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## CERTIFICATE OF APPROVAL

### No CF5800

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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

**Zhejiang Dorrenhaus Hardware Industry Co Ltd**  
No. 350 - 1, Guilan Road, Qiaodun Town, Cangnan County,  
Wenzhou, Zhejiang, China, 325806  
Phone: +86- (0) 577 - 64614399

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

D2000H and D2024 Door Surface  
Mounted Overhead 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: 14<sup>th</sup> January 2021  
Revised: 28<sup>th</sup> June 2021  
Valid to: 13<sup>th</sup> January 2026



## CERTIFICATE No CF 5800 Zhejiang Dorrenhaus Hardware Industry Co Ltd

### D2000H & D2024 SURFACE MOUNTED 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. This approval relates to the following overhead mounted door closing devices and configurations:

	TABLE 1						
	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
<b>D2000H</b>	✗	✗	✗	✓	✗	✗	✗
<b>D2024</b>	✓	✓	✗	✗	✗	✗	✗

**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: -

**Latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in timber frames having a fire resistance of up to 120 minutes (Code ITT).**

4. The closers are 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

Signed  
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**D2000H & D2024 SURFACE MOUNTED OVERHEAD DOOR CLOSERS**

5. 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 or BS 476: Part 22: 1987) and having power ratings appropriate to the leaf sizes subject to a minimum size 3 (as specified in BS EN 1154).
6. EN1634-1 was issued originally in 2000, with amended versions issued in 2008, 2014 and 2018. The differences between each version are mainly procedural and are not considered to have a practical impact on the performance of the samples under test. On this basis this evaluation is consider applicable to all versions of EN1634-1 issued prior to the issue of this assessment.
7. The closers shall be fixed with screws supplied by the closer manufacturer. Bolt-through fixings shall not be used.
8. Where the closers are fitted to door leaves or frames that are manufactured from mineral-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.
9. Timber based doorset shall be installed in accordance with BS 8214.
10. 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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**D2000H & D2024 SURFACE MOUNTED OVERHEAD DOOR CLOSERS**

7. The following table show acceptable doorset types and fire resistance periods:

TABLE 2					
Approved Door Type					
Class	IMM	MM	ITT	ITM	ITC
FD20	x	x	✓	x	x
FD30	x	x	✓	x	x
FD60	x	x	✓	x	x
FD90	x	x	✓	x	x
FD120	x	x	✓	x	x
FD240	x	x	x	x	x
E 20	x	x	✓	x	x
EI 20	x	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
E 90	x	x	✓	x	x
EI 90	x	x	✓	x	x
E 120	x	x	✓	x	x
EI 120	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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### D2000H & D2024 SURFACE MOUNTED OVERHEAD DOOR CLOSERS

8. Doors are classified as the following types:

**Code ITT** - 20 minute to 120 minute doorsets containing intumescent seals and consisting of timber faced and edged leaves with timber, cellulosic or mineral cores, hung in timber-based frames.

**Code ITM** - 20 minute to 120 minute doorsets containing intumescent seals and consisting of timber faced and edged leaves with timber, cellulosic or mineral cores, hung in steel frames.

**Code ITC** - 20 minute to 120 minute doorsets containing intumescent seals and consisting of timber faced and edged leaves with timber, cellulosic or mineral cores, hung in proprietary composite frames, of which the principal material is other than timber or metal but which may include any other materials.

**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:

Table 3				
Closer Ref.	Application	Latch Control	Backcheck	Delayed-Action
<b>D2000H</b>	Body door mounted on pull face	Yes	No	No
<b>D2024</b>	Projecting arm (Fig. 1) Body door mounted on pull face	Yes	Yes	No
<b>D2024</b>	Projecting arm (Fig. 61) Body transom mounted on push face	No	Yes	No

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**D2000H & D2024 SURFACE MOUNTED OVERHEAD DOOR CLOSERS**

**Classification codes:**

D2000H Body door mounted on pull face:

4	8	3	1	1	3
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D2024 Body door mounted on pull face:

4	8	4 2	1	1	3
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D2024 Body transom mounted on push face – without projection head:

3	8	4 2	1	1	3
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D2024 Body transom mounted on push face – 50 mm projection head:

3	8	4 2	1	1	3
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**Further Information**

Further information regarding the details contained in this certificate may be obtained from Zhejiang Dorrenhaus Hardware Industry Co Ltd (Tel. +86- (0) 577 - 64614399).

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

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