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## CERTIFICATE OF APPROVAL

### No CF 5514

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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

## GRETSCH UNITAS LTD

Unit 5 Spitfire Close, Coventry Business Park, Coventry, CV5 6UR  
Tel: 02476 217900

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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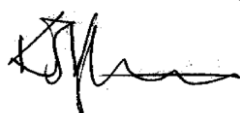
#### CERTIFIED PRODUCT

L-10002 Series Of Surface  
Mounted And Concealed  
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 Exova (UK) Limited trading as  
Warrington Certification



Sir Ken Knight  
Chairman  
Impartiality Committee



Paul Duggan  
Certification Manager



Issued: 23<sup>rd</sup> February 2017  
Valid to: 31<sup>st</sup> October 2021

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## CERTIFICATE No CF 5514

### GRETSCH UNITAS LTD

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#### GRETSCH UNITAS LTD - L-10002 SERIES OVERHEAD DOOR CLOSERS

1. This approval applies to the GRETSCH UNITAS overhead door closer models, specifically L-10002-01, L-10002-02, L-10002-03, L-10002-04 and L-10002-05 surface mounted closers and L-10002-06 concealed closers, but excludes any mechanical hold open variants. The approved products comprise models with adjustable power and fixed size 3.
2. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), the Technical Handbooks (Scotland) and Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.
3. This approval relates to the use as follows:  
  
L-10002-01, L-10002-02, L-10002-03, L-10002-04 and L-10002-05 surface mounted closers 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).**  
  
L-10002-06 concealed closers 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 30 minutes or 60 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
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).

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**GRETSCH UNITAS LTD - L-10002 SERIES OVERHEAD DOOR CLOSERS**

6. For L-10002-06 concealed closers, 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 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).
7. For L-10002-06 concealed closers only, the closer shall be fitted with intumescent protection in the form of 2 mm thick Interdens sheet material fully lining the mortices cut into the head of the door leaf and top frame member to accommodate the closer body and guide channel assembly. Additionally for 60 minute applications the perimeter intumescent within the head of the frame shall by-pass the slide-arm channel/Interdens liner by a minimum of 5 mm either side. Failure to install this intumescent protection in the appropriate manner will invalidate this approval.
8. 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.

## CERTIFICATE No CF 5514 GRETSCHE UNITAS LTD

### GRETSCHE UNITAS LTD - L-10002 SERIES OVERHEAD DOOR CLOSERS

9a. The following table show acceptable doorset types and fire resistance periods for the L-10002-01, L-10002-02, L-10002-03, L-10002-04 and L-10002-05 surface mounted closers:

Class	Approved Door Type				
	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

## CERTIFICATE No CF 5514 GRETSCHE UNITAS LTD

### GRETSCHE UNITAS LTD - L-10002 SERIES OVERHEAD DOOR CLOSERS

9b. The following table show acceptable doorset types and fire resistance periods for the L-10002-06 concealed closers:

Class	Approved Door Type				
	IMM	MM	ITT	ITM	ITC
FD20	x	x	x	x	x
FD30	x	x	✓	x	x
FD60	x	x	✓	x	x
FD90	x	x	x	x	x
FD120	x	x	x	x	x
FD240	x	x	x	x	x
E 20	x	x	x	x	x
EI 20	x	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	x
EI 90	x	x	x	x	x
E 120	x	x	x	x	x
EI 120	x	x	x	x	x
E 240	x	x	x	x	x
EI 240	x	x	x	x	x

**Key:**

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#### GRETSCH UNITAS LTD - L-10002 SERIES OVERHEAD DOOR CLOSERS

10. Doors are classified as the following types:

**Type MM** - 20 minute to 240 minute doorsets that consist of metallic leaves in metallic frames that do not contain intumescent materials in the frame to leaf gap.

**Type IMM** - 20 minute to 240 minute doorsets that consist of metallic leaves in metallic frames that contain intumescent materials in the frame to leaf gap.

**Type ITT** - 20 minute to 120 minute doorsets containing intumescent seals and consisting of non-metallic faced and edged leaves hung in timber frames

**Type ITM** - 20 minute to 120 minute doorsets containing intumescent seals and consisting of non-metallic faced and edged leaves hung in metal frames.

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

#### Scope of Approval:

- The closers may not be fitted to fire doorsets without intumescent protection.
- All applications apply to unglazed doorsets and glazed doorsets incorporating an uninsulated glass panel size of less than 20% of the leaf area.
- L-10002-06 concealed closers only - The closer and its guide channel shall only be fitted in conjunction with the intumescent protection detailed previously in this certificate.
- L-10002-06 concealed closers only - The closer 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 doorsets performance.
- L-10002-06 concealed closers only - 30 minute doorsets shall incorporate a door leaf having a minimum thickness of 44 mm and shall incorporate a door frame having a minimum density of 450 kg/m<sup>3</sup>.
- L-10002-06 concealed closers only - 60 minute doorsets shall incorporate a timber door leaf having a minimum thickness of 54 mm and shall incorporate a hardwood door frame having a minimum density of 640 kg/m<sup>3</sup>.

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### GRETSCH UNITAS LTD - L-10002 SERIES OVERHEAD DOOR CLOSERS

#### Scope of Approval – Cont'd:

- L-10002-06 concealed closers only - Additionally for 60 minute applications the perimeter intumescent within the head of the frame shall by-pass the slide-arm channel/Interdens liner by a minimum of 5 mm either side.

#### Classification codes:

**L-10002-01, L-10002-02 & L-10002-03 in Figure 1 projecting arm application.**

3	8	4 3	1	1	3
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**L-10002-01, L-10002-02 & L-10002-03 in Figure 6 parallel arm application.**

3	8	3	1	1	3
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**L-10002-04 in Figure 1 projecting arm application.**

4	8	5 3	1	1	4
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**L-10002-04 in Figure 6 parallel arm application.**

3	8	4 3	1	1	4
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**L-10002-05 - door mount pull side/transom mount push side and door mount push side/transom mount pull side**

4	8	4 3	1	1	3
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**L-10002-06 - Standard door mount application only.**

3	8	4 3	1	1	3
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**GRETSCHE UNITAS LTD - L-10002 SERIES OVERHEAD DOOR CLOSERS**

**Further Information**

Further information regarding the details contained in this certificate may be obtained from Gretsch Unitas Ltd (Tel: 02476 217900).

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

Page 8 of 8 Signed  
K/002

Two handwritten signatures in black ink, one appearing to be "K/002" and the other a cursive signature.

Issued: 23<sup>rd</sup> February 2017  
Valid to: 31<sup>st</sup> October 2021