CERTIFICATE OF APPROVAL
No CF 5292

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

ALLEGION (UK) LIMITED

35 Rocky Lane, Aston, Birmingham, B6 5RQ, United Kingdom
Tel: 0121 380 2400

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	TECHNICAL SCHEDULE
Briton 2420.T & BOSS ITS6.24 Concealed door closer	**TS 34 - The Contribution Of Controlled Door Closing Devices And Accessories To Fire Resisting Doorsets**

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

Paul Duggan
Certification Manager

Issued: 14th January 2015
Reissued: 12th August 2025
Valid to: 19th February 2030

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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 following concealed overhead door closing device and configurations:

	BRITON 2420.T	***BOSS ITS6.24***
Single-action	✓	✓
Double-action	✖	✖
Body door mounted in top edge	✓	✓
Body transom mounted	✖	✖

Key: ✓ - approved ✖ - Not approved

Note: Where alternative arms for non-fire applications are included within the packaging, the use of these components on fire resisting door assemblies will invalidate the certification.

3. This approval relates to its 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 ITT - 90 minute door assemblies door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with mineral cores, hung in mineral cored, timber faced frames.

4. The closer is approved on the basis of:

   i) Initial type testing to BS EN 1154 and BS EN 1634-1
   ii) An appraisal against TS34
   iii) Certification of quality management system.
   iv) Inspection and surveillance of factory production control
   v) On-going audit testing in accordance with EN 1154 requirements

5. This approval relates to the use of the above closers in contributing to the fire resistance performance of timber based doorsets, as defined in BS EN 1634-1:2014+A1:2018 or BS 476-22: 1987.

6. This approval is applicable only to the specified closer when mounted with its body concealed within the door leaf and its guide arm channel mounted to the head of the door frame, when fitted with the specified intumescent protection kit and used with door assemblies that are CERTIFIRE approved 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 and having power ratings appropriate to the leaf sizes subject to a minimum size 3 (as specified in BS EN 1154).

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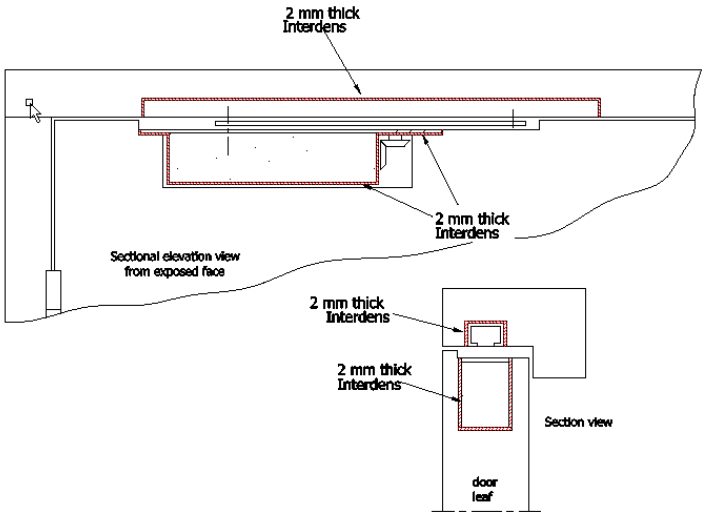
7. Where the closers are fitted to door leaves or frames that are manufactured from mineral composite-based materials, or low-density cellulosic- based material, the door assembly shall have previously been shown capable of accommodating the installation of closers at the head of the doorset, without detriment to the door assembly's performance.

8. Concealed closers shall only be fitted to doorsets which have previously been shown capable of accommodating the installation of similar concealed items at the head of the doorset, without detriment to the doorset's performance.

