall be based on the size of the hinge tested originally by the chosen doorset manufacturer, with the following tolerance:

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Hinge specification of chosen doorset	
Component/dimension	Tolerance/Rule
Hinge blade	
Width	+0/-5% of tested hinge
Height	+/-10% of tested hinge
Thickness	+/-15% of tested hinge
Knuckle	
Diameter	Minimum 13 mm
Fixings	
Quantity	Maximum 4No. fixings tested
Size	4.5 mm dia. Minimum
Length	No shorter than that tested
Position (width)	+/-10% from the positions of the fixings in the tested hinge when measured with respect to the centre lines of the blade

Note: Where the Allgood hinge does not comply with the parameters identified above it shall not be used in conjunction with the chosen 90 minute and 120 minute timber and mineral-based assemblies (ITT).

9. When fitted to insulated timber or mineral composite door assemblies, the required additional intumescent protection will be as follows:
- The required protection for 30 minute ITT applications will be 1 mm thickness of Interdens mono ammonium phosphate or graphite-based intumescent sheet material (see 'Scope of Approval' below) behind both blades.
 - The required protection for 60 minute ITT applications will be 2 mm thickness of Interdens mono ammonium phosphate or graphite-based intumescent sheet material (see 'Scope of Approval' below) behind both blades.
 - The required intumescent protection for 90 and 120 minute ITT applications shall be as tested by the chosen door manufacturer. In all cases this shall be a minimum of a 2 mm thick Interdens mono ammonium phosphate tested, or graphite based intumescent sheet material (see 'Scope of Approval' below) incorporated beneath each hinge blade, however, this protection shall be increased as required based on the chosen doorset manufacturers test data.

Failure to install the protection will invalidate this certificate



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10. 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.
11. Regard should be paid to the maximum door mass permitted to be used with the hinge (see classifications).
12. For ITT timber based doorsets the hinges shall only be fitted using the fixings supplied by the hinge manufacturer.
13. The ITT doorsets shall be installed in accordance with BS 8214.
14. 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, 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.

15. The approval relates to ongoing production. The 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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16. The following table show acceptable doorset types and fire resistance periods:

Class	Approved Door Type			
	IMM	MM	ITT	ITM
BS 476-22				
FD20	✓	✓	✓*	✗
FD30	✓	✓	✓*	✗
FD60	✓	✓	✓	✗
FD90	✓	✓	✗	✗
FD120	✓	✓	✗	✗
FD240	✓	✓	✗	✗
EN 1634-1				
Integrity	IMM	MM	ITT	ITM
20	✓	✓	✓*	✗
30	✓	✓	✓*	✗
60	✓	✓	✓	✗
90	✓	✓	✗	✗
120	✓	✓	✗	✗
240	✓	✓	✗	✗
Integrity/insulation	IMM	MM	ITT	ITM
20	✓	✓	✓*	✗
30	✓	✓	✓*	✗
60	✓	✓	✓	✗
90	✓	✓	✗	✗
120	✓	✓	✗	✗
240	✓	✓	✗	✗

Key:

- ✓ - approved
- ✗ - Not approved
- ✓* - a maximum of 42 mm blade width shall be recessed into the door edge/frame rebate



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17. 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.
- For ITT 20 and 30 applications, a maximum of 42 mm blade width shall be recessed into the door edge/frame rebate.
- Where graphite based intumescent sheet material is to be used in lieu of the Interdens mono ammonium phosphate tested, the proposed graphite-based intumescent sheet material, shall have suitable test evidence in the required thickness or less, with timber based doorset of the required classification period, with steel hinges of a minimum size of 100 mm x 75 mm.
- As identified in Annex E of EN1935, where doors incorporate closers without backcheck the effective door mass should assumed to be 20% higher than the actual door mass. For back-check closers the effective door mass should assumed to be 75 % higher than the actual door mass.
- Hinges are available with a powder coated finish or an applied finishes as per table below (other applied finishes are available):

Index	Finish Description
BF	Simulated Bronze
BG	PVD Black
BM	PVD Black
PS	Polished Stainless Steel
RG	PVD Satin Brass
RM	PVD Brass
SS	Satin Stainless Steel
ZG	PVD Bronze
ZM	PVD Bronze



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Classification codes

The approval provides the following classifications:

8064, 8064R, 8064E, 8064RE, 8066, 8066R, 8066E, 8066RE, 8066T2, 8066T8, 8080 and 8080E hinges:

4	7	7	1	1	4	0	14
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8081 hinges:

4	7	7	1	1	4	1	14
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8068, 8084RL, 8084RR, 97511, 97511/R, 97512 and 97512/R hinges:

4	7	6	1	1	4	0	13
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Further Information

Further information regarding the details contained in this certificate may be obtained from Allgood Ltd (Tel: 0121 359 4415).

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