



CERTIFICATE OF APPROVAL

No CF 5774

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

Assa Abloy Security Solutions

School Street, Willenhall, West Midlands,
WV13 3PW

Phone: 01902 364 007

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
StrongBOLT Mortice Locks

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: 14th January 2022
Audit Test Frequency: Annually
Valid to: 25th August 2025



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1. The locks and latches covered by this certificate are all steel cased. This approval relates to locks and latches as follows:

Reference	Description	Strikeplate Backbox
2100	BS 5 lever deadlock	Steel
2200	BS 5 lever sashlock	Steel
2205	5 lever sashlock	Steel
2105	5 lever deadlock	Steel
2203	3 lever sashlock	Plastic
2103	3 lever deadlock	Plastic
22WC	Bathroom lock	Plastic
22EU	Euro profile cylinder sashlock	Plastic
21EU	Euro profile cylinder deadlock	Plastic
22OVS	Oval profile cylinder sashlock	Plastic
21OVS	Oval profile cylinder deadlock	Plastic

2. The locks have a maximum 162 mm high x 26 mm wide radiused inner forend. The case, inner forend and strikeplates are all of steel, with a steel or brass decorative forend. The latchbolts are zinc with a projection of 12 mm. The deadbolts are zinc or brass. The locks are available with either a 45 mm or 57 mm backset.
3. 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.
4. This approval relates to the use of the above locks/latches in contributing to the fire resistance performance of timber based doorsets, as defined in BS EN 1634-1 or BS 476: Part 22: 1987.
5. 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 up to 60 minutes (Code ITT).

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6. The locks are approved on the basis of:
- i) Initial type testing to EN 1634-1 and EN 12209
 - ii) An appraisal against TS23
 - ii) Certification of quality management system.
 - iii) Inspection and surveillance of factory production control
 - iv) On-going audit testing in accordance with TS23 requirements
7. The mortice locks and/or latches 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 for both 30 and 60 minute ITT applications will be as follows:
- **Option 1 - Interdens** – 2 mm Mono Ammonium Phosphate (MAP)
 - 2 mm Interdens around the case
 - 2 mm Interdens behind the forend and strike plate
 - 2 mm Interdens around the dust box **if plastic** (not required for steel dustboxes)
 - 2 mm Interdens placed inside the dustbox (covering the full base of the pocket).
 - **Option 2 - Firestop Manufacturing Ltd** – 0.8 mm Self-adhesive graphite sheet.
 - 0.8 mm graphite around the case
 - 0.8 mm graphite behind the forend and strike plate
 - 0.8 mm graphite strip placed inside the dustbox (covering the full base of the pocket)
 - Additionally, for 60 minute applications only, the perimeter intumescent fireseals within the frame/door edge shall by-pass the strike plate or forend by a minimum of 7.5 mm wide on each side (with the exception of the latchbolt lead)

Failure to install the protection will invalidate this certificate

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9. The mortice locks and/or latches 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/latches specified for the door leaf. This approval is applicable only to the specified locks used with door assemblies of proven fire resistance (as defined in BS EN 1634-1 or BS 476: Part 22: 1987) and when using appropriate intumescent protection.
10. Lock assemblies not incorporating a latching mechanism shall only be fitted to proven unlatched door assemblies.
11. The mortice locks and/or latches should only be used with doorsets which have been previously shown to be capable of providing the required fire resistance performance when tested in accordance with EN 1634-1 or BS 476: Part 22: 1987 in the proposed configuration i.e. single-leaf or double-leaf.
12. The locks/latches shall not be fitted higher than 1100 mm from the centre of the lock to the finished floor level of the surrounding floors.
13. The mortice locks may incorporate Europrofile and Oval cylinders as follows:
 - i) Single cylinder
 - ii) Double cylinder
 - iii) Cylinder and thumbturn
 - iv) Brass or steel cylinders

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)

14. Recessing for locks shall result in a tight fit, allowing for any intumescent protection where required.
15. The doorset shall be installed in accordance with BS 8214
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 the acceptable doorset types and fire resistance periods:

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	x
FD120	x	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	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:

- ✓ - approved
- x - Not approved

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18. 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.

19. Approved lock/latch models and classifications.

Reference	Description	Classification to EN 12209: 2003										
2100	BS 5 lever deadlock	2	M	4	1	0	F	7	K	D	0	B
2200	BS 5 lever sashlock	2	M	4	1	0	F	7	K	D	2	B
2205	5 lever sashlock	2	M	4	1	0	F	2	K	D	1	B
2105	5 lever deadlock	2	M	4	1	0	F	2	K	D	0	B
2203	3 lever sashlock	2	M	4	1	0	F	2	K	D	1	A
2103	3 lever deadlock	2	M	4	1	0	F	2	K	D	0	A
22WC	Bathroom lock	2	M	4	1	0	F	1	B	G	1	0
22EU	Euro profile cylinder sashlock	2	M	4	1	0	F	2	B	A	1	0
21EU	Euro profile cylinder deadlock	2	M	4	1	0	4	2	B	A	0	0
22OVS	Oval profile cylinder sashlock	2	M	4	1	0	F	2	B	A	1	0
21OV	Oval profile cylinder deadlock	2	M	4	1	0	F	1	B	A	0	0

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Scope of approval

- The locks may not be fitted to timber doorsets without perimeter intumescent fire seals in the frame rebate or door edge.
- Strikeplates/keeps
 - The 2203, 2103, 22WC, 22EUS, 21EUS, 22OVS & 21OVS locks are approved with a range of strikeplates/keeps with a plastic backbox. The a maximum size permitted for use on all doorsets is as follows:

width	29 mm (exc. Lip)
height	168 mm
thickness	2 mm
Latchbolt- lip height	90 mm

- The 2100, 2200, 2205 & 2105 locks are approved with a range of strikeplates/keeps with a steel backbox. The a maximum size permitted for use on all doorsets is as follows:

width	30 mm (exc. Lip)
height	180 mm
thickness	2 mm
Latchbolt- lip height	100 mm

- The intumescent specification identified in Section 8 shall be followed.

Further Information

Further information regarding the details contained in this certificate may be obtained from Assa Abloy Security Solutions (Tel: 01902 364 007).

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

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