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## CERTIFICATE OF APPROVAL

### No CF 370

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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

## SAMUEL HEATH & SONS PLC

Leopold Street, Birmingham, B12 0UJ, United Kingdom  
Tel: 0121 772 2303 Fax: 0121 772 3334

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

R100 Perko-Powermatic Vertical  
Edge-Mounted Controlled Door  
Closers

#### TECHNICAL SCHEDULE

TS34 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: 22<sup>nd</sup> September 2004  
Reissued: 8<sup>th</sup> January 2025  
Valid to: 23<sup>rd</sup> October 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 Perko-Powermatic concealed vertical edge-mounted controlled door closers:

Reference	Description
<b>R100</b>	Perko-Powermatic

3. This approval relates to their 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 IMM / MM - 20 minute to 240 minute door assemblies consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames with or without intumescent seals.**

*Note: Where R100 closers are to be fitted to insulated steel-based doorsets the doors must have been proven with an edge mounted device of at least the same rebate and body size.*

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) On-going audit testing in accordance with EN 1154 requirements
5. The Samuel Heath & Sons R100 Perko-Powermatic closers have a power size 3 in accordance with EN 1154.
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 concealed closers, without detriment to the door assembly's performance.
7. Recessing for closers shall result in a tight fit, allowing for any intumescent protection where required.

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8. The closers shall only be fitted using the fixings supplied by the closer manufacturer.
9. This approval relates to the R100 Perko-Powermatic concealed vertical edge-mounted door closers used with latched or unlatched single-leaf or double-leaf door assemblies of up to 60 minutes integrity and insulation, consisting of timber faced and edged leaves with timber, cellulosic cores in timber frames (Codes ITT)
  - i. Door leaves shall be not less than 44 mm thick for up to 30 minute applications and not less than 53 mm thick for 60 minute applications.
  - ii. The door frame shall consist of timber with a minimum density of 450 kg/m<sup>3</sup> for FD20, FD30, E30 and EI30 applications, or alternatively MDF having minimum dimensions of 70 mm by 25 mm with a minimum density of 700 kg/m<sup>3</sup> (with leaf to frame gaps up to 3mm), for FD20 and FD30 applications.
  - iii. Leaf to frame gaps up to 3mm
  - iv. For FD60, E60 and EI60 applications the door frame shall be hardwood with a minimum density of 550 kg/m<sup>3</sup> (with leaf to frame gaps up to 3mm).
  - v. For intumescent protection please refer to the Scope of Approval.
10. Additionally this approval relates to the R100 Perko-Powermatic concealed vertical edge-mounted door closers used with latched or unlatched single-leaf or double-leaf door assemblies of up to 240 minutes integrity, consisting of insulated and uninsulated steel-based leaves with steel-based frames (Codes MM and IMM)
  - i. Door leaves shall be not less than 45 mm thick.
  - ii. The door frame shall consist of steel.
  - iii. Leaf to frame gaps up to 3 mm
  - iv. Insulated steel-based doorsets must have been proven with an edge mounted device of at least the same rebate and body size.
11. The R100 closers may be fitted within flush door leaves, moulded or panelled door leaves and tubecore and panelled door leaves subject to the requirements given the Scope of Approval.

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12. The concealed closers shall only be fitted to doorsets which have previously been shown capable of accommodating the installation of similar concealed items at the vertical edge of the doorset, without detriment to the doorset's performance.
13. ITT30 and ITT60 Timber based doorset shall be installed in accordance with BS 8214.
14. This approval is applicable only to the specified closers when mounted in the applications stated 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).
15. 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; and 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.

16. 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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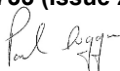
17. The following table shows acceptable doorset types and fire resistance periods for the concealed closer:

Class	Approved Door Type			
	MM	IMM	ITT	ITM
FD20	✓	✓	✓	✗
FD30	✓	✓	✓	✗
FD60	✓	✓	✓	✗
FD120	✓	✓	✗	✗
FD240	✓	✓	✗	✗
E 20	✓	✓	✓*	✗
EI 20	✓	✓	✓*	✗
E 30	✓	✓	✓*	✗
EI 30	✓	✓	✓*	✗
E 60	✓	✓	✓	✗
EI 60	✓	✓	✓	✗
E 90	✓	✓	✗	✗
EI 90	✓	✓	✗	✗
E 120	✓	✓	✗	✗
EI 120	✓	✓	✗	✗
E 240	✓	✓	✗	✗
EI 240	✓	✓	✗	✗

**Key:**

- ✓ - approved
- ✗ - Not approved
- ✓\* - Subject to the restriction on door construction types detailed in the Scope of Approval.

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18. 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:

##### ***R100 - Alternative Door Constructions***

- The closer units shall not be fitted higher than 1000 mm from the base of timber based door leaves, and not be fitted higher than 800 mm from the base of steel-based door leaves.
- For FD30 doorsets only, the closers may be fitted to tubecore door constructions for performances up to 30 minutes the door leaves shall have timber lippings with a minimum density of 450 kg/m<sup>3</sup>.
- The door closers may be fitted to moulded or panelled doors and glazed doors for performances of 30 minutes and 60 minutes, subject to the requirement that any part of the mortise cut out being positioned not closer than 10 mm from the mould detail, panel edge groove or glazing aperture.
- In situations where the installation of the closer cannot comply with the above requirement, i.e. the installation would need the mortise cutting closer than 10 mm from a panel edge, it is possible to fit the closer in reverse such that the closer body is mounted through the door frame and projects through the back of the door frame and into either the wall cavity, or an aperture specifically provided to accommodate the closer body within the supporting wall construction. All other aspects of the approved use, i.e. door gaps and use of intumescent protection shall be maintained. This application is only approved for use on fully latched doorsets.

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#### ***R100 - Intumescent Protection Requirements***

- The R100 closer unit shall be bedded upon intumescent mastic which shall be provided by the manufacturer and is detailed within the manufacturer's product data sheet. Alternatively, the R100 may be fitted with the manufacturer's R97-XX intumescent protection kit which comprises pre-cut, self-adhesive intumescent sheet material.

#### **Classification code**

The approval provides the following classifications:

R100 Perko-Powermatic – Maximum leaf weight 79 kg:

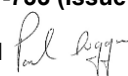
3	8	3	1	1	3
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#### **Further Information**

Further information regarding the details contained in this certificate may be obtained from Samuel Heath & Sons PLC (Tel: 0121 772 2303).

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

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