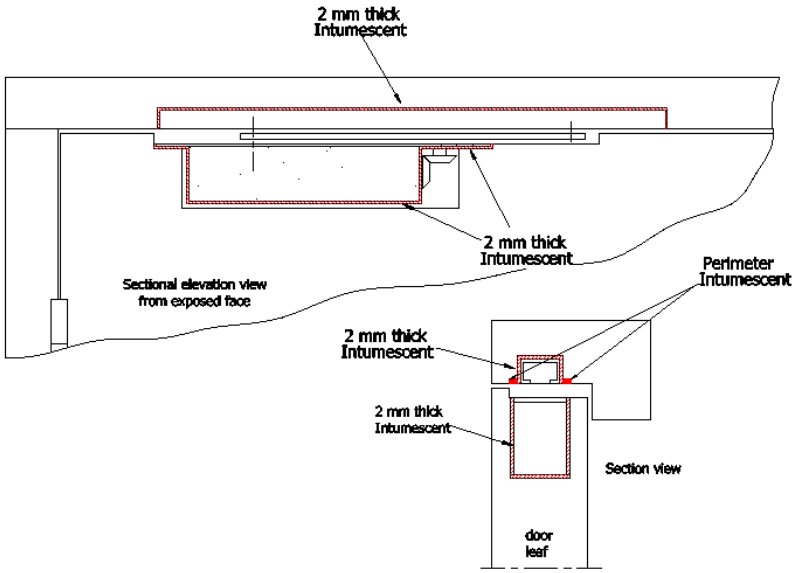
9. The critical aspects of the doorset construction are considered to be the material of the door frame, the leaf to frame clearance gaps and the lipping material. Attention should be paid to these details, and these should not be amended from that previously fire tested.

10. This approval relates to Briton 2420.T & BOSS ITS6.24 concealed overhead closers used with latched or unlatched single-leaf or double-leaf, assemblies consisting of timber faced and edged leaves with timber, cellulosic cores in timber frames (30 and 60 minutes) or mineral cores in mineral frames (90 minutes) and:

    a. The bodies mounted in the door leaf, are approved for up to 30 minute single-action doorsets of the following specification (Code ITT):
        i. Door leaves shall not be less than 44 mm thick.
        ii. The door frame shall consist of softwood or hardwood with a minimum density of 450 kg/m³ and with a minimum thickness of 30 mm (excluding any stop).
        iii. The closer shall be fitted with intumescent protection in the form of a minimum of:
            - 2 mm thickness of Interdens mono ammonium phosphate sheet material, fully lining the mortices cut into the top edge of the door leaf to accommodate the closer body assembly and fully lining the mortices cut into the within the frame head member to accommodate the guide channel assembly.
            - Allegion (UK) Ltd provides an intumescent protection kit referenced 2420.IP.



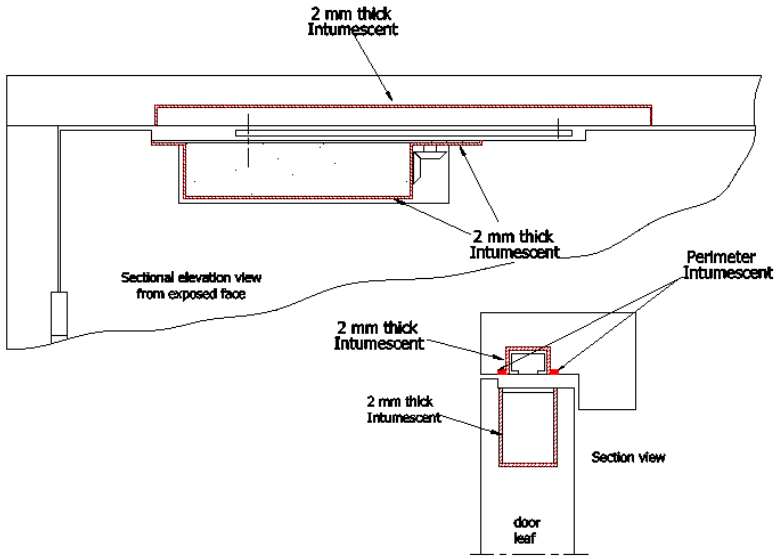
b. The bodies mounted in the door leaf, are approved for 60 minute single-action doorsets of the following specification (Code ITT):
   i. Door leaves shall not be less than 54 mm thick.
   ii. The door frame shall consist of hardwood with a minimum density of 640 kg/m³ and with a minimum thickness of 37 mm (excluding any stop).
   iii. The closer shall be fitted with intumescent protection in the form of a minimum of:
      - 2 mm thickness of mono ammonium phosphate sheet material, fully lining the mortices cut into the top edge of the door leaf to accommodate the closer body assembly and fully lining the mortices cut into the within the frame head member to accommodate the guide channel assembly.
      - Allegion (UK) Ltd provides an intumescent protection kit referenced 2420.IP.
   iv. In addition the perimeter intumescent fire seals within the frame shall by-pass the guide rail by a minimum of 5.5 mm on each side.



