



CERTIFICATE OF APPROVAL

No CF 5596

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

SALTO SYSTEMS S.L.

C/ Arkotz 9, Pol Lanbarren 20180 Oiartzun, Gipuzkoa, Spain
TEL: 34 9433344550

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

**SALTO LE7S Range of Mortice
Locks and Electronic
Escutcheons**

TECHNICAL SCHEDULE

**TS23 The Contribution of
Locks and Latches to The
Performance of Fire Resisting
Doorsets**

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

Paul Duggan
Certification Manager



Issued:
Reissued:
Valid to:

23rd January 2018
30th January 2023
29th January 2028





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SALTO LE7S Mortice Locks and Electronic Escutcheons

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 Salto locks and strikes covered by this certificate are all morticed lockcases with surface mounted electronic escutcheons. This approval relates to the following specific products:
 - i) LE7S25 mortice sashlock
 - ii) LE7S15 mortice escape lock
 - iii) LE7S05 mortice nightlatch
 - iv) XS4 Original Ei4xx electronic escutcheons (Standard, Fire Door Special & SKG model)
 - v) XS4 Original Ei6xx electronic escutcheon (Standard, Fire Door Special, AMOK, Wireless and Keypad)
 - vi) XS4 One Ei7xx electronic escutcheon (Standard, Fire Door Special & SKG model)
 - vii) XS4 Mini Ei1xx electronic escutcheon with Salto lever on round rose
 - viii) XS4 Original+ Ei4xx electronic escutcheons (Standard, Fire Door Special, Heavy Duty & SKG model)
 - ix) XS4 Original+ Ei6xx electronic escutcheon (Standard, Fire Door Special, AMOK)
 - x) XS4 One+ Ei8xx electronic escutcheon (Standard, Fire Door Special, Heavy Duty & SKG model)
 - xi) XS4 One+ Ei9xx electronic escutcheon (Standard & Fire Door Special)

The lockcase has a steel forends, case, latchbolt and strikeplates; with a maximum forend dimension of 235 mm high x 24 mm wide x 3 mm thick, case dimensions of 165 mm high x 15 mm thick x a maximum depth of 101 mm, and a latchbolt projection of 15 mm.

3. This approval relates to the use of the above locks and electronic escutcheons in contributing to the fire resistance performance of timber/mineral-based doorsets, as defined in BS EN 1634-1 or BS 476: Part 22: 1987.
4. 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 30 minutes or 60 minutes (Code ITT).



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5. The locks are approved on the basis of:
- i) Initial type testing to EN 1634-1 and EN 12209
 - ii) An appraisal against TS23
 - iii) Certification of quality management system.
 - iv) Inspection and surveillance of factory production control
 - v) On-going audit testing in accordance with TS23 requirements
6. The locks and electronic escutcheons and their associated strikeplates and keeps may only be fitted in the manner described in this certificate and subject to any limitations on the inclusion of locks specified for the door leaf. This approval is applicable only to the specified locks and electronic escutcheons used with door assemblies of proven fire resistance (as defined in BS EN 1634-1).
7. The locks and electronic escutcheons should only be used with door assemblies of proven fire resistance (as defined in BS EN 1634-1 or BS 476: part 22: 1987) with similar size locks and strikeplates, 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. The following minimum specification will be followed:
- Timber-based assemblies:
- i) Door frame density - 450 kg/m³ (30 minutes), 640 kg/m³ (60 minutes)
 - ii) Door leaves shall have a minimum thickness of 44 mm for 30 minute applications and 54 mm for 60 minute applications.
 - iii) Lipping density - 640 kg/m³.
8. When fitted to insulated timber or mineral composite door assemblies, The required protection will be as follows:
- a. All systems - The required protection for 30 minute ITT applications will be 1 mm thick mono ammonium phosphate intumescent sheet behind the strike plate only.
 - b. All systems except XS4 One and XS4 One+ electronic escutcheon - The required protection for 60 minute ITT applications will be 1 mm thick 'Interdens' intumescent sheet material behind the strike plate only. Additionally, the perimeter intumescent fire seals within the frame/door edge shall by-pass the strike plate or forend by a minimum of 7.5 mm wide on each side (except for the latchbolt lip where present).



