



CERTIFICATE OF APPROVAL

No CF 5629

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

HOPPE UK LTD

**Gailey Park, Gravelly Way, Standeford, Wolverhampton, WV10
7GW, United Kingdom
Tel: 01902 484481**

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
AR450 Overhead Door Closers

TECHNICAL SCHEDULE
**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: 26th March 2018
Reissued: 15th August 2023
Valid to: 24th March 2028



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HOPPE AR450 OVERHEAD DOOR CLOSERS

1. This certification is provided to the client for their 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. The Hoppe AR450 is a surface mounted, rack and pinion overhead door closer, available in fixed sizes EN3 only. This approval relates to the following overhead mounted door closing devices and configurations:

	Link-arms			Slide arms			
	Projecting arm (Fig. 1) <i>Body door mounted on pull face</i>	Projecting arm (Fig. 61) <i>Body transom mounted on push face</i>	Parallel arm (Fig. 6) <i>Body door mounted on push face</i>	Body door mounted on pull face	Body transom mounted on push face	Body door mounted on push face	Body transom mounted on pull face
AR450	✓	✓	✓	✗	✗	✗	✗

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 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.
4. The closers are approved on the basis of:
 - i) Initial type testing to EN1154 and BS EN 1634-1
 - ii) An appraisal against TS34
 - iii) Inspection of quality management system
 - iv) Inspection and surveillance of factory production control
 - v) Ongoing audit testing in accordance with EN 1154 requirements
5. The closers shall be fixed with screws supplied by the closer manufacturer. Bolt-through fixings shall not be used.



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6. Where the closers are fitted to door leaves or frames that are manufactured from 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.
7. This approval is applicable only to the specified closers when mounted in the applications stated later under the classification codes section of this certificate and used with door assemblies of proven fire resistance (as defined in BS EN 1634-1:2014+A1:2018 or BS 476-22: 1987.) and having power ratings appropriate to the leaf sizes subject to a minimum size 3 (as specified in BS EN 1154).
8. 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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9. The following tables show acceptable doorsets types and fire resistance periods:

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

Key:

✓ - approved

x - Not approved

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10. 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:

- Doors may not include uninsulated glass above 20% of their total area. Uninsulated glass shall not be included directly beneath the door closer body.
- The closers may not be fitted to timber doorsets without perimeter intumescent fire seals to the frame rebate or door edge.
- Mechanical Hold open option is not approved.
- The following functions are supported by this certification:

Closer Ref.	Application	Latch Control	Backcheck	Delayed-Action
AR450	Projecting arm (Figure 1) & transom mount (Figure 61)	Y	N	N
AR450	Parallel arm (Figure 6)	N	N	N



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Classification Codes

AR450 when mounted in projecting arm (Figure 1):

4	8	3	1	1	3
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AR450 when mounted in projecting arm transom mount (Figure 61) and parallel arm (Figure 6):

3	8	3	1	1	3
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Further Information

Further information regarding the details contained in this data sheet may be obtained from Hoppe UK Limited (Tel: 01426 477600).

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