c. The bodies mounted in the door leaf, are approved for 90 minute single-action doorsets of the following specification (Code ITT):
   i. Door leaves shall have a mineral core with a minimum leaf thickness of 58 mm.
   ii. The door frame shall be a mineral cored construction having minimum (core) section sizes of 90 mm deep by 42 mm thick ((excluding any stop).
   iii. The closer shall be fitted with intumescent protection in the form of a minimum of:

- 2 mm thickness of mono ammonium phosphate sheet material, fully lining the mortices cut into the top edge of the door leaf to accommodate the closer body assembly and fully lining the mortices cut into the within the frame head member to accommodate the guide channel assembly (as above).
- Allegion (UK) Ltd provides an intumescent protection kit referenced 2420.IP.

iv. In addition the perimeter intumescent fire seals within the frame shall by-pass the guide rail and the intumescent protection by a minimum of 9 mm on each side.



Note: Failure to install intumescent protection identified above will invalidate this certificate

11. Closers in ITT doorsets shall be fixed with screws supplied by the closer manufacturer.

12. 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. body, face plate, guiderail, 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.

13. ITT30 and 60 timber doorsets shall be installed in accordance with BS 8214.

14. The approval relates to on-going production. The product and/or its immediate packaging are 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. The following table show acceptable doorset types and fire resistance periods:

	Approved Door Type			
Class	**IMM**	**MM**	**ITT**	**ITM**
BS476-22				
FD20	✗	✗	✓	✗
FD30	✗	✗	✓	✗
FD60	✗	✗	✓	✗
FD90	✗	✗	✓	✗
FD120	✗	✗	✗	✗
FD240	✗	✗	✗	✗
EN1634-1				
Integrity only	**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

16. Doors are categorised 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 closer may not be fitted to timber/mineral-based doorsets without perimeter intumescent fire seals within the frame rebate or door edge.
- The door leaves shall be of solid lignocellulosic or high density mineral construction in the closer area encompassing the entire closer body.
- Concealed overhead closers and their guide channel shall only be fitted in conjunction with the intumescent protection detailed previously in this certificate.
- Concealed overhead closers shall only be fitted to doorsets which have previously been shown capable of accommodating the installation of similar concealed items at the head of the doorset, without detriment to the doorset's performance.
- Mechanical Hold open option is not approved
- The following specific guide channel is approved for use with the concealed closers:
  - 440mm x 23 mm wide x 15 mm deep guiderail with lever arm.
- The following functions are supported by this certification:

Closer Ref.	Latch Control	Backcheck	Delayed-Action
Briton 2420.T	✓	×	×
BOSS ITS6.24	✓	×	×

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Classification codes:

Briton 2420.T & BOSS ITS6.24 - Standard door mount application only:

3	8	4 2	1	1	3

Note: power ratings shall be appropriate to the leaf sizes subject to a minimum size 3 (as specified in BS EN 1154).

Further Information

Further information regarding the details contained in this certificate may be obtained from Allegion (UK) Ltd (Tel: 0121 380 2400).

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