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- c. XS4 One and XS4 One+ Ei7xx, Ei8xx & Ei9xx electronic escutcheon only -
The required protection for 60 minute ITT applications will be 2 mm thick 'Interdens' intumescent sheet material behind the strike plate only. Additionally, the perimeter intumescent fire seals within the frame/door edge shall by-pass the strike plate or forend by a minimum of 7.5 mm wide on each side (except for the latchbolt lip where present).

Note: Failure to install the above protection will invalidate this certificate.

9. The doorsets shall not be of metal construction (leaf or frame).
10. Where self-closing is a requirement, an EN1154 or EN1155 closer with a minimum power size 4 shall be fitted to ensure the self-closing mechanism is capable of overcoming the latch function and returning the door leaf to the fully closed position. A higher power size may be necessary for wider doors and door assemblies incorporating additional smoke or environmental seals.
11. The effectiveness and electrical safety of the electronic escutcheons is outside the scope of this certification.
12. The locks shall only be fitted using the fixings supplied by the manufacturer.
13. Fitting of the lock and any apertures within the door shall be strictly in accordance with the manufacturer's instructions/templates.
14. Recessing for locks and strikeplates shall result in a tight fit, allowing for any intumescent protection where required.
15. Cylinders shall only be fitted to doors which have previously been shown capable of accommodating the installation of cylinder locks without detriment to the doorset's performance.
16. The mortice locks may incorporate Euro profile cylinders as follows:
 - i) Single cylinder
 - ii) Double cylinder
 - iii) Cylinder and thumbturn
 - iv) Brass or steel cylinders for ITT30 and 60 doorsets

Note: The hole in the door face shall follow the shape of the cylinders and be as tight as possible; furthermore, the single cylinders door preparation will penetrate through only half the thickness of the door leaf)



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17. ITT30 and 60 doorsets shall be installed in accordance with BS 8214.
18. The spindle hole through the door shall be a maximum of 25 mm diameter unless the doorset has test evidence that proves spindle holes of a greater size than this.
19. The locks/latches should not be fitted higher than 1100 mm from the spindle to the finished floor level of the surrounding floors.
20. 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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21. The following table shows the acceptable doorset types and fire resistance periods:

Class	Approved Door Type			
	IMM	MM	ITT	ITM
FD20	x	x	✓	x
FD30	x	x	✓	x
FD60	x	x	✓	x
FD90	x	x	x	x
FD120	x	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	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
EI 240	x	x	x	x

Key:



- approved



- Not approved



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22. 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 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.

Approved Accessories

- The locks may not be fitted to timber doorsets without perimeter intumescent fire seals.
- ITT door leaves shall have solid lignocellulosic construction in the lock area encompassing the entire lock case.
- Strikeplates/keeps - The LE7S locks are approved with a range of strikeplates/keeps all of which are steel, and the maximum size permitted for use on all doorsets is as follows:

width	24 mm (exc. Lip)
height	170 mm
thickness	2 mm
Latchbolt- lip height	72 mm

- Plastic dust boxes are permitted behind the strikeplate, however the intumescent protection identified in section 8 shall be maintained.

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Classification codes

LE7S25 mortice sashlock:

3	M	8	1	0	F	2	B	A	1	0
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LE7S15 mortice escape lock:

3	M	8	1	0	F	2	B	A	1	0
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LE7S05 mortice nightlatch:

3	M	8	1	0	F	-	B	0	1	0
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Further Information

Further information regarding the details contained in this certificate may be obtained from SALTO SYSTEMS S.L. (Tel: 34 9433344550).

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

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